April 16, 2014

Ms. Kimberly Tisa
United States Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code: OSRR07-2
Boston, MA 02109-3912

RE: Application for Risk-Based Soil Cleanup Plan
Maine Energy, Biddeford, Maine

Dear Ms. Tisa:

Maine Energy is requesting approval of a risk-based Polychlorinated Biphenyl cleanup application from U.S. EPA Region 1 (EPA) under 40 CFR 761.61(c). The attached risk-based application presents sampling results, a risk analysis, and a proposed remediation plan to remove and dispose of approximately 1,082 cubic yards of demolition debris and fill containing PCBs over 50 parts per million (ppm) and approximately 1,000 cubic yards of demolition debris and fill containing PCBs greater than 25 ppm but less than 50 ppm. The application also presents details on a pending environmental covenant to permanently restrict the area of concern to certain land uses.

The enclosed risk-based application is supported by analytical data from over 150 soil samples collected within and adjacent to the area of concern. The risk analysis presented in Section 5 provides support for the conclusion that collectively, the soil remedy and the cap proposed to be installed, are protective of human health and the environment.

Our tentative schedule to implement the proposed Plan is during early summer of this year. Maine Energy will initiate the activities described in the application upon approval by EPA.

Please contact me if we can provide additional information or if you have any questions regarding this application.

Sincerely,

John Bubier
City of Biddeford

Brian Oliver
Maine Energy Recovery Company, LP

CC: John K. Cressey, Summit
Brian Phinney, City of Biddeford
Ken Robbins, Maine Energy Recovery Company, LP
Nicholas Hodgkins, Maine DEP

{W4215222.1}

# APPLICATION FOR
# 40 CFR 761.61(c) RISK-BASED CLEANUP OF SOIL
# MAINE ENERGY
# BIDDEFORD, MAINE

Prepared For:
MAINE ENERGY
3 Lincoln Street
Biddeford, Maine 04005

Prepared By:
Summit Environmental Consultants
640 Main Street
Lewiston, Maine 04240

April 16, 2014
Project # 12-3259.1

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## 1.0 INTRODUCTION

This risk-based application is for cleanup of polychlorinated biphenyl (PCB) impacted demolition debris and fill at a former boilerhouse on the eastern portion of the former Maine Energy property in Biddeford, Maine. The City of Biddeford completed its purchase of the property in November 2012. A Site Locus Map is included as Figure 1. This application includes:

1. Results for characterization and delineation of PCB impacted demolition debris and fill (completed).
2. A Plan for removal and off-site disposal of demolition debris and fill containing PCBs greater than 25 parts per million (ppm) and backfilling with clean fill (planned).
3. A description of a multi-layer capping system being proposed for installation to prevent exposure to remaining (underlying) PCB impacted fill.
4. A proposal to execute a deed covenant restricting certain land uses on the area of concern.
5. A verification sampling plan following soil removal (planned).

This risk-based cleanup application is consistent with the risk-based requirements of 761.61(c) with the exception that a modified characterization sampling approach was completed under Subpart N of the CFR (cleanup site characterization sampling). Justification for the modified characterization sampling is presented in Sections 3 and 4, respectively.

### 1.1 Background

The Maine Energy Recovery Company waste to energy (incinerator) facility was constructed on an 8.4 acre parcel of property in downtown Biddeford, Maine in 1984. The parcel is bounded by the Saco River on the east, Pan Am Railway to the north, Lincoln Street to the west and Pearl Street to the south. The facility consisted of several industrial and office buildings. In 2012, Maine Energy and the City of Biddeford reached an agreement to close the facility and enter into an agreement to allow the City to purchase the property.

According to a Phase I Environmental Site Assessment (ESA) completed on the property in 2012

> The earliest information for the Site was an 1885 Sanborn Fire Insurance map that indicated the Site and surrounding area had been heavily developed as a downtown area with mill buildings, other industrial buildings, and numerous small commercial buildings and dwellings. Primary uses of the area included foundry operations and machining, textile manufacturing, warehousing, and trucking or automotive services.

In the fall of 2012, a Phase I and Phase II Environmental Site Assessment was performed on behalf of the City of Biddeford at the Maine Energy facility. Site investigations documented PCB Aroclor 1260 as being present within demolition debris and fill along the eastern boundary of the property (area of concern) consistent with the location of a former boilerhouse. The Sanborn Fire Insurance Maps (Sanborn) from 1932 and 1947 and aerial photographs from between 1956 to 1975 depict the boilerhouse as being located on this parcel; however, the 1976 Sanborn Map and aerial photographs from 1986, 1990, 1998, and depict the parcel as vacant. See Appendix A for copies of these maps and aerial photographs. Maine Energy structures were not built on the area of concern and the property remains vacant with the exception of three electrical transmission poles that were installed to transfer electricity from the power generating facility located to the west of the area of concern to the electrical grid on

the opposite (east) side of the Saco River. These poles were subsequently cut off at ground surface as a portion of the demolition of the Maine Energy facility in late 2013.

Property to the north owned by the Boston & Maine Railroad (Pan Am) is an active elevated rail line (Amtrak Downeaster commuter) which has 5 round trip commuter trains per day seven days a week serving Boston. A retaining wall for the rail line is located on/near the boundary of the Maine Energy parcel and the Pan Am Right of Way (ROW) and is the northern boundary of the area of concern. Due to stability concerns for the retaining wall and rail line, a Geotechnical Evaluation of the retaining wall and rail line stability was performed. Results of the Geotechnical Evaluation indicate that excavations near the retaining wall should be minimized to avoid stability concerns. As such, the cleanup plan has incorporated measures to minimize excavation in the vicinity of the retaining wall, while achieving a cleanup that is protective of human health and the environment.

An evaluation of engineering options to support the retaining wall show that costs are extremely high, stability concerns cannot be completely eliminated and the reduction in risk by excavating additional PCB impacted fill at depth is minimal. Therefore, the cleanup plan proposes that PCB impacted fill at concentrations below 25 parts per million (ppm) be left on site, approximately 4 feet below grade, and covered with an enhanced capping system to eliminate exposure pathways and minimize risk associated with PCB impacted Fill remaining at the Site.

## 1.2 Application

This application is organized in the following sections:

**Section 2 – Remedial Approach and Objectives:** describes the general approach to remediation, occupancy levels, restrictions, cleanup goals, and corresponding risk levels.

**Section 3 – Sampling Approach and Characterization Data:** describes the various phases of soil sampling and analysis investigations conducted between 2012 and 2013.

**Section 4 – Soil Remediation Plan** describes the removal, off-site disposal, and verification sampling of soil from the areas containing PCBs greater than 25 ppm.

**Section 5 –Risk Analysis**: describes the risk evaluation to potential human receptors from contact with PCBs in fill beneath a proposed capping system.

**Section 6 –References**: lists the references used to support the application

Tables, figures, and appendices follow the text.

# 2.0 REMEDIAL APPROACH AND OBJECTIVES

The overall goal of the Maine Energy remediation project is to protect human health and the environment by remediating and managing PCB Aroclor 1260 impacted demolition debris and fill at the Maine Energy parcel. To achieve this goal, a proposed cleanup plan has been developed consistent with the Toxic Substances Control ACT (TSCA) and Maine Department of Environmental Protection (MEDEP) Voluntary Response Action Program (VRAP) standards.

## 2.1 Facility Boundaries and Ownership

The portion of the former Maine Energy property that this plan is designed to remediate is an approximately 0.45 acre parcel of land bound by the Pan Am Railroad property to the north, the Saco River to the south and east, and the remainder of the Maine Energy facility to the west. Maine Energy has owned the facility since construction commenced. After approximately 2 years of construction, the facility began operation in 1987. The City of Biddeford has purchased the parcel from Maine Energy, although Maine Energy will be responsible for implementing this cleanup plan.

## 2.2 Occupancy and Restrictions

The current reuse of this portion of the property is planned to be a public park with greater than 6.7 hours per week of access for Park Users, the defined period for "high occupancy" use under the PCB definitions (40 CFR 761.3). The remainder of the property is being considered for potential residential and commercial uses.

The City of Biddeford has agreed to execute an Environmental Deed Covenant under the Uniform Environmental Covenants Act (UECA) Maine Revised Statutes 38 MRSA 3001 to restrict land use to a park or similar public open space with conditions prohibiting the disturbance of subsurface soil and fill below 4 feet from ground surface. Both the property owner, City of Biddeford, current tenant Maine Energy, as well as the approving agency, Maine DEP, will be holders of the environmental covenant. The environmental covenant will be recorded at the York County Registry of Deeds.

## 2.3 PCB Waste Classification and Cleanup Levels

Demolition debris and fill that contains PCB 1260 is considered PCB remediation waste under 761.3. Accordingly, management and disposal of PCB remediation waste is based on the "as found" PCB concentration of individual samples collected in situ. Impacts appear to be associated with the former boilerhouse and therefore, the remediation of the Site is correlated with the location of this building. As referenced on Figure 4, impacts observed in analytical results are highest in the center and eastern portions of this former structure. Concentrations of PCBs decline rapidly outside of the building footprint and to the west. Areas 1, 2, and 3 as shown on Figure 5 contain the highest concentrations of PCBs and will be managed as hazardous (≥50 ppm) waste while Areas 4 and 5 contain lower concentrations of PCBs and will be managed as non-hazardous (<50 ppm) waste.

The proposed cleanup standard is a goal of a minimum removal of 4 feet of soil but additional excavation will be completed to obtain the cleanup goal of less than 25 ppm.

Proposed cleanup levels for PCB remediation waste according to location of the samples are listed below.

1. Areas 1 and 2–Based upon analytical results (summarized in Section 3.1), demolition debris and fill containing greater than 25 ppm in individual soil core samples will be

excavated as structurally feasible (summarized in Section 4.2.1.1) and replaced with clean fill and a cap system. The excavated soil will be managed as PCB remediation waste (note that analytical results for some samples from these areas reported PCB concentrations greater than 50 ppm) and be subject to disposal requirements under TSCA and disposed as hazardous waste at a facility licensed to accept this waste.

2. Area 3 – Based upon analytical results, demolition debris and fill containing greater than 50 ppm in individual soil core samples will be excavated to a depth of 4 feet below ground surface and removed as TSCA Remediation Waste and disposed as hazardous waste at a facility licensed to accept this waste. Once the fill has been removed, a protective cap as described in Section 4 will be installed in this area.
3. Areas 4 – Based upon analytical results, PCB impacted fill with concentration between 1 and 25 ppm are present. Fill will be excavated to a depth of 4 feet below grade and replaced with a protective cap as described in Section 4. The excavated soil will be managed as <50 ppm PCB waste and disposed at Juniper Ridge Landfill in Old Town, Maine.
4. Area 5 – Based upon analytical results, PCB impacted fill with concentration between 1 and 2.24 ppm are present. Fill will be excavated to a depth of 2 feet below grade (but will extend to 4 feet if the retaining wall footer elevation allows for it) and replaced with a protective cap as described in Section 4. The excavated soil will be managed as <50 ppm PCB waste and disposed at Juniper Ridge Landfill in Old Town, Maine.
5. Area 6 – Based upon analytical results, PCB impacted demolition debris and fill containing greater than 25 ppm in individual soil core samples will be excavated as structurally feasible and replaced with clean fill and a cap system. The excavated soil will be managed as PCB remediation waste and be subject to disposal requirements under TSCA and disposed as hazardous waste at a facility licensed to accept this waste.

   This area will be sloped away from the retaining wall with excavation beginning at ground surface and continuing to the top of the retaining wall footer then sloping at a ratio of 1 foot vertical to 1.5 feet horizontal (i.e. if the bottom of the footer were at 4 feet below ground surface, excavation would commence to 4 feet then slope to 5 feet at a distance of 1.5 feet and continue in the manner until 10 feet (or the 25 ppm remediation goal is reached).

# 3.0 SAMPLING APPROACH AND CHARACTERIZATION DATA

Sampling of fill and soil as bulk PCB remediation waste was designed to adequately characterize the vertical and horizontal extent of impact, acknowledging the physical features of the site (retaining walls, transmission poles), current and planned occupancy, and the presumed type of release. There is no known date or point of release; rather, the past presence of the boilerhouse and potential PCB-containing materials within the building are believed to have been released and distributed proximal to the former boilerhouse. The PCB that is found on the property, Aroclor 1260, is solid at room temperature and almost insoluble in water. As a result, the mobility of Aroclor 1260 in the environment is limited and typically would be associated with the physical transport or disturbance of soil particles to which it is bound. The target area for delineation and characterization of PCB impact was the area proximal to the former boilerhouse. Topography of the area is relatively flat with approximately four feet of topographic relief across the former boilerhouse area, sloping from west to east. Approximately half of the area of concern is asphalt paved (former trailer parking area) and the other half is grassy/meadow area. The area of concern is bounded on the north and east sides by retaining walls (concrete wall to the north toward the rail line and granite blocks to the east). The retaining walls extend 1-3 feet above grade and act as a physical barrier for movement or transport of soil/sediment beyond the retaining wall.

Materials observed in borings included loam, granular fill (sand and gravel), brick, concrete, coal ash/clinker, cobbles and boulders. Based on analytical results from multiple investigations conducted in 2012 and 2013, PCB concentrations were found to be variable throughout the demolition debris and fill matrix and not correlated to a specific depth or type of fill/debris. These data suggest that the PCB impacts were not associated with a discrete spill or release, but were likely distributed during demolition of the former boilerhouse.

Over 150 soil samples were collected from within and adjacent to the area of concern for laboratory analysis since October 2012. Soil sampling methods consisted of direct-push technology and standard penetration test technology. Soil core diameters ranged from 1.5 to 4 inches. Select samples were submitted to Absolute Resource Associates in Portsmouth, New Hampshire for sampling completed in October 2012 and January 2013 and to Analytics Environmental Laboratory in Portsmouth, New Hampshire for sampling completed in February 2013. All samples were submitted for laboratory analysis of total PCBs using EPA Method 8082 (soxhlet extraction). Sampling locations are shown on Figure 3.

It should be noted that the original Phase II ESA investigation of the parcel included the analysis of 69 samples using immunoassay test kits following USEPA Method 4020. These initial sample results were used as a screening tool to preliminarily assess the magnitude and extent of impacts.

## 3.1 Soil Sampling on Site

### 3.1.1 Phase II ESA – October 2012

On October 2nd and 3rd, 2012, Credere Associates, LLC (Credere) completed a Phase II Environmental Site Assessment (ESA) on the Maine Energy property on behalf of the City of Biddeford (City) in conformance with the ASTM International (ASTM) E1903-11 Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process.

This Phase II ESA assessed environmental media at the Site to confirm or dismiss thirteen (13) recognized environmental conditions (RECs) identified during a Phase I ESA (dated September 18, 2012) that was completed by Credere.

A summary of the work tasks completed during the Phase II ESA are included below:

1. A Site specific Health and Safety Plan (HASP) was developed for investigatory personnel.
2. The investigation locations were approved by Maine Energy and pre-marked by Credere. The Site was cleared for underground utilities by DigSafe, and each individual soil boring location was pre-cleared by DigSmart of Maine using electronic locating equipment and ground penetrating radar (GPR).
3. Fifteen (15) soil borings were advanced throughout the Site to facilitate the collection of soil samples for visual logging, field screening, and laboratory analysis.
4. Six (6) of the soil borings were completed as groundwater monitoring wells and ground water samples were collected for laboratory analysis. Note that up to nine (9) wells were proposed to be installed at the Site, but a saturated zone in the overburden soil was not observed in some areas due to shallow bedrock. Each monitoring well was subsequently surveyed to allow for the calculation of approximate groundwater flow directions at the Site.
5. Five (5) surficial soil samples were collected from the eastern portion of the Site where ash was observed at the ground surface.
6. Five (5) concrete floor samples were collected from within the Site building(s) for laboratory analysis.
7. One (1) sample was collected from the interior brick lining of Maine Energy's exhaust stack for laboratory analysis.

The Phase II investigation included the collection of seventeen soil samples for analysis of Polychlorinated Biphenyls (PCBs). Of the seventeen samples collected, 15 reported PCBs as Not Detected (ND), two samples reported PCB concentrations above the laboratory detection limit but only one sample, CA-SB-5, reported PCB concentrations above the US EPA TSCA unit's notification limit of 1 part per million (ppm). Sample CA-SB-5 was collected from a boring located in the area of the former boilerhouse.

Analytical results of Sample CA-SS-4 reported PCB concentrations above the laboratory detection limit (0.04 ppm), but below the TSCA notification limit of 1 ppm. CA-SS-4 was collected near a 20,000 gallon underground storage tank (UST) along the northern boundary of the property. Additional surface soil samples (CA-SS-1, CA-SS-2, CA-SS-3, and CA-SS-5) were collected at locations across the eastern portion of the property and were reported as non-detect for PCBs.

Based upon Phase II analytical results, Credere recommended a supplemental Phase II ESA to further investigate the potential for PCB impacts on the eastern portion of the property. See Figure 2 for a copy of the Phase II ESA site plan showing sampling locations and Table 1 for analytical results for PCB samples collected during the Phase II ESA.

### 3.1.2 Supplemental Phase II ESA – October 2012

Following receipt and interpretation of analytical data from the Phase II ESA, a supplemental Phase II ESA was completed by Credere on October 25, 2012. The Supplemental Phase II ESA included the advancement of 19 borings in the area of the former boilerhouse. Soil samples were collected from each boring and screened for PCBs by Cape Technologies of South Portland, Maine using Immunoassay test kits. Four samples analyzed by Cape Technologies

were split and submitted to Absolute Resource Associates (Absolute) of Portsmouth, New Hampshire for analysis of PCBs using soxhlet extraction by US EPA Method 8082. Results of two of the four samples analyzed by Absolute reported PCB concentrations above the 1 ppm TSCA notification limit and were generally consistent with the immunoassay test kit results. The Immunoassay testing methodology utilized by Cape Technologies is considered a screening methodology by EPA, and is not appropriate for use in developing a soil removal Work Plan without extensive verification and validation testing to demonstrate the precision of the methodology. Nonetheless, the investigation completed by Credere suggested that PCBs were present in fill near the former Boiler House. See Figure 3 for locations of the investigation, Table 2 for immunoassay test results, and Table 3 for analytical results collected for correlation with immunoassay results.

### 3.1.3 Characterization Investigation – January 2013

Based on the Phase II ESA investigations, Summit completed a characterization and delineation investigation in January 2013 to collect additional samples for analysis of PCB in the area of concern. Summit advanced twelve soil borings (SE-SB-201 through SE-SB-212) between monitoring well CA-MW-10 and the section of pavement where trailers were formerly parked. See Figure 4 for a boring location map.

Summit collected soil samples from visually distinctive intervals and submitted them to Absolute for analysis of PCBs by EPA Method 8082 using soxhlet extraction. Analytical results reported PCB concentrations ranging from Non-Detect ND (i.e., less 0.03 ppm) to 3,500 ppm. PCB impacts were generally associated with demolition debris, but not necessarily with specific depth or type of debris (i.e., brick concrete, granular soil, ash). This round of sampling narrowed the extent of impacts. See Table 4 for analytical results.

### 3.1.4 Supplemental Characterization Investigation – February 2013

Summit discussed the October 2012 and January 2013 results with you on January 15, 2013 to ascertain the next steps that should be taken to collect additional data prior to completion of this application. Based on this discussion, a horizontal grid of 20 feet by 20 feet and soil samples collected every two feet vertically was considered to be appropriate. On February 19$^{th}$ and 20$^{th}$, 2013 Summit advanced twenty-four (24) additional soil borings (SE-SB-213 through SE-SB-236) and sampled these soil borings from each vertical 2 foot interval for PCBs. Soil borings were advanced to refusal or native soil. Materials observed in these borings were loam, sand and gravel fill, brick, concrete, ash, and silty-clay (native). Soil samples were submitted to Analytics for analysis of PCBs by EPA Method 8082 using soxhlet extraction. Analytical results reported PCB concentrations ranging from ND to 9,660 ppm. PCB impacts could not be associated with a specific material or soil interval, however, impacts are generally coincident with the footprint of the former Boiler House. See Table 5 for analytical results.

## 3.2 Characterization Summary

Demolition debris and fill in the vicinity of the former boilerhouse was sampled at over 50 locations using a combination of screening methodology, focused sampling (e.g. specific materials within and outside of the former boilerhouse footprint) and systematic sampling (e.g. horizontal and vertical grid coordinates). Sampling was conducted over several iterative investigations between October 2012 and February 2013. The results from all sampling assessments reveal the following patterns:

- The highest concentrations are found in the soils located within the footprint of the former boilerhouse;
- PCB concentrations rapidly decrease with depth and distance from the former boilerhouse.
- Concentrations of PCBs in the area of concern range from non-detect to 9,600 ppm; 21 samples out of 152 total samples exceed 50 ppm and 26 samples out of the 152 samples exceed 25 ppm.

The distribution pattern and concentrations of PCBs are consistent with the presence of PCB impacts associated with the boilerhouse and subsequent redistribution resulting from disturbance and/or demolition of the boilerhouse.

# 4.0 SOIL REMEDIATION PLAN

The proposed soil Remediation Plan consists of removing approximately 1,1,082 cubic yards (1,1,623 Tons) of demolition debris and fill with PCB concentrations greater than 50 ppm. Management and disposal of this excavated material will be as described in section 4.2.3 below. The excavated volume includes all fill characterized as potentially having PCB concentrations greater than 50 ppm. The area of fill containing concentrations greater than 50 ppm is delineated on Figure 5.

Following excavation of PCB impacted fill with concentrations greater than 50 ppm, fill from 0-4 feet below grade will be excavated and disposed off-site as described in Section 4.2.4. It is estimated that approximately 1,000 cubic yards (1,500 Tons) will be removed from the area delineated on Figure 5. PCB concentrations range from ND to less than 15.8 ppm within this excavation area. Due to the variability of PCB concentrations additional segregation of the fill (i.e., some areas may be less than 1 ppm) cannot feasibly be completed. Therefore, a uniform 4 feet will be removed and an enhanced cap system will be installed. The depth of 4 feet below grade was selected based on the following factors:

- A geotechnical evaluation indicated that deeper excavations pose a stability concern for the abutting retaining wall to the north. This wall supports an active rail line (Downeaster Amtrak commuter line).
- A four foot thick enhanced capping system will eliminate a direct contact exposure route for remaining underlying PCB impacted fill. Note that PCB concentrations in fill below the capping system range from ND to less than 25 ppm.
- An Environmental Deed Covenant will be recorded to establish Institutional Control for the cleanup area. The Deed Covenant will restrict land use and activities within the cleanup area such that remaining PCB impacts will not pose a risk to human health or the environment. The covenant will also include long-term maintenance requirements to maintain the integrity of the capping system.
- Four feet is considered well beyond the depth of typical disturbance associated with a park setting (benches, lawn maintenance, shrub and tree planting, walkway construction, etc.), thereby being protective of exposure due to inadvertent activity, even if restricted by Covenant.
- The cost to design and implement an engineering control to stabilize the retaining wall is prohibitive [timber lag system drilled into bedrock and braced]. Remediation cost is estimated to triple in order to excavate an additional 4-8 feet of demolition debris and fill impacted with PCB concentrations less than 25 ppm. See Section 4.2.1.1 below.
- Any Engineered Stabilization Plan would need the approval of Pan Am Railways and Amtrak. This process is unlikely to allow timely implementation of a Remediation Plan.

## 4.1 Soil Excavation

Based on the results of characterization sampling completed within this area, PCB impacted materials appear to have been reworked and distributed within the foundation of the former boilerhouse. Impacted materials are present within this area at differing depths but appear to be consistent with demolition debris or fill associated with the former boilerhouse.

## 4.2 Field Procedures

Plans and specs for the soil removal will be prepared and used to select contractors prior to initiating work. All work will be conducted in accordance with a site-specific health and safety

plan (HASP). The following sections describe the general work elements of the soil removal action.

### 4.2.1 Excavation

Each excavation area will be marked in advance and cleared for utilities. Excavation will be performed by mechanical means. The dimensions and expected removal volumes based upon removal of soil containing levels of PCBs greater than 25 ppm are listed on Figure 5. The total volume removed is anticipated to be approximately 2,082 cubic yards or roughly 3,123 tons.

Due to structural considerations with the railroad retaining wall (See Figure 4), the excavation of all PCB-impacted material is not cost effective. The excavation may additionally be limited by groundwater (observed between 11 and 14 feet below ground surface).

#### 4.2.1.1 Geotechnical Analysis

Summit Geotechnical Services (SGS) completed a geotechnical evaluation of the concrete retaining wall which supports the elevated rail line. The geotechnical recommendations for remediation excavation slopes, dewatering, and potential debris removal are provided as follows:

***Concrete Retaining Wall***

Portions of excavations are anticipated adjacent to retaining wall structures (gravity walls). Excavations are planned down slope of a concrete retaining wall 13 feet in height located along the northern portion of the site retaining soils located beneath the Pan Am Railroad. The railroad line is located approximately 25 to 45 feet north of the retaining wall.

Exact depth and dimension of the concrete retaining wall footings are not known. Hand probes performed adjacent to the retaining wall suggest a consistent refusal depth of 1 to 1.5 feet below existing grade and may represent the location for the top of retaining wall footing. For excavation stability and to prevent undermining of the retaining wall footing, SGS recommends a minimum excavation slope of 1.5 horizontal to 1 vertical be maintained extending from the toe/base of the footing. Alternatively braced excavations such as underpinning and shoring will be required. Maximum excavation depth within the area of concern should be limited to a maximum depth of 10 feet below existing top of grade and less than 6 feet below the base of footing elevation. Excavation adjacent to the retaining wall should be performed using staged excavations with a maximum length of exposed wall limited to 15 feet or less.

Due to the presence of rubble debris including brick, concrete, and ash it is recommended that remediation excavations adjacent to the retaining walls be inspected by the geotechnical engineer to verify subgrade is in conformance with design parameters and stable to support excavation slopes of 1.5 horizontal to 1 vertical. Using the provided topographic information available, boring exploration data, and measurements obtained during our site visit we estimate the following factors of safety for remediation excavation adjacent to the concrete retaining wall:

Global Slope Stability (Slide 5.0, Bishop Simplified), FS = 1.3
Lateral Base Sliding (Estimated footing width of 7 feet), FS = 1.5
Overturning (Estimated footing width of 7 feet), FS = 1.5
Bearing Capacity (Maximum slope cut of 1.5H to 1V), FS = 3

### *Excavation Slopes*

The subgrade is classified as type C soil in conformance with Occupational Safety and Health Administration (OHSA) excavation guidelines. Excavations should be limited to a maximum side slope of 1.5 horizontal to 1 vertical to a maximum depth of 10 feet. Excavations with a depth greater than its width and a width less than 15 feet are considered trench excavations by OHSA and require conformance to applicable OHSA trench excavations standards. Where excavations are performed below a depth of 4 feet with widths less than 15 feet, OHSA trench standards may apply requiring the use of a trench box or similar excavation support system. Excavations adjacent to the concrete retaining wall should be limited to a length of wall exposure of 15 feet or less.

Where excavation is performed adjacent to existing structures, a series of monitoring points including settlement monitoring points (SMP) and deflection monitoring points (DMP) should be considered to monitor potential movements. Suggested locations for monitoring points include the concrete retaining wall and granite block retaining wall where extended time of open excavation (greater than 24 hours) is anticipated.

The SMP and DMP should be installed and monitored by a Maine Licensed Surveyor or qualified personnel using sufficiently accurate survey equipment. All SMP and DMP should be clearly marked for easy identification. Monitoring points may consist of nails and screws, reinforcing bars, or similar materials with well-defined measurement points. Where available observable cross marks on the top of horizontal structures may also be used. The surface within 3 inches of the point should be cleaned and/or marked to permit easy identification. The monitoring points to measure the elevations of the DMP and SMP should be recorded to 0.01 ft for position of DMP and the horizontal position of SMP measured to 0.1 foot. See Figure 7 for an Excavation Plan from SGS.

### *Excavation Dewatering*

SGS recommends surface drainage be diverted from open excavations to prevent the collection of water during wet periods such as rain or snowmelt. Temporary surface diversions such as ditching, sloping, sand bags or other suitable method to adequately prevent surface flow from entering excavations should be employed prior to excavation.

Excavation below the water table will be avoided when possible to prevent additional water in the excavation which could pose additional structural concerns.

### *Granite-Block and/or Concrete Removal*

In summary, the anticipated soils to be excavated include granular sand-gravel-silt containing occasional to frequent cobbles and concrete debris (former foundations). Boulders or granite-blocks with larger diameters are possible based on site observations and variation of boring refusals depths.

If large boulders are unable to be removed using large tracked excavators, boulders could be broken up using a hoe ram and then removed using a large excavator. Alternatively, splitting boulders with drilling and chemical splitting methods could be considered. Controlled blasting is not permitted for this project due to the close proximity to existing utilities and foundation structures. Use of a hoe ram or other methods should be performed in conformance to project environmental plans and procedures.

### 4.2.2 Handling and Interim Storage of PCB Remediation Waste

Interim storage areas will be marked as required by 761.40 and 761.65(c)(9), respectively. Any special requirements for the handling and storage of PCB remediation waste will be determined prior to initiating soil excavation activities. Polyethylene sheeting will be used to protect the ground surface at areas where the material requires temporary storage. The polyethylene sheeting will also be placed over the stockpiled material to serve as a cover system to protect the waste during non-work hours. The storage area will clearly be marked in the field with signs indicating "PCB Remediation Waste". Where practicable, the excavated soil and debris will be directly loaded into waste hauling trucks or roll-off boxes for immediate removal from the site.

### 4.2.3 Disposal of PCB Remediation Waste – Greater than or equal to 50 ppm

Where practicable (i.e. without requiring stabilization of retaining walls or creating safety concerns for site workers), remediation waste ≥50 ppm will be excavated and removed from the area. All TSCA waste streams with PCB concentrations ≥50 ppm will be transported by licensed hazardous waste haulers and disposed of at Waste Management's Model City facility in Model City, New York (or other similarly licensed facility based upon ability to accept materials at the time of shipment). The appropriate TSCA notification of generation of PCB remediation waste will be filed with EPA, as required.

### 4.2.4 Disposal of PCB Remediation Waste – Less than 50 ppm

TSCA PCB remediation waste with concentrations less than 50 ppm will be transported by licensed waste haulers to the Juniper Ridge Landfill in Old Town, Maine. Documentation of disposal, in the form of weigh slips, will be maintained with all other documentation for this cleanup.

## 4.3 Verification Sampling and Analysis

Following the removal of fill and debris from the excavation area, verification samples will be collected. A diagram showing the proposed sampling areas and excavation area is illustrated on Figure 5.

The Excavation Area will be divided into six separate excavation and sampling areas, designated as Areas 1, 2, 3, 4, 5, and 6 as shown. Areas 1, 2, 3, 4, 5, and 6 will be further subdivided to create 20′ x 20′ sampling areas.

Each discrete 20 X 20 feet area will be sampled independently for cleanup verification purposes.

Area 1: 786 square feet (>50 ppm) [12 samples from base of the grids and 28 samples from sidewalls]

Area 2: 1,858 square feet (>50 ppm) [26 samples from base of the grids and 68 samples from sidewalls]

Area 3: 190 square feet (top 4′ >50 ppm) [3 samples from base of the grid (no sidewalls within this grids)]

Area 4: 6,703 square feet (top 4′ <50 ppm) [57 samples from base of the grids and 47 samples from sidewalls]

Area 5: 385 square feet (top 2′ <50 ppm) [4 samples from base of the grids and 9 samples from sidewalls]

Area 6: 340 square feet (removal from 1-9' based on geotechnical recommendations >50 ppm) [4 samples from base of the grids and 2 samples from sidewalls]

The following sample procedures will be conducted:

- Collect three individual samples from the base of each excavation sub-area;
- If a grid has a sidewall, the sidewalls will be sampled in accordance with Subpart O (i.e. 1 sample per 25 $feet^2$;
- Use coordinate-based random sampling to select the sampling locations of the three samples from each excavation sub-area;
- Use a core sampler with a diameter ≥2 cm and ≤3 cm; and
- Collect samples from the base of the excavation to a maximum depth of 7.5 cm.

All verification samples will be submitted to a certified laboratory for analysis of total PCBs using soxhlet extraction. Quality assurance/quality control (QA/QC) samples will be collected at a rate of one per twenty samples.

To demonstrate compliance with the target cleanup level of 25 ppm, all individual sample results from the verification samples collected from the base/sidewall of the excavation must be equal to or less than 25 ppm.

If specific sub areas within the excavation zones indicate PCB levels greater than the target cleanup level of 25 ppm, we are prepared to complete additional soil excavation and disposal and verification sampling if practicable (i.e., if there are no structural concerns related to the railroad or retaining walls, groundwater entering the excavation and creating a potentially hazardous situation for site workers).

### 4.4 Backfill and Site Restoration

Following receipt of acceptable (≤25 ppm total PCB) post-excavation verification sample results, the excavations will be backfilled and restored with an In-Situ Cap System. This cap system is to be constructed over remaining PCB impacted material to prevent human exposure, manage infiltration of water, and minimize erosion of soil.

Prior to construction of cap system, a borrow source characterization will be conducted to document that proposed barrier soil meets the requirements set forth in 40 CFR §761.75(b)(1)(ii) through (b)(1)(v), and to determine acceptable construction methods capable of attaining in-place permeability requirements. Understanding that PCB concentrations remaining at the Site may be up to 25 ppm, an enhanced capping system is being proposed that is significantly more protective than required by EPA's PCB remediation rules.

Twelve inches of barrier soil will be placed from 3-4 feet below grade over remaining impacted soil. A 40-mil textured high density polyethylene (HDPE) geomembrane liner will overly the barrier soil layer and be installed in accordance with manufacturers recommendations by an experienced installer. A drainage geocomposite layer comprised of bi-planar HDPE netting sandwiched between non-woven geotextile filter fabric will overlay the geomembrane. Geocomposite will extend over the limit of the cap and be installed according to manufacturer's recommendations by an experienced installer. In addition to transmitting surface water over the cap system, the HDPE netting and geotextile fabric provides a protective layer over the geombrane.

A 12 inch thick compacted sand drainage layer shall be placed over the installed geocomposite. A crushed stone underdrain will be installed at the eastern limit of the cap system and extend along the existing granite retaining wall adjacent to the Saco River to allow surface water to drain off of the cap system.

After the installation of drainage sand layer and stone underdrain, a marker layer (orange site safety fence) is to be installed at a depth of 2 feet below the ground surface to alert persons of the presence of underlying materials that should not be disturbed. An 18 inch thick layer of granular borrow is to be placed and compacted over the marker layer.

The surface of compacted granular borrow is to be scarified to a depth of 2 inches prior to placement of 6 inches of loam then seeded, and mulched.

### 4.5 Post-Construction Activities

A post-construction report will be prepared following remediation to document the completed field activities, present the verification sampling data, and provide copies of the waste manifests executed for the transportation and disposal of the waste. All reports will be maintained on file at the owner's property and at City Hall, in accordance with the record-keeping requirements of Subpart J of 40 CFR 761. Copies of such records will be made available to the EPA, upon request.

Land use in the cleanup area and an abutting 25 feet buffer will be subject to restrictions contained in a deed notice and environmental covenant. Execution of the environmental covenant will be completed within 60-days of the agencies' "certificate of completion" or equivalent. Recordation of the Deed Covenant as well as other Institutional controls (non-PCB related) will be documented in the MEDEP VRAP.

## 5.0 RISK ANALYSIS

Currently, the area of concern is undeveloped. The ground surface consists of asphalt paving and grass/meadow. Due to the industrial use of the property since construction of the waste to energy facility, public access to the area of concern has been prohibited. As a result, exposure scenarios are limited and individuals would spend only limited time in the area, well below the hourly threshold for "low occupancy" use.

However, the property has been purchased by the City of Biddeford, the facility is being decommissioned and future plans for the area of concern call for a park setting. Given this change of use, the current distribution of PCB impacts will pose an unacceptable exposure risk.

PCB concentrations in the 0-2 feet below grade interval range up to 631 ppm. The 0-2 feet below grade interval is considered a Direct Contact interval where workers involved in constructing the park, as well as future park users could come into direct contact with PCB impacted fill. The park setting is considered to be a "high occupancy" setting and exposure to PCB concentrations above 1 ppm are considered to pose an unacceptable risk.

In addition, there are no restrictions for use of the property and land use changes could result in further disturbance, redistribution of impacted fill and exposure scenarios that would potentially increase risk to construction workers, future occupants and the environment.

The proposed Remediation Plan includes a tiered risk reduction approach that is protective of human health and the environment and includes the following risk reduction measures:

1) Removal of fill materials containing greater than 25 ppm from the area of concern to a depth of 4 feet, well below the Direct contact interval.
2) Installing an enhanced capping system that extends from 4 feet below grade to ground surface. Cap materials include barrier soils, geomembrane liners, geocomposite and drainage layers, a marker layer and 2 feet of clean fill and loam to prevent exposure to PCB impacted fill.
3) Execution of a Deed Covenant to restrict land use and prohibit activities that could result in disturbance of fill below the cap system. Prior to any ground disturbance within the limits of the cap, the City Environmental Office will be contacted to obtain authorization.
4) Development of a long-term maintenance program to inspect the area, maintain the integrity of the capping system and provide awareness training to City personnel responsible for activities in the park.

In combination, these measures will result in an elimination of exposure pathways through physical barriers and Institutional Controls. Long-term maintenance plans will include an awareness and communication program to reinforce the restrictions and ensure protection of human health and the environment.

## 6.0 REFERENCES

Credere Associates, LLC (Credere). September 18, 2012. "Phase I Environmental Site Assessment, Maine Energy Recovery Company Property, 3-11 Lincoln Street, Biddeford, Maine."

Credere. October 25, 2012. "Phase II Environmental Site Assessment, Maine Energy Recovery Company Property, 3-11 Lincoln Street, Biddeford, Maine.".

Credere. November 15, 2012. "Supplemental Phase II Environmental Site Assessment, Maine Energy Recovery Company Property, 3-11 Lincoln Street, Biddeford, Maine."

Credere. November 5, 2012. "Draft Voluntary Response Action Program Work Plan."

EDR. 2012. "Sanborn Fire Insurance Maps, 1867-1976 Maine" Sanborn . 1932, 1947, 1976.

EDR. 2012. "1956, 1960, 1970, 1975, 1986, 1990, 1998, 2003 Aerial Photographs.

**CERTIFICATION**

The undersigned owner of the property where the cleanup site is located and the party conducting the cleanup certify that all sampling plans, sampling collection procedures, extraction procedures and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination at the cleanup site are on file at the location indicated below and are available for EPA inspection, as set forth below:

Document Location

City of Biddeford
205 Main Street
Biddeford, Maine 04005

**Property Owner – City of Biddeford, Maine**

John D Bubier, 4/16/2014

Authorized Signature Date

John D Bubier

Name of Authorized representative (print)

City Manager

Title

**Party Conducting the Cleanup – Maine Energy**

4/16/14

Authorized Signature Date

Brian Oliver

Name of Authorized representative (print)

Vice President

Title

**Maine Energy PCB Investigation - Table 1**

October 2012 Phase II ESA

| LOCATION | CA-SB-3 | CA-SB-5 | CA-SB-6 | CA-SB-6 | CA-SB-7 | CA-SB-8 | CA-SB-8 | CA-SB-9 | CA-SB-10 | CA-SB-11 | CA-SB-12 | CA-SB-13 | TSCA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | 10/2/12 | 10/3/12 | 10/3/12 | 10/3/12 | 10/2/12 | 10/3/12 | 10/3/12 | 10/2/12 | 10/3/12 | 10/3/12 | 10/2/12 | 10/2/12 | |
| DEPTH | 10-12.5' | 5-10' | 0-5' | 12.5-15' | 7.5-10' | 0-2.5' | 5-10' | 0-4' | 10-15' | 10-15' | 15-18' | 10-12' | |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | |
| PCB - 1016 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1221 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1232 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1242 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1 |
| PCB - 1248 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1254 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1260 | ND | **250** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| **TOTAL PCBs:** | ND | **250** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1 |

| LOCATION | CA-SS-1 | CA-SS-2 | CA-SS-3 | CA-SS-4 | CA-SS-5 | TSCA |
|---|---|---|---|---|---|---|
| DATE | 10/3/12 | 10/3/12 | 10/3/12 | 10/3/12 | 10/3/12 | |
| DEPTH | 0-6" | 0-6" | 0-6" | 0-6" | 0-6" | |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | |
| PCB - 1016 | ND | ND | ND | ND | ND | |
| PCB - 1221 | ND | ND | ND | ND | ND | |
| PCB - 1232 | ND | ND | ND | ND | ND | |
| PCB - 1242 | ND | ND | ND | ND | ND | 1 |
| PCB - 1248 | ND | ND | ND | ND | ND | |
| PCB - 1254 | ND | ND | ND | ND | ND | |
| PCB - 1260 | ND | ND | ND | 0.750 | ND | |
| **TOTAL PCBs:** | ND | ND | ND | 0.750 | ND | 1 |

**Table Notes:**

ND = Value is below method detection limits

mg/kg = milligrams per kilogram, or parts per million

TSCA = USEPA Toxic Substance Control Act

**Table 2**

**PCB SAMPLE RESULTS**

**Maine Energy Recovery Company Property**

**3-11 Lincoln Street, Biddeford, Maine**

| Lab Sample # | Boring # (CA-SB-xx) | Sample Depth | Method 4020 Semiquantitative Result <1 | ~1 | 1 to 10 | ~10 | 10 to 50 | ~50 | >50 | 4020 batch # | QA Samples soil spikes at x ppm 0 | 1 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5R | 0-6" | | | x | | | | | 1 | <1 | 1-10 | 1-10 |
| 2 | 5R | 6"-2.5' | | | | | x | | | 1 | | | |
| 3 | 5R | 2.5-5' | | | | | x | | | 1 | | | |
| 4 | 105 | 0-6" | | | | r | x | | | 1 | | | |
| 5 | 105 | 6"-3' | x r | | | | | | | 1 | | | |
| 6 | 111 | 0-6" | | | x | | | | | 1 | | | |
| 7 | 111 | 6"-2.5' | | | | | x r | | | 1 | | | |
| 8 | 111 | 2.5-5' | | | | | | IV | | 1 | | | |
| 9 | 111 | 5-7.5' | | | | | x r | | | 1 | | | |
| 10 | 111 | 7.5-10' | x | | | | | | | 1 | | | |
| 11 | 110 | 0-6" | | | | | x r | | | 1 | | | |
| 12 | 110 | 5-7.5' | | | x | | | | | 1 | | | |
| 13 | 110 | 7.5-10' | x | | | | | | | 2 | <1 | ~1 | 1-10 |
| 14 | 113 | 0-6" | | | x | | | | | 2 | | | |
| 15 | 113 | 6"-2.5' | | | x | | | | | 2 | | | |
| 16 | 113 | 2.5-5' | | | r | x | | | | 2 | | | |
| 17 | 113 | 5-7.5' | | | x | | | | | 2 | | | |
| 18 | 113 | 7.5-10' | x | | | | | | | 2 | | | |
| 19 | 103 | 0-6" | | | x | | | | | 2 | | | |
| 20 | 103 | 6"-2.5' | | | | x | | | | 2 | | | |
| 21 | 103 | 2.5-5' | | | x | | | | | 2 | | | |
| 22 | 103 | 5-7.5' | x | | | | | | | 2 | | | |
| 23 | 103 | 7.5-10' | x | | | | | | | 2 | | | |
| 24 | 114 | 0-6" | | | | r | x | | | 2 | | | |
| 25 | 114 | 6"-2.5' | x | | | | | | | 3 | <1 | 1-10 | 1-10 |
| 26 | 114 | 2.5-5' | x r | | | | | | | 3 | | | |
| 27 | 114 | 5-7.5' | | | x | | | | | 3 | | | |
| 28 | 114 | 7.5-10' | x | | | | | | | 3 | | | |
| 29 | 106 | 0-6" | | | | | | | x x | 3 | | | |
| 30 | 106 | 6"-2.5' | | x | | | | | | 3 | | | |
| 31 | 106 | 2.5-5' | x | | | | | | | 3 | | | |
| 32 | 106 | 5-6' | | | x | | | | | 3 | | | |
| 33 | 112 | 0-6" | | | x | | | | | 3 | | | |
| 34 | 112 | 6"-2' | | | IV | | | | | 3 | | | |
| 35 | 100 | 0-6" | | | x | | | | | 4 | <1 | 1-10 | 1-10 |
| 36 | 100 | 6"-2.5' | | | | x | | | | 4 | | | |
| 37 | 100 | 2.5-5' | | | x | | | | | 4 | | | |
| 38 | 100 | 5-7.5' | | | | | x x | | | 4 | | | |
| 39 | 100 | 7.5-10' | | | x | | | | | 4 | | | |
| 40 | 101 | 0-6" | | | | | | x | x | 4 | | | |
| 41 | 101 | 6"-5' | | | x | | | | | 4 | | | |
| 42 | 101 | 5-10' | | | x x | | | | | 4 | | | |
| 43 | 102 | 0-6" | | | x | | | | | 4 | | | |
| 44 | 102 | 6"-2.5' | | | | | | | x r | 4 | | | |
| 45 | 102 | 2.5-5' | | | | | | | x | 4 | | | |
| 46 | 104 | 0-6" | | | x x | | | | | 4 | | | |
| 47 | 104 | 5-7.5' | | | x | | | | | 5 | <1 | 1-10 | 1-10 |
| 48 | 104 | 7.5-10' | | | x | | | | | 5 | | | |
| 49 | 107 | 0-6" | | | | | r | x x | | 5 | | | |
| 50 | 107 | 6"-2.5' | x | | | | | | | 5 | | | |
| 51 | 107 | 2.5-5' | | x | | | | | | 5 | | | |
| 52 | 107 | 5-7.5' | | | x | | | | | 5 | | | |
| 53 | 107 | 7.5-10' | | | x x | | | | | 5 | | | |
| 54 | 108 | 0-6" | | | | x x | | | | 5 | | | |
| 55 | 108 | 6"-2.5' | | | x | | | | | 5 | | | |
| 56 | 108 | 2.5-3' | | | x x | | | | | 5 | | | |
| 57 | 109 | 0-6" | | | x | | | | | 5 | | | |
| 58 | 109 | 6"-2.5' | | | x | | | | | 5 | | | |
| 59 | 109 | 2.5-5' | x x | | | | | | | 6 | <1 | 1-10 | 1-10 |
| 60 | 109 | 5-7.5' | | | x | | | | | 6 | | | |
| 61 | 109 | 7.5-10' | | x | | | | | | 6 | | | |
| 62 | 115 | 0-6" | | | | x | | | | 6 | | | |
| 63 | 115 | 6"-2.5' | x x | | | | | | | 6 | | | |
| 64 | 116 | 0-6" | x x | | | | | | | 6 | | | |
| 65 | 116 | 6"-3' | | | | x x | | | | 6 | | | |
| 66 | 116 | 2.5-5' | | | | | x | | | 6 | | | |
| 67 | 116 | 5-7.5' | | | | x | | | | 6 | | | |
| 68 | 116 | 7.5-10' | x | | x | | | | | 6 | | | |
| 69 | 117 | 0-6" | | | x | | | | | 6 | | | |

Notes

This results table was provided by CAPE Technologies and the data has not been altered

Analysis completed by CAPE Technologies on November 9, 2012

All reported results on this table were analyzed via EPA Method 4020

Each batch included a zero plus calibrators at 1, 10, and 50 ppm

Results are given as the semiquantitative result relative to the calibrators in that batch

XX - Replicates (parallel subsample in same batch) are shown as two "x" marks on one sample line

R - Repeat analyses (later analysis of 2nd aliqout of extract) are shown as an "r"on the same line as the original ("x")

QA samples consisting of soils spiked as noted were extracted and an aliquot of each extract was analyzed in each batch

IV - Samples 8 & 34 (ital. & underlined) were cloudy due to high levels of coextracted hydrocarbons and results should be considered invalid

**Maine Energy PCB Investigation - Table 3**

October 2012 Supplemental Phase II ESA

| LOCATION | CA-SB-110 | CA-SB-111 | CA-SB-111 | CA-SB-111 | TSCA |
|---|---|---|---|---|---|
| DATE | 10/25/12 | 10/25/12 | 10/25/12 | 10/25/12 | |
| DEPTH | 7.5-10' | 2.5-5' | 5-7.5' | 7.5-10' | |
| | mg/kg | mg/kg | mg/kg | mg/kg | |
| PCB - 1016 | ND | ND | ND | ND | |
| PCB - 1221 | ND | ND | ND | ND | |
| PCB - 1232 | ND | ND | ND | ND | |
| PCB - 1242 | ND | ND | ND | ND | 1 |
| PCB - 1248 | ND | ND | ND | ND | |
| PCB - 1254 | ND | ND | ND | ND | |
| PCB - 1260 | ND | **6300** | **55** | 0.05 | |
| **TOTAL PCBs:** | ND | **6300** | **55** | 0.05 | 1 |

**Table Notes:**

ND = Value is below method detection limits

mg/kg = milligrams per kilogram, or parts per million

TSCA = USEPA Toxic Substance Control Act

**Maine Energy PCB Investigation - Table 4**

January 2013 Results

| LOCATION | SE-SB-206 | SE-SB-206 | SE-SB-207 | SE-SB-207 | SE-B-207 | SE-SB-208 | SE-SB-208 | SE-SB-208 | SE-SB-208 | SE-SB-209 | SE-SB-209 | SE-SB-209 | TSCA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | 1/10/13 | 1/10/13 | 1/10/13 | 1/10/13 | 1/10/13 | 1/10/13 | 1/10/13 | 1/10/13 | 1/10/13 | 1/10/13 | 1/10/13 | 1/10/13 | |
| DEPTH | 3"-2' | 2-12' | 3"-3' | 3-4.5' | 5-6' | 3"-4' | 4-6' | 6-8' | 8-10'* | 2"-3' | 3-9' | 9-12.5' | |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | |
| PCB - 1016 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1221 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1232 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1242 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1 |
| PCB - 1248 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1254 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1260 | **1.7** | 0.31 | ND | **6.3** | **2.30** | ND | **2.5** | **5.0** | **25.0** | ND | **3500** | 0.13 | |
| **TOTAL PCBs:** | **1.7** | 0.31 | ND | **6.3** | **2.30** | ND | **2.5** | **5.0** | **25.0** | ND | **3500** | 0.13 | 1 |

| LOCATION | SE-SB-212 | SE-SB-201 | SE-SB-201 | SE-SB-202 | SE-SB-202 | SE-SB-203 | SE-SB-203 | SE-SB-203 | SE-SB-204 | SE-SB-204 | SE-SB-205 | TSCA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | 1/10/13 | 1/10/13 | 1/10/13 | 1/10/13 | 1/10/13 | 1/10/13 | 1/10/13 | 1/10/13 | 1/10/13 | 1/10/13 | 1/10/2013 | |
| DEPTH | 2-20" | 3"-4' | 4-5'* | 4"-2.5' | 4-5'* | 2"-2.5' | 4-5' | 5-7.5' | 3"-3' | 3-5'* | 3"-3' | |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | |
| PCB - 1016 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.194 | ND | |
| PCB - 1221 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1232 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1242 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1 |
| PCB - 1248 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1254 | ND | **1.70** | ND | 0.40 | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1260 | **7.1** | ND | **4.60** | ND | ND | 0.05 | **85** | **11** | ND | **11** | 0.07 | |
| **TOTAL PCBs:** | **7.1** | **1.700** | **4.60** | ND | ND | 0.05 | **85** | **11** | ND | **11** | 0.07 | 1 |

| LOCATION | SE-SB-205 | SE-SB-205 | SE-SB-210* | SE-SB-211 | SE-SB-211 | TSCA |
|---|---|---|---|---|---|---|
| DATE | 1/10/13 | 1/10/13 | 1/10/13 | 1/10/13 | 1/10/13 | |
| DEPTH | 3.5-7.5' | 10.5-12.5' | 0-20" | 2"-3.5' | 4-9'* | |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | |
| PCB - 1016 | ND | ND | ND | ND | ND | |
| PCB - 1221 | ND | ND | ND | ND | ND | |
| PCB - 1232 | ND | ND | ND | ND | ND | |
| PCB - 1242 | ND | ND | ND | ND | ND | 1 |
| PCB - 1248 | ND | ND | ND | ND | ND | |
| PCB - 1254 | ND | ND | ND | ND | ND | |
| PCB - 1260 | 0.3 | ND | ND | 0.230 | **48** | |
| **TOTAL PCBs:** | 0.3 | ND | ND | 0.230 | **48** | 1 |

**Table Notes:**

ND = Value is below method detection limits

mg/kg = milligrams per kilogram, or parts per million

TSCA = USEPA Toxic Substance Control Act

**Maine Energy PCB Investigation - Table 5**
February 2013 Results

| LOCATION | SE-SB-213 | SE-SB-213 | SE-SB-213 | SE-SB-213 | SE-SB-214 | SE-SB-214 | SE-SB-214 | SE-SB-214 | SE-SB-215 | SE-SB-215 | SE-SB-215 | SE-SB-215 | SE-SB-215 | TSCA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | |
| DEPTH | 0-2' | 2-4' | 4-6' | 6-7.5'* | 0-2' | 2-4' | 4-6' | 6'-7'* | 0-2' | 2-4' | 4-6' | 6-8' | 8-10'* | |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | |
| PCB - 1016 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1221 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1232 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1242 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1 |
| PCB - 1248 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1254 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1260 | 0.707 | 0.585 | **1.79** | **9.14** | 0.385 | **1.280** | **17.20** | **8.16** | ND | **3.21** | **2.26** | **3.22** | **44.6** | |
| **TOTAL PCBs:** | 0.707 | 0.585 | **1.79** | **9.14** | 0.385 | **1.280** | **17.20** | **8.16** | ND | **3.21** | **2.26** | **3.22** | **44.6** | 1 |

| LOCATION | SE-SB-216 | SE-SB-216 | SE-SB-216 | SE-SB-217 | SE-SB-217 | SE-SB-217 | SE-SB-217 | SE-SB-219 | SE-SB-219 | SE-SB-219 | SE-SB-219 | SE-SB-219 | TSCA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | |
| DEPTH | 2.5"-24" | 2-4' | 4-6'* | 0-2' | 2-4' | 6-8' | 8-10'~ | 0-2' | 2-4' | 4-6' | 6-8' | 8-10'* | |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | |
| PCB - 1016 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1221 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1232 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1242 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1 |
| PCB - 1248 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1254 | ND | ND | ND | ND | ND | ND | **7.86** | ND | ND | ND | ND | ND | |
| PCB - 1260 | 0.065 | **12.90** | ND | ND | **1.160** | 0.853 | **6.68** | ND | 0.380 | **11.0** | **39.8** | **54.1** | |
| **TOTAL PCBs:** | 0.65 | **12.90** | ND | ND | **1.160** | 0.853 | **14.54** | ND | 0.380 | **11.0** | **39.8** | **54.1** | 1 |

| LOCATION | SE-SB-220 | SE-SB-220 | SE-SB-220 | SE-SB-220 | SE-SB-220 | SE-SB-220 | SE-SB-221 | SE-SB-221 | SE-SB-221 | SE-SB-224 | SE-SB-224 | SE-SB-224 | TSCA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | |
| DEPTH | 0-2' | 2-4' | 4-6' | 6-8' | 8-10' | 10-11'* | 0-2' | 2-4' | 4-5'* | 0-2' | 2-4' | 6-8'* | |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | |
| PCB - 1016 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1221 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1232 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1242 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1 |
| PCB - 1248 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1254 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1260 | ND | 0.284 | **2.61** | **13.90** | **19.80** | **489.0** | 0.047 | 0.308 | 0.068 | **9.55** | 0.229 | **9.26** | |
| **TOTAL PCBs:** | ND | 0.284 | **2.61** | **13.90** | **19.80** | **489.0** | 0.047 | 0.308 | 0.068 | **9.55** | 0.229 | **9.26** | 1 |

| LOCATION | SE-SB-225 | SE-SB-225 | SE-SB-225 | SE-SB-225 | TSCA |
|---|---|---|---|---|---|
| DATE | 2/19/13 | 2/19/13 | 2/19/13 | 2/19/13 | |
| DEPTH | 0-2' | 2-4' | 4-6' | 6-7.5'* | |
| | mg/kg | mg/kg | mg/kg | mg/kg | |
| PCB - 1016 | ND | ND | ND | ND | |
| PCB - 1221 | ND | ND | ND | ND | |
| PCB - 1232 | ND | ND | ND | ND | |
| PCB - 1242 | ND | ND | ND | ND | 1 |
| PCB - 1248 | ND | ND | ND | ND | |
| PCB - 1254 | ND | ND | ND | ND | |
| PCB - 1260 | 0.31 | **15.8** | **17.6** | **10.90** | |
| **TOTAL PCBs:** | 0.31 | **15.8** | **17.6** | **10.90** | 1 |

**Maine Energy PCB Investigation - Table 5**

February 2013 Results

| LOCATION | SE-SB-218 | SE-SB-218 | SE-SB-222 | SE-SB-222 | SE-SB-222 | SE-SB-222 | SE-SB-222 | SE-SB-223 | SE-SB-223 | SE-SB-223 | SE-SB-223 | SE-SB-223 | SE-SB-226 | SE-SB-226 | SE-SB-226 | TSCA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | |
| DEPTH | 0-2' | 2-4' | 0-2' | 2-4' | 4-6' | 6-8' | 8-10' | 0-2' | 2-4' | 4-6' | 6-8' | 8-10' | 0-2' | 2-4' | 4-5'* | |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | |
| PCB - 1016 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1221 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1232 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1242 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1 |
| PCB - 1248 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1254 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1260 | 0.328 | 0.696 | **2.74** | 0.447 | 0.823 | 0.146 | 0.237 | 0.133 | **179** | **3.92** | **3.93** | **8.00** | **631** | **9660** | **3650** | |
| **TOTAL PCBs:** | 0.328 | 0.696 | **2.74** | 0.447 | 0.823 | 0.146 | 0.237 | 0.133 | **179** | **3.92** | **3.93** | **8.00** | **631** | **9660** | **3650** | 1 |

| LOCATION | SE-SB-227 | SE-SB-227 | SE-SB-227 | SE-SB-227 | SE-SB-228 | SE-SB-228 | SE-SB-228 | SE-SB-228 | SE-SB-228 | SE-SB-229 | SE-SB-229 | SE-SB-229 | SE-SB-229 | SE-SB-229 | SE-SB-230 | SE-SB-230 | TSCA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | |
| DEPTH | 0-2' | 2-4' | 4-6' | 6-8' | 0-2' | 2-4' | 4-6' | 6-8' | 8-10' | 0-2' | 2-4' | 4-6' | 6-8' | 8-10' | 0-2' | 2-4' | |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | |
| PCB - 1016 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1221 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1232 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1242 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1 |
| PCB - 1248 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1254 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1260 | **2.84** | **1.93** | 0.996 | **4.32** | **86.2** | **1.36** | **19.5** | **3.98** | **15.50** | **577** | **192** | **50.6** | **149** | **26.3** | **27.7** | **3.08** | |
| **TOTAL PCBs:** | **2.84** | **1.93** | 0.996 | **4.32** | **86.2** | **1.36** | **19.5** | **3.98** | **15.50** | **577** | **192** | **50.6** | **149** | **26.3** | **27.7** | **3.08** | 1 |

| LOCATION | SE-SB-231 | SE-SB-231 | SE-SB-231 | SE-SB-231 | SE-SB-231 | SE-SB-232 | SE-SB-232A | SE-SB-232A | SE-SB-232A | SE-SB-232A | SE-SB-233 | SE-SB-233 | SE-SB-233 | SE-SB-233 | TSCA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | |
| DEPTH | 0-2' | 2-4' | 4-6' | 6-8' | 8-10' | 0-2' | 2-4' | 4-6' | 6-8' | 8-10' | 0-2' | 2-4' | 4-6' | 6-8'* | |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | |
| PCB - 1016 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1221 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1232 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1242 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1 |
| PCB - 1248 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1254 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1260 | **17.8** | **324** | **164** | **3150** | **2330** | **553** | **4.49** | **4.34** | **5.09** | 0.241 | **6.30** | **1.02** | 0.267 | 0.404 | |
| **TOTAL PCBs:** | **17.8** | **324** | **164** | **3150** | **2330** | **553** | **4.49** | **4.34** | **5.09** | 0.241 | **6.30** | **1.02** | 0.267 | 0.404 | 1 |

| LOCATION | SE-SB-234 | SE-SB-234 | SE-SB-234 | SE-SB-234 | SE-SB-234 | SE-SB-235 | SE-SB-235 | SE-SB-235 | SE-SB-235 | SE-SB-235 | SE-SB-236 | SE-SB-236 | SE-SB-236 | SE-SB-236 | SE-SB-236 | SE-SB-236 | SE-SB-236 | TSCA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | 2/20/13 | |
| DEPTH | 0-2' | 2-4' | 4-6' | 6-8' | 8-10' | 0-2' | 2-4' | 4-6' | 6-8' | 8-10' | 0-2' | 2-4' | 4-6' | 6-8' | 8-10' | 10-12' | 12-14' | |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | |
| PCB - 1016 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1221 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1232 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1242 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1 |
| PCB - 1248 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1254 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| PCB - 1260 | **25.10** | **2.35** | **1.84** | **2.26** | **1.54** | **2.24** | 0.488 | ND | **1.38** | 0.399 | 0.174 | 0.67 | **2.24** | **2.12** | 0.975 | 0.735 | 0.472 | |
| **TOTAL PCBs:** | **25.10** | **2.35** | **1.84** | **2.26** | **1.54** | **2.24** | 0.488 | ND | **1.38** | 0.399 | 0.174 | 0.67 | **2.24** | **2.12** | 0.975 | 0.735 | 0.472 | 1 |

**Table Notes:**

ND = Value is below method detection limits

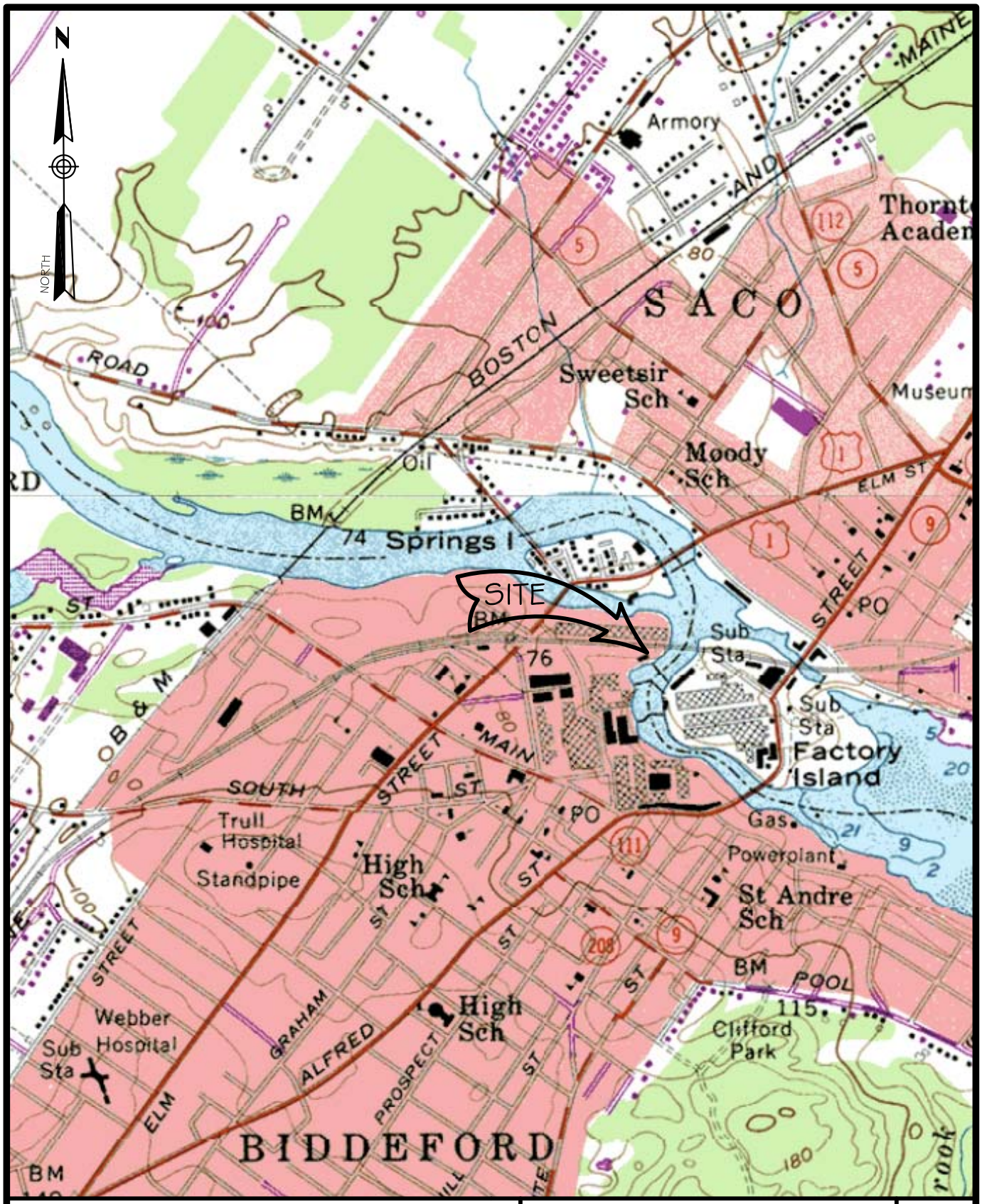
mg/kg = milligrams per kilogram, or parts per million

TSCA = USEPA Toxic Substance Control Act

* = Denotes refusal at depth

~ = Hole collapsed upon removal of tooling at 10'

# *Figures*



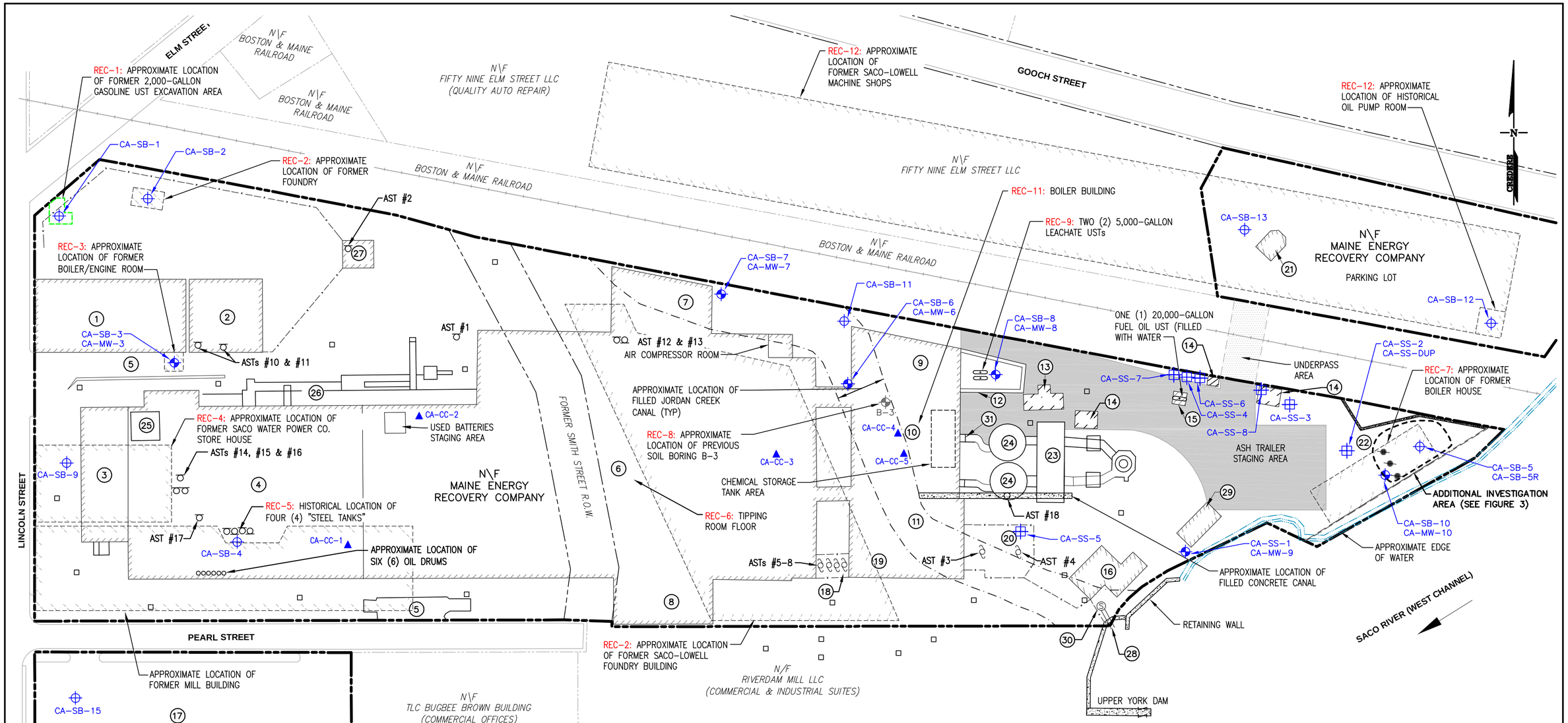

# SITE LOCATION PLAN

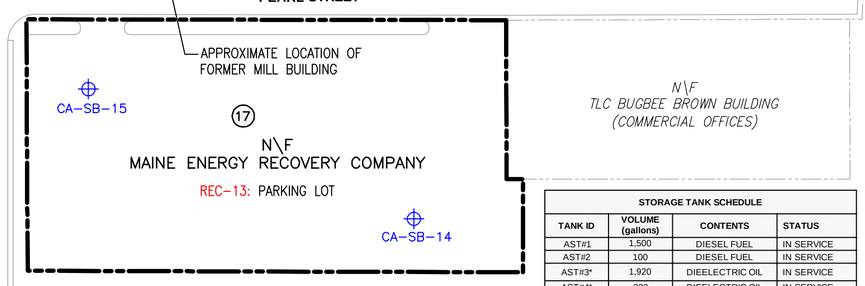
MAINE ENERGY RECOVERY COMPANY
PCB INVESTIGATION

| | | |
|---|---|---|
| DATE: 3/26/2013 | DRAWN BY: TND | CHECKED BY: JKC |
| JOB: 12-3259.1 | NOT TO SCALE | FILE:3259.1FIG.dwg |

Summit Environmental Consultants, Inc
640 MAIN ST.
LEWISTON, ME 04240
Tel.: (207) 795-6009
Fax: (207) 795-6128

FIGURE
1




| STORAGE TANK SCHEDULE | | | |
|---|---|---|---|
| TANK ID | VOLUME (gallons) | CONTENTS | STATUS |
| AST#1 | 1,500 | DIESEL FUEL | IN SERVICE |
| AST#2 | 100 | DIESEL FUEL | IN SERVICE |
| AST#3* | 1,920 | DIEELECTRIC OIL | IN SERVICE |
| AST#4* | 220 | DIEELECTRIC OIL | IN SERVICE |
| AST#5* | 510 | DIEELECTRIC OIL | IN SERVICE |
| AST#6* | 510 | DIEELECTRIC OIL | IN SERVICE |
| AST#7* | 192 | DIEELECTRIC OIL | IN SERVICE |
| AST#8* | 192 | DIEELECTRIC OIL | IN SERVICE |
| AST#9 | 100 | LUBRICATION OIL | REMOVED |
| AST#10 | 275 | MOTOR OIL | IN SERVICE |
| AST#11 | 275 | HYDRAULIC OIL | IN SERVICE |
| AST#12 | 275 | HYDRAULIC OIL | IN SERVICE |
| AST#13 | 275 | MOTOR OIL | IN SERVICE |
| AST#14 | 275 | LUBRICATION OIL | IN SERVICE |
| AST#15 | 400 | LUBRICATION OIL | IN SERVICE |
| AST#16 | 100 | LUBRICATION OIL | IN SERVICE |
| AST#17 | 200 | LUBRICATION OIL | IN SERVICE |
| AST#18 | 275 | KEROSENE | IN SERVICE |

* = TRANSFORMER

| BUILDING SCHEDULE | |
|---|---|
| BUILDNG NUMBER | USE |
| 1 | WAREHOUSE |
| 2 | MAINTENANCE SHOP |
| 3 | OFFICES |
| 4 | PROCESS BUILDING |
| 5 | TRUCK SCALES |
| 6 | TIPPING FLOOR |
| 7 | NORTHERN VESTIBULE |
| 8 | SOUTHERN VESTIBULE |
| 9 | ASH LOAD-OUT |
| 10 | BOILER BUILDING |
| 11 | TURBINE HALL |
| 12 | ASPHALT BERM |
| 13 | LIME SLAKER BUILDING |
| 14 | PHONE EQUIPMENT |
| 15 | SHED |
| 16 | CIRCULATION PUMP HOUSE |
| 17 | PARKING LOT |
| 18 | TRANSFORMER AREA - LOW YARD |
| 19 | UPS BATTERY ROOM |
| 20 | TRANSFORMER AREA - HIGH YARD |
| 21 | PUMP HOUSE |
| 22 | TRAILER STAGING AREA |
| 23 | BAG HOUSE |
| 24 | COOLING TOWER |
| 25 | TOWER |
| 26 | CONVEYORS |
| 27 | FIRE PUMP HOUSE |
| 28 | STORM WATER OUTFALL (002) |
| 29 | ELECTRICIAN TRAILER |
| 30 | OIL/WATER SEPARATOR |
| 31 | LOADING AREA FOR HYDROCHLORIC ACID, SODIUM HYDROXIDE, AND MAGNESIUM HYDROXIDE |

## LEGEND

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|---|---|---|---|
| | SITE BOUNDARY | | UNDERGROUND STORAGE TANK (UST) |
| | APPROXIMATE ABUTTING PROPERTY BOUNDARY | 3 | BUILDING IDENTIFICATION NUMBER |
| | APPROXIMATE RIGHT-OF-WAY (R.O.W.) | | CATCH BASIN |
| | APPROXIMATE LOCATION OF FILLED CANAL | B-3 | PREVIOUS SOIL BORING |
| | BUILDING | CA-SB-1 CA-MW-1 | SOIL BORING/MONITORING WELL |
| | FORMER BUILDING | CA-SB-1 | SOIL BORING |
| | FENCE | CA-SS-1 | SURFICIAL SOIL SOIL SAMPLE LOCATION |
| | CONCRETE | CA-CC-3 | CONCRETE SAMPLE LOCATION |
| | REC-10: AREA OF OBSERVED ASH BUILD-UP | | |
| | FORMER EXCAVATION AREA | | |
| | APPROXIMATE RIVER BANK | | |
| | CONCRETE RETAINING WALL | | |
| | GRANITE RETAINING WALL | | |
| | ADDITIONAL INVESTIGATION AREA | | |
| | TRANSFORMER | | |
| | UTILITY POLE | | |
| | ABOVEGROUND STORAGE TANK (AST) | | |
| | OIL DRUM | | |

NOTES:

1. EXISTING CONDITION INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE AND BASED ON THE FOLLOWING PLANS: A DECEMBER 20, 2010, ST. GERMAIN & COLLINS PLAN TITLED, "SITE PLAN", FOR CASELLA WASTE SYSTEMS, INC.; REVISED JUNE 13, 1985, DOW & COULOMBE, INC. ENGINEERS & SURVEYING (DOW & COLOUMBE) LAND SURVEY PLAN TITLED "PLAN SHOWING LAND SURVEYED FOR MAINE ENERGY RECOVERY COMPANY" CREATED FOR THE MAINE ENERGY RECOVERY COMPANY; AND, A NOVEMBER 30, 1983, DOW & COULOMBE PLAN TITLED "PLAN SHOWING TOPOGRAPHIC SITE SURVEY MADE FOR GENERAL ELECTRIC COMPANY", CREATED FOR THE GENERAL ELECTRIC COMPANY.
2. THE LOCATION OF EXPLORATIONS DEPICTED ON THIS PLAN ARE APPROXIMATE AND BASED ON DISTANCES TO SITE FEATURES REPRESENTED ON THIS PLAN. MONITORING WELLS CA-MW-3, CA-MW-6, CA-MW-8, CA-MW-9, AND CA-MW-10 WERE SURVEYED USING A TRIMBLE GEO-XH HAND-HELD GPS UNIT (SUB-METER POST PROCESSED ACCURACY). GPS COORDINATES ARE AVAILABLE UPON REQUEST.
3. THE LOCATION OF CA-SB-10/CA-MW-10 SHOWN ON THIS PLAN WAS RELOCATED BASED ON INFORMATION OBTAINED DURING THE SUPPLEMENTAL PHASE II ESA.

DRAWN BY: WTE | DATE: 11/14/2012
CHECKED BY: JRN/RIP | PROJECT: 12001150


CREDERE ASSOCIATES, LLC
776 MAIN STREET
WESTBROOK, MAINE 04092
TEL: 207.828.1272
FAX: 207.887.1051
WWW.CREDERELLC.COM

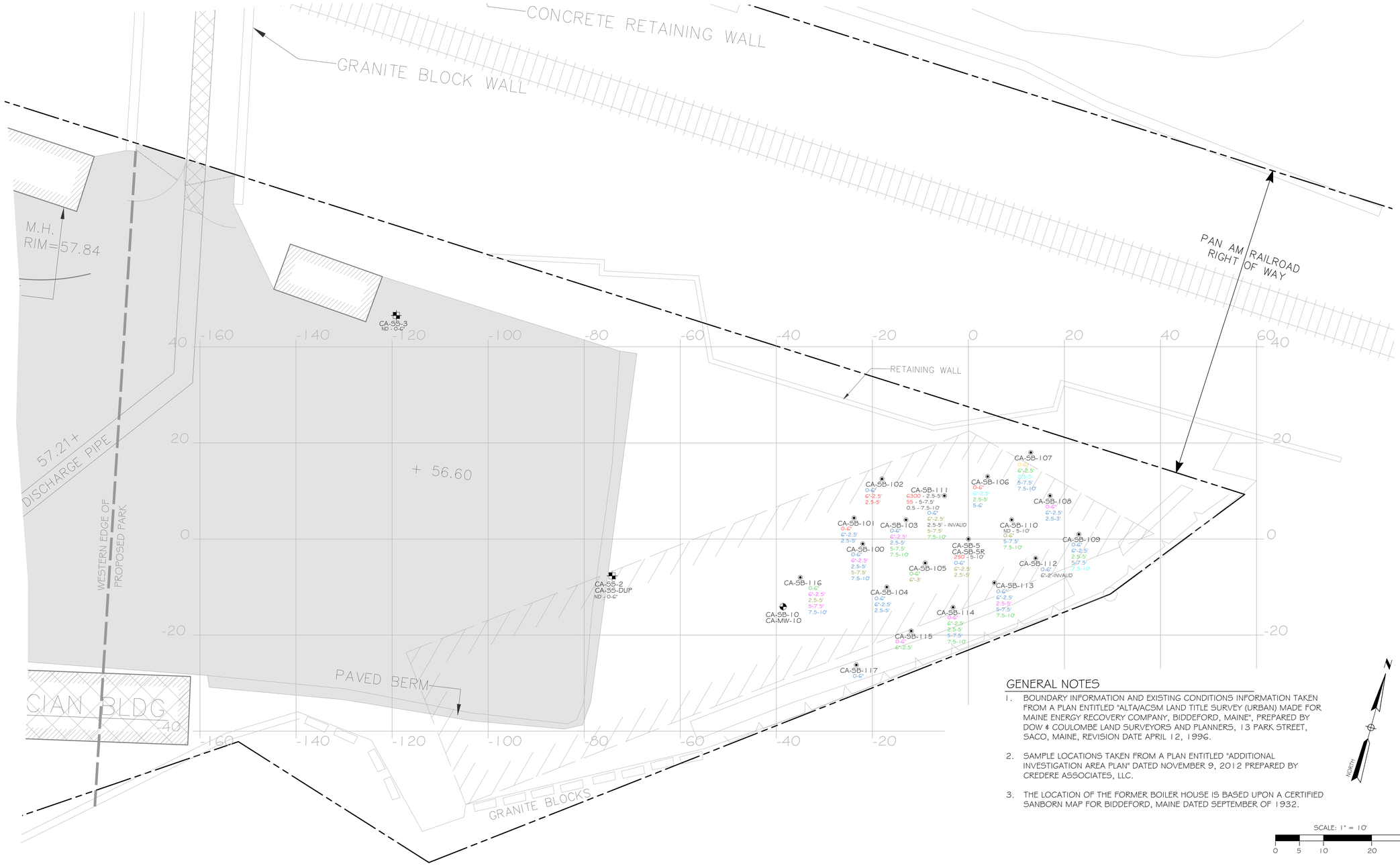

GRAPHIC SCALE

60 0 30 60 120 240

1 inch = 60 ft.

# FIGURE 2
# DETAILED SITE PLAN

MAINE ENERGY RECOVERY COMPANY PROPERTY
3-11 LINCOLN STREET
BIDDEFORD, MAINE




## GENERAL NOTES

1. BOUNDARY INFORMATION AND EXISTING CONDITIONS INFORMATION TAKEN FROM A PLAN ENTITLED "ALTA/ACSM LAND TITLE SURVEY (URBAN) MADE FOR MAINE ENERGY RECOVERY COMPANY, BIDDEFORD, MAINE", PREPARED BY DOW & COULOMBE LAND SURVEYORS AND PLANNERS, 13 PARK STREET, SACO, MAINE, REVISION DATE APRIL 12, 1996.
2. SAMPLE LOCATIONS TAKEN FROM A PLAN ENTITLED "ADDITIONAL INVESTIGATION AREA PLAN" DATED NOVEMBER 9, 2012 PREPARED BY CREDERE ASSOCIATES, LLC.
3. THE LOCATION OF THE FORMER BOILER HOUSE IS BASED UPON A CERTIFIED SANBORN MAP FOR BIDDEFORD, MAINE DATED SEPTEMBER OF 1932.

## LEGEND

| | | | | | |
|---|---|---|---|---|---|
| | PROPERTY BOUNDARY | CA-SS-1 | CREDERE ASSOCIATES: EXISTING SURFICIAL SOIL SAMPLE LOCATION | 0-6" | <1 ppm PCBs AS DETERMINED BY CAPE TECHNOLOGIES IMMUNOASSAY SCREENING KIT |
| | EDGE OF EXISTING BUILDING | CA-SB-100 | CREDERE ASSOCIATES: ADDITIONAL SOIL BORING | 0-6" | ~1 ppm PCBs AS DETERMINED BY CAPE TECHNOLOGIES IMMUNOASSAY SCREENING KIT |
| | FORMER BUILDING | (0.5ppm) | PCB ANALYTICAL RESULTS (PARTS PER MILLION) | 0-6" | 1 TO 10 ppm PCBs AS DETERMINED BY CAPE TECHNOLOGIES IMMUNOASSAY SCREENING KIT |
| | PCB INVESTIGATION AREA OF CONCERN | (50 ppm) | PCB ANALYTICAL RESULTS (PARTS PER MILLION) > 50 ppm | 0-6" | ~10 ppm PCBs AS DETERMINED BY CAPE TECHNOLOGIES IMMUNOASSAY SCREENING KIT |
| | ASPHALT STAGING AREA | CA-SB-10 CA-MW-10 | CREDERE ASSOCIATES: EXISTING SOIL BORING/MONITORING WELL | 0-6" | 10 TO 50 ppm PCBs AS DETERMINED BY CAPE TECHNOLOGIES IMMUNOASSAY SCREENING KIT |
| | | | | 0-6" | ~50 ppm PCBs AS DETERMINED BY CAPE TECHNOLOGIES IMMUNOASSAY SCREENING KIT |
| | | | | 0-6" | >50 ppm PCBs AS DETERMINED BY CAPE TECHNOLOGIES IMMUNOASSAY SCREENING KIT |

| NO. | REVISION | DATE |
|---|---|---|
| 02 | RELOCATE BOILER HOUSE/SANBORN | 3/04/13 |
| 01 | ADD. BORINGS/MTS SURVEY DATA | 2/22/13 |

SHEET TITLE: SAMPLE LOCUS PLAN: CREDERE ASSOCIATES

DATE: JANUARY 11, 2013 | DRAWN BY: TND

SCALE: 1" = 10' | REVIEWED BY: JKC

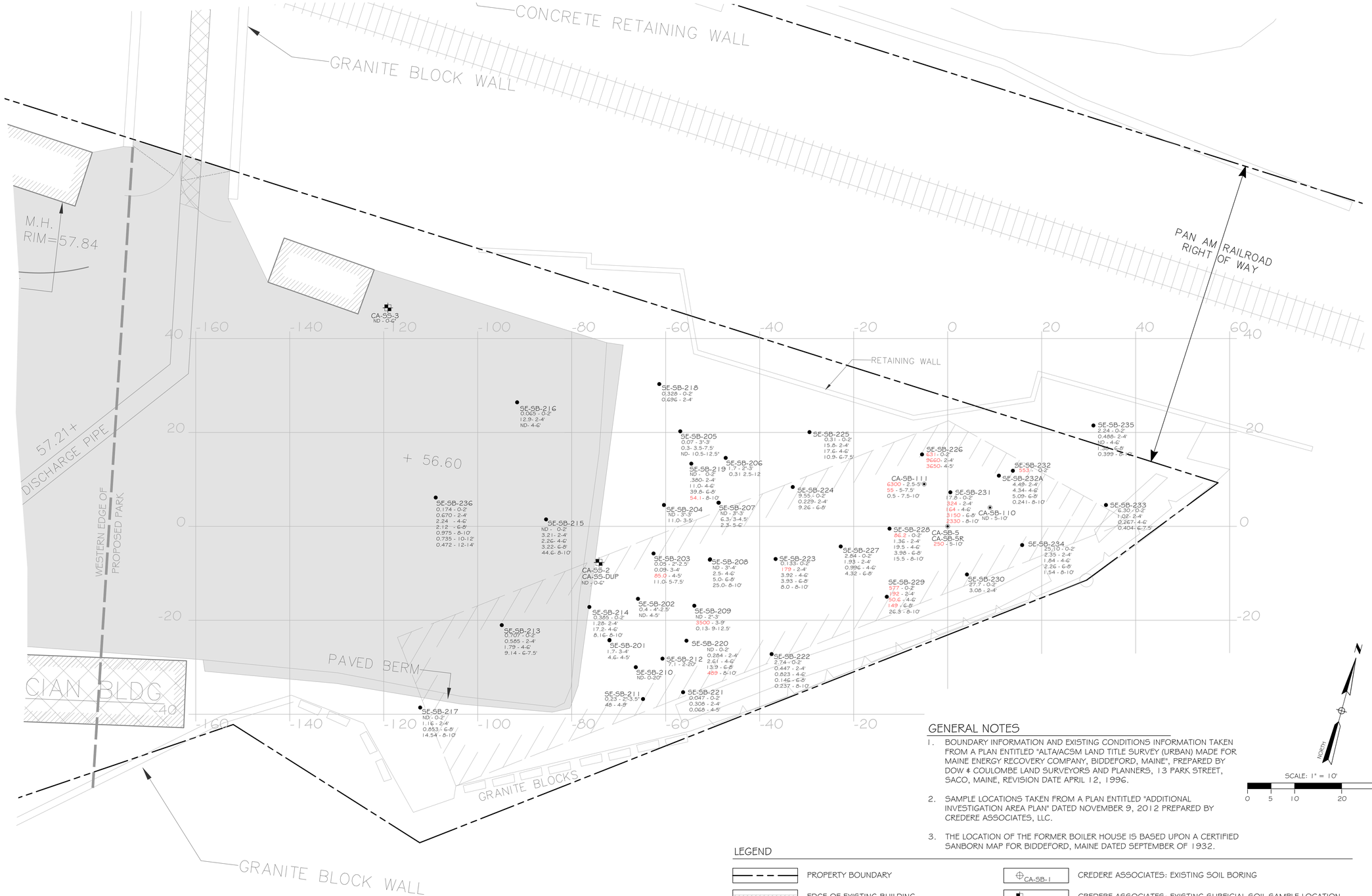
PROJECT: MAINE ENERGY RECOVERY COMPANY- PCB INVESTIGATIGATION

CLIENT: MAINE ENERGY RECOVERY COMPANY
3 LINCOLN STREET, BIDDEFORD, MAINE

Summit Environmental Consultants, Inc
640 MAIN ST.
LEWISTON, ME 04240
Tel.: (207) 795-6009
Fax: (207) 795-6128
www.summitenv.com

PROJECT NO. - 12-3259.1

FIGURE: 3




## GENERAL NOTES

1. BOUNDARY INFORMATION AND EXISTING CONDITIONS INFORMATION TAKEN FROM A PLAN ENTITLED "ALTA/ACSM LAND TITLE SURVEY (URBAN) MADE FOR MAINE ENERGY RECOVERY COMPANY, BIDDEFORD, MAINE", PREPARED BY DOW & COULOMBE LAND SURVEYORS AND PLANNERS, 13 PARK STREET, SACO, MAINE, REVISION DATE APRIL 12, 1996.
2. SAMPLE LOCATIONS TAKEN FROM A PLAN ENTITLED "ADDITIONAL INVESTIGATION AREA PLAN" DATED NOVEMBER 9, 2012 PREPARED BY CREDERE ASSOCIATES, LLC.
3. THE LOCATION OF THE FORMER BOILER HOUSE IS BASED UPON A CERTIFIED SANBORN MAP FOR BIDDEFORD, MAINE DATED SEPTEMBER OF 1932.

## LEGEND

| | | | |
|---|---|---|---|
| | PROPERTY BOUNDARY | CA-SB-1 | CREDERE ASSOCIATES: EXISTING SOIL BORING |
| | EDGE OF EXISTING BUILDING | CA-SS-1 | CREDERE ASSOCIATES: EXISTING SURFICIAL SOIL SAMPLE LOCATION |
| | FORMER BUILDING | CA-SB-100 | CREDERE ASSOCIATES: ADDITIONAL SOIL BORING |
| | PCB INVESTIGATION AREA OF CONCERN | (0.5ppm) | PCB ANALYTICAL RESULTS (PARTS PER MILLION) |
| | ASPHALT STAGING AREA | (50 ppm) | PCB ANALYTICAL RESULTS (PARTS PER MILLION) > 50 ppm |
| | | SE-SB-1 | SUMMIT ENVIRONMENTAL SOIL BORING |
| | | CA-SB-10 CA-MW-10 | CREDERE ASSOCIATES: EXISTING SOIL BORING/MONITORING WELL |

| NO. | REVISION | DATE |
|---|---|---|
| 02 | RELOCATE BOILER HOUSE/SANBORN | 3/04/13 |
| 01 | ADD. BORINGS/MTS SURVEY DATA | 2/22/13 |

SHEET TITLE: SAMPLE LOCUS PLAN

DATE: JANUARY 11, 2013 | DRAWN BY: TND

SCALE: 1" = 10' | REVIEWED BY: JKC

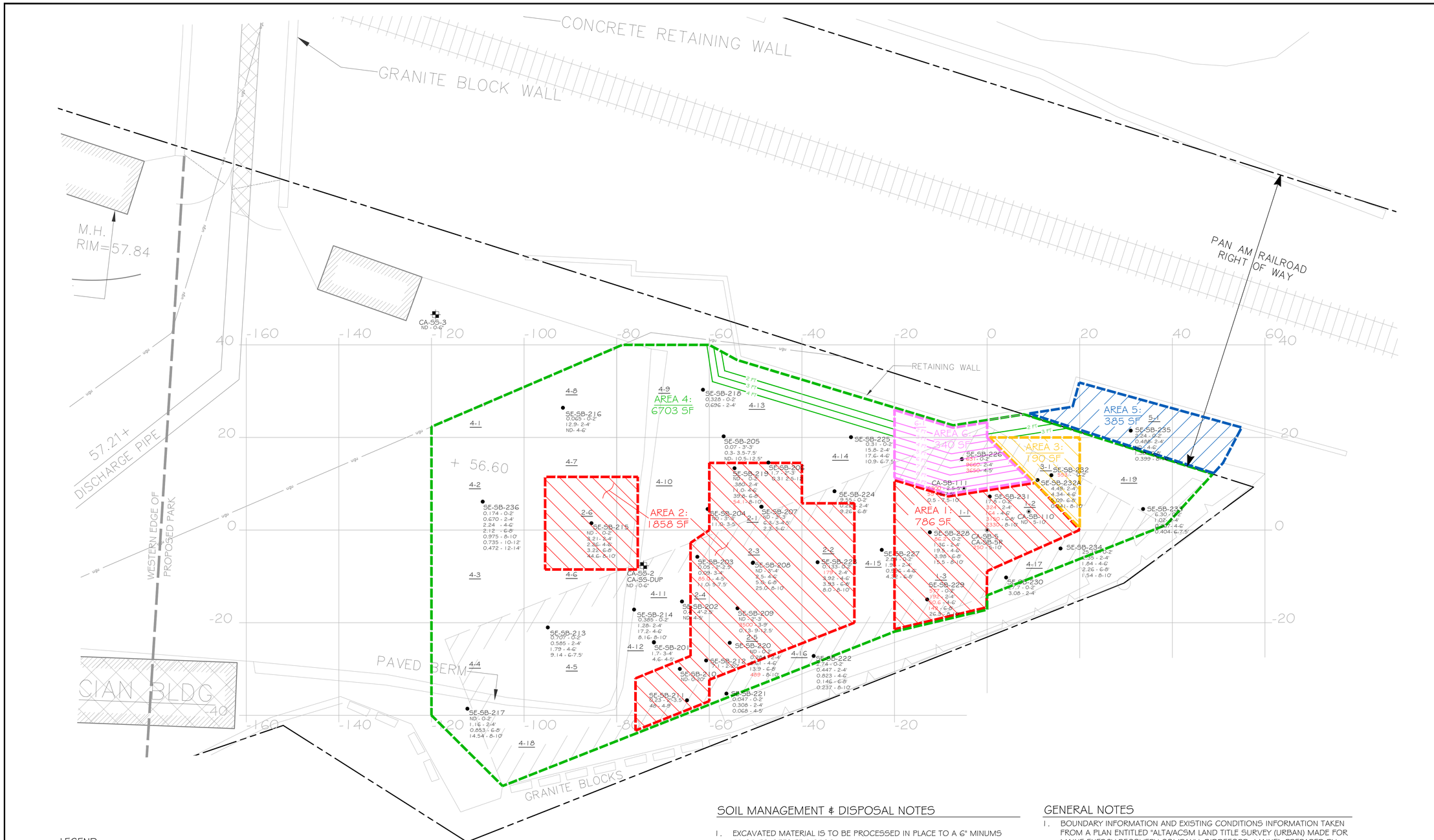
PROJECT: MAINE ENERGY RECOVERY COMPANY- PCB INVESTIGATION

CLIENT: MAINE ENERGY RECOVERY COMPANY
3 LINCOLN STREET, BIDDEFORD, MAINE

Summit Environmental Consultants, Inc
640 MAIN ST.
LEWISTON, ME 04240
Tel.: (207) 795-6009
Fax: (207) 795-6128
www.summitenv.com

PROJECT NO. - 12-3259.1

FIGURE: 4




## LEGEND

- PROPERTY BOUNDARY
- EDGE OF EXISTING BUILDING
- FORMER BUILDING
- ASSUMED > 50ppm EXCAVATE TO 10' (APPROXIMATELY 970 CY)
- ASSUMED > 50ppm EXCAVATE TO 4' (APPROXIMATELY 28 CY)
- <50ppm EXCAVATE TO 4' (APPROXIMATELY 970 CY)
- <50ppm EXCAVATE TO 2' (APPROXIMATELY 30 CY)
- CA-SB-1 — CREDERE ASSOCIATES: EXISTING SOIL BORING
- CA-SS-1 — CREDERE ASSOCIATES: EXISTING SURFICIAL SOIL SAMPLE LOCATION
- CA-SB-100 — CREDERE ASSOCIATES: ADDITIONAL SOIL BORING
- (0.5ppm) — PCB ANALYTICAL RESULTS (PARTS PER MILLION)
- (50 ppm) — PCB ANALYTICAL RESULTS (PARTS PER MILLION) > 50 ppm
- SE-SB-1 — SUMMIT ENVIRONMENTAL SOIL BORING
- CA-SB-10 / CA-MW-10 — CREDERE ASSOCIATES: EXISTING SOIL BORING/MONITORING WELL
- AREA TO BE EXCAVATED IN ACCORDANCE WITH SUMMIT GEOENGINEERING EXCAVATION PLAN. REMOVED MATERIAL TO BE DISPOSED AS >50ppm PCBs (APPROXIMATELY 75 CY)

## SOIL MANAGEMENT & DISPOSAL NOTES

1. EXCAVATED MATERIAL IS TO BE PROCESSED IN PLACE TO A 6" MINUMS PRIOR TO OFFSITE DISPOSAL.
2. MATERIAL ADJACENT TO CONCRETE RETAINING WALL IS TO BE EXCAVATED IN ACCORDANCE WITH SUMMIT GEOENGINEERING EXCAVATION PLAN.
3. REFER TO FIGURE 7 REGARDING EXCAVATION ADJACENT TO EXISTING RETAINING WALL. EXCAVATION CONDITIONS ARE DEPENDENT ON ACTUAL DEPTH OF FOOTER AND WILL COINSIDE WITH SUMMIT GEOENGINEERING SERVICES (SGS) EXCAVATION PLAN. SOIL WILL BE EXCAVATED TO THE FULL DEPTH OF THE FOOTER ALONG THE FACE OF THE WALL. EXCAVATION BELOW THE FOOTER WILL BE CONTINUED AT A SLOPE OF 1.5H:1V.

## GENERAL NOTES

1. BOUNDARY INFORMATION AND EXISTING CONDITIONS INFORMATION TAKEN FROM A PLAN ENTITLED "ALTA/ACSM LAND TITLE SURVEY (URBAN) MADE FOR MAINE ENERGY RECOVERY COMPANY, BIDDEFORD, MAINE", PREPARED BY DOW & COULOMBE LAND SURVEYORS AND PLANNERS, 13 PARK STREET, SACO, MAINE, REVISION DATE APRIL 12, 1996.
2. SAMPLE LOCATIONS TAKEN FROM A PLAN ENTITLED "ADDITIONAL INVESTIGATION AREA PLAN" DATED NOVEMBER 9, 2012 PREPARED BY CREDERE ASSOCIATES, LLC.
3. THE LOCATION OF THE FORMER BOILER HOUSE IS BASED UPON A CERTIFIED SANBORN MAP FOR BIDDEFORD, MAINE DATED SEPTEMBER OF 1932.

NORTH

SCALE: 1" = 10'

0 5 10 20 30

| NO. | REVISION | DATE |
|---|---|---|
| #2 | REVISE AREA 3, RELATED NOTES, AND DISPOSAL QUANTITIES | 04/15/14 |
| #1 | ADD RETAINING WALL ANNOTATION | 04/09/14 |

SHEET TITLE: SOIL REMOVAL AND DISPOSAL PLAN

DATE: JUNE 12, 2013 | DRAWN BY: TND

SCALE: 1" = 10' | REVIEWED BY: JKC

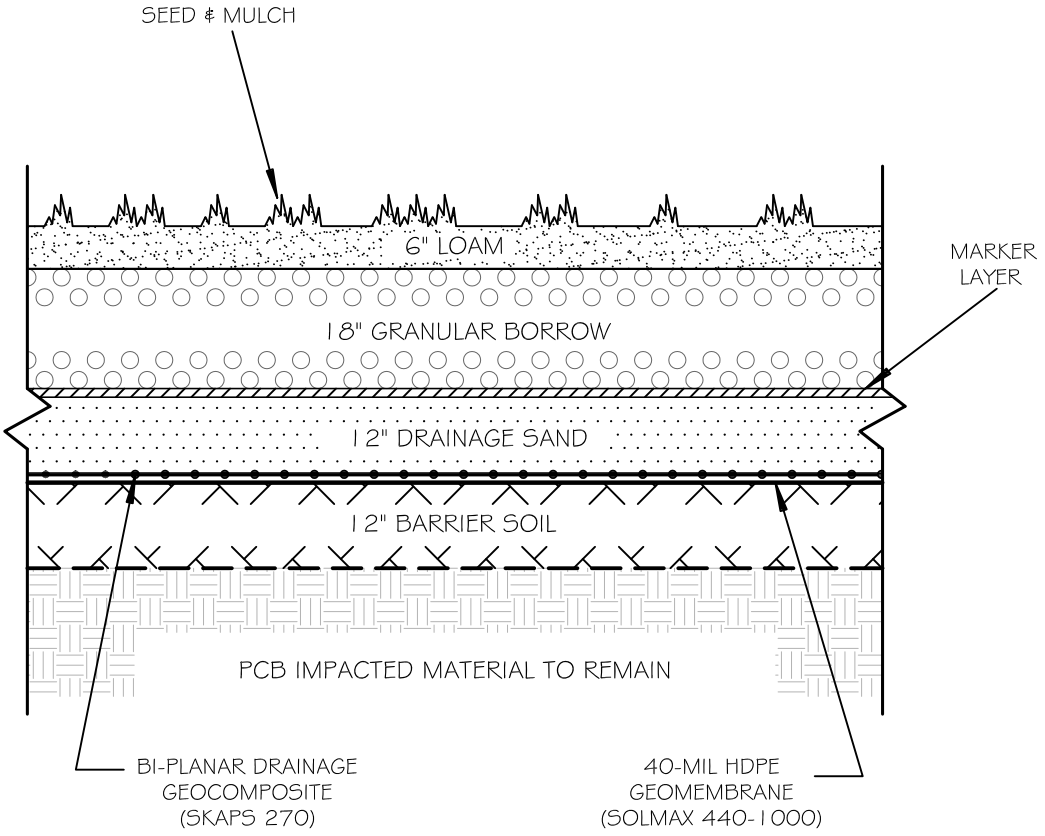
PROJECT: MAINE ENERGY RECOVERY COMPANY- PCB INVESTIGATION

CLIENT: MAINE ENERGY RECOVERY COMPANY
3 LINCOLN STREET, BIDDEFORD, MAINE

Summit Environmental Consultants, Inc
640 MAIN ST.
LEWISTON, ME 04240
Tel.: (207) 795-6009
Fax: (207) 795-6128
www.summitenv.com

PROJECT NO. - 12-3259.1

FIGURE: 5




## NOTES:

1. BARRIER SOIL:
   - -HYDRAULIC CONDUCTIVITY: $\leq 1 \times 10^{-7}$ cm/s²
   - -GRADATION: GREATER THAN 30% PASSING THE #200 SIEVE
   - -LIQUID LIMIT: $\geq 30$
   - -PLASTICITY INDEX: $\geq 15$
2. GRADE BARRIER SOIL FOR POSITIVE DRAINAGE TOWARDS SACO RIVER BANK AND PROPOSED STONE UNDERDRAIN.

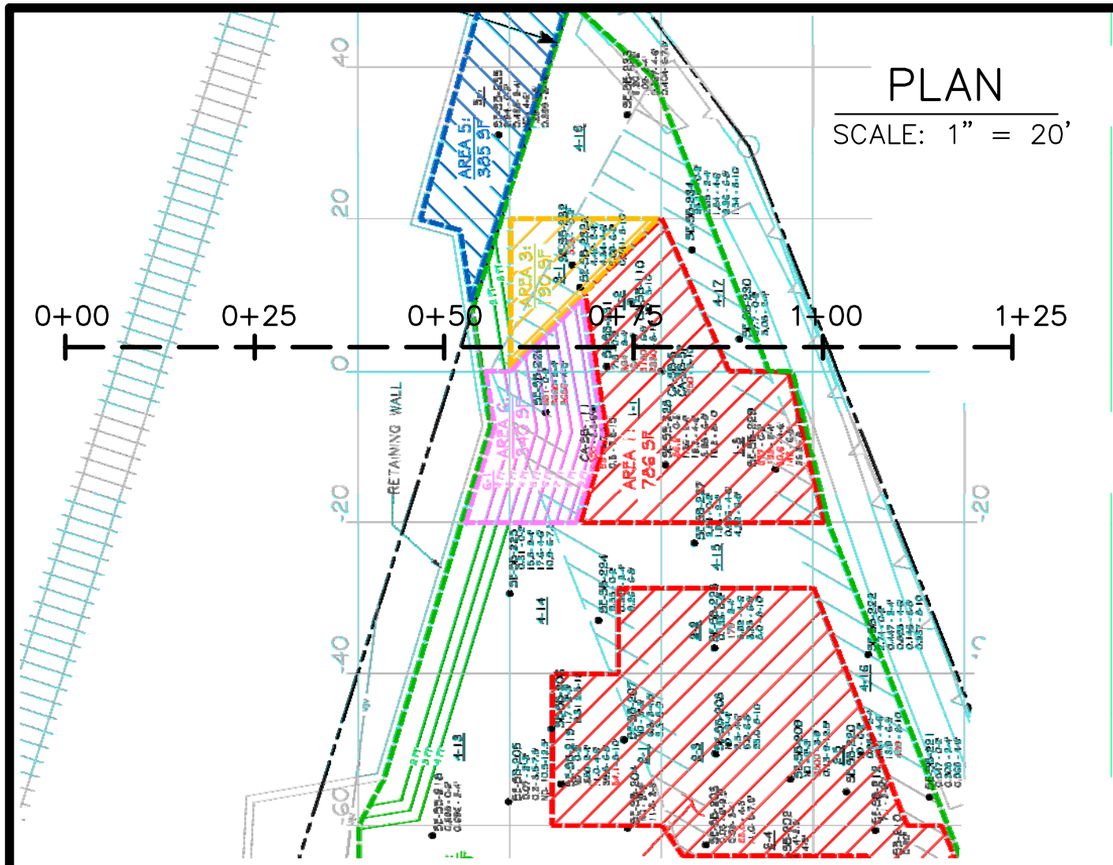
# IN-SITU CAP SYSTEM TYPICAL DETAIL

MAINE ENERGY RECOVERY COMPANY
PCB INVESTIGATION

| | | |
|---|---|---|
| DATE: 3/26/2013 | DRAWN BY: TND | CHECKED BY: JKC |
| JOB: 12-3259.1 | NOT TO SCALE | FILE:3259.1FIG.dwg |

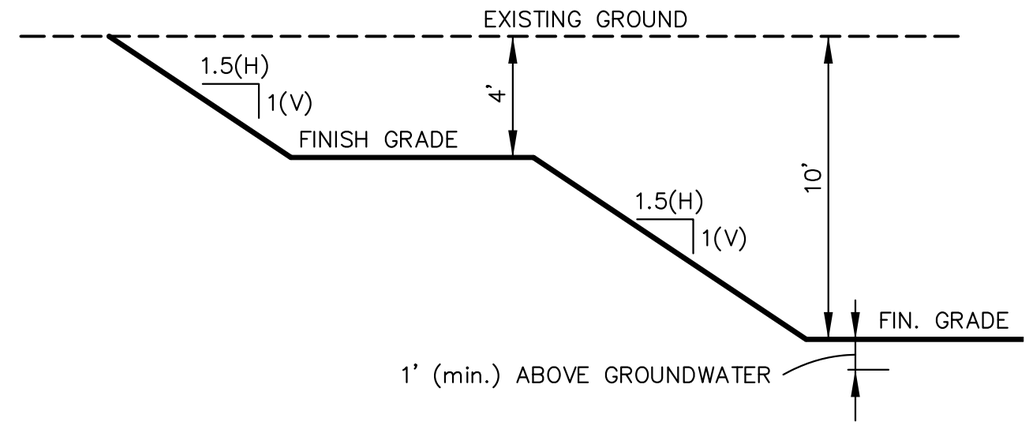
Summit Environmental Consultants, Inc
640 MAIN ST.
LEWISTON, ME 04240
Tel.: (207) 795-6009
Fax: (207) 795-6128

FIGURE
6



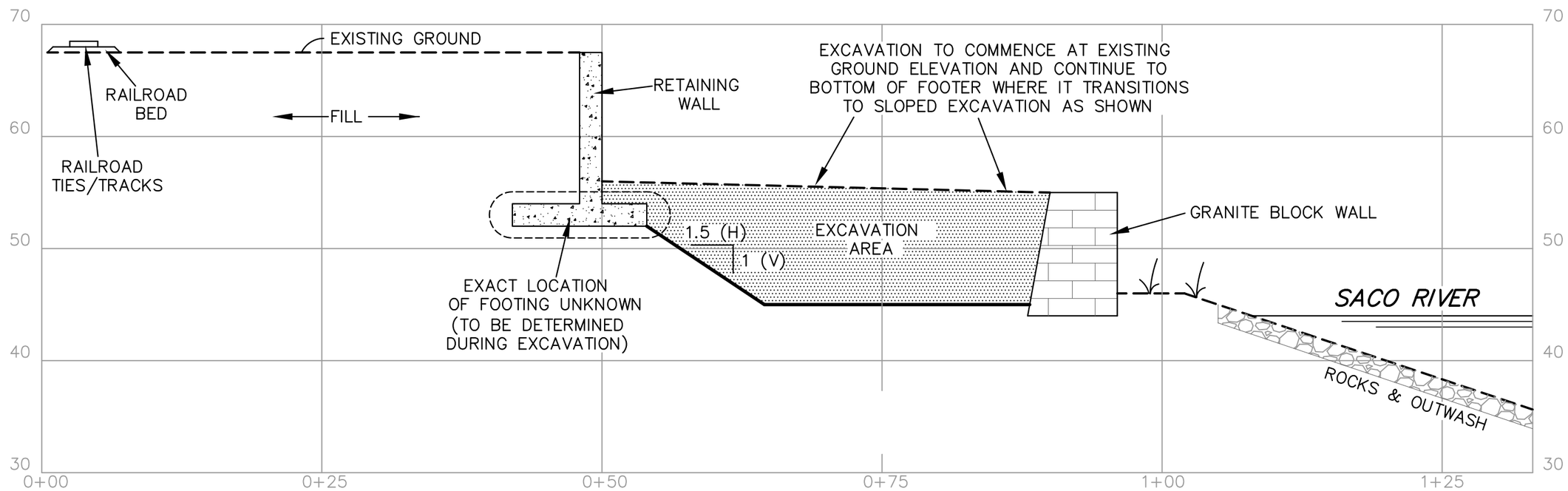

## PLAN

SCALE: 1" = 20'




## EXCAVATION TRANSITION BETWEEN DIFFERING DEPTHS

SCALE: 1" = 5'




REVISED: 2-19-14 - NEW PLAN VIEW
REVISED: 4-12-13 - NEW PLAN VIEW BASE MAP

PROJECT: MAINE ENERGY RECOVERY FACILITY
BIDDEFORD, MAINE

CLIENT: SUMMIT ENVIRONMENTAL CONSULTANTS

TITLE: EXCAVATION PLAN

SCALE: AS NOTED
DATE: MARCH 29, 2013
DRAWN BY: KRF
APPR. BY: CWC

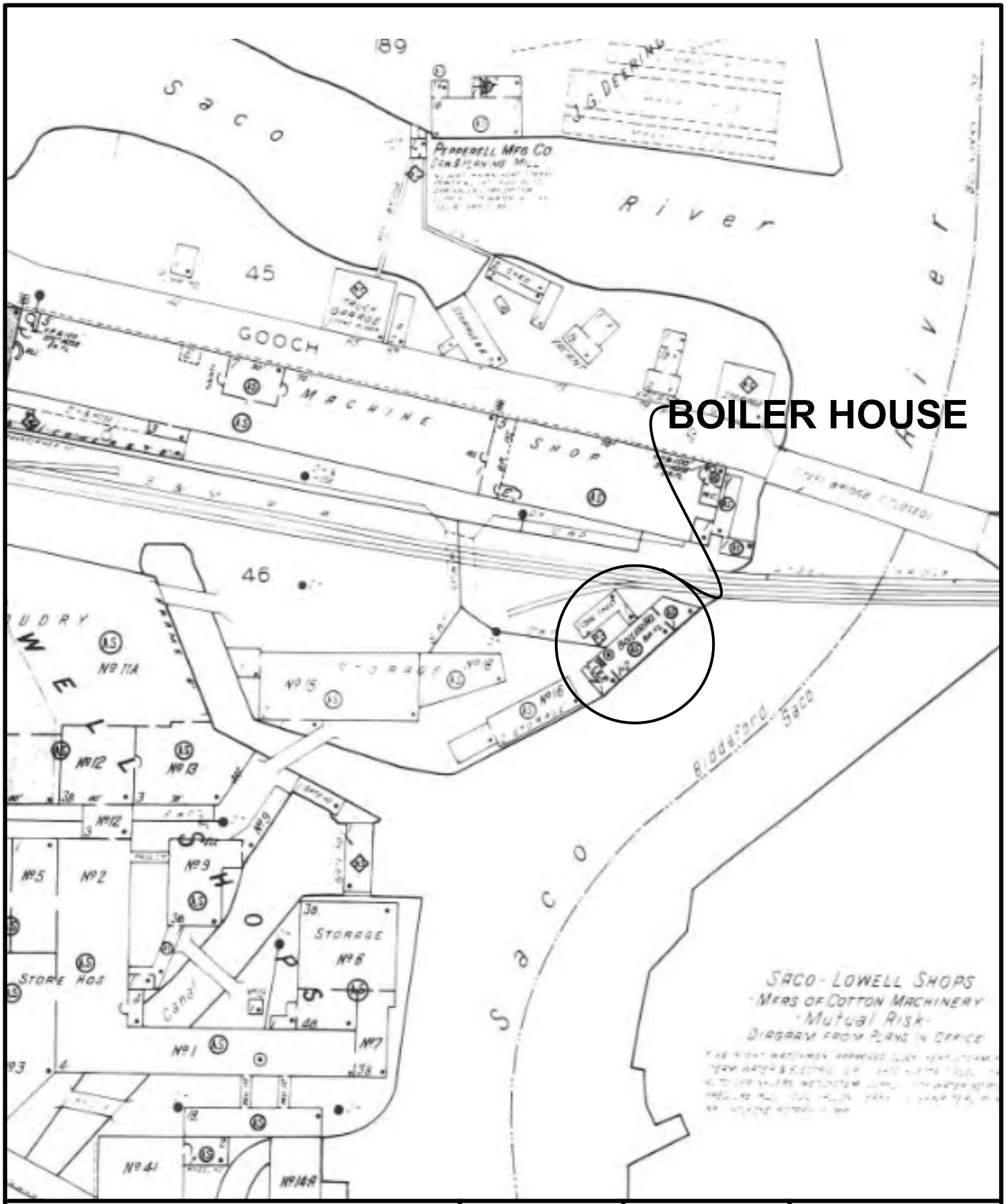

434 CONY ROAD
AUGUSTA, ME 04330
Tel.: (207) 318-7761
Fax: (207) 629-9094
www.summitgeoeng.com
SUMMIT GEOENGINEERING SERVICES


PROJ.#: 13051

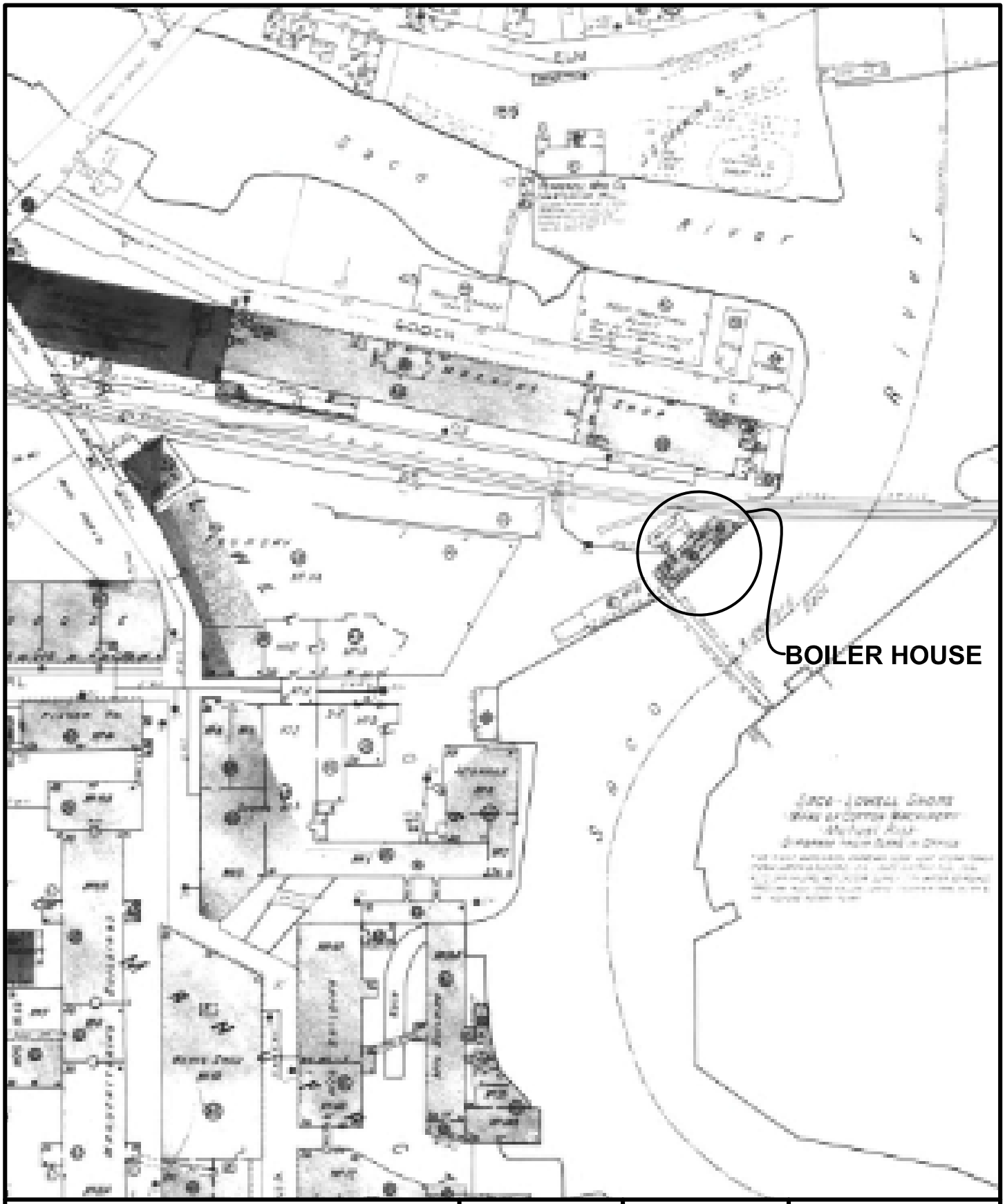
FIGURE: 7

# *Appendix A*

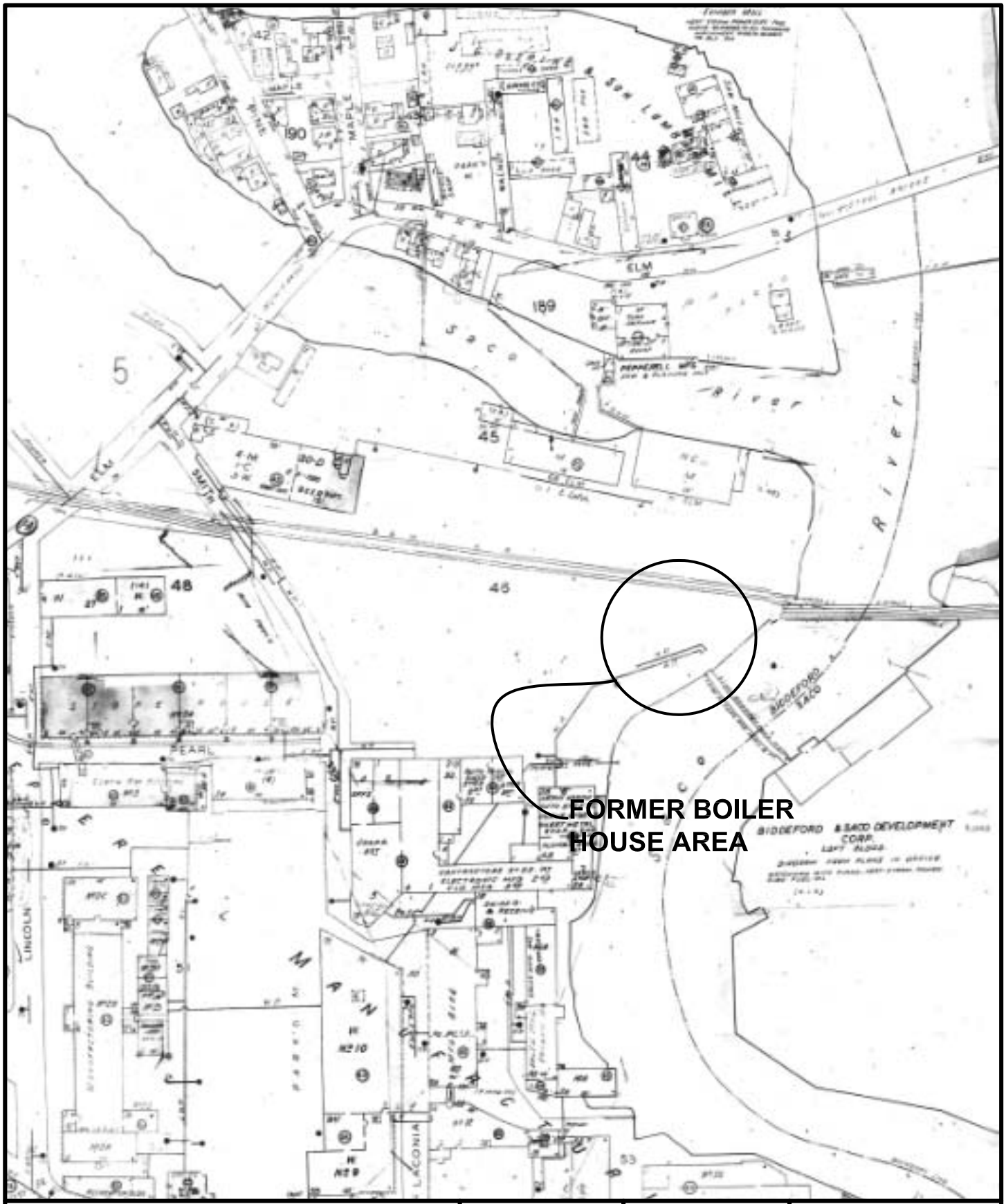
## Sanborn Fire Insurance Maps and Aerial Photos




| | | | |
|---|---|---|---|
| PROJECT TITLE: **PCB REMEDIATION BIDDEFORD, MAINE** | DWG: **A1** | BY: BMD | |
| | | DATE: 1/2014 | |
| SHEET TITLE: **MAINE ENERGY 1932 SANBORN MAP** | JN: 12-3240.1 | REV: JKC | Summit Environmental Consultants |
| | SCALE: NTS | REV DATE: 1/2014 | |

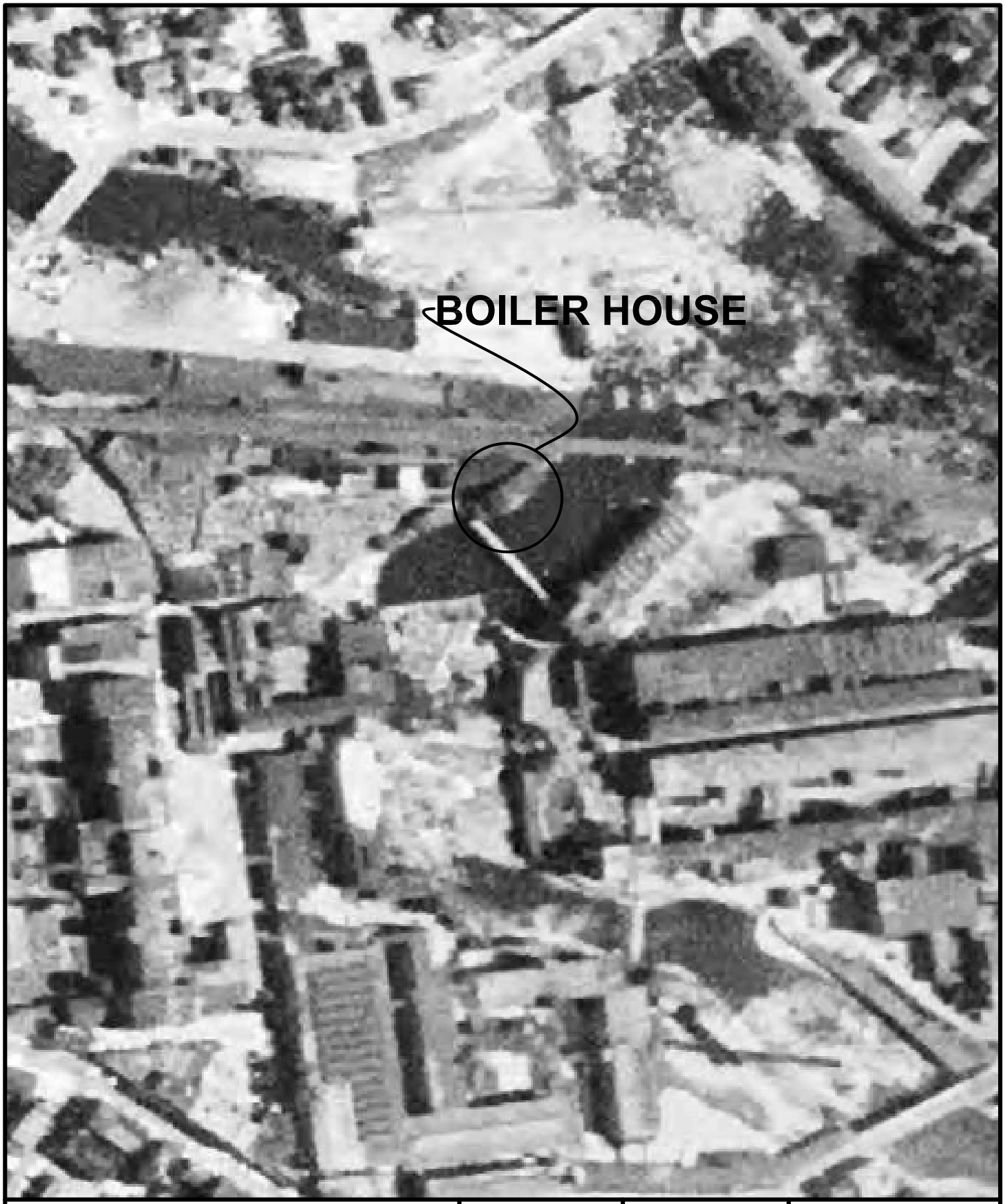



| | | | |
|---|---|---|---|
| PROJECT TITLE: **PCB REMEDIATION BIDDEFORD, MAINE** | DWG: **A2** | BY: BMD | Summit Environmental Consultants |
| | | DATE: 1/2014 | |
| SHEET TITLE: **MAINE ENERGY 1947 SANBORN MAP** | JN: 12-3240.1 | REV: JKC | |
| | SCALE: NTS | REV DATE: 1/2014 | |

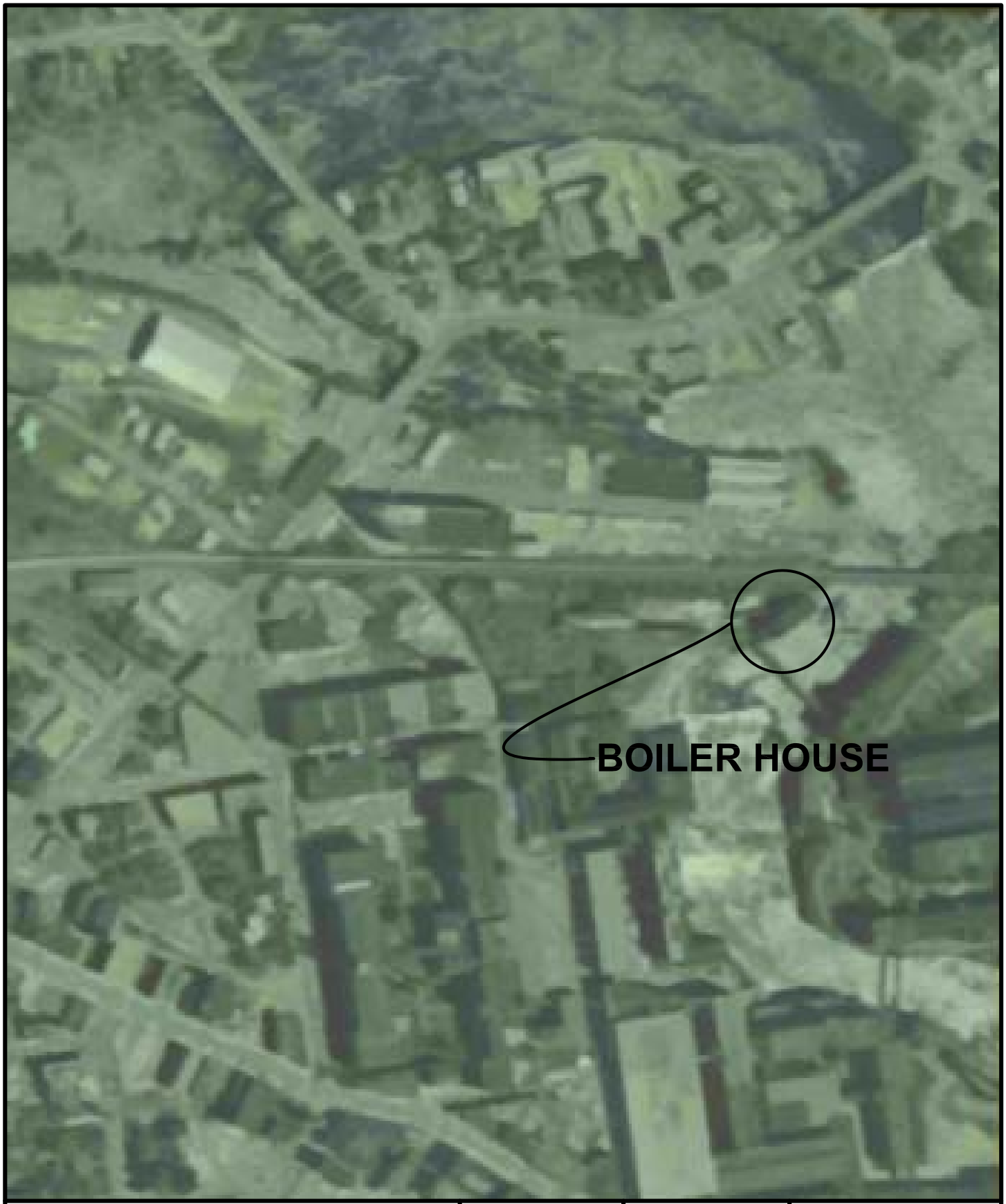



| | | | |
|---|---|---|---|
| PROJECT TITLE: **PCB REMEDIATION BIDDEFORD, MAINE** | DWG: **A3** | BY: BMD | Summit Environmental Consultants |
| | | DATE: 1/2014 | |
| SHEET TITLE: **MAINE ENERGY 1976 SANBORN MAP** | JN: 12-3240.1 | REV: JKC | |
| | SCALE: NTS | REV DATE: 1/2014 | |

| | | | |
|---|---|---|---|
| PROJECT TITLE: **PCB REMEDIATION BIDDEFORD, MAINE** | DWG: **A4** | BY: BMD | Summit Environmental Consultants |
| | | DATE: 1/2014 | |
| SHEET TITLE: **MAINE ENERGY 1956 AERIAL PHOTOGRAPHY** | JN: 12-3240.1 | REV: JKC | |
| | SCALE: NTS | REV DATE: 1/2014 | |

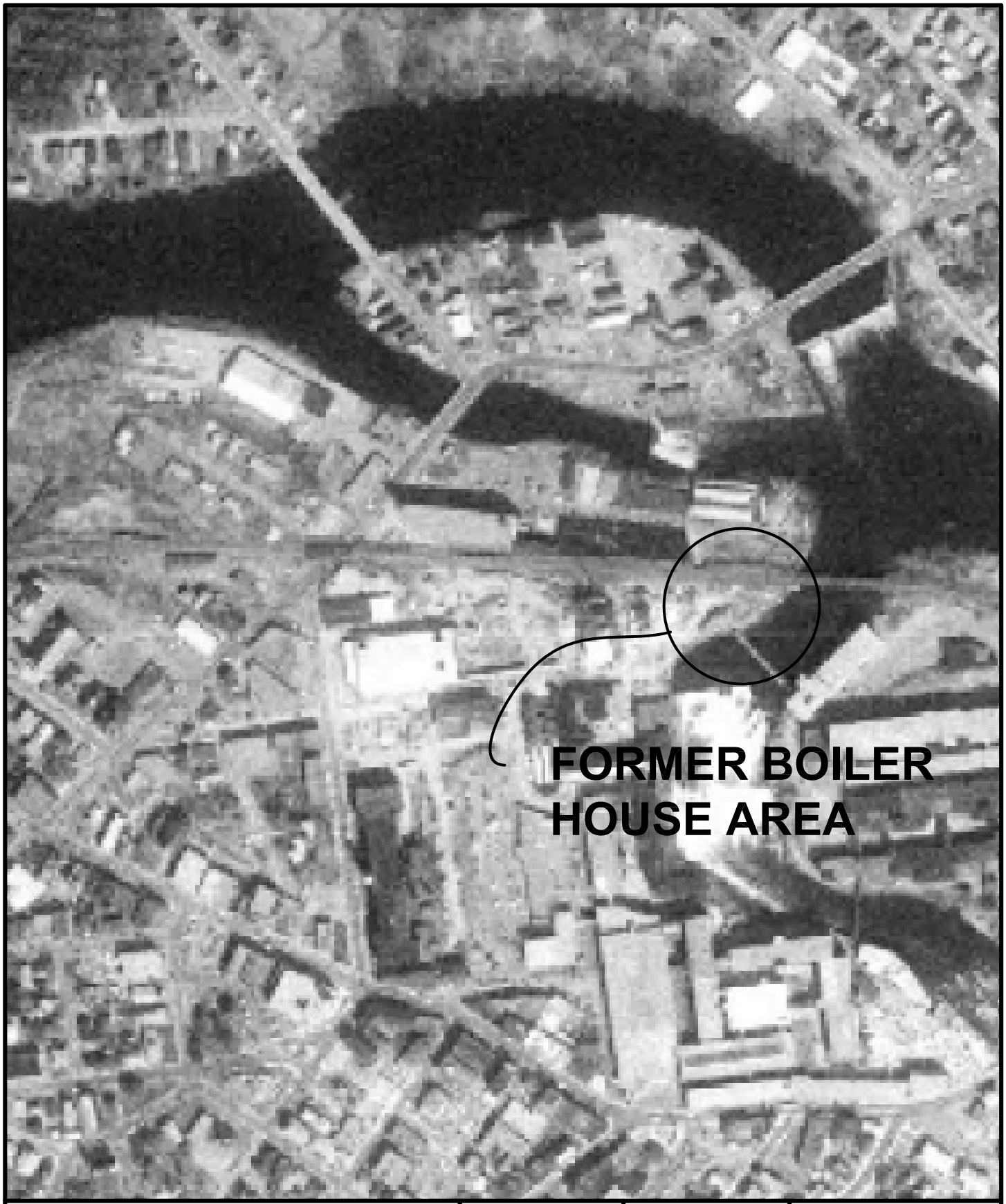



| | | | |
|---|---|---|---|
| PROJECT TITLE: **PCB REMEDIATION BIDDEFORD, MAINE** | DWG: **A5** | BY: BMD | Summit Environmental Consultants |
| | | DATE: 1/2014 | |
| SHEET TITLE: **MAINE ENERGY 1960 AERIAL PHOTOGRAPHY** | JN: 12-3240.1 | REV: JKC | |
| | SCALE: NTS | REV DATE: 1/2014 | |

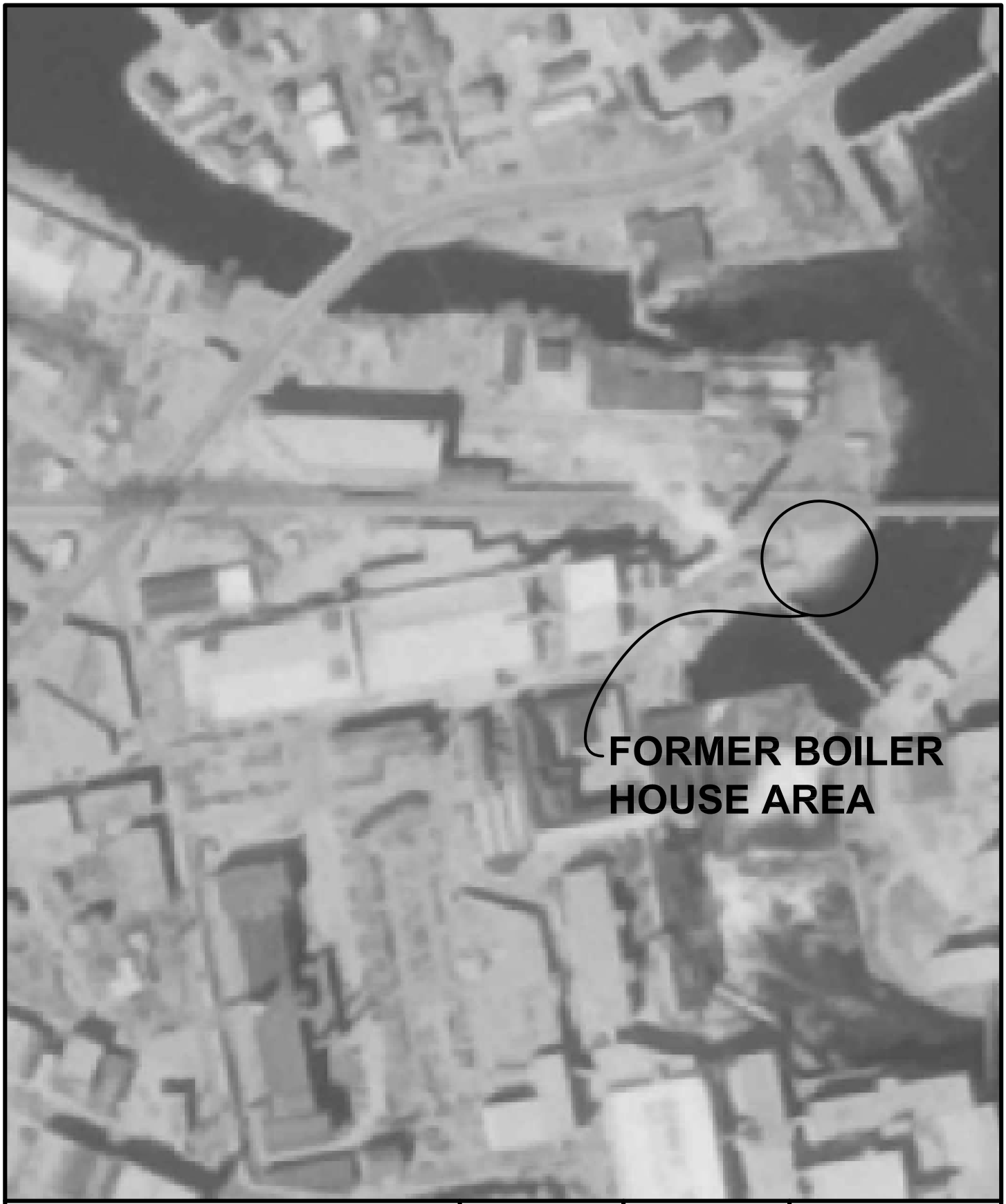



| | | | |
|---|---|---|---|
| PROJECT TITLE: **PCB REMEDIATION BIDDEFORD, MAINE** | DWG: **A6** | BY: BMD | Summit Environmental Consultants |
| | | DATE: 1/2014 | |
| SHEET TITLE: **MAINE ENERGY 1970 AERIAL PHOTOGRAPHY** | JN: 12-3240.1 | REV: JKC | |
| | SCALE: NTS | REV DATE: 1/2014 | |

| | | | |
|---|---|---|---|
| PROJECT TITLE: **PCB REMEDIATION BIDDEFORD, MAINE** | DWG: **A7** | BY: BMD | |
| | | DATE: 1/2014 | |
| SHEET TITLE: **MAINE ENERGY 1975 AERIAL PHOTOGRAPHY** | JN: 12-3240.1 | REV: JKC | Summit Environmental Consultants |
| | SCALE: NTS | REV DATE: 1/2014 | |

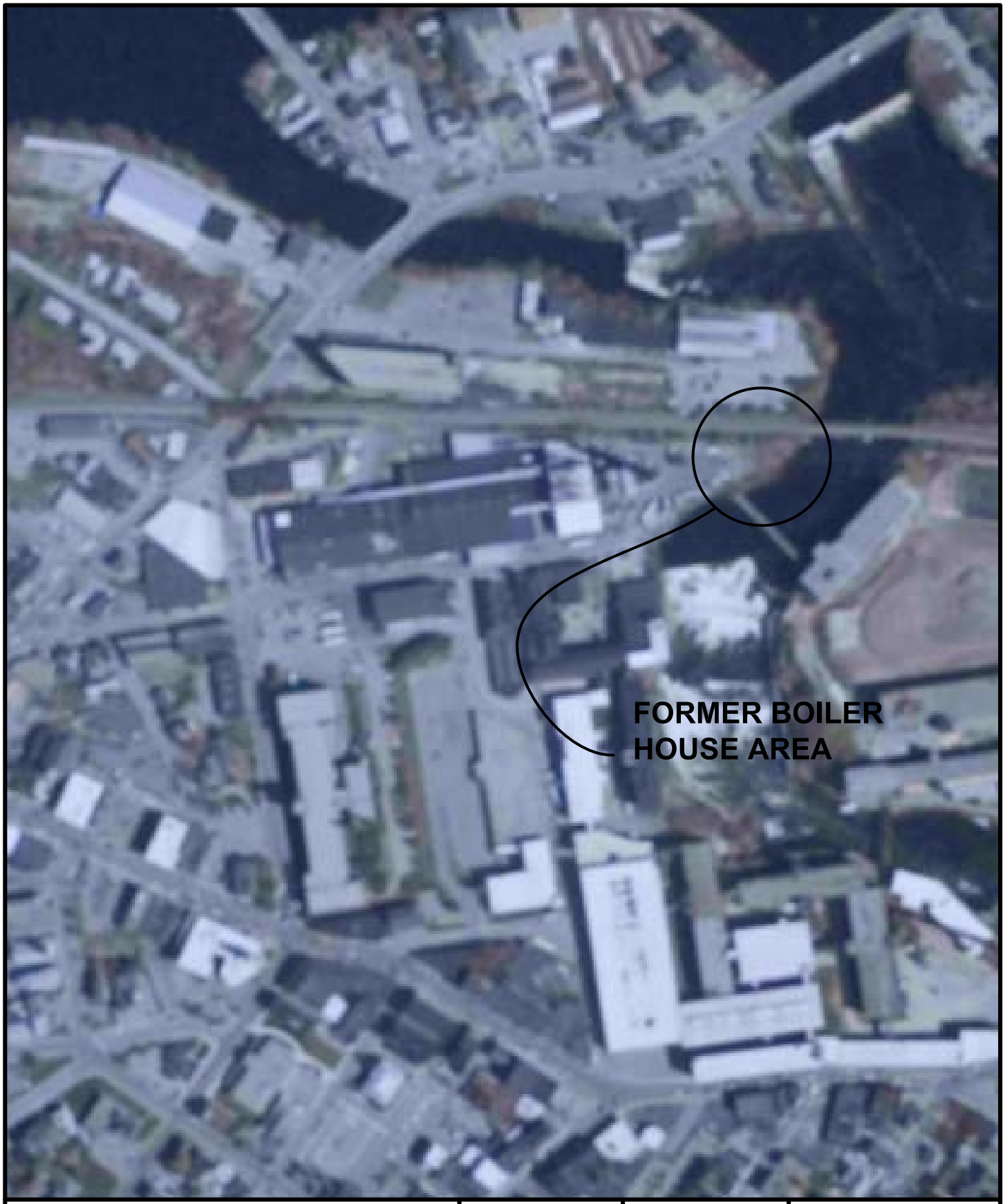



| | | | |
|---|---|---|---|
| PROJECT TITLE: PCB REMEDIATION BIDDEFORD, MAINE | DWG: A8 | BY: BMD | Summit Environmental Consultants |
| | | DATE: 1/2014 | |
| SHEET TITLE: MAINE ENERGY 1986 AERIAL PHOTOGRAPHY | JN: 12-3240.1 | REV: JKC | |
| | SCALE: NTS | REV DATE: 1/2014 | |




| | | | |
|---|---|---|---|
| PROJECT TITLE: PCB REMEDIATION BIDDEFORD, MAINE | DWG: A9 | BY: BMD | Summit Environmental Consultants |
| | | DATE: 1/2014 | |
| SHEET TITLE: MAINE ENERGY 1990 AERIAL PHOTOGRAPHY | JN: 12-3240.1 | REV: JKC | |
| | SCALE: NTS | REV DATE: 1/2014 | |

| | | | |
|---|---|---|---|
| PROJECT TITLE: **PCB REMEDIATION BIDDEFORD, MAINE** | DWG: **A10** | BY: BMD | |
| | | DATE: 1/2014 | |
| SHEET TITLE: **MAINE ENERGY 1998 AERIAL PHOTOGRAPHY** | JN: 12-3240.1 | REV: JKC | Summit Environmental Consultants |
| | SCALE: NTS | REV DATE: 1/2014 | |




| | | | |
|---|---|---|---|
| PROJECT TITLE: PCB REMEDIATION BIDDEFORD, MAINE | DWG: A11 | BY: BMD | |
| | | DATE: 1/2014 | |
| SHEET TITLE: MAINE ENERGY 2003 AERIAL PHOTOGRAPHY | JN: 12-3240.1 | REV: JKC | Summit Environmental Consultants |
| | SCALE: NTS | REV DATE: 1/2014 | |

# *Appendix B*

## Boring Logs

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG<br>Project: MAINE ENERGY PHASE III SUPPORT<br>Location: BIDDEFORD, ME | Boring #: SE-SB-201<br>Project #: 12-3259.1<br>Sheet: 1 of 1<br>Chkd by: JKC |
|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 1/10/2013 | Date Completed: 1/10/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | Split Spoon |
| Model: | 9500-VTR | Hammer: | N/A |
| Method: | Direct Push | Fall: | N/A |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/20 | 0-2.5 | | 0-3" LOAM | LOAM | |
| | | | | | 3-20" SAND & GRAVEL Fill (Sample 3-30") | SAND & GRAVEL | |
| 2 | | | | | | | |
| | SS-2 | 30/9 | 2.5-5' | | 0-6" Same As Above | | |
| | | | | | 6-9" Fill with BRICK (Sample 4-5') | Fill with BRICK | |
| 4 | | | | | | | |
| 6 | | | | | | | |
| 8 | | | | | | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Auger refusal @2.5' move to SE-SB-202
2. Samples taken at the following intervals: 3"-4', and 4'-5'
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG<br>Project: MAINE ENERGY PHASE III SUPPORT<br>Location: BIDDEFORD, ME | Boring #: SE-SB-202<br>Project #: 12-3259.1<br>Sheet: 1 of 1<br>Chkd by: JKC |
|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 1/10/2013 | Date Completed: 1/10/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | Split Spoon |
| Model: | 9500-VTR | Hammer: | N/A |
| Method: | Direct Push | Fall: | N/A |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/20 | 0-2.5 | | 0-4" Black SAND & GRAVEL | SAND & GRAVEL | |
| | | | | | 4-6" ROCK | ROCK | |
| | | | | | 6-20" Brown Fine to Medium SAND, Trace GRAVEL (Sample at 4"-2.5') | SAND Trace GRAVEL | |
| 2 | | | | | | | |
| 4 | | | | | | | |
| | SS-2 | 30/12 | 2.5-5 | | 0-3" Same as above | | |
| 6 | SS-3-3 | 6/6 | 5-5.5' | | 3-6" ROCK | ROCK | |
| | | | | | 6-12" Black ASH with GRAVEL (Sample at 4-5')<br>0-6" Same as above | ASH w/ GRAVEL | |
| | | | | | Refusal @ 5.5' | | |
| 8 | | | | | | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Refusal @ 5.5'
2. Samples taken at the following intervals: 4"-2.5', and 4'-5'
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG | Boring #: | SE-SB-203 |
|---|---|---|---|
| | Project: MAINE ENERGY PHASE III SUPPORT | Project #: | 12-3259.1 |
| | Location: BIDDEFORD, ME | Sheet: | 1 of 1 |
| | | Chkd by: | JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 1/10/2013 | Date Completed: 1/10/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | Split Spoon |
| Model: | 9500-VTR | Hammer: | N/A |
| Method: | Direct Push | Fall: | N/A |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/14 | 0-2.5' | | 0-2" Black SAND | SAND | |
| | | | | | 2-14" Brown SAND Trace GRAVEL (Fill) (Sample 2"-2.5') | SAND Trace GRAVEL | |
| 2 | | | | | | | |
| | SS-2 | 30/24 | 2.5-5' | | 0-3" ROCK | ROCK | |
| | | | | | 3-6" SAND and GRAVEL | SAND & GRAVEL | |
| 4 | | | | | 6-15" Black ASH and GRAVEL (Sample 3'-4') | ASH & GRAVEL | |
| | | | | | 15-24" CONCRETE and GRAVEL (Sample 4'-5') | CONCRETE & GRAVEL | |
| | SS-3 | 30/26 | 5-7.5' | | 0-26" SILTY-SAND, Trace Brick (Sample 5'-7.5') | SILTY SAND | |
| 6 | | | | | | | |
| | SS-4 | 30/16 | 7.5-10' | | 0-6" Same As Above<br>6-16" ROCK Fragments | ROCK | |
| 8 | | | | | | | |
| 10 | | | | | Refusal @ 10' | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Samples taken at the following intervals: 2"-2.5', 3'-4', 4'-5', 5'-7.5'
2. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG | Boring #: | SE-SB-204 |
|---|---|---|---|
| | Project: MAINE ENERGY PHASE III SUPPORT | Project #: | 12-3259.1 |
| | Location: BIDDEFORD, ME | Sheet: | 1 of 1 |
| | | Chkd by: | JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 1/10/2013 | Date Completed: 1/10/2013 |

| DRILLING METHOD | | SAMPLER | | ESTIMATED GROUND WATER DEPTH | | | |
|---|---|---|---|---|---|---|---|
| Vehicle: | AMS | Type: | Split Spoon | Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
| Model: | 9500-VTR | Hammer: | N/A | See Report | | | |
| Method: | Direct Push | Fall: | N/A | | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/24 | 0-2.5' | | 0-3" LOAM | LOAM | |
| | | | | | 3-24" Brown SAND and GRAVEL (Fill) | SAND & GRAVEL | |
| | | | | | (Sample 3"-3') | | |
| 2 | | | | | | | |
| | SS-2 | 30/22 | 2.5-5' | | 0-6" Same As Above | | |
| | | | | | 6-22" Black ASH with ROCK | ASH with ROCK | |
| | | | | | (Sample 3'-5') | | |
| 4 | | | | | | | |
| | SS-3 | 30/16 | 2.5-5' | | 0-2" Same As Above | | |
| 6 | | | | | 2-6" ROCK Fragments | ROCK | |
| | | | | | Refusal @ 5' | | |
| 8 | | | | | | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Samples taken at the following intervals: 3"-3', 3'-5'
2. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG<br>Project: MAINE ENERGY PHASE III SUPPORT<br>Location: BIDDEFORD, ME | Boring #: SE-SB-205<br>Project #: 12-3259.1<br>Sheet: 1 of 1<br>Chkd by: JKC |
|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 1/10/2013 | Date Completed: 1/10/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | Split Spoon |
| Model: | 9500-VTR | Hammer: | N/A |
| Method: | Direct Push | Fall: | N/A |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/22 | 0-2.5' | | 0-3" LOAM | LOAM | |
| | | | | | 3-22" Brown Fine SAND and GRAVEL (Fill) | | |
| | | | | | (Sample 3"-3.0') | | |
| 2 | | | | | | SAND & GRAVEL | |
| | SS-2 | 30/24 | 2.5-5' | | 0-4" Same As Above | | |
| | | | | | 4-8" ROCK | ROCK | |
| 4 | | | | | 8-10" ASH | ASH | |
| | | | | | 10-24" ROCK and Brown Coarse SAND | | |
| | SS-3 | 30/5 | 5-7.5' | | 0-5" Same As Above | | |
| 6 | | | | | | | |
| | | | | | (Sample 3.5'-7.5') | ROCK & SAND | |
| 8 | SS-4 | 30/14 | 7.5-10' | | 0-14" Same As Above | | |
| 10 | | | | | | | |
| | SS-5 | 30/26 | 10-12.5' | | 0-3" Same As Above | | |
| | | | | | 3-26" Brownish-Gray SILTY-CLAY | | |
| | | | | | moist with Trace GRAVEL (Sample 10.5-12') | SILTY-CLAY | |
| 12 | | | | | | | |
| | | | | | Cease @ 12.5' | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Samples taken at the following intervals: 3"-3', 3.5'-7', 10.5-12.5'
2. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG | Boring #: | SE-SB-206 |
|---|---|---|---|
| | Project: MAINE ENERGY PHASE III SUPPORT | Project #: | 12-3259.1 |
| | Location: BIDDEFORD, ME | Sheet: | 1 of 1 |
| | | Chkd by: | JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 1/10/2013 | Date Completed: 1/10/2013 |

| DRILLING METHOD | | SAMPLER | | ESTIMATED GROUND WATER DEPTH | | | |
|---|---|---|---|---|---|---|---|
| Vehicle: | AMS | Type: | Split Spoon | Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
| Model: | 9500-VTR | Hammer: | N/A | See Report | | | |
| Method: | Direct Push | Fall: | N/A | | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/26 | 0-2.5' | | 0-3" LOAM | LOAM | |
| | | | | | 3-16" Brown SAND and GRAVEL | SAND & GRAVEL | |
| | | | | | 16-26" ROCK Fragments, Trace SAND | | |
| 2 | | | | | (Sample 3"-2') | | |
| | SS-2 | 30/10 | 2.5-5' | | 0-10" Same As Above | | |
| 4 | | | | | | | |
| | SS-3 | 30/8 | 5-7.5' | | 0-8" Same As Above | | |
| 6 | | | | | | ROCK, Trace SAND | |
| 8 | SS-4 | 30/8 | 7.5-10' | | 0-8" Same As Above | | |
| 10 | | | | | | | |
| | SS-5 | 30/18 | 10-12.5' | | 0-12" Same As Above (Sample 2'-12') | | |
| | | | | | 12-18" ROCK | ROCK | |
| | | | | | Cease @ 12.5' | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Samples taken at the following intervals: 3"-2', 2'-12'
2. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG<br>Project: MAINE ENERGY PHASE III SUPPORT<br>Location: BIDDEFORD, ME | Boring #: SE-SB-207<br>Project #: 12-3259.1<br>Sheet: 1 of 1<br>Chkd by: JKC |
|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 1/10/2013 | Date Completed: 1/10/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | Split Spoon |
| Model: | 9500-VTR | Hammer: | N/A |
| Method: | Direct Push | Fall: | N/A |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/17 | 0-2.5' | | 0-3" LOAM | LOAM | |
| | | | | | 3-17" Black SAND & GRAVEL (Fill) | SAND & GRAVEL | |
| 2 | | | | | (Sample 3"-3') | | |
| | SS-2 | 30/20 | 2.5-5' | | 0-6" Same As Above | | |
| | | | | | 6-18" Black ASH and ROCK | ASH & ROCK | |
| 4 | | | | | 18-20" ROCK | ROCK | |
| | | | | | (Sample 3'-4.5') | | |
| | SS-3 | 24/16 | 5-7' | | 0-10" Brown SAND and GRAVEL | SAND & GRAVEL | |
| 6 | | | | | 10-16" ROCK (Sample 5'-6') | ROCK | |
| | | | | | Refusal @ 7' | | |
| 8 | | | | | | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Samples taken at the following intervals: 3"-3', 3'-4.5', 5'-6'
2. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG | Boring #: | SE-SB-208 |
|---|---|---|---|
| | Project: MAINE ENERGY PHASE III SUPPORT | Project #: | 12-3259.1 |
| | Location: BIDDEFORD, ME | Sheet: | 1 of 1 |
| | | Chkd by: | JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 1/10/2013 | Date Completed: 1/10/2013 |

| DRILLING METHOD | | SAMPLER | | ESTIMATED GROUND WATER DEPTH | | | |
|---|---|---|---|---|---|---|---|
| Vehicle: | AMS | Type: | Split Spoon | Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
| Model: | 9500-VTR | Hammer: | N/A | See Report | | | |
| Method: | Direct Push | Fall: | N/A | | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/20 | 0-2.5' | | 0-3" LOAM | LOAM | |
| | | | | | 3-20" Brown SAND & GRAVEL (Sample 3"-4') | SAND & GRAVEL | |
| 2 | | | | | | | |
| | SS-2 | 30/4 | 2.5'-5' | | 0-1" Same As Above | | |
| | | | | | 1-4" BRICK and SAND (Fill) (Sample 4'-6') | BRICK & SAND | |
| 4 | | | | | | | |
| | SS-3 | 24/16 | | | 0-12" Sam As Above | | |
| 6 | | | | | 12-16" Gray SAND and GRAVEL (Sample 6'-8') | SAND & GRAVEL | |
| 8 | SS-4 | 30/20 | 7.5-10' | | 0-6" Same As Above | | |
| | | | | | 6-20" Brown SILTY-SAND, Moist | SILTY-SAND | |
| 10 | | | | | (Sample 8'-10') | | |
| | | | | | Refusal @ 10' | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Samples taken at the following intervals: 3"-4', 4'-6', 6'-8', 8-10'
2. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG<br>Project: MAINE ENERGY PHASE III SUPPORT<br>Location: BIDDEFORD, ME | Boring #: SE-SB-209<br>Project #: 12-3259.1<br>Sheet: 1 of 1<br>Chkd by: JKC |
|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 1/10/2013 | Date Completed: 1/10/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | Split Spoon |
| Model: | 9500-VTR | Hammer: | N/A |
| Method: | Direct Push | Fall: | N/A |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/20 | 0-2.5' | | 0-2" CONCRETE | CONCRETE | |
| | | | | | 2-20" Brown SAND & GRAVEL (Fill) | SAND & GRAVEL | |
| 2 | | | | | | | |
| | SS-2 | 30/18 | 2.5'-5' | | 0-3" Same As Above (Sample 2"-3') | | |
| | | | | | 3-18" Black SAND and BRICK | SAND & BRICK | |
| 4 | | | | | | | |
| | SS-3 | 30/16`5-7.5' | | | 0-16" Same As Above | | |
| 6 | | | | | | | |
| | SS-4 | 30/20 | 7.5-10' | | 0-15" Same As Above | | |
| 8 | | | | | 15-20" ASH (Clinker) | ASH | |
| | | | | | (Sample 3'-9') | | |
| 10 | | | | | | | |
| | SS-5 | 30/16 | 10-12.5 | | 0-6" Same as Above | | |
| 12 | | | | | | | |
| | | | | | (Sample 9'-12.5') | | |
| | | | | | Cease @ 12.5' | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Voids noted from 9-10'
2. Samples taken at the following intervals: 2"-3', 3'-9', 9'-12.5'
2. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG | Boring #: | SE-SB-210 |
|---|---|---|---|
| | Project: MAINE ENERGY PHASE III SUPPORT | Project #: | 12-3259.1 |
| | Location: BIDDEFORD, ME | Sheet: | 1 of 1 |
| | | Chkd by: | JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 1/10/2013 | Date Completed: 1/10/2013 |

| DRILLING METHOD | | SAMPLER | | ESTIMATED GROUND WATER DEPTH | | | |
|---|---|---|---|---|---|---|---|
| Vehicle: | AMS | Type: | Split Spoon | Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
| Model: | 9500-VTR | Hammer: | N/A | See Report | | | |
| Method: | Direct Push | Fall: | N/A | | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 20/10 | 0-1.75' | | 0-20" Black SILTY-SAND (Sample 0-20") | SILTY-SAND | |
| 2 | | | | | Refusal @ 20" | | |
| 4 | | | | | | | |
| 6 | | | | | | | |
| 8 | | | | | | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Boring reached refusal at 20" in three different locations
2. Samples taken at the following intervals: 0-20"
2. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG<br>Project: MAINE ENERGY PHASE III SUPPORT<br>Location: BIDDEFORD, ME | Boring #: SE-SB-211<br>Project #: 12-3259.1<br>Sheet: 1 of 1<br>Chkd by: JKC |
|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 1/10/2013 | Date Completed: 1/10/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | Split Spoon |
| Model: | 9500-VTR | Hammer: | N/A |
| Method: | Direct Push | Fall: | N/A |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/22 | 0-2.5' | | 0-2" LOAM | LOAM | |
| | | | | | 2-22" Brown SAND & GRAVEL (Fill) (Sample 2"-3.5') | SAND & GRAVEL | |
| 2 | | | | | | | |
| | SS-2 | 30/20 | 2.5-5' | | 0-16" Same As Above | | |
| 4 | | | | | 16-20" Dark Brown SAND and BRICK | SAND & BRICK | |
| | SS-3 | 30/10 | 5-7.5' | | 0-10" Same As Above (Sample 4-9') | | |
| 6 | | | | | | | |
| 8 | SS-4 | 18/5 | 7.5-9' | | 0-5" Same As Above | | |
| | | | | | Refusal @ 9' | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Samples taken at the following intervals: 2"-3.5', 4'-9'
2. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG | Boring #: | SE-SB-212 |
|---|---|---|---|
| | Project: MAINE ENERGY PHASE III SUPPORT | Project #: | 12-3259.1 |
| | Location: BIDDEFORD, ME | Sheet: | 1 of 1 |
| | | Chkd by: | JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 1/10/2013 | Date Completed: 1/10/2013 |

| DRILLING METHOD | | SAMPLER | | ESTIMATED GROUND WATER DEPTH | | | |
|---|---|---|---|---|---|---|---|
| Vehicle: | AMS | Type: | Split Spoon | Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
| Model: | 9500-VTR | Hammer: | N/A | See Report | | | |
| Method: | Direct Push | Fall: | N/A | | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 20/15 | 0-20" | | 0-2" LOAM | LOAM | |
| | | | | | 2-15" Brown SAND and GRAVEL | SAND & GRAVEL | |
| 2 | | | | | Refusal @ 20" | | |
| 4 | | | | | | | |
| 6 | | | | | | | |
| 8 | | | | | | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Boring reached refusal at 20" in three locations
2. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG<br>Project: MAINE ENERGY PHASE II SUPPORT<br>Location: BIDDEFORD, ME | Boring #: SE-SB-213<br>Project #: 12-3259.1<br>Sheet: 1 of 1<br>Chkd by: JKC |
|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/19/2013 | Date Completed: 2/19/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | 24" SPT |
| Model: | 9500-VTR | Hammer: | 140LR |
| Method: | H.S.A. | Fall: | 30" |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/15 | 0-2.5' | | 0-3" Asphalt | ASPHALT | |
| | | | | | 3-15" Brown SAND & GRAVEL (Fill) | SAND & GRAVEL | |
| 2 | | | | | | | |
| | SS-2 | 30/30 | 2.5-5' | | 0-6" Blackish-Brown MEDIUM SAND | SAND | |
| | | | | | 6-15" Brown MEDIUM SAND & GRAVEL | SAND & GRAVEL | |
| 4 | | | | | 15-18" ROCK | ROCK | |
| | | | | | 18-28" Brown SAND & GRAVEL | SAND & GRAVEL | |
| | | | | | 28-30" BRICK (Demo Debris) | DEMO DEBRIS | |
| | SS-3 | 30/30 | 5-7.5' | | 0-10" Brown MEDIUM SAND | SAND | |
| 6 | | | | | 10-14" ASH & BRICK | DEMO DEBRIS | |
| | | | | | 14-18" ROCK | ROCK | |
| | | | | | 18-22" CONCRETE<br>22-30" BRICK & SAND | DEMO DEBRIS | |
| 8 | | | | | REFUSAL @ 7.5' | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Refusal @ 7.5'
2. Samples taken at the following intervals: (0-2')(2-4')(4-6')(6-7.5')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG | Boring #: | SE-SB-214 |
|---|---|---|---|
| | Project: MAINE ENERGY PHASE II SUPPORT | Project #: | 12-3259.1 |
| | Location: BIDDEFORD, ME | Sheet: | 1 of 1 |
| | | Chkd by: | JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/19/2013 | Date Completed: 2/19/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | 24" SPT |
| Model: | 9500-VTR | Hammer: | 140LR |
| Method: | H.S.A. | Fall: | 30" |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/23 | 0-2.5' | | 0-4" LOAM & ORGANIC MATERIAL | LOAM | |
| | | | | | 4-19" Brown SAND & GRAVEL (Fill) | SAND & GRAVEL | |
| | | | | | 19-23" Reddish-Brown FINE SAND | SAND | |
| 2 | | | | | | | |
| | SS-2 | 30/21 | 2.5-5' | | 0-3" Brown SAND & GRAVEL | SAND & GRAVEL | |
| | | | | | 3-5" ROCK | ROCK | |
| 4 | | | | | 5-8" ROCK & SANDY GRAVEL | ROCK SAND GRAVEL | |
| | | | | | 8-14" Black ASH & ROCK | DEMO DEBRIS | |
| | | | | | 14-20" ROCK | ROCK | |
| | | | | | 20-21" ASH | DEMO DEBRIS | |
| 6 | SS-3 | 24/24 | 5-7.1' | | 0-12" Black ASH, SAND & GRAVEL | DEMO DEBRIS | |
| | | | | | 12-14" BRICK w/ Sand & Ash | | |
| | | | | | 14-16" CONCRETE | | |
| | | | | | 16-24" BRICK w/ Sand & Ash | | |
| 8 | | | | | REFUSAL @ 7.1' | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Refusal @ 7.1'
2. Samples taken at the following intervals: (0-2')(2-4')(4-6')(6-7')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG | Boring #: | SE-SB-215 |
|---|---|---|---|
| | Project: MAINE ENERGY PHASE II SUPPORT | Project #: | 12-3259.1 |
| | Location: BIDDEFORD, ME | Sheet: | 1 of 1 |
| | | Chkd by: | JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/19/2013 | Date Completed: 2/19/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | 24" SPT |
| Model: | 9500-VTR | Hammer: | 140LR |
| Method: | H.S.A. | Fall: | 30" |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/20 | 0-2.5' | | 0-3" ASPHALT | ASPHALT | |
| | | | | | 3-15" Brown SAND & GRAVEL (Fill) | SAND & GRAVEL | |
| | | | | | 15-16" ROCK | ROCK | |
| 2 | | | | | 16-20" Brown SAND & GRAVEL (Fill) | SAND & GRAVEL | |
| | SS-2 | 30/26 | 2.5-5' | | 0-2" Brown SAND & GRAVEL (Fill) | | |
| | | | | | 2-8" Black ASH & SILTY SAND | DEMO DEBRIS | |
| 4 | | | | | 8-15" Brown SAND & GRAVEL | SAND & GRAVEL | |
| | | | | | 15-17" BRICK | DEMO DEBRIS | |
| | | | | | 17-26" Brown SAND & GRAVEL (Fill) w Ash & Rock | SAND & GRAVEL | |
| | SS-3 | 30/28 | 5-7.5' | | 0-3" Brown SAND & GRAVEL (Fill) w/ Ash & Rock | | |
| 6 | | | | | 3-4" ROCK | ROCK | |
| | | | | | 4-7" BRICK with Ash & Sand | DEMO DEBRIS | |
| | | | | | 7-9" CONCRETE | | |
| | | | | | 9-16" Brownish Red SAND & GRAVEL | SAND & GRAVEL | |
| 8 | | | | | 16-28" BRICK with Ash & Sand | DEMO DEBRIS | |
| | SS-4 | 30/15 | 7.5-10' | | 0-3" BRICK with Ash & Sand | | |
| | | | | | 3-15" Black ASH trace brick | | |
| | | | | | REFUSAL @ 10' | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Refusal @ 10'
2. Samples taken at the following intervals: (0-2')(2-4')(4-6')(6-8')(8-10')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG<br>Project: MAINE ENERGY PHASE II SUPPORT<br>Location: BIDDEFORD, ME | Boring #: SE-SB-216<br>Project #: 12-3259.1<br>Sheet: 1 of 1<br>Chkd by: JKC |
|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/19/2013 | Date Completed: 2/19/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | 24" SPT |
| Model: | 9500-VTR | Hammer: | 140LR |
| Method: | H.S.A. | Fall: | 30" |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/16 | 0-2.5' | | 0-2.5" ASPHALT | ASPHALT | |
| | | | | | 2.5-24" Brown SAND & GRAVEL (Fill) | SAND & GRAVEL | |
| 2 | | | | | | | |
| | SS-2 | 30/28 | 2.5-5' | | 0-3" Brown SAND & GRAVEL (Fill) | | |
| | | | | | 3-10" Black SAND (Fill) | SAND | |
| 4 | | | | | 10-14" BRICK | DEMO DEBRIS | |
| | SS-3 | 30/16 | 5-6.8' | | 14-20" CONCRETE (Fill) | | |
| | | | | | 20-28" CONCRETE & SAND (Fill) | | |
| | | | | | REFUSAL @ 6.8' | | |
| 6 | | | | | | | |
| 8 | | | | | | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Refusal @ 10'
2. Samples taken at the following intervals: (2.5-24")(2-4')(4-6')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG | Boring #: | SE-SB-217 |
|---|---|---|---|
| | Project: MAINE ENERGY PHASE II SUPPORT | Project #: | 12-3259.1 |
| | Location: BIDDEFORD, ME | Sheet: | 1 of 1 |
| | | Chkd by: | JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/19/2013 | Date Completed: 2/19/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | 24" SPT |
| Model: | 9500-VTR | Hammer: | 140LR |
| Method: | H.S.A. | Fall: | 30" |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/12 | 0-2.5' | | 0-10" Black SAND, trace gravel | SAND | |
| | | | | | 10-12" Black ORGANIC MATERIAL | LOAM | |
| 2 | | | | | | | |
| | SS-2 | 30/16 | 2.5-5' | | 0-10" Black ORGANIC MATERIAL | | |
| | | | | | 10-12" Brown CLAY | CLAY | |
| 4 | | | | | 12-16" Brown SAND & GRAVEL | SAND & GRAVEL | |
| | SS-3 | 30/0 | 5-7.5' | | NO RECOVERY | | |
| 6 | | | | | | | |
| | SS-4 | 30/3 | 7.5-10 | | 0-3" Black ASH & SAND | DEMO DEBRIS | |
| 8 | | | | | | | |
| | | | | | CEASE @ 10' (HOLE COLLAPSED) | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Cease @ 10'
2. Samples taken at the following intervals: (0-2')(2-4')(4-6')(8-10')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG<br>Project: MAINE ENERGY PHASE II SUPPORT<br>Location: BIDDEFORD, ME | Boring #: SE-SB-218<br>Project #: 12-3259.1<br>Sheet: 1 of 1<br>Chkd by: JKC |
|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/19/2013 | Date Completed: 2/19/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | 24" SPT |
| Model: | 9500-VTR | Hammer: | 140LR |
| Method: | H.S.A. | Fall: | 30" |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 24/18 | 0-2' | | 0-3" LOAM | LOAM | |
| | | | | | 3-10" Brown SAND & GRAVEL | SAND & GRAVEL | |
| | | | | | 10-18" Brown FINE SAND | SAND | |
| 2 | | | | | | | |
| | SS-2 | 24/20 | 2-4" | | 0-10" Brown FINE SAND | | |
| | | | | | 10-20" Gray SILTY CLAY | CLAY | |
| 4 | | | | | | | |
| | | | | | CEASE @ 4' | | |
| 6 | | | | | | | |
| 8 | | | | | | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Cease @ 4'
2. Samples taken at the following intervals: (0-2')(2-4')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG<br>Project: MAINE ENERGY PHASE II SUPPORT<br>Location: BIDDEFORD, ME | Boring #: SE-SB-219<br>Project #: 12-3259.1<br>Sheet: 1 of 1<br>Chkd by: JKC |
|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/19/2013 | Date Completed: 2/19/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | 24" SPT |
| Model: | 9500-VTR | Hammer: | 140LR |
| Method: | H.S.A. | Fall: | 30" |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/16 | 0-2.5' | | 0-3" LOAM & ORGANIC MATERIAL | LOAM | |
| | | | | | 3-6" Dark brown SAND & GRAVEL | SAND & GRAVEL | |
| | | | | | 6-14" Brown FINE TO MEDIUM SAND, trace gravel | | |
| 2 | | | | | 14-16" CONCRETE | DEMO DEBRIS | |
| | SS-2 | 30/16 | 2.5-5' | | 0-10" SAND AND GRAVEL | SAND & GRAVEL | |
| | | | | | 10-14" WOOD | DEMO DEBRIS | |
| 4 | | | | | 14-16" SAND & GRAVEL | SAND & GRAVEL | |
| | SS-3 | 30/5 | 5-7.5' | | 0-5" GRAVEL | GRAVEL | |
| 6 | | | | | | | |
| 8 | SS-4 | 30/10 | 7.5-10' | | 0-10" GRAVEL | | |
| 10 | | | | | REFUSAL @ 10' | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Refusal @ 10'
2. Samples taken at the following intervals: (0-2')(2-4')(4-6')(6-8')(8-10')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG | Boring #: | SE-SB-220 |
|---|---|---|---|
| | Project: MAINE ENERGY PHASE II SUPPORT | Project #: | 12-3259.1 |
| | Location: BIDDEFORD, ME | Sheet: | 1 of 1 |
| | | Chkd by: | JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/19/2013 | Date Completed: 2/19/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | 24" SPT |
| Model: | 9500-VTR | Hammer: | 140LR |
| Method: | H.S.A. | Fall: | 30" |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/15 | 0-2.5' | | 0-4" LOAM | LOAM | |
| | | | | | 4-15" Brown SAND & GRAVEL (Fill) | SAND & GRAVEL | |
| 2 | | | | | | | |
| | SS-2 | 30/16 | 2.5-5' | | 0-2" Brown SAND & GRAVEL (Fill) | | |
| | | | | | 2-4" ASH | DEMO DEBRIS | |
| 4 | | | | | 4-8" Brown SAND & BRICK | SAND, DEBRIS | |
| | | | | | 8-10" ROCK, 10-15" ASH & BRICK | ROCK, DEBRIS | |
| | | | | | 15-16" CONCRETE | DEMO DEBRIS | |
| | SS-3 | 30/16 | 5-7.5' | | 0-6" ASH & BRICK | | |
| 6 | | | | | 6-16" Black ASH, trace sand | DEBRIS, SAND | |
| 8 | SS-4 | 30/16 | 7.5-10' | | 0-16" Black ASH, trace sand | | |
| 10 | | | | | | | |
| | SS-5 | 12/8 | 10-11' | | 0-3" Black ASH, trace sand | | |
| | | | | | 3-8" ROCK | ROCK | |
| | | | | | REFUSAL @ 11' | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Refusal @ 11'
2. Samples taken at the following intervals: (0-2')(2-4')(4-6')(6-8')(8-10')(10-11')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG | Boring #: | SE-SB-221 |
|---|---|---|---|
| | Project: MAINE ENERGY PHASE II SUPPORT | Project #: | 12-3259.1 |
| | Location: BIDDEFORD, ME | Sheet: | 1 of 1 |
| | | Chkd by: | JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/19/2013 | Date Completed: 2/19/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | 24" SPT |
| Model: | 9500-VTR | Hammer: | 140LR |
| Method: | H.S.A. | Fall: | 30" |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/16 | 0-2.5' | | 0-8" Brown SAND & GRAVEL | SAND & GRAVEL | |
| | | | | | 8-16" BRICK | | |
| 2 | | | | | | DEMO DEBRIS | |
| | SS-2 | 30/30 | 2.5-5' | | 0-4" BRICK | | |
| 4 | | | | | 4-30" BRICK, CONCRETE, Some Sand | DEBRIS, SAND | |
| | | | | | REFUSAL @ 5' | | |
| 6 | | | | | | | |
| 8 | | | | | | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Refusal @ 5'
2. Samples taken at the following intervals: (0-2')(2-4')(4-5')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG | Boring #: | SE-SB-222 |
|---|---|---|---|
| | Project: MAINE ENERGY PHASE II SUPPORT | Project #: | 12-3259.1 |
| | Location: BIDDEFORD, ME | Sheet: | 1 of 1 |
| | | Chkd by: | JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/20/2013 | Date Completed: 2/20/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | concrete punch |
| Model: | 9500-VTR | Hammer: | 140LR |
| Method: | H.S.A. | Fall: | 24" |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 24/20 | 0-2' | | 0-3" LOAM | LOAM | |
| | | | | | 3-15" SAND & GRAVEL | SAND & GRAVEL | |
| | | | | | 15-16" Black ASH | DEMO DEBRIS | |
| 2 | | | | | 16-20" Brown SAND & GRAVEL | SAND & GRAVEL | |
| | SS-2 | 24/20 | 2-4' | | 0-10" Brown SAND & GRAVEL | | |
| | | | | | 10-14" BRICK | DEMO DEBRIS | |
| | | | | | 14-20" Brown MEDIUM SAND | SAND | |
| 4 | | | | | | | |
| | SS-3 | 24/18 | 4-6' | | 0-18" Brown MEDIUM SAND w/ Rock & Brick | SAND, DEBRIS | |
| 6 | | | | | | | |
| | SS-4 | 24/16 | 6-8' | | 0-16" Brown MEDIUM SAND w/ Rock, Brick, Clinker | | |
| 8 | | | | | | | |
| | SS-5 | 24/18 | 8-10' | | 0-2" Brown MEDIUM SAND w/ Rock, Brick, Clinker<br>2-18" Brown FINE SAND | SAND | |
| 10 | | | | | | | |
| | | | | | CEASE @ 10' | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Cease @ 10'
2. Samples taken at the following intervals: (0-2')(2-4')(4-6')(6-8')(8-10')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG | Boring #: | SE-SB-223 |
|---|---|---|---|
| | Project: MAINE ENERGY PHASE II SUPPORT | Project #: | 12-3259.1 |
| | Location: BIDDEFORD, ME | Sheet: | 1 of 1 |
| | | Chkd by: | JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/20/2013 | Date Completed: 2/20/2013 |

| DRILLING METHOD | | SAMPLER | | ESTIMATED GROUND WATER DEPTH | | | |
|---|---|---|---|---|---|---|---|
| Vehicle: | AMS | Type: | concrete punch | Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
| Model: | 9500-VTR | Hammer: | 140LR | See Report | | | |
| Method: | H.S.A. | Fall: | 24" | | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 24/18 | 0-2' | | 0-3" LOAM | LOAM | |
| | | | | | 3-18" Brown SAND & GRAVEL | SAND & GRAVEL | |
| 2 | | | | | | | |
| | SS-2 | 24/18 | 2-4' | | 0-10" Brown SAND & GRAVEL | | |
| | | | | | 10-12" BRICK | DEMO DEBRIS | |
| | | | | | 12-18" BRICK & SAND | DEBRIS & SAND | |
| 4 | | | | | | | |
| | SS-3 | 24/20 | 4-6' | | 0-15" BRICK & SAND | | |
| | | | | | 15-20" Brown SAND w/ Brick | | |
| 6 | | | | | | | |
| | SS-4 | 24/16 | 6-8' | | 0-8" Brown SAND w/ Brick | | |
| | | | | | 8-16" Brown MEDIUM SAND | SAND | |
| 8 | | | | | | | |
| | SS-5 | 24/2 | 8-10' | | 0-2" Brown MEDIUM SAND | | |
| 10 | | | | | | | |
| | | | | | CEASE @ 10' | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Cease @ 10'
2. Samples taken at the following intervals: (0-2')(2-4')(4-6')(6-8')(8-10')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT | SOIL BORING LOG | Boring #: | SE-SB-224 |
|---|---|---|---|
| ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | Project: MAINE ENERGY PHASE II SUPPORT<br>Location: BIDDEFORD, ME | Project #:<br>Sheet:<br>Chkd by: | 12-3259.1<br>1 of 1<br>JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/20/2013 | Date Completed: 2/20/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | 24" SPT |
| Model: | 9500-VTR | Hammer: | 140LR |
| Method: | H.S.A. | Fall: | 30" |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/22 | 0-2.5' | | 0-3" LOAM & ORGANIC MATERIAL | LOAM | |
| | | | | | 3-5" SAND & GRAVEL | SAND & GRAVEL | |
| | | | | | 5-12" Black ASH & SAND | DEMO DEBRIS | |
| 2 | | | | | 12-14" Brown MEDIUM SAND, 14-18" Black ASH | DEBRIS & SAND | |
| | | | | | 18-22" Reddish-brown SAND | SAND | |
| | SS-2 | 30/10 | 2.5-5' | | 0-10" Reddish-brown SAND w/ Gravel | | |
| 4 | | | | | | | |
| | SS-3 | 30/0 | 5-7.5' | | NO RECOVERY | | |
| 6 | | | | | | | |
| 8 | SS-4 | 12/6 | 7.5-8' | | 0-6" GRAVEL | GRAVEL | |
| | | | | | REFUSAL @ 8' | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Refusal @ 8'
2. Samples taken at the following intervals: (0-2')(2-4')(6-8')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT | SOIL BORING LOG | Boring #: | SE-SB-225 |
|---|---|---|---|
| ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | Project: MAINE ENERGY PHASE II SUPPORT<br>Location: BIDDEFORD, ME | Project #:<br>Sheet:<br>Chkd by: | 12-3259.1<br>1 of 1<br>JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/20/2013 | Date Completed: 2/20/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | 24" SPT |
| Model: | 9500-VTR | Hammer: | 140LR |
| Method: | H.S.A. | Fall: | 30" |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/8 | 0-2.5' | | 0-3" LOAM & ORGANIC MATERIAL | LOAM | |
| | | | | | 3-5" Brown FINE SAND | SAND | |
| | | | | | 5-8" Brown SAND & GRAVEL | SAND & GRAVEL | |
| 2 | | | | | | | |
| | SS-2 | 30/10 | 2.5-5' | | 0-10" Brown SAND & GRAVEL | | |
| 4 | | | | | | | |
| | SS-3 | 30/12 | 5-7.5' | | 0-12" Brown SAND & GRAVEL | | |
| 6 | | | | | | | |
| 8 | | | | | REFUSAL @ 7.5' | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Refusal @ 7.5"
2. Samples taken at the following intervals: (0-2')(2-4')(4-6')(6-7.5')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT | SOIL BORING LOG | Boring #: | SE-SB-226 |
|---|---|---|---|
| ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | Project: MAINE ENERGY PHASE II SUPPORT<br>Location: BIDDEFORD, ME | Project #:<br>Sheet:<br>Chkd by: | 12-3259.1<br>1 of 1<br>JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/20/2013 | Date Completed: 2/20/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | 24" SPT |
| Model: | 9500-VTR | Hammer: | 140LR |
| Method: | H.S.A. | Fall: | 30" |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/10 | 0-2.5' | | 0-3" LOAM | LOAM | |
| | | | | | 3-10" Brown SAND & GRAVEL | SAND & GRAVEL | |
| 2 | | | | | | | |
| | SS-2 | 30/2 | 2.5-5' | | 0-2" Brown SILTY SAND | SAND | |
| 4 | | | | | | | |
| | | | | | REFUSAL @ 5' | | |
| 6 | | | | | | | |
| 8 | | | | | | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Refusal @ 5'
2. Samples taken at the following intervals: (0-2')(2-4')(4-5')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG<br>Project: MAINE ENERGY PHASE II SUPPORT<br>Location: BIDDEFORD, ME | Boring #: SE-SB-227<br>Project #: 12-3259.1<br>Sheet: 1 of 1<br>Chkd by: JKC |
|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/20/2013 | Date Completed: 2/20/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | Concrete Punc |
| Model: | 9500-VTR | Hammer: | 140LR |
| Method: | H.S.A. | Fall: | 24" |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 24/18 | 0-2' | | 0-3" LOAM | LOAM | |
| | | | | | 3-10" SAND & GRAVEL | SAND & GRAVEL | |
| | | | | | 10-18" Brown MEDIUM SAND | SAND | |
| 2 | | | | | | | |
| | SS-2 | 24/20 | 2-4' | | 0-20" BRICK | DEMO DEBRIS | |
| 4 | | | | | | | |
| | SS-3 | 24/20 | 4-6' | | 0-20" BRICK & CONCRETE | | |
| 6 | | | | | | | |
| | SS-4 | 24/18 | 6-8' | | 0-10" BRICK & CONCRETE | | |
| | | | | | 10-14" Brown SILTY SAND | SAND | |
| | | | | | 14-18" ROCK | ROCK | |
| 8 | | | | | | | |
| | | | | | REFUSAL @ 8' | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Refusal @ 8'
2. Samples taken at the following intervals: (0-2')(2-4')(4-6')(6-8')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG | Boring #: | SE-SB-228 |
|---|---|---|---|
| | Project: MAINE ENERGY PHASE II SUPPORT | Project #: | 12-3259.1 |
| | Location: BIDDEFORD, ME | Sheet: | 1 of 1 |
| | | Chkd by: | JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/20/2013 | Date Completed: 2/20/2013 |

| DRILLING METHOD | | SAMPLER | | ESTIMATED GROUND WATER DEPTH | | | |
|---|---|---|---|---|---|---|---|
| Vehicle: | AMS | Type: | Concrete Punc | Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
| Model: | 9500-VTR | Hammer: | 140LR | See Report | | | |
| Method: | H.S.A. | Fall: | 24" | | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 24/18 | 0-2' | | 0-3" LOAM | LOAM | |
| | | | | | 3-10" Brown SAND & GRAVEL | SAND & GRAVEL | |
| | | | | | 10-18" Brown SAND AND GRAVEL w/ Rock | SAND & GRAVEL | |
| 2 | | | | | | | |
| | SS-2 | 24/20 | 2-4' | | 0-20" BRICK & CONCRETE | DEMO DEBRIS | |
| 4 | | | | | | | |
| | SS-3 | 24/20 | 4-6' | | 0-10" BRICK & CONCRETE<br>10-20" Black ASH & BRICK | | |
| 6 | | | | | | | |
| | SS-4 | 24/18 | 6-8' | | 0-18" BRICK & SAND | DEBRIS, SAND | |
| 8 | | | | | | | |
| | SS-5 | 24/16 | 8-10' | | 0-10" BRICK & SAND | | |
| | | | | | 10-14" Brown SILTY SAND | SAND | |
| | | | | | 14-16" ROCK | ROCK | |
| 10 | | | | | | | |
| | | | | | CEASE @ 10' | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Cease @ 10'
2. Samples taken at the following intervals: (0-2')(2-4')(4-6')(6-8')(8-10')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG | Boring #: | SE-SB-229 |
|---|---|---|---|
| | Project: MAINE ENERGY PHASE II SUPPORT | Project #: | 12-3259.1 |
| | Location: BIDDEFORD, ME | Sheet: | 1 of 1 |
| | | Chkd by: | JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/20/2013 | Date Completed: 2/20/2013 |

| DRILLING METHOD | | SAMPLER | | ESTIMATED GROUND WATER DEPTH | | | |
|---|---|---|---|---|---|---|---|
| Vehicle: | AMS | Type: | Concrete Punc | Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
| Model: | 9500-VTR | Hammer: | 140LR | See Report | | | |
| Method: | H.S.A. | Fall: | 24" | | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 24/20 | 0-2' | | 0-3" LOAM | LOAM | |
| | | | | | 3-8" Brown SAND & GRAVEL | SAND & GRAVEL | |
| | | | | | 8-20" BRICK & CONCRETE, trace sand | DEMO DEBRIS | |
| 2 | | | | | | | |
| | SS-2 | 24/20 | 2-4' | | 0-20" Brown SAND & GRAVEL, trace brick | DEBRIS, SAND, GRAVEL | |
| 4 | | | | | | | |
| | SS-3 | 24/20 | 4-6' | | 0-10" Brown SAND & GRAVEL, trace brick<br>10-20" BRICK, ASH, CONCRETE | DEMO DEBRIS | |
| 6 | | | | | | | |
| | SS-4 | 24/18 | 6-8' | | 0-18" Brown SAND & GRAVEL wet | SAND & GRAVEL | |
| 8 | | | | | | | |
| | SS-5 | 24/20 | 8-10' | | 0-20" Brown SAND & GRAVEL wet | | |
| 10 | | | | | | | |
| | | | | | CEASE @ 10' | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Cease @ 10'
2. Samples taken at the following intervals: (0-2')(2-4')(4-6')(6-8')(8-10')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG | Boring #: | SE-SB-230 |
|---|---|---|---|
| | Project: MAINE ENERGY PHASE II SUPPORT | Project #: | 12-3259.1 |
| | Location: BIDDEFORD, ME | Sheet: | 1 of 1 |
| | | Chkd by: | JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/20/2013 | Date Completed: 2/20/2013 |

| DRILLING METHOD | | SAMPLER | | ESTIMATED GROUND WATER DEPTH | | | |
|---|---|---|---|---|---|---|---|
| Vehicle: | AMS | Type: | Concrete Punc | Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
| Model: | 9500-VTR | Hammer: | 140LR | See Report | | | |
| Method: | H.S.A. | Fall: | 24" | | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 24/20 | 0-2' | | 0-3" LOAM | LOAM | |
| | | | | | 3-20" Brown SAND & GRAVEL With Rock | SAND & GRAVEL | |
| 2 | | | | | | | |
| | SS-2 | 20/10 | 2-4' | | 0-10" Brown SAND & GRAVEL With Rock | | |
| 4 | | | | | | | |
| | | | | | REFUSAL @ 4' | | |
| 6 | | | | | | | |
| 8 | | | | | | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Refusal @ 4'
2. Samples taken at the following intervals: (0-2')(2-4')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG<br>Project: MAINE ENERGY PHASE II SUPPORT<br>Location: BIDDEFORD, ME | Boring #: SE-SB-231<br>Project #: 12-3259.1<br>Sheet: 1 of 1<br>Chkd by: JKC |
|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/20/2013 | Date Completed: 2/20/2013 |

| DRILLING METHOD | | SAMPLER | | ESTIMATED GROUND WATER DEPTH | | | |
|---|---|---|---|---|---|---|---|
| Vehicle: | AMS | Type: | Concrete Punc | Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
| Model: | 9500-VTR | Hammer: | 140LR | See Report | | | |
| Method: | H.S.A. | Fall: | 24" | | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 24/20 | 0-2' | | 0-3" LOAM | LOAM | |
| | | | | | 3-8" SAND & GRAVEL (Fill) | SAND & GRAVEL | |
| | | | | | 8-20" BRICK, ASPHALT, CONCRETE | DEMO DEBRIS | |
| 2 | | | | | | | |
| | SS-2 | 24/22 | 2-4' | | 0-15" BRICK, ASPHALT, CONCRETE | | |
| | | | | | 15-22" ROCK | ROCK | |
| 4 | | | | | | | |
| | SS-3 | 24/24 | 4-6' | | 0-10" BRICK & CLINKER | DEMO DEBRIS | |
| | | | | | 10-24" CONCRETE w/ trace sand & gravel | DEBRIS, SAND | |
| 6 | | | | | | | |
| | SS-4 | 24/20 | 6-8' | | 0-6" CONCRETE w/ trace sand & gravel | | |
| | | | | | 6-20" Reddish-brown SAND & GRAVEL | SAND & GRAVEL | |
| 8 | | | | | | | |
| | SS-5 | 24/20 | 8-10' | | 0-20" Reddish-brown SAND & GRAVEL | | |
| 10 | | | | | | | |
| | | | | | CEASE @ 10' | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Cease @ 10'
2. Samples taken at the following intervals: (0-2')(2-4')(4-6')(6-8')(8-10')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG<br>Project: MAINE ENERGY PHASE II SUPPORT<br>Location: BIDDEFORD, ME | Boring #: SE-SB-232<br>Project #: 12-3259.1<br>Sheet: 1 of 1<br>Chkd by: JKC |
|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/20/2013 | Date Completed: 2/20/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | Concrete Punc |
| Model: | 9500-VTR | Hammer: | 140LR |
| Method: | H.S.A. | Fall: | 24" |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 24/6 | 0-2' | | 0-3" LOAM | LOAM | |
| | | | | | 3-5" SAND & GRAVEL (Fill) | SAND & GRAVEL | |
| | | | | | 5-6" BRICK w/ Concrete | DEMO DEBRIS | |
| 2 | | | | | REFUSAL @ 2' | | |
| 4 | | | | | | | |
| 6 | | | | | | | |
| 8 | | | | | | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Refusal @ 2'
2. Samples taken at the following intervals: (0-2')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG<br>Project: MAINE ENERGY PHASE II SUPPORT<br>Location: BIDDEFORD, ME | Boring #: SE-SB-232A<br>Project #: 12-3259.1<br>Sheet: 1 of 1<br>Chkd by: JKC |
|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/20/2013 | Date Completed: 2/20/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | Concrete Punc |
| Model: | 9500-VTR | Hammer: | 140LR |
| Method: | H.S.A. | Fall: | 24" |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 24/0 | 0-2' | | NO SAMPLE | LOAM<br>SAND & GRAVEL | |
| 2 | | | | | | | |
| | SS-2 | 24/20 | 2-4' | | 0-20" CONCRETE & CLINKER w/ Ash | | |
| 4 | | | | | | DEMO DEBRIS | |
| | SS-3 | 24/20 | 4-6' | | 0-20" CONCRETE & CLINKER w/ Ash & Brick | | |
| 6 | | | | | | | |
| | SS-4 | 24/20 | 6-8' | | 0-10" CONCRETE & CLINKER w/ Ash & Brick<br>10-20" Brown SILTY CLAY, trace clay | CLAY | |
| 8 | | | | | | | |
| | SS-5 | 24/20 | 8-10' | | 0-20" Reddish-brown MEDIUM SAND & GRAVEL, trace clinker | DEBRIS, SAND, GRAVEL | |
| 10 | | | | | | | |
| | | | | | CEASE @ 10' | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Cease @ 10'
2. Samples taken at the following intervals: (2-4')(4-6')(6-8')(8-10')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG<br>Project: MAINE ENERGY PHASE II SUPPORT<br>Location: BIDDEFORD, ME | Boring #: SE-SB-233<br>Project #: 12-3259.1<br>Sheet: 1 of 1<br>Chkd by: JKC |
|---|---|---|

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/20/2013 | Date Completed: 2/20/2013 |

| DRILLING METHOD | | SAMPLER | |
|---|---|---|---|
| Vehicle: | AMS | Type: | 24" SPT |
| Model: | 9500-VTR | Hammer: | 140LR |
| Method: | H.S.A. | Fall: | 30" |

ESTIMATED GROUND WATER DEPTH

| Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
|---|---|---|---|
| See Report | | | |
| | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/28 | 0-2.5' | | 0-3" LOAM | LOAM | |
| | | | | | 3-6" GRAVEL | GRAVEL | |
| | | | | | 6-28" CONCRETE & BRICK, trace clinker | DEMO DEBRIS | |
| 2 | | | | | | | |
| | SS-2 | 24/20 | 2.5-4' | | 0-2" CLINKER | | |
| | | | | | 2-20" Reddish-brown SAND & GRAVEL, trace rock | SAND, GRAVEL, ROCK | |
| 4 | | | | | | | |
| | SS-3 | 24/22 | 4-6' | | 0-22" Reddish-brown SAND & GRAVEL, trace rock | | |
| 6 | | | | | | | |
| | SS-4 | 24/24 | 6-8' | | 0-10" Reddish-brown SAND & GRAVEL, trace rock | | |
| | | | | | 10-12" CONCRETE | DEMO DEBRIS | |
| | | | | | 12-24" Brown SILTY CLAY, trace rock | CLAY, ROCK | |
| 8 | | | | | | | |
| | | | | | REFUSAL @ 8' | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Refusal @ 8'
2. Samples taken at the following intervals: (0-2')(2-4')(4-6')(6-8')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG | Boring #: | SE-SB-234 |
|---|---|---|---|
| | Project: MAINE ENERGY PHASE II SUPPORT | Project #: | 12-3259.1 |
| | Location: BIDDEFORD, ME | Sheet: | 1 of 1 |
| | | Chkd by: | JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/20/2013 | Date Completed: 2/20/2013 |

| DRILLING METHOD | | SAMPLER | | ESTIMATED GROUND WATER DEPTH | | | |
|---|---|---|---|---|---|---|---|
| Vehicle: | AMS | Type: | Concrete punc | Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
| Model: | 9500-VTR | Hammer: | 140LR | See Report | | | |
| Method: | H.S.A. | Fall: | 24" | | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 24/22 | 0-2' | | 0-3" LOAM | LOAM | |
| | | | | | 3-10" SAND & GRAVEL, trace ash & clinker | SAND & GRAVEL | |
| | | | | | 10-22" Brown SILTY-SAND | SAND | |
| 2 | | | | | | | |
| | SS-2 | 24/22 | 2-4' | | 0-2" ROCK | ROCK | |
| | | | | | 2-10" Black ASH & CLINKER | DEMO DEBRIS | |
| | | | | | 10-22" Reddish-brown SAND & GRAVEL | SAND & GRAVEL | |
| 4 | | | | | | | |
| | SS-3 | 24/20 | 4-6' | | 0-20" Reddish-brown SAND & GRAVEL | | |
| | | | | | | | |
| | | | | | | | |
| 6 | | | | | | | |
| | SS-4 | 24/24 | 6-8' | | 0-10" Reddish-brown SAND & GRAVEL | | |
| | | | | | 10-24" Reddish-brown SAND &GRAVEL w/ Rock | SAND, GRAVEL, ROCK | |
| | | | | | | | |
| 8 | | | | | | | |
| | SS-5 | 24/20 | 8-10' | | 0-20" Reddish-brown SAND & GRAVEL w/ Rock | | |
| | | | | | | | |
| | | | | | | | |
| 10 | | | | | | | |
| | | | | | Cease @ 10' | | |
| | | | | | | | |
| | | | | | | | |
| 12 | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 14 | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 16 | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 18 | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Cease @ 10'
2. Samples taken at the following intervals: (0-2')(2-4')(4-6')(6-8')(8-10')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG | Boring #: | SE-SB-235 |
|---|---|---|---|
| | Project: MAINE ENERGY PHASE II SUPPORT | Project #: | 12-3259.1 |
| | Location: BIDDEFORD, ME | Sheet: | 1 of 1 |
| | | Chkd by: | JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/20/2013 | Date Completed: 2/20/2013 |

| DRILLING METHOD | | SAMPLER | | ESTIMATED GROUND WATER DEPTH | | | |
|---|---|---|---|---|---|---|---|
| Vehicle: | AMS | Type: | Concrete punc | Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
| Model: | 9500-VTR | Hammer: | 140LR | See Report | | | |
| Method: | H.S.A. | Fall: | 24" | | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 30/29 | 0-2.5' | | 0-3" LOAM | LOAM | |
| | | | | | 3-10" SAND & GRAVEL (Fill) | SAND & GRAVEL | |
| | | | | | 10-15" CONCRETE & BRICK | DEMO DEBRIS | |
| 2 | | | | | 15-29" Brown SAND & GRAVEL | | |
| | SS-2 | 30/30 | 2.5-5' | | 0-30" Reddish-brown SAND & GRAVEL | | |
| 4 | | | | | | | |
| | SS-3 | 24/22 | 5-7' | | 0-222" Reddish-brown SAND & GRAVEL | | |
| 6 | | | | | | SAND & GRAVEL | |
| | SS-4 | 24/20 | 7-9' | | 0-20" Reddish-brown SAND & GRAVEL | | |
| 8 | | | | | | | |
| | SS-5 | 24/20 | 9-11' | | 0-20" Reddish-brown SAND & GRAVEL | | |
| 10 | | | | | | | |
| | | | | | CEASE @ 11' | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Cease @ 11'
2. Samples taken at the following intervals: (0-2')(2-4')(4-6')(6-8')(8-10')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

| SUMMIT<br>ENVIRONMENTAL CONSULTANTS, INC.<br>640 Main Street<br>Lewiston, Maine 04240 | SOIL BORING LOG | Boring #: | SE-SB-236 |
|---|---|---|---|
| | Project: MAINE ENERGY PHASE II SUPPORT | Project #: | 12-3259.1 |
| | Location: BIDDEFORD, ME | Sheet: | 1 of 1 |
| | | Chkd by: | JKC |

| | | | |
|---|---|---|---|
| Drilling Co: | SUMMIT Geoengineering Services | Boring Location: see location map | |
| Personnel: | Craig Coolidge | Top of PVC Casing Elevation: | |
| Summit Staff: | John Cressey | Date started: 2/20/2013 | Date Completed: 2/20/2013 |

| DRILLING METHOD | | SAMPLER | | ESTIMATED GROUND WATER DEPTH | | | |
|---|---|---|---|---|---|---|---|
| Vehicle: | AMS | Type: | Concrete punc | Date | Depth (ft) | Reference | Groundwater Elevation (ft) |
| Model: | 9500-VTR | Hammer: | 140LR | See Report | | | |
| Method: | H.S.A. | Fall: | 24" | | | | |

| Depth (ft.) | No. | Pen/Rec (in) | Depth (ft) | Blows/6 in. | SAMPLE DESCRIPTION | Stratum | Field Screening (ppmv) |
|---|---|---|---|---|---|---|---|
| | SS-1 | 24/16 | 0-2' | | 0-3" ASPHALT | ASPHALT | |
| | | | | | 3-16" Brown SAND & GRAVEL (Fill) | SAND & GRAVEL | |
| 2 | | | | | | | |
| | SS-2 | 24/20 | 2-4' | | 0-12" Brown SAND & GRAVEL (Fill) | | |
| | | | | | 12-15 Brown SAND & GRAVEL w/ Brick | SAND, GRAVEL, DEBRIS | |
| | | | | | 15-20" Brown SAND & GRAVEL | SAND & GRAVEL | |
| 4 | | | | | | | |
| | SS-3 | 24/20 | 4-6' | | 0-8" Brown SAND & GRAVEL | | |
| | | | | | 8-20" Brown SAND & ASH w/ Clinker | SAND, GRAVEL, DEBRIS | |
| 6 | | | | | | | |
| | SS-4 | 24/20 | 6-8' | | 0-20" Brown SAND & ASH w/ Clinker & Concrete | | |
| 8 | | | | | | | |
| | SS-5 | 24/18 | 8-10' | | 0-18" Brown SAND & ASH w/ Clinker & Concrete | | |
| 10 | | | | | | | |
| | SS-6 | 24/16 | 10-12' | | 0-6" Brown SAND & ASH w/ Clinker & Concrete | | |
| | | | | | 6-16" ROCK FRAGMENTS | ROCK | |
| 12 | | | | | | | |
| | SS-7 | 24/18 | 12-14' | | 0-18" Brown GRAVEL & ROCK, wet | GRAVEL & ROCK | |
| 14 | | | | | | | |
| | | | | | Cease @ 14' | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |

| Granular Soils | | Cohesive Soils | | % Composition | |
|---|---|---|---|---|---|
| Blows/ft. | Density | Blows/ft. | Consistency | | |
| 0-4 | V. Loose | <2 | V. soft | | |
| 4-10 | Loose | 2-4 | Soft | <5% | trace |
| 10-30 | Compact | 4-8 | Firm | 5-15 | little |
| 30-50 | Dense | 8-15 | Stiff | 15-25 | some |
| >50 | V. Dense | 15-30 | V. Stiff | >25 | and |
| | | >30 | Hard | | |

NOTES:

1. Cease @ 14'
2. Samples taken at the following intervals: (0-2')(2-4')(4-6')(6-8')(8-10')(10-12')(12-14')
3. Samples to be analyzed for PCB's using the Soxhlet Extraction method (EPA 3540C)

# *Appendix C*

## Analytical Results

# Laboratory Report

Absolute Resource associates
124 Heritage Avenue Portsmouth NH 03801

PO Number: 12001150
Job ID: 25123
Date Received: 10/4/12

CREDERE Associates
776 Main Street
Westbrook, ME 04092

Project: MERC 12001150

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

Cliff Chase
Partner, Technical Director

Date of Approval: 10/23/2012
Total number of pages: 136

**Absolute Resource Associates Certifications**

| | | | |
|---|---|---|---|
| New Hampshire | 1732 | Massachusetts | M-NH902 |
| Maine | NH903 | | |

**Project ID:** MERC 12001150
**Lab ID:** 25123

# Sample Association Table

| Field ID | Matrix | Date-Time Sampled | Lab# | Analysis |
|---|---|---|---|---|
| CA-SB-1 2.5-5 | Solid | 10/2/2012 15:30 | 25123-001 | |
| | | | | Solid Digestion for ICP Analysis |
| | | | | Lead in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| | | | | VPH in solids by MA DEP Method |
| CA-SB-2 0-1 | Solid | 10/2/2012 15:00 | 25123-002 | |
| | | | | EPH in solids by MADEP Method |
| | | | | Solid Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Beryllium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Copper in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Nickel in solids by 6010 |
| | | | | Lead in solids by 6010 |
| | | | | Antimony in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Thallium in solids by 6010 |
| | | | | Zinc in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| CA-SB-3 10-12.5 | Solid | 10/2/2012 13:10 | 25123-003 | |
| | | | | PCBs in soil by 8082 |
| | | | | EPH in solids by MADEP Method |
| | | | | Solid Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Barium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Lead in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| CA-SB-4 0-2 | Solid | 10/2/2012 11:50 | 25123-004 | |
| | | | | Acid & Base/Neutral Extractables in solid by 8270 |
| | | | | EPH in solids by MADEP Method Ranges only |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Beryllium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Copper in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Nickel in solids by 6010 |
| | | | | Lead in solids by 6010 |
| | | | | Antimony in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Thallium in solids by 6010 |
| | | | | Zinc in solids by 6010 |

Absolute Resource associates

**Project ID:** MERC 12001150
**Lab ID:** 25123

# Sample Association Table

| Field ID | Matrix | Date-Time Sampled | Lab# | Analysis |
|---|---|---|---|---|
| CA-SB-4 0-2 | Solid | 10/2/2012 11:50 | 25123-004 | |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| | | | | VOCs in solids by 8260 |
| | | | | VPH Ranges in solids by MA DEP Method |
| CA-SB-5 5-10 | Solid | 10/3/2012 13:30 | 25123-005 | |
| | | | | PCBs in soil by 8082 |
| | | | | Acid & Base/Neutral Extractables in solid by 8270 |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Barium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Lead in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| | | | | VOCs in solids by 8260 |
| CA-SB-6 0-5 | Solid | 10/3/2012 9:00 | 25123-006 | |
| | | | | PCBs in soil by 8082 |
| | | | | PAHs in solid by 8270 |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Beryllium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Copper in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Nickel in solids by 6010 |
| | | | | Lead in solids by 6010 |
| | | | | Antimony in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Thallium in solids by 6010 |
| | | | | Zinc in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| CA-SB-6 12.5-15 | Solid | 10/3/2012 8:50 | 25123-007 | |
| | | | | PCBs in soil by 8082 |
| | | | | Acid & Base/Neutral Extractables in solid by 8270 |
| | | | | EPH in solids by MADEP Method Ranges only |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Beryllium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Copper in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Nickel in solids by 6010 |
| | | | | Lead in solids by 6010 |
| | | | | Antimony in solids by 6010 |
| | | | | Selenium in solids by 6010 |

Absolute Resource associates

**Project ID:** MERC 12001150
**Lab ID:** 25123

# Sample Association Table

| Field ID | Matrix | Date-Time Sampled | Lab# | Analysis |
|---|---|---|---|---|
| CA-SB-6 12.5-15 | Solid | 10/3/2012 8:50 | 25123-007 | |
| | | | | Thallium in solids by 6010 |
| | | | | Zinc in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| | | | | VOCs in solids by 8260 |
| | | | | VPH Ranges in solids by MA DEP Method |
| CA-SB-7 7.5-10 | Solid | 10/2/2012 16:15 | 25123-008 | |
| | | | | PCBs in soil by 8082 |
| | | | | Acid & Base/Neutral Extractables in solid by 8270 |
| | | | | EPH in solids by MADEP Method Ranges only |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Beryllium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Copper in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Nickel in solids by 6010 |
| | | | | Lead in solids by 6010 |
| | | | | Antimony in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Thallium in solids by 6010 |
| | | | | Zinc in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| | | | | VOCs in solids by 8260 |
| | | | | VPH Ranges in solids by MA DEP Method |
| CA-SB-8 0-2.5 | Solid | 10/3/2012 8:50 | 25123-009 | |
| | | | | PCBs in soil by 8082 |
| | | | | PAHs in solid by 8270 |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Beryllium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Copper in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Nickel in solids by 6010 |
| | | | | Lead in solids by 6010 |
| | | | | Antimony in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Thallium in solids by 6010 |
| | | | | Zinc in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| CA-SB-8 5-10 | Solid | 10/3/2012 10:00 | 25123-010 | |
| | | | | PCBs in soil by 8082 |
| | | | | PAHs in solid by 8270 |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Beryllium in solids by 6010 |

Absolute Resource associates

**Project ID:** MERC 12001150
**Lab ID:** 25123

# Sample Association Table

| Field ID | Matrix | Date-Time Sampled | Lab# | Analysis |
|---|---|---|---|---|
| CA-SB-8 5-10 | Solid | 10/3/2012 10:00 | 25123-010 | |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Copper in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Nickel in solids by 6010 |
| | | | | Lead in solids by 6010 |
| | | | | Antimony in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Thallium in solids by 6010 |
| | | | | Zinc in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| CA-SB-9 0-4 | Solid | 10/3/2012 12:10 | 25123-011 | |
| | | | | PCBs in soil by 8082 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| CA-SB-10 10-15 | Solid | 10/3/2012 12:30 | 25123-012 | |
| | | | | PCBs in soil by 8082 |
| | | | | Acid & Base/Neutral Extractables in solid by 8270 |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Barium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Lead in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| | | | | VOCs in solids by 8260 |
| CA-SB-11 10-15 | Solid | 10/3/2012 8:30 | 25123-013 | |
| | | | | PCBs in soil by 8082 |
| | | | | Acid & Base/Neutral Extractables in solid by 8270 |
| | | | | EPH in solids by MADEP Method Ranges only |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Beryllium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Copper in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Nickel in solids by 6010 |
| | | | | Lead in solids by 6010 |
| | | | | Antimony in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Thallium in solids by 6010 |
| | | | | Zinc in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| | | | | VOCs in solids by 8260 |
| | | | | VPH Ranges in solids by MA DEP Method |
| SB-DUP-2 | Solid | 10/3/2012 0:00 | 25123-014 | |
| | | | | Acid & Base/Neutral Extractables in solid by 8270 |

Absolute Resource associates

**Project ID:** MERC 12001150
**Lab ID:** 25123

# Sample Association Table

| Field ID | Matrix | Date-Time Sampled | Lab# | Analysis |
|---|---|---|---|---|
| SB-DUP-2 | Solid | 10/3/2012 0:00 | 25123-014 | |
| | | | | EPH in solids by MADEP Method Ranges only |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| | | | | VOCs in solids by 8260 |
| | | | | VPH Ranges in solids by MA DEP Method |
| CA-SB-12 15-18 | Solid | 10/2/2012 8:45 | 25123-015 | |
| | | | | PCBs in soil by 8082 |
| | | | | EPH in solids by MADEP Method |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Barium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Lead in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| CA-SB-13 10-12 | Solid | 10/2/2012 9:10 | 25123-016 | |
| | | | | PCBs in soil by 8082 |
| | | | | EPH in solids by MADEP Method |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Barium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Lead in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| SB-DUP-1 | Solid | 10/2/2012 0:00 | 25123-017 | |
| | | | | PCBs in soil by 8082 |
| | | | | EPH in solids by MADEP Method |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Barium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Lead in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| CA-SB-14 0-3 | Solid | 10/2/2012 10:15 | 25123-018 | |
| | | | | EPH in solids by MADEP Method |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| | | | | VPH in solids by MA DEP Method |
| CA-SB-15 5-5.5 | Solid | 10/2/2012 10:00 | 25123-019 | |
| | | | | EPH in solids by MADEP Method |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| | | | | VPH in solids by MA DEP Method |

Absolute Resource associates

**Project ID:** MERC 12001150
**Lab ID:** 25123

# Sample Association Table

| Field ID | Matrix | Date-Time Sampled | Lab# | Analysis |
|---|---|---|---|---|
| CA-SS-1 | Solid | 10/3/2012 11:20 | 25123-020 | |
| | | | | PCBs in soil by 8082 |
| | | | | PAHs in solid by 8270 |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Beryllium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Copper in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Nickel in solids by 6010 |
| | | | | Lead in solids by 6010 |
| | | | | Antimony in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Thallium in solids by 6010 |
| | | | | Zinc in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| CA-SS-2 | Solid | 10/3/2012 12:10 | 25123-021 | |
| | | | | PCBs in soil by 8082 |
| | | | | PAHs in solid by 8270 |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Beryllium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Copper in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Nickel in solids by 6010 |
| | | | | Lead in solids by 6010 |
| | | | | Antimony in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Thallium in solids by 6010 |
| | | | | Zinc in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| CA-SS-3 | Solid | 10/3/2012 12:15 | 25123-022 | |
| | | | | PCBs in soil by 8082 |
| | | | | PAHs in solid by 8270 |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Beryllium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Copper in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Nickel in solids by 6010 |
| | | | | Lead in solids by 6010 |
| | | | | Antimony in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Thallium in solids by 6010 |

Absolute Resource associates

**Project ID:** MERC 12001150
**Lab ID:** 25123

# Sample Association Table

| Field ID | Matrix | Date-Time Sampled | Lab# | Analysis |
|---|---|---|---|---|
| CA-SS-3 | Solid | 10/3/2012 12:15 | 25123-022 | |
| | | | | Zinc in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| CA-SS-4 | Solid | 10/3/2012 12:45 | 25123-023 | |
| | | | | PCBs in soil by 8082 |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Beryllium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Copper in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Nickel in solids by 6010 |
| | | | | Lead in solids by 6010 |
| | | | | Antimony in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Thallium in solids by 6010 |
| | | | | Zinc in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| CA-SS-5 | Solid | 10/3/2012 13:00 | 25123-024 | |
| | | | | PCBs in soil by 8082 |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Beryllium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Copper in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Nickel in solids by 6010 |
| | | | | Lead in solids by 6010 |
| | | | | Antimony in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Thallium in solids by 6010 |
| | | | | Zinc in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| CA-CC-1 | Solid | 10/3/2012 9:30 | 25123-025 | |
| | | | | PCBs in soil by 8082 |
| | | | | Acid & Base/Neutral Extractables in solid by 8270 |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Beryllium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Copper in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Nickel in solids by 6010 |
| | | | | Lead in solids by 6010 |
| | | | | Antimony in solids by 6010 |
| | | | | Selenium in solids by 6010 |

Absolute Resource associates

**Project ID:** MERC 12001150
**Lab ID:** 25123

# Sample Association Table

| Field ID | Matrix | Date-Time Sampled | Lab# | Analysis |
|---|---|---|---|---|
| CA-CC-1 | Solid | 10/3/2012 9:30 | 25123-025 | |
| | | | | Thallium in solids by 6010 |
| | | | | Zinc in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| | | | | VOCs in solids by 8260 |
| CA-CC-2 | Solid | 10/3/2012 9:58 | 25123-026 | |
| | | | | PCBs in soil by 8082 |
| | | | | Acid & Base/Neutral Extractables in solid by 8270 |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Beryllium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Copper in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Nickel in solids by 6010 |
| | | | | Lead in solids by 6010 |
| | | | | Antimony in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Thallium in solids by 6010 |
| | | | | Zinc in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| | | | | VOCs in solids by 8260 |
| CA-CC-3 | Solid | 10/3/2012 10:40 | 25123-027 | |
| | | | | PCBs in soil by 8082 |
| | | | | Acid & Base/Neutral Extractables in solid by 8270 |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Beryllium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Copper in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Nickel in solids by 6010 |
| | | | | Lead in solids by 6010 |
| | | | | Antimony in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Thallium in solids by 6010 |
| | | | | Zinc in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| | | | | VOCs in solids by 8260 |
| CA-CC-4 | Solid | 10/3/2012 11:25 | 25123-028 | |
| | | | | PCBs in soil by 8082 |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Beryllium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Copper in solids by 6010 |

Absolute Resource associates

**Project ID:** MERC 12001150
**Lab ID:** 25123

# Sample Association Table

| Field ID | Matrix | Date-Time Sampled | Lab# | Analysis |
|---|---|---|---|---|
| CA-CC-4 | Solid | 10/3/2012 11:25 | 25123-028 | |
| | | | | Mercury in solids by 7471 |
| | | | | Nickel in solids by 6010 |
| | | | | Lead in solids by 6010 |
| | | | | Antimony in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Thallium in solids by 6010 |
| | | | | Zinc in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| CA-CC-5 | Solid | 10/3/2012 11:48 | 25123-029 | |
| | | | | PCBs in soil by 8082 |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Beryllium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Copper in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Nickel in solids by 6010 |
| | | | | Lead in solids by 6010 |
| | | | | Antimony in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Thallium in solids by 6010 |
| | | | | Zinc in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| STACK | Solid | 10/3/2012 14:50 | 25123-030 | |
| | | | | PCBs in soil by 8082 |
| | | | | Soil Digestion for ICP Analysis |
| | | | | Silver in solids by 6010 |
| | | | | Arsenic in solids by 6010 |
| | | | | Beryllium in solids by 6010 |
| | | | | Cadmium in solids by 6010 |
| | | | | Chromium in solids by 6010 |
| | | | | Copper in solids by 6010 |
| | | | | Mercury in solids by 7471 |
| | | | | Nickel in solids by 6010 |
| | | | | Lead in solids by 6010 |
| | | | | Antimony in solids by 6010 |
| | | | | Selenium in solids by 6010 |
| | | | | Thallium in solids by 6010 |
| | | | | Zinc in solids by 6010 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| Trip Blank | Solid | 10/3/2012 0:00 | 25123-031 | |
| | | | | VOCs in solids by 8260 |
| CA-SB-2 0-1 Re-Extraction | Solid | 10/2/2012 15:00 | 25123-032 | |
| | | | | EPH in solids by MADEP Method |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-004
**Sample ID:** CA-SB-4 0-2
**Matrix:** Solid Percent Dry: 97.2% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 11:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| chloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| vinyl chloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| bromomethane | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| chloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| trichlorofluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| diethyl ether | < 0.3 | 0.3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| acetone | < 2 | 2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 1,1-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| methylene chloride | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| carbon disulfide | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| methyl t-butyl ether (MTBE) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| trans-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 1,1-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 2-butanone (MEK) | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 2,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| cis-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| chloroform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| bromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| tetrahydrofuran (THF) | < 0.3 | 0.3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 1,1,1-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 1,1-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| carbon tetrachloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 1,2-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| benzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| trichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 1,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| bromodichloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| dibromomethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 4-methyl-2-pentanone (MIBK) | < 0.3 | 0.3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| cis-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| toluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| trans-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 2-hexanone | < 0.3 | 0.3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 1,1,2-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 1,3-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| tetrachloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| dibromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 1,2-dibromoethane (EDB) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| chlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 1,1,1,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| ethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| m&p-xylenes | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-004
**Sample ID:** CA-SB-4 0-2
**Matrix:** Solid Percent Dry: 97.2% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 11:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| o-xylene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| styrene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| bromoform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| isopropylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 1,1,2,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 1,2,3-trichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| n-propylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| bromobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 1,3,5-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 2-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 4-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| tert-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 1,2,4-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| sec-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 1,3-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 4-isopropyltoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 1,4-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 1,2-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| n-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 1,2,4-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| hexachlorobutadiene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| naphthalene | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 1,2,3-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **102** | 78-114 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| toluene-D8 SUR | **99** | 88-110 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| 4-bromofluorobenzene SUR | **103** | 86-115 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |
| a,a,a-trifluorotoluene SUR | **99** | 70-130 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 1:46 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-005
**Sample ID:** CA-SB-5 5-10
**Matrix:** Solid Percent Dry: 85.6% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 13:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| chloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| vinyl chloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| bromomethane | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| chloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| trichlorofluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| diethyl ether | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| acetone | < 2 | 2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 1,1-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| methylene chloride | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| carbon disulfide | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| methyl t-butyl ether (MTBE) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| trans-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 1,1-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 2-butanone (MEK) | < 0.3 | 0.3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 2,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| cis-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| chloroform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| bromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| tetrahydrofuran (THF) | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 1,1,1-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 1,1-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| carbon tetrachloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 1,2-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| benzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| trichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 1,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| bromodichloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| dibromomethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 4-methyl-2-pentanone (MIBK) | < 0.4 | 0.4 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| cis-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| toluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| trans-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 2-hexanone | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 1,1,2-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 1,3-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| tetrachloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| dibromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 1,2-dibromoethane (EDB) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| chlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 1,1,1,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| ethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| m&p-xylenes | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-005
**Sample ID:** CA-SB-5 5-10
**Matrix:** Solid Percent Dry: 85.6% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 13:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| o-xylene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| styrene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| bromoform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| isopropylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 1,1,2,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 1,2,3-trichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| n-propylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| bromobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 1,3,5-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 2-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 4-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| tert-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 1,2,4-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| sec-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 1,3-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 4-isopropyltoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 1,4-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 1,2-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| n-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 1,2,4-trichlorobenzene | **0.2** | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| hexachlorobutadiene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| naphthalene | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 1,2,3-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **102** | 78-114 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| toluene-D8 SUR | **101** | 88-110 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| 4-bromofluorobenzene SUR | **99** | 86-115 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |
| a,a,a-trifluorotoluene SUR | **100** | 70-130 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:18 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-007
**Sample ID:** CA-SB-6 12.5-15
**Matrix:** Solid Percent Dry: 77% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 8:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| chloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| vinyl chloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| bromomethane | < 0.3 | 0.3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| chloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| trichlorofluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| diethyl ether | < 0.6 | 0.6 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| acetone | < 3 | 3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 1,1-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| methylene chloride | < 0.3 | 0.3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| carbon disulfide | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| methyl t-butyl ether (MTBE) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| trans-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 1,1-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 2-butanone (MEK) | < 0.3 | 0.3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 2,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| cis-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| chloroform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| bromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| tetrahydrofuran (THF) | < 0.6 | 0.6 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 1,1,1-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 1,1-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| carbon tetrachloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 1,2-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| benzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| trichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 1,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| bromodichloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| dibromomethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 4-methyl-2-pentanone (MIBK) | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| cis-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| toluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| trans-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 2-hexanone | < 0.6 | 0.6 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 1,1,2-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 1,3-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| tetrachloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| dibromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 1,2-dibromoethane (EDB) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| chlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 1,1,1,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| ethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| m&p-xylenes | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-007
**Sample ID:** CA-SB-6 12.5-15
**Matrix:** Solid Percent Dry: 77% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 8:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| o-xylene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| styrene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| bromoform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| isopropylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 1,1,2,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 1,2,3-trichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| n-propylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| bromobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 1,3,5-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 2-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 4-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| tert-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 1,2,4-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| sec-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 1,3-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 4-isopropyltoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 1,4-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 1,2-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| n-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 1,2,4-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| hexachlorobutadiene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| naphthalene | < 0.3 | 0.3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 1,2,3-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **103** | 78-114 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| toluene-D8 SUR | **101** | 88-110 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| 4-bromofluorobenzene SUR | **104** | 86-115 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |
| a,a,a-trifluorotoluene SUR | **97** | 70-130 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 2:49 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-008
**Sample ID:** CA-SB-7 7.5-10
**Matrix:** Solid Percent Dry: 88.4% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 16:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| chloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| vinyl chloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| bromomethane | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| chloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| trichlorofluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| diethyl ether | < 0.4 | 0.4 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| acetone | < 2 | 2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 1,1-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| methylene chloride | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| carbon disulfide | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| methyl t-butyl ether (MTBE) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| trans-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 1,1-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 2-butanone (MEK) | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 2,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| cis-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| chloroform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| bromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| tetrahydrofuran (THF) | < 0.4 | 0.4 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 1,1,1-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 1,1-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| carbon tetrachloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 1,2-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| benzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| trichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 1,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| bromodichloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| dibromomethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 4-methyl-2-pentanone (MIBK) | < 0.4 | 0.4 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| cis-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| toluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| trans-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 2-hexanone | < 0.4 | 0.4 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 1,1,2-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 1,3-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| tetrachloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| dibromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 1,2-dibromoethane (EDB) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| chlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 1,1,1,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| ethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| m&p-xylenes | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-008
**Sample ID:** CA-SB-7 7.5-10
**Matrix:** Solid Percent Dry: 88.4% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 16:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| o-xylene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| styrene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| bromoform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| isopropylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 1,1,2,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 1,2,3-trichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| n-propylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| bromobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 1,3,5-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 2-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 4-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| tert-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 1,2,4-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| sec-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 1,3-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 4-isopropyltoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 1,4-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 1,2-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| n-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 1,2,4-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| hexachlorobutadiene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| naphthalene | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 1,2,3-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **100** | 78-114 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| toluene-D8 SUR | **101** | 88-110 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| 4-bromofluorobenzene SUR | **105** | 86-115 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |
| a,a,a-trifluorotoluene SUR | **98** | 70-130 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:21 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-012
**Sample ID:** CA-SB-10 10-15
**Matrix:** Solid Percent Dry: 79.7% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 12:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| chloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| vinyl chloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| bromomethane | < 0.3 | 0.3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| chloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| trichlorofluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| diethyl ether | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| acetone | < 3 | 3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 1,1-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| methylene chloride | < 0.3 | 0.3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| carbon disulfide | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| methyl t-butyl ether (MTBE) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| trans-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 1,1-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 2-butanone (MEK) | < 0.3 | 0.3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 2,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| cis-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| chloroform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| bromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| tetrahydrofuran (THF) | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 1,1,1-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 1,1-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| carbon tetrachloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 1,2-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| benzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| trichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 1,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| bromodichloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| dibromomethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 4-methyl-2-pentanone (MIBK) | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| cis-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| toluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| trans-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 2-hexanone | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 1,1,2-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 1,3-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| tetrachloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| dibromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 1,2-dibromoethane (EDB) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| chlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 1,1,1,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| ethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| m&p-xylenes | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-012
**Sample ID:** CA-SB-10 10-15
**Matrix:** Solid Percent Dry: 79.7% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 12:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| o-xylene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| styrene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| bromoform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| isopropylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 1,1,2,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 1,2,3-trichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| n-propylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| bromobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 1,3,5-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 2-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 4-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| tert-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 1,2,4-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| sec-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 1,3-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 4-isopropyltoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 1,4-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 1,2-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| n-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 1,2,4-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| hexachlorobutadiene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| naphthalene | < 0.3 | 0.3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 1,2,3-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **100** | 78-114 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| toluene-D8 SUR | **96** | 88-110 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| 4-bromofluorobenzene SUR | **103** | 86-115 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |
| a,a,a-trifluorotoluene SUR | **101** | 70-130 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 3:52 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-013
**Sample ID:** CA-SB-11 10-15
**Matrix:** Solid Percent Dry: 78.5% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 8:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| chloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| vinyl chloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| bromomethane | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| chloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| trichlorofluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| diethyl ether | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| acetone | < 2 | 2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 1,1-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| methylene chloride | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| carbon disulfide | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| methyl t-butyl ether (MTBE) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| trans-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 1,1-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 2-butanone (MEK) | < 0.3 | 0.3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 2,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| cis-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| chloroform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| bromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| tetrahydrofuran (THF) | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 1,1,1-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 1,1-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| carbon tetrachloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 1,2-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| benzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| trichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 1,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| bromodichloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| dibromomethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 4-methyl-2-pentanone (MIBK) | < 0.4 | 0.4 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| cis-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| toluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| trans-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 2-hexanone | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 1,1,2-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 1,3-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| tetrachloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| dibromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 1,2-dibromoethane (EDB) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| chlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 1,1,1,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| ethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| m&p-xylenes | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-013
**Sample ID:** CA-SB-11 10-15
**Matrix:** Solid Percent Dry: 78.5% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 8:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| o-xylene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| styrene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| bromoform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| isopropylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 1,1,2,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 1,2,3-trichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| n-propylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| bromobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 1,3,5-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 2-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 4-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| tert-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 1,2,4-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| sec-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 1,3-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 4-isopropyltoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 1,4-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 1,2-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| n-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 1,2,4-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| hexachlorobutadiene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| naphthalene | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 1,2,3-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **101** | 78-114 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| toluene-D8 SUR | **100** | 88-110 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| 4-bromofluorobenzene SUR | **104** | 86-115 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |
| a,a,a-trifluorotoluene SUR | **106** | 70-130 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 5:27 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-014
**Sample ID:** SB-DUP-2
**Matrix:** Solid Percent Dry: 77.6% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| chloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| vinyl chloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| bromomethane | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| chloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| trichlorofluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| diethyl ether | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| acetone | < 2 | 2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 1,1-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| methylene chloride | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| carbon disulfide | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| methyl t-butyl ether (MTBE) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| trans-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 1,1-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 2-butanone (MEK) | < 0.3 | 0.3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 2,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| cis-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| chloroform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| bromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| tetrahydrofuran (THF) | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 1,1,1-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 1,1-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| carbon tetrachloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 1,2-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| benzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| trichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 1,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| bromodichloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| dibromomethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 4-methyl-2-pentanone (MIBK) | < 0.4 | 0.4 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| cis-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| toluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| trans-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 2-hexanone | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 1,1,2-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 1,3-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| tetrachloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| dibromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 1,2-dibromoethane (EDB) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| chlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 1,1,1,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| ethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| m&p-xylenes | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-014
**Sample ID:** SB-DUP-2
**Matrix:** Solid Percent Dry: 77.6% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| o-xylene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| styrene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| bromoform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| isopropylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 1,1,2,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 1,2,3-trichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| n-propylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| bromobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 1,3,5-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 2-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 4-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| tert-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 1,2,4-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| sec-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 1,3-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 4-isopropyltoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 1,4-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 1,2-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| n-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 1,2,4-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| hexachlorobutadiene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| naphthalene | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 1,2,3-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **101** | 78-114 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| toluene-D8 SUR | **103** | 88-110 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| 4-bromofluorobenzene SUR | **100** | 86-115 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |
| a,a,a-trifluorotoluene SUR | **99** | 70-130 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:55 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-025
**Sample ID:** CA-CC-1
**Matrix:** Solid Percent Dry: 96.4% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 9:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| chloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| vinyl chloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| bromomethane | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| chloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| trichlorofluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| diethyl ether | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| acetone | < 2 | 2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 1,1-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| methylene chloride | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| carbon disulfide | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| methyl t-butyl ether (MTBE) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| trans-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 1,1-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 2-butanone (MEK) | < 0.3 | 0.3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 2,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| cis-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| chloroform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| bromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| tetrahydrofuran (THF) | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 1,1,1-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 1,1-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| carbon tetrachloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 1,2-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| benzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| trichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 1,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| bromodichloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| dibromomethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 4-methyl-2-pentanone (MIBK) | < 0.4 | 0.4 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| cis-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| toluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| trans-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 2-hexanone | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 1,1,2-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 1,3-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| tetrachloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| dibromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 1,2-dibromoethane (EDB) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| chlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 1,1,1,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| ethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| m&p-xylenes | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-025
**Sample ID:** CA-CC-1
**Matrix:** Solid Percent Dry: 96.4% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 9:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| o-xylene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| styrene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| bromoform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| isopropylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 1,1,2,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 1,2,3-trichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| n-propylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| bromobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 1,3,5-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 2-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 4-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| tert-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 1,2,4-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| sec-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 1,3-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 4-isopropyltoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 1,4-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 1,2-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| n-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 1,2,4-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| hexachlorobutadiene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| naphthalene | **0.4** | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 1,2,3-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **101** | 78-114 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| toluene-D8 SUR | **101** | 88-110 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| 4-bromofluorobenzene SUR | **106** | 86-115 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |
| a,a,a-trifluorotoluene SUR | **103** | 70-130 | % | 1 | LMM | 10/8/12 | 5548 | 10/11/12 | 4:24 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-026
**Sample ID:** CA-CC-2
**Matrix:** Solid Percent Dry: 96.9% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 9:58

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| chloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| vinyl chloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| bromomethane | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| chloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| trichlorofluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| diethyl ether | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| acetone | < 2 | 2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 1,1-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| methylene chloride | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| carbon disulfide | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| methyl t-butyl ether (MTBE) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| trans-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 1,1-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 2-butanone (MEK) | < 0.3 | 0.3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 2,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| cis-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| chloroform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| bromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| tetrahydrofuran (THF) | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 1,1,1-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 1,1-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| carbon tetrachloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 1,2-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| benzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| trichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 1,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| bromodichloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| dibromomethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 4-methyl-2-pentanone (MIBK) | < 0.4 | 0.4 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| cis-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| toluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| trans-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 2-hexanone | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 1,1,2-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 1,3-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| tetrachloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| dibromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 1,2-dibromoethane (EDB) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| chlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 1,1,1,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| ethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| m&p-xylenes | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-026
**Sample ID:** CA-CC-2
**Matrix:** Solid Percent Dry: 96.9% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 9:58

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| o-xylene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| styrene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| bromoform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| isopropylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 1,1,2,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 1,2,3-trichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| n-propylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| bromobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 1,3,5-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 2-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 4-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| tert-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 1,2,4-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| sec-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 1,3-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 4-isopropyltoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 1,4-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 1,2-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| n-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 1,2,4-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| hexachlorobutadiene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| naphthalene | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 1,2,3-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **99** | 78-114 | % | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| toluene-D8 SUR | **102** | 88-110 | % | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| 4-bromofluorobenzene SUR | **107** | 86-115 | % | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |
| a,a,a-trifluorotoluene SUR | **101** | 70-130 | % | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 17:37 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-027
**Sample ID:** CA-CC-3
**Matrix:** Solid Percent Dry: 96.5% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 10:40

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| chloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| vinyl chloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| bromomethane | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| chloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| trichlorofluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| diethyl ether | < 0.4 | 0.4 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| acetone | < 2 | 2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 1,1-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| methylene chloride | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| carbon disulfide | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| methyl t-butyl ether (MTBE) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| trans-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 1,1-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 2-butanone (MEK) | < 0.3 | 0.3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 2,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| cis-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| chloroform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| bromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| tetrahydrofuran (THF) | < 0.4 | 0.4 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 1,1,1-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 1,1-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| carbon tetrachloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 1,2-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| benzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| trichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 1,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| bromodichloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| dibromomethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 4-methyl-2-pentanone (MIBK) | < 0.4 | 0.4 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| cis-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| toluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| trans-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 2-hexanone | < 0.4 | 0.4 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 1,1,2-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 1,3-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| tetrachloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| dibromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 1,2-dibromoethane (EDB) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| chlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 1,1,1,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| ethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| m&p-xylenes | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-027
**Sample ID:** CA-CC-3
**Matrix:** Solid Percent Dry: 96.5% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 10:40

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| o-xylene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| styrene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| bromoform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| isopropylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 1,1,2,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 1,2,3-trichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| n-propylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| bromobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 1,3,5-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 2-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 4-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| tert-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 1,2,4-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| sec-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 1,3-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 4-isopropyltoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 1,4-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 1,2-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| n-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 1,2,4-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| hexachlorobutadiene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| naphthalene | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 1,2,3-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **96** | 78-114 | % | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| toluene-D8 SUR | **103** | 88-110 | % | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| 4-bromofluorobenzene SUR | **102** | 86-115 | % | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |
| a,a,a-trifluorotoluene SUR | **100** | 70-130 | % | 1 | LMM | 10/8/12 | 5548 | 10/12/12 | 18:08 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-031
**Sample ID:** Trip Blank
**Matrix:** Solid
**Sampled:** 10/3/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| chloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| vinyl chloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| bromomethane | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| chloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| trichlorofluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| diethyl ether | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| acetone | < 2 | 2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 1,1-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| methylene chloride | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| carbon disulfide | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| methyl t-butyl ether (MTBE) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| trans-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 1,1-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 2-butanone (MEK) | < 0.3 | 0.3 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 2,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| cis-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| chloroform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| bromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| tetrahydrofuran (THF) | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 1,1,1-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 1,1-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| carbon tetrachloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 1,2-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| benzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| trichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 1,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| bromodichloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| dibromomethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 4-methyl-2-pentanone (MIBK) | < 0.4 | 0.4 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| cis-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| toluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| trans-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 2-hexanone | < 0.5 | 0.5 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 1,1,2-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 1,3-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| tetrachloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| dibromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 1,2-dibromoethane (EDB) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| chlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 1,1,1,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| ethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| m&p-xylenes | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-031
**Sample ID:** Trip Blank
**Matrix:** Solid
**Sampled:** 10/3/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| o-xylene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| styrene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| bromoform | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| isopropylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 1,1,2,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 1,2,3-trichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| n-propylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| bromobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 1,3,5-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 2-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 4-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| tert-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 1,2,4-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| sec-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 1,3-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 4-isopropyltoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 1,4-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 1,2-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| n-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 1,2,4-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| hexachlorobutadiene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| naphthalene | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 1,2,3-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **104** | 78-114 | % | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| toluene-D8 SUR | **101** | 88-110 | % | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| 4-bromofluorobenzene SUR | **99** | 86-115 | % | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |
| a,a,a-trifluorotoluene SUR | **95** | 70-130 | % | 1 | LMM | 10/8/12 | 5548 | 10/10/12 | 23:40 | SW5035A8260B |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-001
**Sample ID:** CA-SB-1 2.5-5
**Matrix:** Solid Percent Dry: 84.1% Results expressed on a dry weight basis.
Samples prepared in methanol at a ratio of 0.62 mL MeOH/g soil.
Received on ice at 0˚C, in satisfactory condition.
**Sampled:** 10/2/12 15:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Unadjusted C5-C8 Aliphatics | < 5 | 5 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:02 | MA VPH |
| Unadjusted C9-C12 Aliphatics | **24** | 5 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:02 | MA VPH |
| methyl t-butyl ether (MTBE) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:02 | MA VPH |
| benzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:02 | MA VPH |
| toluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:02 | MA VPH |
| ethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:02 | MA VPH |
| m&p-xylenes | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:02 | MA VPH |
| o-xylene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:02 | MA VPH |
| naphthalene | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:02 | MA VPH |
| C5-C8 Aliphatics | < 5 | 5 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:02 | MA VPH |
| C9-C12 Aliphatics | **23** | 5 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:02 | MA VPH |
| C9-C10 Aromatics | < 5 | 5 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:02 | MA VPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2,5-dibromotoluene as Aromatic SUR | **104** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:02 | MA VPH |
| 2,5-dibromotoluene as Aliphatic SUR | **100** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:02 | MA VPH |
| a,a,a-trifluorotoluene SUR | **115** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:02 | MA VPH |

Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in that range.
C9-C12 Aliphatic Hydrocarbons exclude concentration of target analytes eluting in that range AND C9-C10 Aromatics.

**Sample#:** 25123-004
**Sample ID:** CA-SB-4 0-2
**Matrix:** Solid Percent Dry: 97.2% Results expressed on a dry weight basis.
Received on ice at 0˚C, in satisfactory condition.
**Sampled:** 10/2/12 11:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Unadjusted C5-C8 Aliphatics | < 3 | 3 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:35 | MA VPH |
| Unadjusted C9-C12 Aliphatics | < 3 | 3 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:35 | MA VPH |
| C9-C10 Aromatics | < 3 | 3 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:35 | MA VPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2,5-dibromotoluene as Aromatic SUR | **101** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:35 | MA VPH |
| 2,5-dibromotoluene as Aliphatic SUR | **103** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:35 | MA VPH |
| a,a,a-trifluorotoluene SUR | **100** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 21:35 | MA VPH |

Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in that range.
C9-C12 Aliphatic Hydrocarbons exclude concentration of target analytes eluting in that range AND C9-C10 Aromatics.

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-007
**Sample ID:** CA-SB-6 12.5-15
**Matrix:** Solid Percent Dry: 77% Results expressed on a dry weight basis.
Received on ice at 0˚C, in satisfactory condition.
**Sampled:** 10/3/12 8:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Unadjusted C5-C8 Aliphatics | < 6 | 6 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 22:08 | MA VPH |
| Unadjusted C9-C12 Aliphatics | < 6 | 6 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 22:08 | MA VPH |
| C9-C10 Aromatics | < 6 | 6 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 22:08 | MA VPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2,5-dibromotoluene as Aromatic SUR | **102** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 22:08 | MA VPH |
| 2,5-dibromotoluene as Aliphatic SUR | **99** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 22:08 | MA VPH |
| a,a,a-trifluorotoluene SUR | **97** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 22:08 | MA VPH |

Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in that range.
C9-C12 Aliphatic Hydrocarbons exclude concentration of target analytes eluting in that range AND C9-C10 Aromatics.

**Sample#:** 25123-008
**Sample ID:** CA-SB-7 7.5-10
**Matrix:** Solid Percent Dry: 88.4% Results expressed on a dry weight basis.
Received on ice at 0˚C, in satisfactory condition.
**Sampled:** 10/2/12 16:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Unadjusted C5-C8 Aliphatics | < 4 | 4 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 22:41 | MA VPH |
| Unadjusted C9-C12 Aliphatics | < 4 | 4 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 22:41 | MA VPH |
| C9-C10 Aromatics | < 4 | 4 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 22:41 | MA VPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2,5-dibromotoluene as Aromatic SUR | **100** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 22:41 | MA VPH |
| 2,5-dibromotoluene as Aliphatic SUR | **102** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 22:41 | MA VPH |
| a,a,a-trifluorotoluene SUR | **100** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 22:41 | MA VPH |

Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in that range.
C9-C12 Aliphatic Hydrocarbons exclude concentration of target analytes eluting in that range AND C9-C10 Aromatics.

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-013
**Sample ID:** CA-SB-11 10-15
**Matrix:** Solid Percent Dry: 78.5% Results expressed on a dry weight basis.
Received on ice at 0˚C, in satisfactory condition.
**Sampled:** 10/3/12 8:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Unadjusted C5-C8 Aliphatics | < 5 | 5 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/10/12 | 1:58 | MA VPH |
| Unadjusted C9-C12 Aliphatics | < 5 | 5 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/10/12 | 1:58 | MA VPH |
| C9-C10 Aromatics | < 5 | 5 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/10/12 | 1:58 | MA VPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2,5-dibromotoluene as Aromatic SUR | **102** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/10/12 | 1:58 | MA VPH |
| 2,5-dibromotoluene as Aliphatic SUR | **104** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/10/12 | 1:58 | MA VPH |
| a,a,a-trifluorotoluene SUR | **116** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/10/12 | 1:58 | MA VPH |

Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in that range.
C9-C12 Aliphatic Hydrocarbons exclude concentration of target analytes eluting in that range AND C9-C10 Aromatics.

**Sample#:** 25123-014
**Sample ID:** SB-DUP-2
**Matrix:** Solid Percent Dry: 77.6% Results expressed on a dry weight basis.
Received on ice at 0˚C, in satisfactory condition.
**Sampled:** 10/3/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Unadjusted C5-C8 Aliphatics | < 5 | 5 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/10/12 | 0:52 | MA VPH |
| Unadjusted C9-C12 Aliphatics | < 5 | 5 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/10/12 | 0:52 | MA VPH |
| C9-C10 Aromatics | < 5 | 5 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/10/12 | 0:52 | MA VPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2,5-dibromotoluene as Aromatic SUR | **101** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/10/12 | 0:52 | MA VPH |
| 2,5-dibromotoluene as Aliphatic SUR | **105** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/10/12 | 0:52 | MA VPH |
| a,a,a-trifluorotoluene SUR | **111** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/10/12 | 0:52 | MA VPH |

Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in that range.
C9-C12 Aliphatic Hydrocarbons exclude concentration of target analytes eluting in that range AND C9-C10 Aromatics.

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-018
**Sample ID:** CA-SB-14 0-3
**Matrix:** Solid Percent Dry: 94.8% Results expressed on a dry weight basis.
Samples prepared in methanol at a ratio of 0.69 mL MeOH/g soil.
Received on ice at 0˚C, in satisfactory condition.
**Sampled:** 10/2/12 10:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Unadjusted C5-C8 Aliphatics | < 4 | 4 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:47 | MA VPH |
| Unadjusted C9-C12 Aliphatics | < 4 | 4 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:47 | MA VPH |
| methyl t-butyl ether (MTBE) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:47 | MA VPH |
| benzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:47 | MA VPH |
| toluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:47 | MA VPH |
| ethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:47 | MA VPH |
| m&p-xylenes | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:47 | MA VPH |
| o-xylene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:47 | MA VPH |
| naphthalene | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:47 | MA VPH |
| C5-C8 Aliphatics | < 4 | 4 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:47 | MA VPH |
| C9-C12 Aliphatics | < 4 | 4 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:47 | MA VPH |
| C9-C10 Aromatics | < 4 | 4 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:47 | MA VPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2,5-dibromotoluene as Aromatic SUR | **99** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:47 | MA VPH |
| 2,5-dibromotoluene as Aliphatic SUR | **102** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:47 | MA VPH |
| a,a,a-trifluorotoluene SUR | **103** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:47 | MA VPH |

Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in that range.
C9-C12 Aliphatic Hydrocarbons exclude concentration of target analytes eluting in that range AND C9-C10 Aromatics.

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-019
**Sample ID:** CA-SB-15 5-5.5
**Matrix:** Solid Percent Dry: 88.1% Results expressed on a dry weight basis.
Samples prepared in methanol at a ratio of 0.64 mL MeOH/g soil.
Received on ice at 0˚C, in satisfactory condition.
**Sampled:** 10/2/12 10:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Unadjusted C5-C8 Aliphatics | < 4 | 4 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:14 | MA VPH |
| Unadjusted C9-C12 Aliphatics | < 4 | 4 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:14 | MA VPH |
| methyl t-butyl ether (MTBE) | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:14 | MA VPH |
| benzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:14 | MA VPH |
| toluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:14 | MA VPH |
| ethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:14 | MA VPH |
| m&p-xylenes | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:14 | MA VPH |
| o-xylene | < 0.1 | 0.1 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:14 | MA VPH |
| naphthalene | < 0.2 | 0.2 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:14 | MA VPH |
| C5-C8 Aliphatics | < 4 | 4 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:14 | MA VPH |
| C9-C12 Aliphatics | < 4 | 4 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:14 | MA VPH |
| C9-C10 Aromatics | < 4 | 4 | ug/g | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:14 | MA VPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2,5-dibromotoluene as Aromatic SUR | **100** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:14 | MA VPH |
| 2,5-dibromotoluene as Aliphatic SUR | **107** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:14 | MA VPH |
| a,a,a-trifluorotoluene SUR | **101** | 70-130 | % | 1 | LMM | 10/8/12 | 5549 | 10/9/12 | 23:14 | MA VPH |

Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in that range.
C9-C12 Aliphatic Hydrocarbons exclude concentration of target analytes eluting in that range AND C9-C10 Aromatics.

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-004
**Sample ID:** CA-SB-4 0-2
**Matrix:** Solid Percent Dry: 97.2% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 11:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| N-nitrosodimethylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| aniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| phenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 2-chlorophenol | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| bis(2-chloroethyl)ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 1,3-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 1,4-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 1,2-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| benzyl alcohol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 2-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| bis(2-chloroisopropyl) ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| hexachloroethane | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| N-nitroso-di-N-propylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 4-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| nitrobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| isophorone | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 2-nitrophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 2,4-dimethylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| bis(2-chloroethoxy)methane | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 2,4-dichlorophenol | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 1,2,4-trichlorobenzene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| naphthalene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| benzoic acid | < 5 | 5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 4-chloroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| hexachlorobutadiene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 4-chloro-3-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 2-methylnaphthalene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| hexachlorocyclopentadiene | < 1 | 1 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 2,4,6-trichlorophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 2,4,5-trichlorophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 2-chloronaphthalene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 2-nitroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| acenaphthylene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| dimethylphthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 2,6-dinitrotoluene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 2,4-dinitrotoluene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| acenaphthene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 3-nitroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 2,4-dinitrophenol | < 5 | 5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| dibenzofuran | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 4-nitrophenol | < 2 | 2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| fluorene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| diethyl phthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-004
**Sample ID:** CA-SB-4 0-2
**Matrix:** Solid Percent Dry: 97.2% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 11:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-chlorophenyl phenyl ether | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 4-nitroaniline | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 4,6-dinitro-2-methylphenol | < 2 | 2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| azobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| N-nitrosodiphenylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 4-bromophenyl phenyl ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| hexachlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| pentachlorophenol | < 1 | 1 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| phenanthrene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| anthracene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| carbazole | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| di-n-butylphthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| fluoranthene | **0.05** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| benzidine | < 3 | 3 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| pyrene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| butyl benzyl phthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| benzo(a)anthracene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| chrysene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 3,3'-dichlorobenzidine | < 3 | 3 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| bis(2-ethylhexyl)phthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| di-n-octyl phthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| benzo(b)fluoranthene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| benzo(k)fluoranthene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| benzo(a)pyrene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| indeno(1,2,3-cd)pyrene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| dibenzo(a,h)anthracene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| benzo(g,h,i)perylene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorophenol SUR | **52** | 21-100 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| phenol-D5 SUR | **52** | 10-102 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 2,4,6-tribromophenol SUR | **70** | 10-123 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| nitrobenzene-D5 SUR | **52** | 35-114 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| 2-fluorobiphenyl SUR | **68** | 43-116 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |
| p-terphenyl-D14 SUR | **69** | 33-141 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 15:33 | SW3546/8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-005
**Sample ID:** CA-SB-5 5-10
**Matrix:** Solid Percent Dry: 85.6% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 13:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| N-nitrosodimethylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| aniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| phenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 2-chlorophenol | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| bis(2-chloroethyl)ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 1,3-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 1,4-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 1,2-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| benzyl alcohol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 2-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| bis(2-chloroisopropyl) ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| hexachloroethane | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| N-nitroso-di-N-propylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 4-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| nitrobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| isophorone | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 2-nitrophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 2,4-dimethylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| bis(2-chloroethoxy)methane | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 2,4-dichlorophenol | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 1,2,4-trichlorobenzene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| naphthalene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| benzoic acid | < 5 | 5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 4-chloroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| hexachlorobutadiene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 4-chloro-3-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 2-methylnaphthalene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| hexachlorocyclopentadiene | < 1 | 1 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 2,4,6-trichlorophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 2,4,5-trichlorophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 2-chloronaphthalene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 2-nitroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| acenaphthylene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| dimethylphthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 2,6-dinitrotoluene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 2,4-dinitrotoluene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| acenaphthene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 3-nitroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 2,4-dinitrophenol | < 5 | 5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| dibenzofuran | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 4-nitrophenol | < 2 | 2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| fluorene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| diethyl phthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-005
**Sample ID:** CA-SB-5 5-10
**Matrix:** Solid Percent Dry: 85.6% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 13:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-chlorophenyl phenyl ether | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 4-nitroaniline | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 4,6-dinitro-2-methylphenol | < 2 | 2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| azobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| N-nitrosodiphenylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 4-bromophenyl phenyl ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| hexachlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| pentachlorophenol | < 1 | 1 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| phenanthrene | **0.09** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| anthracene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| carbazole | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| di-n-butylphthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| fluoranthene | **0.21** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| benzidine | < 3 | 3 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| pyrene | **0.19** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| butyl benzyl phthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| benzo(a)anthracene | **0.12** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| chrysene | **0.13** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 3,3'-dichlorobenzidine | < 3 | 3 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| bis(2-ethylhexyl)phthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| di-n-octyl phthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| benzo(b)fluoranthene | **0.14** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| benzo(k)fluoranthene | **0.15** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| benzo(a)pyrene | **0.12** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| indeno(1,2,3-cd)pyrene | **0.06** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| dibenzo(a,h)anthracene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| benzo(g,h,i)perylene | **0.06** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorophenol SUR | **47** | 21-100 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| phenol-D5 SUR | **47** | 10-102 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 2,4,6-tribromophenol SUR | **53** | 10-123 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| nitrobenzene-D5 SUR | **47** | 35-114 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| 2-fluorobiphenyl SUR | **60** | 43-116 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |
| p-terphenyl-D14 SUR | **59** | 33-141 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:45 | SW3546/8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-006
**Sample ID:** CA-SB-6 0-5
**Matrix:** Solid Percent Dry: 93.2% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 9:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| naphthalene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 18:56 | SW3550B8270D |
| 2-methylnaphthalene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 18:56 | SW3550B8270D |
| acenaphthylene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 18:56 | SW3550B8270D |
| acenaphthene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 18:56 | SW3550B8270D |
| dibenzofuran | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 18:56 | SW3550B8270D |
| fluorene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 18:56 | SW3550B8270D |
| phenanthrene | **0.6** | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 18:56 | SW3550B8270D |
| anthracene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 18:56 | SW3550B8270D |
| fluoranthene | **1.2** | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 18:56 | SW3550B8270D |
| pyrene | **1.0** | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 18:56 | SW3550B8270D |
| benzo(a)anthracene | **0.6** | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 18:56 | SW3550B8270D |
| chrysene | **0.5** | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 18:56 | SW3550B8270D |
| benzo(b)fluoranthene | **0.6** | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 18:56 | SW3550B8270D |
| benzo(k)fluoranthene | **0.5** | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 18:56 | SW3550B8270D |
| benzo(a)pyrene | **0.5** | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 18:56 | SW3550B8270D |
| indeno(1,2,3-cd)pyrene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 18:56 | SW3550B8270D |
| dibenzo(a,h)anthracene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 18:56 | SW3550B8270D |
| benzo(g,h,i)perylene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 18:56 | SW3550B8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorobiphenyl SUR | **93** | 43-116 | % | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 18:56 | SW3550B8270D |
| o-terphenyl SUR | **96** | 33-141 | % | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 18:56 | SW3550B8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-007
**Sample ID:** CA-SB-6 12.5-15
**Matrix:** Solid Percent Dry: 77% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 8:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| N-nitrosodimethylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| aniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| phenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 2-chlorophenol | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| bis(2-chloroethyl)ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 1,3-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 1,4-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 1,2-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| benzyl alcohol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 2-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| bis(2-chloroisopropyl) ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| hexachloroethane | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| N-nitroso-di-N-propylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 4-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| nitrobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| isophorone | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 2-nitrophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 2,4-dimethylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| bis(2-chloroethoxy)methane | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 2,4-dichlorophenol | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 1,2,4-trichlorobenzene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| naphthalene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| benzoic acid | < 6 | 6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 4-chloroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| hexachlorobutadiene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 4-chloro-3-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 2-methylnaphthalene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| hexachlorocyclopentadiene | < 1 | 1 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 2,4,6-trichlorophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 2,4,5-trichlorophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 2-chloronaphthalene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 2-nitroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| acenaphthylene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| dimethylphthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 2,6-dinitrotoluene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 2,4-dinitrotoluene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| acenaphthene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 3-nitroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 2,4-dinitrophenol | < 6 | 6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| dibenzofuran | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 4-nitrophenol | < 2 | 2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| fluorene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| diethyl phthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-007
**Sample ID:** CA-SB-6 12.5-15
**Matrix:** Solid Percent Dry: 77% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 8:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-chlorophenyl phenyl ether | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 4-nitroaniline | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 4,6-dinitro-2-methylphenol | < 2 | 2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| azobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| N-nitrosodiphenylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 4-bromophenyl phenyl ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| hexachlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| pentachlorophenol | < 1 | 1 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| phenanthrene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| anthracene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| carbazole | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| di-n-butylphthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| fluoranthene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| benzidine | < 4 | 4 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| pyrene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| butyl benzyl phthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| benzo(a)anthracene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| chrysene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 3,3'-dichlorobenzidine | < 4 | 4 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| bis(2-ethylhexyl)phthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| di-n-octyl phthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| benzo(b)fluoranthene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| benzo(k)fluoranthene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| benzo(a)pyrene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| indeno(1,2,3-cd)pyrene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| dibenzo(a,h)anthracene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| benzo(g,h,i)perylene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorophenol SUR | **56** | 21-100 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| phenol-D5 SUR | **53** | 10-102 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 2,4,6-tribromophenol SUR | **61** | 10-123 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| nitrobenzene-D5 SUR | **53** | 35-114 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| 2-fluorobiphenyl SUR | **64** | 43-116 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |
| p-terphenyl-D14 SUR | **58** | 33-141 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:47 | SW3546/8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-008
**Sample ID:** CA-SB-7 7.5-10
**Matrix:** Solid Percent Dry: 88.4% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 16:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| N-nitrosodimethylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| aniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| phenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 2-chlorophenol | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| bis(2-chloroethyl)ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 1,3-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 1,4-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 1,2-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| benzyl alcohol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 2-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| bis(2-chloroisopropyl) ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| hexachloroethane | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| N-nitroso-di-N-propylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 4-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| nitrobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| isophorone | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 2-nitrophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 2,4-dimethylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| bis(2-chloroethoxy)methane | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 2,4-dichlorophenol | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 1,2,4-trichlorobenzene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| naphthalene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| benzoic acid | < 6 | 6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 4-chloroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| hexachlorobutadiene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 4-chloro-3-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 2-methylnaphthalene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| hexachlorocyclopentadiene | < 1 | 1 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 2,4,6-trichlorophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 2,4,5-trichlorophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 2-chloronaphthalene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 2-nitroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| acenaphthylene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| dimethylphthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 2,6-dinitrotoluene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 2,4-dinitrotoluene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| acenaphthene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 3-nitroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 2,4-dinitrophenol | < 6 | 6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| dibenzofuran | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 4-nitrophenol | < 2 | 2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| fluorene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| diethyl phthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-008
**Sample ID:** CA-SB-7 7.5-10
**Matrix:** Solid Percent Dry: 88.4% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 16:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-chlorophenyl phenyl ether | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 4-nitroaniline | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 4,6-dinitro-2-methylphenol | < 2 | 2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| azobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| N-nitrosodiphenylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 4-bromophenyl phenyl ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| hexachlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| pentachlorophenol | < 1 | 1 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| phenanthrene | **0.06** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| anthracene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| carbazole | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| di-n-butylphthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| fluoranthene | **0.08** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| benzidine | < 3 | 3 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| pyrene | **0.09** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| butyl benzyl phthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| benzo(a)anthracene | **0.06** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| chrysene | **0.07** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 3,3'-dichlorobenzidine | < 3 | 3 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| bis(2-ethylhexyl)phthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| di-n-octyl phthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| benzo(b)fluoranthene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| benzo(k)fluoranthene | **0.09** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| benzo(a)pyrene | **0.08** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| indeno(1,2,3-cd)pyrene | **0.06** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| dibenzo(a,h)anthracene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| benzo(g,h,i)perylene | **0.07** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorophenol SUR | **55** | 21-100 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| phenol-D5 SUR | **52** | 10-102 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 2,4,6-tribromophenol SUR | **63** | 10-123 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| nitrobenzene-D5 SUR | **52** | 35-114 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| 2-fluorobiphenyl SUR | **64** | 43-116 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |
| p-terphenyl-D14 SUR | **65** | 33-141 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 16:10 | SW3546/8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-009
**Sample ID:** CA-SB-8 0-2.5
**Matrix:** Solid Percent Dry: 97.7% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 8:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| naphthalene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 17:04 | SW3550B8270D |
| 2-methylnaphthalene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 17:04 | SW3550B8270D |
| acenaphthylene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 17:04 | SW3550B8270D |
| acenaphthene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 17:04 | SW3550B8270D |
| dibenzofuran | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 17:04 | SW3550B8270D |
| fluorene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 17:04 | SW3550B8270D |
| phenanthrene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 17:04 | SW3550B8270D |
| anthracene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 17:04 | SW3550B8270D |
| fluoranthene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 17:04 | SW3550B8270D |
| pyrene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 17:04 | SW3550B8270D |
| benzo(a)anthracene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 17:04 | SW3550B8270D |
| chrysene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 17:04 | SW3550B8270D |
| benzo(b)fluoranthene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 17:04 | SW3550B8270D |
| benzo(k)fluoranthene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 17:04 | SW3550B8270D |
| benzo(a)pyrene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 17:04 | SW3550B8270D |
| indeno(1,2,3-cd)pyrene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 17:04 | SW3550B8270D |
| dibenzo(a,h)anthracene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 17:04 | SW3550B8270D |
| benzo(g,h,i)perylene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 17:04 | SW3550B8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorobiphenyl SUR | **86** | 43-116 | % | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 17:04 | SW3550B8270D |
| o-terphenyl SUR | **89** | 33-141 | % | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 17:04 | SW3550B8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-010
**Sample ID:** CA-SB-8 5-10
**Matrix:** Solid Percent Dry: 83.8% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 10:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| naphthalene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 19:33 | SW3550B8270D |
| 2-methylnaphthalene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 19:33 | SW3550B8270D |
| acenaphthylene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 19:33 | SW3550B8270D |
| acenaphthene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 19:33 | SW3550B8270D |
| dibenzofuran | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 19:33 | SW3550B8270D |
| fluorene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 19:33 | SW3550B8270D |
| phenanthrene | **0.6** | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 19:33 | SW3550B8270D |
| anthracene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 19:33 | SW3550B8270D |
| fluoranthene | **0.7** | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 19:33 | SW3550B8270D |
| pyrene | **0.8** | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 19:33 | SW3550B8270D |
| benzo(a)anthracene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 19:33 | SW3550B8270D |
| chrysene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 19:33 | SW3550B8270D |
| benzo(b)fluoranthene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 19:33 | SW3550B8270D |
| benzo(k)fluoranthene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 19:33 | SW3550B8270D |
| benzo(a)pyrene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 19:33 | SW3550B8270D |
| indeno(1,2,3-cd)pyrene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 19:33 | SW3550B8270D |
| dibenzo(a,h)anthracene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 19:33 | SW3550B8270D |
| benzo(g,h,i)perylene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 19:33 | SW3550B8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorobiphenyl SUR | **89** | 43-116 | % | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 19:33 | SW3550B8270D |
| o-terphenyl SUR | **88** | 33-141 | % | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 19:33 | SW3550B8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-012
**Sample ID:** CA-SB-10 10-15
**Matrix:** Solid Percent Dry: 79.7% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 12:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| N-nitrosodimethylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| aniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| phenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 2-chlorophenol | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| bis(2-chloroethyl)ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 1,3-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 1,4-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 1,2-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| benzyl alcohol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 2-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| bis(2-chloroisopropyl) ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| hexachloroethane | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| N-nitroso-di-N-propylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 4-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| nitrobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| isophorone | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 2-nitrophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 2,4-dimethylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| bis(2-chloroethoxy)methane | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 2,4-dichlorophenol | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 1,2,4-trichlorobenzene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| naphthalene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| benzoic acid | < 6 | 6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 4-chloroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| hexachlorobutadiene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 4-chloro-3-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 2-methylnaphthalene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| hexachlorocyclopentadiene | < 1 | 1 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 2,4,6-trichlorophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 2,4,5-trichlorophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 2-chloronaphthalene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 2-nitroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| acenaphthylene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| dimethylphthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 2,6-dinitrotoluene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 2,4-dinitrotoluene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| acenaphthene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 3-nitroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 2,4-dinitrophenol | < 6 | 6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| dibenzofuran | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 4-nitrophenol | < 2 | 2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| fluorene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| diethyl phthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-012
**Sample ID:** CA-SB-10 10-15
**Matrix:** Solid Percent Dry: 79.7% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 12:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-chlorophenyl phenyl ether | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 4-nitroaniline | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 4,6-dinitro-2-methylphenol | < 2 | 2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| azobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| N-nitrosodiphenylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 4-bromophenyl phenyl ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| hexachlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| pentachlorophenol | < 1 | 1 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| phenanthrene | **0.10** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| anthracene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| carbazole | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| di-n-butylphthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| fluoranthene | **0.25** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| benzidine | < 4 | 4 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| pyrene | **0.28** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| butyl benzyl phthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| benzo(a)anthracene | **0.21** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| chrysene | **0.20** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 3,3'-dichlorobenzidine | < 4 | 4 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| bis(2-ethylhexyl)phthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| di-n-octyl phthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| benzo(b)fluoranthene | **0.18** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| benzo(k)fluoranthene | **0.18** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| benzo(a)pyrene | **0.20** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| indeno(1,2,3-cd)pyrene | **0.11** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| dibenzo(a,h)anthracene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| benzo(g,h,i)perylene | **0.10** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorophenol SUR | **44** | 21-100 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| phenol-D5 SUR | **43** | 10-102 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 2,4,6-tribromophenol SUR | **59** | 10-123 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| nitrobenzene-D5 SUR | **42** | 35-114 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| 2-fluorobiphenyl SUR | **51** | 43-116 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |
| p-terphenyl-D14 SUR | **58** | 33-141 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:16 | SW3546/8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-013
**Sample ID:** CA-SB-11 10-15
**Matrix:** Solid Percent Dry: 78.5% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 8:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| N-nitrosodimethylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| aniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| phenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 2-chlorophenol | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| bis(2-chloroethyl)ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 1,3-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 1,4-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 1,2-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| benzyl alcohol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 2-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| bis(2-chloroisopropyl) ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| hexachloroethane | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| N-nitroso-di-N-propylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 4-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| nitrobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| isophorone | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 2-nitrophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 2,4-dimethylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| bis(2-chloroethoxy)methane | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 2,4-dichlorophenol | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 1,2,4-trichlorobenzene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| naphthalene | **0.06** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| benzoic acid | < 6 | 6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 4-chloroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| hexachlorobutadiene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 4-chloro-3-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 2-methylnaphthalene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| hexachlorocyclopentadiene | < 1 | 1 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 2,4,6-trichlorophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 2,4,5-trichlorophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 2-chloronaphthalene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 2-nitroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| acenaphthylene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| dimethylphthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 2,6-dinitrotoluene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 2,4-dinitrotoluene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| acenaphthene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 3-nitroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 2,4-dinitrophenol | < 6 | 6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| dibenzofuran | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 4-nitrophenol | < 2 | 2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| fluorene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| diethyl phthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-013
**Sample ID:** CA-SB-11 10-15
**Matrix:** Solid Percent Dry: 78.5% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 8:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-chlorophenyl phenyl ether | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 4-nitroaniline | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 4,6-dinitro-2-methylphenol | < 2 | 2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| azobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| N-nitrosodiphenylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 4-bromophenyl phenyl ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| hexachlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| pentachlorophenol | < 1 | 1 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| phenanthrene | **0.37** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| anthracene | **0.08** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| carbazole | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| di-n-butylphthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| fluoranthene | **0.38** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| benzidine | < 3 | 3 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| pyrene | **0.38** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| butyl benzyl phthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| benzo(a)anthracene | **0.20** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| chrysene | **0.21** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 3,3'-dichlorobenzidine | < 3 | 3 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| bis(2-ethylhexyl)phthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| di-n-octyl phthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| benzo(b)fluoranthene | **0.13** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| benzo(k)fluoranthene | **0.17** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| benzo(a)pyrene | **0.17** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| indeno(1,2,3-cd)pyrene | **0.07** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| dibenzo(a,h)anthracene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| benzo(g,h,i)perylene | **0.08** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorophenol SUR | **50** | 21-100 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| phenol-D5 SUR | **46** | 10-102 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 2,4,6-tribromophenol SUR | **68** | 10-123 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| nitrobenzene-D5 SUR | **46** | 35-114 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| 2-fluorobiphenyl SUR | **60** | 43-116 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |
| p-terphenyl-D14 SUR | **58** | 33-141 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 19:54 | SW3546/8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-014
**Sample ID:** SB-DUP-2
**Matrix:** Solid Percent Dry: 77.6% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| N-nitrosodimethylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| aniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| phenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 2-chlorophenol | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| bis(2-chloroethyl)ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 1,3-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 1,4-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 1,2-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| benzyl alcohol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 2-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| bis(2-chloroisopropyl) ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| hexachloroethane | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| N-nitroso-di-N-propylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 4-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| nitrobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| isophorone | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 2-nitrophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 2,4-dimethylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| bis(2-chloroethoxy)methane | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 2,4-dichlorophenol | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 1,2,4-trichlorobenzene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| naphthalene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| benzoic acid | < 6 | 6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 4-chloroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| hexachlorobutadiene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 4-chloro-3-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 2-methylnaphthalene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| hexachlorocyclopentadiene | < 1 | 1 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 2,4,6-trichlorophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 2,4,5-trichlorophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 2-chloronaphthalene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 2-nitroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| acenaphthylene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| dimethylphthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 2,6-dinitrotoluene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 2,4-dinitrotoluene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| acenaphthene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 3-nitroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 2,4-dinitrophenol | < 6 | 6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| dibenzofuran | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 4-nitrophenol | < 2 | 2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| fluorene | < 0.06 | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| diethyl phthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-014
**Sample ID:** SB-DUP-2
**Matrix:** Solid Percent Dry: 77.6% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-chlorophenyl phenyl ether | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 4-nitroaniline | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 4,6-dinitro-2-methylphenol | < 2 | 2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| azobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| N-nitrosodiphenylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 4-bromophenyl phenyl ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| hexachlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| pentachlorophenol | < 1 | 1 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| phenanthrene | **0.48** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| anthracene | **0.11** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| carbazole | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| di-n-butylphthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| fluoranthene | **0.64** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| benzidine | < 4 | 4 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| pyrene | **0.60** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| butyl benzyl phthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| benzo(a)anthracene | **0.33** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| chrysene | **0.33** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 3,3'-dichlorobenzidine | < 4 | 4 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| bis(2-ethylhexyl)phthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| di-n-octyl phthalate | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| benzo(b)fluoranthene | **0.32** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| benzo(k)fluoranthene | **0.23** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| benzo(a)pyrene | **0.31** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| indeno(1,2,3-cd)pyrene | **0.15** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| dibenzo(a,h)anthracene | **0.06** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| benzo(g,h,i)perylene | **0.15** | 0.06 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorophenol SUR | **50** | 21-100 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| phenol-D5 SUR | **47** | 10-102 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 2,4,6-tribromophenol SUR | **66** | 10-123 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| nitrobenzene-D5 SUR | **48** | 35-114 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| 2-fluorobiphenyl SUR | **62** | 43-116 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |
| p-terphenyl-D14 SUR | **57** | 33-141 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 20:31 | SW3546/8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-020
**Sample ID:** CA-SS-1
**Matrix:** Solid Percent Dry: 82.2% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 11:20

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| naphthalene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:10 | SW3550B8270D |
| 2-methylnaphthalene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:10 | SW3550B8270D |
| acenaphthylene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:10 | SW3550B8270D |
| acenaphthene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:10 | SW3550B8270D |
| dibenzofuran | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:10 | SW3550B8270D |
| fluorene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:10 | SW3550B8270D |
| phenanthrene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:10 | SW3550B8270D |
| anthracene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:10 | SW3550B8270D |
| fluoranthene | **0.8** | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:10 | SW3550B8270D |
| pyrene | **0.7** | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:10 | SW3550B8270D |
| benzo(a)anthracene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:10 | SW3550B8270D |
| chrysene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:10 | SW3550B8270D |
| benzo(b)fluoranthene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:10 | SW3550B8270D |
| benzo(k)fluoranthene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:10 | SW3550B8270D |
| benzo(a)pyrene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:10 | SW3550B8270D |
| indeno(1,2,3-cd)pyrene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:10 | SW3550B8270D |
| dibenzo(a,h)anthracene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:10 | SW3550B8270D |
| benzo(g,h,i)perylene | < 0.6 | 0.6 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:10 | SW3550B8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorobiphenyl SUR | **95** | 43-116 | % | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:10 | SW3550B8270D |
| o-terphenyl SUR | **100** | 33-141 | % | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:10 | SW3550B8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-021
**Sample ID:** CA-SS-2
**Matrix:** Solid Percent Dry: 91.8% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 12:10

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| naphthalene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 23:16 | SW3550B8270D |
| 2-methylnaphthalene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 23:16 | SW3550B8270D |
| acenaphthylene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 23:16 | SW3550B8270D |
| acenaphthene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 23:16 | SW3550B8270D |
| dibenzofuran | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 23:16 | SW3550B8270D |
| fluorene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 23:16 | SW3550B8270D |
| phenanthrene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 23:16 | SW3550B8270D |
| anthracene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 23:16 | SW3550B8270D |
| fluoranthene | **0.8** | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 23:16 | SW3550B8270D |
| pyrene | **0.8** | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 23:16 | SW3550B8270D |
| benzo(a)anthracene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 23:16 | SW3550B8270D |
| chrysene | **0.5** | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 23:16 | SW3550B8270D |
| benzo(b)fluoranthene | **0.7** | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 23:16 | SW3550B8270D |
| benzo(k)fluoranthene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 23:16 | SW3550B8270D |
| benzo(a)pyrene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 23:16 | SW3550B8270D |
| indeno(1,2,3-cd)pyrene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 23:16 | SW3550B8270D |
| dibenzo(a,h)anthracene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 23:16 | SW3550B8270D |
| benzo(g,h,i)perylene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 23:16 | SW3550B8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorobiphenyl SUR | **88** | 43-116 | % | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 23:16 | SW3550B8270D |
| o-terphenyl SUR | **90** | 33-141 | % | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 23:16 | SW3550B8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-022
**Sample ID:** CA-SS-3
**Matrix:** Solid Percent Dry: 93.4% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 12:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| naphthalene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:47 | SW3550B8270D |
| 2-methylnaphthalene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:47 | SW3550B8270D |
| acenaphthylene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:47 | SW3550B8270D |
| acenaphthene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:47 | SW3550B8270D |
| dibenzofuran | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:47 | SW3550B8270D |
| fluorene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:47 | SW3550B8270D |
| phenanthrene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:47 | SW3550B8270D |
| anthracene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:47 | SW3550B8270D |
| fluoranthene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:47 | SW3550B8270D |
| pyrene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:47 | SW3550B8270D |
| benzo(a)anthracene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:47 | SW3550B8270D |
| chrysene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:47 | SW3550B8270D |
| benzo(b)fluoranthene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:47 | SW3550B8270D |
| benzo(k)fluoranthene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:47 | SW3550B8270D |
| benzo(a)pyrene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:47 | SW3550B8270D |
| indeno(1,2,3-cd)pyrene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:47 | SW3550B8270D |
| dibenzo(a,h)anthracene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:47 | SW3550B8270D |
| benzo(g,h,i)perylene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:47 | SW3550B8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorobiphenyl SUR | **90** | 43-116 | % | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:47 | SW3550B8270D |
| o-terphenyl SUR | **92** | 33-141 | % | 1 | AJD | 10/10/12 | 5555 | 10/11/12 | 20:47 | SW3550B8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-025
**Sample ID:** CA-CC-1
**Matrix:** Solid Percent Dry: 96.4% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 9:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| N-nitrosodimethylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| aniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| phenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 2-chlorophenol | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| bis(2-chloroethyl)ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 1,3-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 1,4-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 1,2-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| benzyl alcohol | **0.4** | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 2-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| bis(2-chloroisopropyl) ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| hexachloroethane | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| N-nitroso-di-N-propylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 4-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| nitrobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| isophorone | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 2-nitrophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 2,4-dimethylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| bis(2-chloroethoxy)methane | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 2,4-dichlorophenol | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 1,2,4-trichlorobenzene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| naphthalene | **0.32** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| benzoic acid | < 5 | 5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 4-chloroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| hexachlorobutadiene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 4-chloro-3-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 2-methylnaphthalene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| hexachlorocyclopentadiene | < 1 | 1 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 2,4,6-trichlorophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 2,4,5-trichlorophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 2-chloronaphthalene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 2-nitroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| acenaphthylene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| dimethylphthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 2,6-dinitrotoluene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 2,4-dinitrotoluene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| acenaphthene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 3-nitroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 2,4-dinitrophenol | < 5 | 5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| dibenzofuran | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 4-nitrophenol | < 2 | 2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| fluorene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| diethyl phthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-025
**Sample ID:** CA-CC-1
**Matrix:** Solid Percent Dry: 96.4% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 9:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-chlorophenyl phenyl ether | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 4-nitroaniline | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 4,6-dinitro-2-methylphenol | < 2 | 2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| azobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| N-nitrosodiphenylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 4-bromophenyl phenyl ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| hexachlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| pentachlorophenol | < 1 | 1 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| phenanthrene | **0.21** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| anthracene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| carbazole | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| di-n-butylphthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| fluoranthene | **0.21** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| benzidine | < 3 | 3 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| pyrene | **0.18** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| butyl benzyl phthalate | **0.6** | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| benzo(a)anthracene | **0.06** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| chrysene | **0.09** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 3,3'-dichlorobenzidine | < 3 | 3 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| bis(2-ethylhexyl)phthalate | **2.4** | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| di-n-octyl phthalate | **0.5** | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| benzo(b)fluoranthene | **0.05** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| benzo(k)fluoranthene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| benzo(a)pyrene | **0.05** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| indeno(1,2,3-cd)pyrene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| dibenzo(a,h)anthracene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| benzo(g,h,i)perylene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorophenol SUR | **2** * | 21-100 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| phenol-D5 SUR | **18** | 10-102 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 2,4,6-tribromophenol SUR | **0** * | 10-123 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| nitrobenzene-D5 SUR | **42** | 35-114 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| 2-fluorobiphenyl SUR | **66** | 43-116 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |
| p-terphenyl-D14 SUR | **55** | 33-141 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 21:08 | SW3546/8270D |

**** This surrogate showed recovery outside the acceptance limits as a result of interferences caused by large co-eluting non-target compounds.***

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-026
**Sample ID:** CA-CC-2
**Matrix:** Solid Percent Dry: 96.9% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 9:58

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| N-nitrosodimethylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| aniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| phenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 2-chlorophenol | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| bis(2-chloroethyl)ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 1,3-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 1,4-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 1,2-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| benzyl alcohol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 2-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| bis(2-chloroisopropyl) ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| hexachloroethane | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| N-nitroso-di-N-propylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 4-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| nitrobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| isophorone | **1.8** | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 2-nitrophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 2,4-dimethylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| bis(2-chloroethoxy)methane | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 2,4-dichlorophenol | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 1,2,4-trichlorobenzene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| naphthalene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| benzoic acid | < 5 | 5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 4-chloroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| hexachlorobutadiene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 4-chloro-3-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 2-methylnaphthalene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| hexachlorocyclopentadiene | < 1 | 1 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 2,4,6-trichlorophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 2,4,5-trichlorophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 2-chloronaphthalene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 2-nitroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| acenaphthylene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| dimethylphthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 2,6-dinitrotoluene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 2,4-dinitrotoluene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| acenaphthene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 3-nitroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 2,4-dinitrophenol | < 5 | 5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| dibenzofuran | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 4-nitrophenol | < 2 | 2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| fluorene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| diethyl phthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-026
**Sample ID:** CA-CC-2
**Matrix:** Solid Percent Dry: 96.9% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 9:58

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-chlorophenyl phenyl ether | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 4-nitroaniline | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 4,6-dinitro-2-methylphenol | < 2 | 2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| azobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| N-nitrosodiphenylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 4-bromophenyl phenyl ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| hexachlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| pentachlorophenol | < 1 | 1 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| phenanthrene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| anthracene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| carbazole | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| di-n-butylphthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| fluoranthene | **0.07** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| benzidine | < 3 | 3 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| pyrene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| butyl benzyl phthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| benzo(a)anthracene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| chrysene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 3,3'-dichlorobenzidine | < 3 | 3 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| bis(2-ethylhexyl)phthalate | **0.5** | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| di-n-octyl phthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| benzo(b)fluoranthene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| benzo(k)fluoranthene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| benzo(a)pyrene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| indeno(1,2,3-cd)pyrene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| dibenzo(a,h)anthracene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| benzo(g,h,i)perylene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorophenol SUR | **0** * | 21-100 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| phenol-D5 SUR | **3** * | 10-102 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 2,4,6-tribromophenol SUR | **0** * | 10-123 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| nitrobenzene-D5 SUR | **39** | 35-114 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| 2-fluorobiphenyl SUR | **52** | 43-116 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |
| p-terphenyl-D14 SUR | **53** | 33-141 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:18 | SW3546/8270D |

**** This surrogate showed recovery outside the acceptance limits as a result of interferences caused by large co-eluting non-target compounds.***

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-027
**Sample ID:** CA-CC-3
**Matrix:** Solid Percent Dry: 96.5% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 10:40

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| N-nitrosodimethylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| aniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| phenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 2-chlorophenol | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| bis(2-chloroethyl)ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 1,3-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 1,4-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 1,2-dichlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| benzyl alcohol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 2-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| bis(2-chloroisopropyl) ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| hexachloroethane | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| N-nitroso-di-N-propylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 4-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| nitrobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| isophorone | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 2-nitrophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 2,4-dimethylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| bis(2-chloroethoxy)methane | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 2,4-dichlorophenol | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 1,2,4-trichlorobenzene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| naphthalene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| benzoic acid | < 5 | 5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 4-chloroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| hexachlorobutadiene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 4-chloro-3-methylphenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 2-methylnaphthalene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| hexachlorocyclopentadiene | < 1 | 1 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 2,4,6-trichlorophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 2,4,5-trichlorophenol | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 2-chloronaphthalene | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 2-nitroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| acenaphthylene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| dimethylphthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 2,6-dinitrotoluene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 2,4-dinitrotoluene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| acenaphthene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 3-nitroaniline | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 2,4-dinitrophenol | < 5 | 5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| dibenzofuran | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 4-nitrophenol | < 2 | 2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| fluorene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| diethyl phthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-027
**Sample ID:** CA-CC-3
**Matrix:** Solid Percent Dry: 96.5% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 10:40

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-chlorophenyl phenyl ether | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 4-nitroaniline | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 4,6-dinitro-2-methylphenol | < 2 | 2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| azobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| N-nitrosodiphenylamine | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 4-bromophenyl phenyl ether | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| hexachlorobenzene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| pentachlorophenol | < 1 | 1 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| phenanthrene | **0.19** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| anthracene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| carbazole | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| di-n-butylphthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| fluoranthene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| benzidine | < 3 | 3 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| pyrene | **0.09** | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| butyl benzyl phthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| benzo(a)anthracene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| chrysene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 3,3'-dichlorobenzidine | < 3 | 3 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| bis(2-ethylhexyl)phthalate | **2.6** | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| di-n-octyl phthalate | < 0.5 | 0.5 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| benzo(b)fluoranthene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| benzo(k)fluoranthene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| benzo(a)pyrene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| indeno(1,2,3-cd)pyrene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| dibenzo(a,h)anthracene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| benzo(g,h,i)perylene | < 0.05 | 0.05 | ug/g | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorophenol SUR | **4** * | 21-100 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| phenol-D5 SUR | **15** | 10-102 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 2,4,6-tribromophenol SUR | **0** * | 10-123 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| nitrobenzene-D5 SUR | **51** | 35-114 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| 2-fluorobiphenyl SUR | **71** | 43-116 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |
| p-terphenyl-D14 SUR | **61** | 33-141 | % | 1 | AJD | 10/10/12 | 5556 | 10/12/12 | 14:56 | SW3546/8270D |

**** This surrogate showed recovery outside the acceptance limits as a result of interferences caused by large co-eluting non-target compounds.***

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-003
**Sample ID:** CA-SB-3 10-12.5
**Matrix:** Solid Percent Dry: 72.3% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 13:10

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 19:13 | SW3540C8082A |
| PCB-1221 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 19:13 | SW3540C8082A |
| PCB-1232 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 19:13 | SW3540C8082A |
| PCB-1242 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 19:13 | SW3540C8082A |
| PCB-1248 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 19:13 | SW3540C8082A |
| PCB-1254 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 19:13 | SW3540C8082A |
| PCB-1260 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 19:13 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **60** | 30-150 | % | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 19:13 | SW3540C8082A |
| decachlorobiphenyl SUR | **71** | 30-150 | % | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 19:13 | SW3540C8082A |

**Sample#:** 25123-005
**Sample ID:** CA-SB-5 5-10
**Matrix:** Solid Percent Dry: 85.6% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 13:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 7.1 | 7.1 | ug/g | 200 | JLZ | 10/8/12 | 5551 | 10/12/12 | 5:05 | SW3540C8082A |
| PCB-1221 | < 7.1 | 7.1 | ug/g | 200 | JLZ | 10/8/12 | 5551 | 10/12/12 | 5:05 | SW3540C8082A |
| PCB-1232 | < 7.1 | 7.1 | ug/g | 200 | JLZ | 10/8/12 | 5551 | 10/12/12 | 5:05 | SW3540C8082A |
| PCB-1242 | < 7.1 | 7.1 | ug/g | 200 | JLZ | 10/8/12 | 5551 | 10/12/12 | 5:05 | SW3540C8082A |
| PCB-1248 | < 7.1 | 7.1 | ug/g | 200 | JLZ | 10/8/12 | 5551 | 10/12/12 | 5:05 | SW3540C8082A |
| PCB-1254 | < 7.1 | 7.1 | ug/g | 200 | JLZ | 10/8/12 | 5551 | 10/12/12 | 5:05 | SW3540C8082A |
| PCB-1260 | **250** | 7.1 | ug/g | 200 | JLZ | 10/8/12 | 5551 | 10/12/12 | 5:05 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **DOR** | 30-150 | % | 200 | JLZ | 10/8/12 | 5551 | 10/12/12 | 5:05 | SW3540C8082A |
| decachlorobiphenyl SUR | **DOR** | 30-150 | % | 200 | JLZ | 10/8/12 | 5551 | 10/12/12 | 5:05 | SW3540C8082A |

***DOR = Diluted out of range.***

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-006
**Sample ID:** CA-SB-6 0-5
**Matrix:** Solid Percent Dry: 93.2% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 9:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/11/12 | 18:57 | SW3540C8082A |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/11/12 | 18:57 | SW3540C8082A |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/11/12 | 18:57 | SW3540C8082A |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/11/12 | 18:57 | SW3540C8082A |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/11/12 | 18:57 | SW3540C8082A |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/11/12 | 18:57 | SW3540C8082A |
| PCB-1260 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/11/12 | 18:57 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **71** | 30-150 | % | 1 | JLZ | 10/8/12 | 5551 | 10/11/12 | 18:57 | SW3540C8082A |
| decachlorobiphenyl SUR | **74** | 30-150 | % | 1 | JLZ | 10/8/12 | 5551 | 10/11/12 | 18:57 | SW3540C8082A |

**Sample#:** 25123-007
**Sample ID:** CA-SB-6 12.5-15
**Matrix:** Solid Percent Dry: 77% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 8:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/11/12 | 19:27 | SW3540C8082A |
| PCB-1221 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/11/12 | 19:27 | SW3540C8082A |
| PCB-1232 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/11/12 | 19:27 | SW3540C8082A |
| PCB-1242 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/11/12 | 19:27 | SW3540C8082A |
| PCB-1248 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/11/12 | 19:27 | SW3540C8082A |
| PCB-1254 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/11/12 | 19:27 | SW3540C8082A |
| PCB-1260 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/11/12 | 19:27 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **71** | 30-150 | % | 1 | JLZ | 10/8/12 | 5551 | 10/11/12 | 19:27 | SW3540C8082A |
| decachlorobiphenyl SUR | **82** | 30-150 | % | 1 | JLZ | 10/8/12 | 5551 | 10/11/12 | 19:27 | SW3540C8082A |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-008
**Sample ID:** CA-SB-7 7.5-10
**Matrix:** Solid Percent Dry: 88.4% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 16:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 21:14 | SW3540C8082A |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 21:14 | SW3540C8082A |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 21:14 | SW3540C8082A |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 21:14 | SW3540C8082A |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 21:14 | SW3540C8082A |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 21:14 | SW3540C8082A |
| PCB-1260 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 21:14 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **69** | 30-150 | % | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 21:14 | SW3540C8082A |
| decachlorobiphenyl SUR | **75** | 30-150 | % | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 21:14 | SW3540C8082A |

**Sample#:** 25123-009
**Sample ID:** CA-SB-8 0-2.5
**Matrix:** Solid Percent Dry: 97.7% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 8:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 21:45 | SW3540C8082A |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 21:45 | SW3540C8082A |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 21:45 | SW3540C8082A |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 21:45 | SW3540C8082A |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 21:45 | SW3540C8082A |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 21:45 | SW3540C8082A |
| PCB-1260 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 21:45 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **65** | 30-150 | % | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 21:45 | SW3540C8082A |
| decachlorobiphenyl SUR | **80** | 30-150 | % | 1 | JLZ | 10/8/12 | 5551 | 10/9/12 | 21:45 | SW3540C8082A |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-010
**Sample ID:** CA-SB-8 5-10
**Matrix:** Solid Percent Dry: 83.8% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 10:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 19:58 | SW3540C8082A |
| PCB-1221 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 19:58 | SW3540C8082A |
| PCB-1232 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 19:58 | SW3540C8082A |
| PCB-1242 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 19:58 | SW3540C8082A |
| PCB-1248 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 19:58 | SW3540C8082A |
| PCB-1254 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 19:58 | SW3540C8082A |
| PCB-1260 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 19:58 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **62** | 30-150 | % | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 19:58 | SW3540C8082A |
| decachlorobiphenyl SUR | **61** | 30-150 | % | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 19:58 | SW3540C8082A |

**Sample#:** 25123-011
**Sample ID:** CA-SB-9 0-4
**Matrix:** Solid Percent Dry: 82.4% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 12:10

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 20:28 | SW3540C8082A |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 20:28 | SW3540C8082A |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 20:28 | SW3540C8082A |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 20:28 | SW3540C8082A |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 20:28 | SW3540C8082A |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 20:28 | SW3540C8082A |
| PCB-1260 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 20:28 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **68** | 30-150 | % | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 20:28 | SW3540C8082A |
| decachlorobiphenyl SUR | **74** | 30-150 | % | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 20:28 | SW3540C8082A |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-012
**Sample ID:** CA-SB-10 10-15
**Matrix:** Solid Percent Dry: 79.7% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 12:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 1:32 | SW3540C8082A |
| PCB-1221 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 1:32 | SW3540C8082A |
| PCB-1232 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 1:32 | SW3540C8082A |
| PCB-1242 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 1:32 | SW3540C8082A |
| PCB-1248 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 1:32 | SW3540C8082A |
| PCB-1254 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 1:32 | SW3540C8082A |
| PCB-1260 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 1:32 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **59** | 30-150 | % | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 1:32 | SW3540C8082A |
| decachlorobiphenyl SUR | **58** | 30-150 | % | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 1:32 | SW3540C8082A |

**Sample#:** 25123-013
**Sample ID:** CA-SB-11 10-15
**Matrix:** Solid Percent Dry: 78.5% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 8:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/12/12 | 13:43 | SW3540C8082A |
| PCB-1221 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/12/12 | 13:43 | SW3540C8082A |
| PCB-1232 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/12/12 | 13:43 | SW3540C8082A |
| PCB-1242 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/12/12 | 13:43 | SW3540C8082A |
| PCB-1248 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/12/12 | 13:43 | SW3540C8082A |
| PCB-1254 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/12/12 | 13:43 | SW3540C8082A |
| PCB-1260 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/12/12 | 13:43 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **72** | 30-150 | % | 1 | JLZ | 10/9/12 | 5551 | 10/12/12 | 13:43 | SW3540C8082A |
| decachlorobiphenyl SUR | **74** | 30-150 | % | 1 | JLZ | 10/9/12 | 5551 | 10/12/12 | 13:43 | SW3540C8082A |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-015
**Sample ID:** CA-SB-12 15-18
**Matrix:** Solid Percent Dry: 52.1% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 8:45

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.06 | 0.06 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 21:29 | SW3540C8082A |
| PCB-1221 | < 0.06 | 0.06 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 21:29 | SW3540C8082A |
| PCB-1232 | < 0.06 | 0.06 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 21:29 | SW3540C8082A |
| PCB-1242 | < 0.06 | 0.06 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 21:29 | SW3540C8082A |
| PCB-1248 | < 0.06 | 0.06 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 21:29 | SW3540C8082A |
| PCB-1254 | < 0.06 | 0.06 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 21:29 | SW3540C8082A |
| PCB-1260 | < 0.06 | 0.06 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 21:29 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **62** | 30-150 | % | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 21:29 | SW3540C8082A |
| decachlorobiphenyl SUR | **75** | 30-150 | % | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 21:29 | SW3540C8082A |

**Sample#:** 25123-016
**Sample ID:** CA-SB-13 10-12
**Matrix:** Solid Percent Dry: 84.2% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 9:10

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 22:00 | SW3540C8082A |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 22:00 | SW3540C8082A |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 22:00 | SW3540C8082A |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 22:00 | SW3540C8082A |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 22:00 | SW3540C8082A |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 22:00 | SW3540C8082A |
| PCB-1260 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 22:00 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **54** | 30-150 | % | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 22:00 | SW3540C8082A |
| decachlorobiphenyl SUR | **52** | 30-150 | % | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 22:00 | SW3540C8082A |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-017
**Sample ID:** SB-DUP-1
**Matrix:** Solid Percent Dry: 87.8% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 22:30 | SW3540C8082A |
| PCB-1221 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 22:30 | SW3540C8082A |
| PCB-1232 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 22:30 | SW3540C8082A |
| PCB-1242 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 22:30 | SW3540C8082A |
| PCB-1248 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 22:30 | SW3540C8082A |
| PCB-1254 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 22:30 | SW3540C8082A |
| PCB-1260 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 22:30 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **51** | 30-150 | % | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 22:30 | SW3540C8082A |
| decachlorobiphenyl SUR | **58** | 30-150 | % | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 22:30 | SW3540C8082A |

**Sample#:** 25123-020
**Sample ID:** CA-SS-1
**Matrix:** Solid Percent Dry: 82.2% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 11:20

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 23:00 | SW3540C8082A |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 23:00 | SW3540C8082A |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 23:00 | SW3540C8082A |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 23:00 | SW3540C8082A |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 23:00 | SW3540C8082A |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 23:00 | SW3540C8082A |
| PCB-1260 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 23:00 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **66** | 30-150 | % | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 23:00 | SW3540C8082A |
| decachlorobiphenyl SUR | **75** | 30-150 | % | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 23:00 | SW3540C8082A |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-021
**Sample ID:** CA-SS-2
**Matrix:** Solid Percent Dry: 91.8% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 12:10

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 23:31 | SW3540C8082A |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 23:31 | SW3540C8082A |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 23:31 | SW3540C8082A |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 23:31 | SW3540C8082A |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 23:31 | SW3540C8082A |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 23:31 | SW3540C8082A |
| PCB-1260 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 23:31 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **60** | 30-150 | % | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 23:31 | SW3540C8082A |
| decachlorobiphenyl SUR | **62** | 30-150 | % | 1 | JLZ | 10/9/12 | 5551 | 10/11/12 | 23:31 | SW3540C8082A |

**Sample#:** 25123-022
**Sample ID:** CA-SS-3
**Matrix:** Solid Percent Dry: 93.4% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 12:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/12/12 | 1:02 | SW3540C8082A |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/12/12 | 1:02 | SW3540C8082A |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/12/12 | 1:02 | SW3540C8082A |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/12/12 | 1:02 | SW3540C8082A |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/12/12 | 1:02 | SW3540C8082A |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/12/12 | 1:02 | SW3540C8082A |
| PCB-1260 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/9/12 | 5551 | 10/12/12 | 1:02 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **69** | 30-150 | % | 1 | JLZ | 10/9/12 | 5551 | 10/12/12 | 1:02 | SW3540C8082A |
| decachlorobiphenyl SUR | **75** | 30-150 | % | 1 | JLZ | 10/9/12 | 5551 | 10/12/12 | 1:02 | SW3540C8082A |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-023
**Sample ID:** CA-SS-4
**Matrix:** Solid Percent Dry: 91.9% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 12:45

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 2:03 | SW3540C8082A |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 2:03 | SW3540C8082A |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 2:03 | SW3540C8082A |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 2:03 | SW3540C8082A |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 2:03 | SW3540C8082A |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 2:03 | SW3540C8082A |
| PCB-1260 | **0.75** | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 2:03 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **65** | 30-150 | % | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 2:03 | SW3540C8082A |
| decachlorobiphenyl SUR | **72** | 30-150 | % | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 2:03 | SW3540C8082A |

**Sample#:** 25123-024
**Sample ID:** CA-SS-5
**Matrix:** Solid Percent Dry: 81.2% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 13:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 2:33 | SW3540C8082A |
| PCB-1221 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 2:33 | SW3540C8082A |
| PCB-1232 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 2:33 | SW3540C8082A |
| PCB-1242 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 2:33 | SW3540C8082A |
| PCB-1248 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 2:33 | SW3540C8082A |
| PCB-1254 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 2:33 | SW3540C8082A |
| PCB-1260 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 2:33 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **61** | 30-150 | % | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 2:33 | SW3540C8082A |
| decachlorobiphenyl SUR | **57** | 30-150 | % | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 2:33 | SW3540C8082A |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-025
**Sample ID:** CA-CC-1
**Matrix:** Solid Percent Dry: 96.4% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 9:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.1 | 0.1 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 3:03 | SW3540C8082A |
| PCB-1221 | < 0.1 | 0.1 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 3:03 | SW3540C8082A |
| PCB-1232 | < 0.1 | 0.1 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 3:03 | SW3540C8082A |
| PCB-1242 | < 0.1 | 0.1 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 3:03 | SW3540C8082A |
| PCB-1248 | < 0.1 | 0.1 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 3:03 | SW3540C8082A |
| PCB-1254 | < 0.1 | 0.1 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 3:03 | SW3540C8082A |
| PCB-1260 | < 0.1 | 0.1 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 3:03 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **82** | 30-150 | % | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 3:03 | SW3540C8082A |
| decachlorobiphenyl SUR | **58** | 30-150 | % | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 3:03 | SW3540C8082A |

***Note: Elevated reporting limit due to matrix interference.***

**Sample#:** 25123-026
**Sample ID:** CA-CC-2
**Matrix:** Solid Percent Dry: 96.9% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 9:58

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.2 | 0.2 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 3:34 | SW3540C8082A |
| PCB-1221 | < 0.2 | 0.2 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 3:34 | SW3540C8082A |
| PCB-1232 | < 0.2 | 0.2 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 3:34 | SW3540C8082A |
| PCB-1242 | < 0.2 | 0.2 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 3:34 | SW3540C8082A |
| PCB-1248 | < 0.2 | 0.2 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 3:34 | SW3540C8082A |
| PCB-1254 | < 0.2 | 0.2 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 3:34 | SW3540C8082A |
| PCB-1260 | < 0.2 | 0.2 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 3:34 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **90** | 30-150 | % | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 3:34 | SW3540C8082A |
| decachlorobiphenyl SUR | **97** | 30-150 | % | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 3:34 | SW3540C8082A |

***Note: Elevated reporting limit due to matrix interference.***

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-027
**Sample ID:** CA-CC-3
**Matrix:** Solid Percent Dry: 96.5% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 10:40

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 4:04 | SW3540C8082A |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 4:04 | SW3540C8082A |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 4:04 | SW3540C8082A |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 4:04 | SW3540C8082A |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 4:04 | SW3540C8082A |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 4:04 | SW3540C8082A |
| PCB-1260 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 4:04 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **57** | 30-150 | % | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 4:04 | SW3540C8082A |
| decachlorobiphenyl SUR | **62** | 30-150 | % | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 4:04 | SW3540C8082A |

**Sample#:** 25123-028
**Sample ID:** CA-CC-4
**Matrix:** Solid Percent Dry: 96.8% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 11:25

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 4:34 | SW3540C8082A |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 4:34 | SW3540C8082A |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 4:34 | SW3540C8082A |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 4:34 | SW3540C8082A |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 4:34 | SW3540C8082A |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 4:34 | SW3540C8082A |
| PCB-1260 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 4:34 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **40** | 30-150 | % | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 4:34 | SW3540C8082A |
| decachlorobiphenyl SUR | **40** | 30-150 | % | 1 | JLZ | 10/10/12 | 5561 | 10/12/12 | 4:34 | SW3540C8082A |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-029
**Sample ID:** CA-CC-5
**Matrix:** Solid Percent Dry: 96.7% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 11:48

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.2 | 0.2 | ug/g | 1 | JLZ | 10/11/12 | 5561 | 10/12/12 | 10:13 | SW3540C8082A |
| PCB-1221 | < 0.2 | 0.2 | ug/g | 1 | JLZ | 10/11/12 | 5561 | 10/12/12 | 10:13 | SW3540C8082A |
| PCB-1232 | < 0.2 | 0.2 | ug/g | 1 | JLZ | 10/11/12 | 5561 | 10/12/12 | 10:13 | SW3540C8082A |
| PCB-1242 | < 0.2 | 0.2 | ug/g | 1 | JLZ | 10/11/12 | 5561 | 10/12/12 | 10:13 | SW3540C8082A |
| PCB-1248 | < 0.2 | 0.2 | ug/g | 1 | JLZ | 10/11/12 | 5561 | 10/12/12 | 10:13 | SW3540C8082A |
| PCB-1254 | < 0.2 | 0.2 | ug/g | 1 | JLZ | 10/11/12 | 5561 | 10/12/12 | 10:13 | SW3540C8082A |
| PCB-1260 | < 0.2 | 0.2 | ug/g | 1 | JLZ | 10/11/12 | 5561 | 10/12/12 | 10:13 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **#** | 30-150 | % | 1 | JLZ | 10/11/12 | 5561 | 10/12/12 | 10:13 | SW3540C8082A |
| decachlorobiphenyl SUR | **139** | 30-150 | % | 1 | JLZ | 10/11/12 | 5561 | 10/12/12 | 10:13 | SW3540C8082A |

***Note: Elevated reporting limit due to matrix interference.***
***# This surrogate is above the acceptance criteria. Since no targets were detected above the quantitation limit, there is no impact to the data.***

**Sample#:** 25123-030
**Sample ID:** STACK
**Matrix:** Solid Percent Dry: 99.8% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 14:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/11/12 | 5561 | 10/12/12 | 10:44 | SW3540C8082A |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/11/12 | 5561 | 10/12/12 | 10:44 | SW3540C8082A |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/11/12 | 5561 | 10/12/12 | 10:44 | SW3540C8082A |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/11/12 | 5561 | 10/12/12 | 10:44 | SW3540C8082A |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/11/12 | 5561 | 10/12/12 | 10:44 | SW3540C8082A |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/11/12 | 5561 | 10/12/12 | 10:44 | SW3540C8082A |
| PCB-1260 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 10/11/12 | 5561 | 10/12/12 | 10:44 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **61** | 30-150 | % | 1 | JLZ | 10/11/12 | 5561 | 10/12/12 | 10:44 | SW3540C8082A |
| decachlorobiphenyl SUR | **77** | 30-150 | % | 1 | JLZ | 10/11/12 | 5561 | 10/12/12 | 10:44 | SW3540C8082A |

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-002
**Sample ID:** CA-SB-2 0-1
**Matrix:** Solid Percent Dry: 87.6% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 15:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| naphthalene | **0.7** | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:39 | MA EPH |
| 2-methylnaphthalene | **0.8** | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:39 | MA EPH |
| phenanthrene | **22** | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:39 | MA EPH |
| acenaphthene | **3.0** | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:39 | MA EPH |
| acenaphthylene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:39 | MA EPH |
| fluorene | **3.3** | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:39 | MA EPH |
| anthracene | **6.0** | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:39 | MA EPH |
| fluoranthene | **15** | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:39 | MA EPH |
| pyrene | **15** | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:39 | MA EPH |
| benzo(a)anthracene | **8.1** | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:39 | MA EPH |
| chrysene | **7.3** | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:39 | MA EPH |
| benzo(b)fluoranthene | **4.2** | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:39 | MA EPH |
| benzo(k)fluoranthene | **5.2** | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:39 | MA EPH |
| benzo(a)pyrene | **5.3** | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:39 | MA EPH |
| indeno(1,2,3-cd)pyrene | **1.7** | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:39 | MA EPH |
| dibenzo(a,h)anthracene | **1.1** | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:39 | MA EPH |
| benzo(g,h,i)perylene | **1.6** | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:39 | MA EPH |
| Unadjusted C11-C22 Aromatics | **180** | 23 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/9/12 | 1:18 | MA EPH |
| C9-C18 Aliphatics | < 23 | 23 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/9/12 | 20:27 | MA EPH |
| C19-C36 Aliphatics | < 23 | 23 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/9/12 | 20:27 | MA EPH |
| C11-C22 Aromatics | **79** | 23 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/9/12 | 1:18 | MA EPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 1-chloro-octadecane SUR | **38** * | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/9/12 | 20:27 | MA EPH |
| o-terphenyl SUR | **31** * | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/9/12 | 1:18 | MA EPH |
| 2-fluorobiphenyl SUR | **69** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/9/12 | 1:18 | MA EPH |
| 2-bromonaphthalene SUR | **74** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/9/12 | 1:18 | MA EPH |

**** The surrogate showed recovery outside the acceptance limits. Results from re-extraction did not compare well. Both sets of data are provided.***

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-003
**Sample ID:** CA-SB-3 10-12.5
**Matrix:** Solid Percent Dry: 72.3% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 13:10

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| naphthalene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 14:22 | MA EPH |
| 2-methylnaphthalene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 14:22 | MA EPH |
| phenanthrene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 14:22 | MA EPH |
| acenaphthene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 14:22 | MA EPH |
| acenaphthylene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 14:22 | MA EPH |
| fluorene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 14:22 | MA EPH |
| anthracene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 14:22 | MA EPH |
| fluoranthene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 14:22 | MA EPH |
| pyrene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 14:22 | MA EPH |
| benzo(a)anthracene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 14:22 | MA EPH |
| chrysene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 14:22 | MA EPH |
| benzo(b)fluoranthene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 14:22 | MA EPH |
| benzo(k)fluoranthene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 14:22 | MA EPH |
| benzo(a)pyrene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 14:22 | MA EPH |
| indeno(1,2,3-cd)pyrene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 14:22 | MA EPH |
| dibenzo(a,h)anthracene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 14:22 | MA EPH |
| benzo(g,h,i)perylene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 14:22 | MA EPH |
| Unadjusted C11-C22 Aromatics | < 27 | 27 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/15/12 | 15:30 | MA EPH |
| C9-C18 Aliphatics | < 27 | 27 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/15/12 | 15:30 | MA EPH |
| C19-C36 Aliphatics | < 27 | 27 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/15/12 | 15:30 | MA EPH |
| C11-C22 Aromatics | < 27 | 27 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/15/12 | 15:30 | MA EPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 1-chloro-octadecane SUR | **50** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/15/12 | 15:30 | MA EPH |
| o-terphenyl SUR | **69** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/15/12 | 15:30 | MA EPH |
| 2-fluorobiphenyl SUR | **N/A** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/15/12 | 15:30 | MA EPH |
| 2-bromonaphthalene SUR | **N/A** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/15/12 | 15:30 | MA EPH |

***Note: No ranges were detected above the method reporting limit; therefore fractionation was not required.***

**Sample#:** 25123-004
**Sample ID:** CA-SB-4 0-2
**Matrix:** Solid Percent Dry: 97.2% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 11:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Unadjusted C11-C22 Aromatics | < 20 | 20 | ug/g | 1 | JLZ | 10/16/12 | 5572 | 10/17/12 | 15:16 | MA EPH |
| C9-C18 Aliphatics | < 20 | 20 | ug/g | 1 | JLZ | 10/16/12 | 5572 | 10/16/12 | 20:34 | MA EPH |
| C19-C36 Aliphatics | < 20 | 20 | ug/g | 1 | JLZ | 10/16/12 | 5572 | 10/16/12 | 20:34 | MA EPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 1-chloro-octadecane SUR | **62** | 40-140 | % | 1 | JLZ | 10/16/12 | 5572 | 10/16/12 | 20:34 | MA EPH |
| o-terphenyl SUR | **70** | 40-140 | % | 1 | JLZ | 10/16/12 | 5572 | 10/17/12 | 15:16 | MA EPH |
| 2-fluorobiphenyl SUR | **105** | 40-140 | % | 1 | JLZ | 10/16/12 | 5572 | 10/17/12 | 15:16 | MA EPH |
| 2-bromonaphthalene SUR | **108** | 40-140 | % | 1 | JLZ | 10/16/12 | 5572 | 10/17/12 | 15:16 | MA EPH |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-007
**Sample ID:** CA-SB-6 12.5-15
**Matrix:** Solid Percent Dry: 77% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 8:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Unadjusted C11-C22 Aromatics | < 24 | 24 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 20:12 | MA EPH |
| C9-C18 Aliphatics | < 24 | 24 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/9/12 | 21:21 | MA EPH |
| C19-C36 Aliphatics | **69** | 24 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/9/12 | 21:21 | MA EPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 1-chloro-octadecane SUR | **52** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/9/12 | 21:21 | MA EPH |
| o-terphenyl SUR | **46** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 20:12 | MA EPH |
| 2-fluorobiphenyl SUR | **76** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 20:12 | MA EPH |
| 2-bromonaphthalene SUR | **82** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 20:12 | MA EPH |

**Sample#:** 25123-008
**Sample ID:** CA-SB-7 7.5-10
**Matrix:** Solid Percent Dry: 88.4% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 16:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Unadjusted C11-C22 Aromatics | < 22 | 22 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 20:35 | MA EPH |
| C9-C18 Aliphatics | < 22 | 22 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/9/12 | 21:40 | MA EPH |
| C19-C36 Aliphatics | < 22 | 22 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/9/12 | 21:40 | MA EPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 1-chloro-octadecane SUR | **50** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/9/12 | 21:40 | MA EPH |
| o-terphenyl SUR | **45** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 20:35 | MA EPH |
| 2-fluorobiphenyl SUR | **74** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 20:35 | MA EPH |
| 2-bromonaphthalene SUR | **77** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 20:35 | MA EPH |

**Sample#:** 25123-013
**Sample ID:** CA-SB-11 10-15
**Matrix:** Solid Percent Dry: 78.5% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 8:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Unadjusted C11-C22 Aromatics | < 25 | 25 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 20:57 | MA EPH |
| C9-C18 Aliphatics | < 25 | 25 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/9/12 | 23:29 | MA EPH |
| C19-C36 Aliphatics | **88** | 25 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/9/12 | 23:29 | MA EPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 1-chloro-octadecane SUR | **48** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/9/12 | 23:29 | MA EPH |
| o-terphenyl SUR | **50** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 20:57 | MA EPH |
| 2-fluorobiphenyl SUR | **87** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 20:57 | MA EPH |
| 2-bromonaphthalene SUR | **94** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 20:57 | MA EPH |

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-014
**Sample ID:** SB-DUP-2
**Matrix:** Solid Percent Dry: 77.6% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Unadjusted C11-C22 Aromatics | < 25 | 25 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 21:20 | MA EPH |
| C9-C18 Aliphatics | < 25 | 25 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/9/12 | 23:47 | MA EPH |
| C19-C36 Aliphatics | **36** | 25 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/9/12 | 23:47 | MA EPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 1-chloro-octadecane SUR | **51** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/9/12 | 23:47 | MA EPH |
| o-terphenyl SUR | **42** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 21:20 | MA EPH |
| 2-fluorobiphenyl SUR | **72** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 21:20 | MA EPH |
| 2-bromonaphthalene SUR | **71** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 21:20 | MA EPH |

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-015
**Sample ID:** CA-SB-12 15-18
**Matrix:** Solid Percent Dry: 52.1% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 8:45

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| naphthalene | **0.4** | 0.2 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 13:45 | MA EPH |
| 2-methylnaphthalene | **1.1** | 0.2 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 13:45 | MA EPH |
| phenanthrene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 13:45 | MA EPH |
| acenaphthene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 13:45 | MA EPH |
| acenaphthylene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 13:45 | MA EPH |
| fluorene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 13:45 | MA EPH |
| anthracene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 13:45 | MA EPH |
| fluoranthene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 13:45 | MA EPH |
| pyrene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 13:45 | MA EPH |
| benzo(a)anthracene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 13:45 | MA EPH |
| chrysene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 13:45 | MA EPH |
| benzo(b)fluoranthene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 13:45 | MA EPH |
| benzo(k)fluoranthene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 13:45 | MA EPH |
| benzo(a)pyrene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 13:45 | MA EPH |
| indeno(1,2,3-cd)pyrene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 13:45 | MA EPH |
| dibenzo(a,h)anthracene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 13:45 | MA EPH |
| benzo(g,h,i)perylene | < 0.2 | 0.2 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 13:45 | MA EPH |
| Unadjusted C11-C22 Aromatics | **340** | 35 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 22:28 | MA EPH |
| C9-C18 Aliphatics | **990** | 35 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/10/12 | 0:06 | MA EPH |
| C19-C36 Aliphatics | **310** | 35 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/10/12 | 0:06 | MA EPH |
| C11-C22 Aromatics | **340** | 35 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 22:28 | MA EPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 1-chloro-octadecane SUR | **19** * | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/10/12 | 0:06 | MA EPH |
| o-terphenyl SUR | **33** * | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 22:28 | MA EPH |
| 2-fluorobiphenyl SUR | **101** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 22:28 | MA EPH |
| 2-bromonaphthalene SUR | **64** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 22:28 | MA EPH |

**** The surrogate showed recovery outside the acceptance limits as a result of hydrocarbons present in the sample. The chromatogram is included for reference.***

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-016
**Sample ID:** CA-SB-13 10-12
**Matrix:** Solid Percent Dry: 84.2% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 9:10

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| naphthalene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 21:25 | MA EPH |
| 2-methylnaphthalene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 21:25 | MA EPH |
| phenanthrene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 21:25 | MA EPH |
| acenaphthene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 21:25 | MA EPH |
| acenaphthylene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 21:25 | MA EPH |
| fluorene | **0.7** | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 21:25 | MA EPH |
| anthracene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 21:25 | MA EPH |
| fluoranthene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 21:25 | MA EPH |
| pyrene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 21:25 | MA EPH |
| benzo(a)anthracene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 21:25 | MA EPH |
| chrysene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 21:25 | MA EPH |
| benzo(b)fluoranthene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 21:25 | MA EPH |
| benzo(k)fluoranthene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 21:25 | MA EPH |
| benzo(a)pyrene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 21:25 | MA EPH |
| indeno(1,2,3-cd)pyrene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 21:25 | MA EPH |
| dibenzo(a,h)anthracene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 21:25 | MA EPH |
| benzo(g,h,i)perylene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 21:25 | MA EPH |
| Unadjusted C11-C22 Aromatics | **1300** | 23 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 22:51 | MA EPH |
| C9-C18 Aliphatics | **1600** | 23 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/10/12 | 1:00 | MA EPH |
| C19-C36 Aliphatics | **1900** | 23 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/10/12 | 1:00 | MA EPH |
| C11-C22 Aromatics | **1300** | 23 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 22:51 | MA EPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 1-chloro-octadecane SUR | **#** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/10/12 | 1:00 | MA EPH |
| o-terphenyl SUR | **41** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 22:51 | MA EPH |
| 2-fluorobiphenyl SUR | **109** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 22:51 | MA EPH |
| 2-bromonaphthalene SUR | **72** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 22:51 | MA EPH |

***# The surrogate could not be distinguished from hydrocarbons present in the chromatogram. The chromatogram is included for reference.***

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-017
**Sample ID:** SB-DUP-1
**Matrix:** Solid Percent Dry: 87.8% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| naphthalene | < 0.5 | 0.5 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:02 | MA EPH |
| 2-methylnaphthalene | < 0.5 | 0.5 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:02 | MA EPH |
| phenanthrene | < 0.5 | 0.5 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:02 | MA EPH |
| acenaphthene | < 0.5 | 0.5 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:02 | MA EPH |
| acenaphthylene | < 0.5 | 0.5 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:02 | MA EPH |
| fluorene | < 0.5 | 0.5 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:02 | MA EPH |
| anthracene | < 0.5 | 0.5 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:02 | MA EPH |
| fluoranthene | < 0.5 | 0.5 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:02 | MA EPH |
| pyrene | < 0.5 | 0.5 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:02 | MA EPH |
| benzo(a)anthracene | < 0.5 | 0.5 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:02 | MA EPH |
| chrysene | < 0.5 | 0.5 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:02 | MA EPH |
| benzo(b)fluoranthene | < 0.5 | 0.5 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:02 | MA EPH |
| benzo(k)fluoranthene | < 0.5 | 0.5 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:02 | MA EPH |
| benzo(a)pyrene | < 0.5 | 0.5 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:02 | MA EPH |
| indeno(1,2,3-cd)pyrene | < 0.5 | 0.5 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:02 | MA EPH |
| dibenzo(a,h)anthracene | < 0.5 | 0.5 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:02 | MA EPH |
| benzo(g,h,i)perylene | < 0.5 | 0.5 | ug/g | 5 | AJD | 10/8/12 | 5547 | 10/11/12 | 22:02 | MA EPH |
| Unadjusted C11-C22 Aromatics | **670** | 22 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 23:13 | MA EPH |
| C9-C18 Aliphatics | **1100** | 22 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/10/12 | 1:19 | MA EPH |
| C19-C36 Aliphatics | **1400** | 22 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/10/12 | 1:19 | MA EPH |
| C11-C22 Aromatics | **670** | 22 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 23:13 | MA EPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 1-chloro-octadecane SUR | **#** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/10/12 | 1:19 | MA EPH |
| o-terphenyl SUR | **35** * | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 23:13 | MA EPH |
| 2-fluorobiphenyl SUR | **91** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 23:13 | MA EPH |
| 2-bromonaphthalene SUR | **65** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 23:13 | MA EPH |

***# The surrogate could not be distinguished from hydrocarbons present in the chromatogram. The chromatogram is included for reference.***
**** The surrogate showed recovery outside the acceptance limits as a result of hydrocarbons present in the sample.***

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-018
**Sample ID:** CA-SB-14 0-3
**Matrix:** Solid Percent Dry: 94.8% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 10:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| naphthalene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 17:29 | MA EPH |
| 2-methylnaphthalene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 17:29 | MA EPH |
| phenanthrene | **0.4** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 17:29 | MA EPH |
| acenaphthene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 17:29 | MA EPH |
| acenaphthylene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 17:29 | MA EPH |
| fluorene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 17:29 | MA EPH |
| anthracene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 17:29 | MA EPH |
| fluoranthene | **1.1** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 17:29 | MA EPH |
| pyrene | **1.0** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 17:29 | MA EPH |
| benzo(a)anthracene | **0.7** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 17:29 | MA EPH |
| chrysene | **0.6** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 17:29 | MA EPH |
| benzo(b)fluoranthene | **0.6** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 17:29 | MA EPH |
| benzo(k)fluoranthene | **0.8** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 17:29 | MA EPH |
| benzo(a)pyrene | **0.6** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 17:29 | MA EPH |
| indeno(1,2,3-cd)pyrene | **0.2** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 17:29 | MA EPH |
| dibenzo(a,h)anthracene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 17:29 | MA EPH |
| benzo(g,h,i)perylene | **0.2** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 17:29 | MA EPH |
| Unadjusted C11-C22 Aromatics | **34** | 20 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 23:36 | MA EPH |
| C9-C18 Aliphatics | < 20 | 20 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/10/12 | 1:37 | MA EPH |
| C19-C36 Aliphatics | **58** | 20 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/10/12 | 1:37 | MA EPH |
| C11-C22 Aromatics | **27** | 20 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 23:36 | MA EPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 1-chloro-octadecane SUR | **46** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/10/12 | 1:37 | MA EPH |
| o-terphenyl SUR | **48** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 23:36 | MA EPH |
| 2-fluorobiphenyl SUR | **77** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 23:36 | MA EPH |
| 2-bromonaphthalene SUR | **83** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 23:36 | MA EPH |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-019
**Sample ID:** CA-SB-15 5-5.5
**Matrix:** Solid Percent Dry: 88.1% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 10:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| naphthalene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 15:37 | MA EPH |
| 2-methylnaphthalene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 15:37 | MA EPH |
| phenanthrene | **1.5** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 15:37 | MA EPH |
| acenaphthene | **0.1** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 15:37 | MA EPH |
| acenaphthylene | < 0.1 | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 15:37 | MA EPH |
| fluorene | **0.1** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 15:37 | MA EPH |
| anthracene | **0.3** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 15:37 | MA EPH |
| fluoranthene | **2.7** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 15:37 | MA EPH |
| pyrene | **2.2** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 15:37 | MA EPH |
| benzo(a)anthracene | **1.2** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 15:37 | MA EPH |
| chrysene | **1.3** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 15:37 | MA EPH |
| benzo(b)fluoranthene | **1.1** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 15:37 | MA EPH |
| benzo(k)fluoranthene | **1.3** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 15:37 | MA EPH |
| benzo(a)pyrene | **1.2** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 15:37 | MA EPH |
| indeno(1,2,3-cd)pyrene | **0.4** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 15:37 | MA EPH |
| dibenzo(a,h)anthracene | **0.2** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 15:37 | MA EPH |
| benzo(g,h,i)perylene | **0.4** | 0.1 | ug/g | 1 | AJD | 10/8/12 | 5547 | 10/9/12 | 15:37 | MA EPH |
| Unadjusted C11-C22 Aromatics | **32** | 21 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 23:58 | MA EPH |
| C9-C18 Aliphatics | < 21 | 21 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/10/12 | 0:24 | MA EPH |
| C19-C36 Aliphatics | < 21 | 21 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/10/12 | 0:24 | MA EPH |
| C11-C22 Aromatics | < 21 | 21 | ug/g | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 23:58 | MA EPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 1-chloro-octadecane SUR | **55** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/10/12 | 0:24 | MA EPH |
| o-terphenyl SUR | **51** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 23:58 | MA EPH |
| 2-fluorobiphenyl SUR | **77** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 23:58 | MA EPH |
| 2-bromonaphthalene SUR | **84** | 40-140 | % | 1 | JLZ | 10/8/12 | 5547 | 10/14/12 | 23:58 | MA EPH |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123
**Sample#:** 25123-032
**Sample ID:** CA-SB-2 0-1 Re-Extraction
**Matrix:** Solid Percent Dry: 87.6% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 15:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| naphthalene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/16/12 | 5572 | 10/17/12 | 11:42 | MA EPH |
| 2-methylnaphthalene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/16/12 | 5572 | 10/17/12 | 11:42 | MA EPH |
| phenanthrene | **0.8** | 0.6 | ug/g | 5 | AJD | 10/16/12 | 5572 | 10/17/12 | 11:42 | MA EPH |
| acenaphthene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/16/12 | 5572 | 10/17/12 | 11:42 | MA EPH |
| acenaphthylene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/16/12 | 5572 | 10/17/12 | 11:42 | MA EPH |
| fluorene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/16/12 | 5572 | 10/17/12 | 11:42 | MA EPH |
| anthracene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/16/12 | 5572 | 10/17/12 | 11:42 | MA EPH |
| fluoranthene | **0.7** | 0.6 | ug/g | 5 | AJD | 10/16/12 | 5572 | 10/17/12 | 11:42 | MA EPH |
| pyrene | **0.9** | 0.6 | ug/g | 5 | AJD | 10/16/12 | 5572 | 10/17/12 | 11:42 | MA EPH |
| benzo(a)anthracene | **0.6** | 0.6 | ug/g | 5 | AJD | 10/16/12 | 5572 | 10/17/12 | 11:42 | MA EPH |
| chrysene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/16/12 | 5572 | 10/17/12 | 11:42 | MA EPH |
| benzo(b)fluoranthene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/16/12 | 5572 | 10/17/12 | 11:42 | MA EPH |
| benzo(k)fluoranthene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/16/12 | 5572 | 10/17/12 | 11:42 | MA EPH |
| benzo(a)pyrene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/16/12 | 5572 | 10/17/12 | 11:42 | MA EPH |
| indeno(1,2,3-cd)pyrene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/16/12 | 5572 | 10/17/12 | 11:42 | MA EPH |
| dibenzo(a,h)anthracene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/16/12 | 5572 | 10/17/12 | 11:42 | MA EPH |
| benzo(g,h,i)perylene | < 0.6 | 0.6 | ug/g | 5 | AJD | 10/16/12 | 5572 | 10/17/12 | 11:42 | MA EPH |
| Unadjusted C11-C22 Aromatics | < 22 | 22 | ug/g | 1 | JLZ | 10/16/12 | 5572 | 10/17/12 | 14:53 | MA EPH |
| C9-C18 Aliphatics | < 22 | 22 | ug/g | 1 | JLZ | 10/16/12 | 5572 | 10/16/12 | 20:16 | MA EPH |
| C19-C36 Aliphatics | < 22 | 22 | ug/g | 1 | JLZ | 10/16/12 | 5572 | 10/16/12 | 20:16 | MA EPH |
| C11-C22 Aromatics | < 22 | 22 | ug/g | 1 | JLZ | 10/16/12 | 5572 | 10/17/12 | 14:53 | MA EPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 1-chloro-octadecane SUR | **45** | 40-140 | % | 1 | JLZ | 10/16/12 | 5572 | 10/16/12 | 20:16 | MA EPH |
| o-terphenyl SUR | **60** | 40-140 | % | 1 | JLZ | 10/16/12 | 5572 | 10/17/12 | 14:53 | MA EPH |
| 2-fluorobiphenyl SUR | **112** | 40-140 | % | 1 | JLZ | 10/16/12 | 5572 | 10/17/12 | 14:53 | MA EPH |
| 2-bromonaphthalene SUR | **118** | 40-140 | % | 1 | JLZ | 10/16/12 | 5572 | 10/17/12 | 14:53 | MA EPH |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-001
**Sample ID:** CA-SB-1 2.5-5
**Matrix:** Solid Percent Dry: 84.1% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 15:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Lead | **100** | 0.7 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 23:56 | SW3051A6010C |

**Sample#:** 25123-002
**Sample ID:** CA-SB-2 0-1
**Matrix:** Solid Percent Dry: 87.6% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 15:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | < 0.4 | 0.4 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:07 | SW3051A6010C |
| Arsenic | **14** | 0.6 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:07 | SW3051A6010C |
| Beryllium | **0.8** | 0.3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:07 | SW3051A6010C |
| Cadmium | < 0.3 | 0.3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:07 | SW3051A6010C |
| Chromium | **25** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:07 | SW3051A6010C |
| Copper | **37** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:07 | SW3051A6010C |
| Lead | **210** | 0.6 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:07 | SW3051A6010C |
| Mercury | **0.44** | 0.16 | ug/g | 1 | SAS | 10/12/12 | 5564 | 10/12/12 | 16:29 | SW7471B |
| Nickel | **18** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:07 | SW3051A6010C |
| Selenium | < 3 | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:07 | SW3051A6010C |
| Silver | < 0.4 | 0.4 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:07 | SW3051A6010C |
| Thallium | < 0.3 | 0.3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:07 | SW3051A6010C |
| Zinc | **80** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:07 | SW3051A6010C |

**Sample#:** 25123-003
**Sample ID:** CA-SB-3 10-12.5
**Matrix:** Solid Percent Dry: 72.3% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 13:10

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | **11** | 0.8 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:03 | SW3051A6010C |
| Barium | **85** | 4 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:03 | SW3051A6010C |
| Cadmium | < 0.3 | 0.3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:03 | SW3051A6010C |
| Chromium | **51** | 4 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:03 | SW3051A6010C |
| Lead | **11** | 0.8 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:03 | SW3051A6010C |
| Mercury | < 0.20 | 0.20 | ug/g | 1 | SAS | 10/12/12 | 5564 | 10/12/12 | 16:31 | SW7471B |
| Selenium | < 4 | 4 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:03 | SW3051A6010C |
| Silver | < 0.5 | 0.5 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:03 | SW3051A6010C |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-004
**Sample ID:** CA-SB-4 0-2
**Matrix:** Solid Percent Dry: 97.2% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 11:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | < 0.3 | 0.3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:21 | SW3051A6010C |
| Arsenic | **4.8** | 0.6 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:21 | SW3051A6010C |
| Beryllium | **0.3** | 0.2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:21 | SW3051A6010C |
| Cadmium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:21 | SW3051A6010C |
| Chromium | **13** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:21 | SW3051A6010C |
| Copper | **10** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:21 | SW3051A6010C |
| Lead | **5.8** | 0.6 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:21 | SW3051A6010C |
| Mercury | < 0.15 | 0.15 | ug/g | 1 | SAS | 10/12/12 | 5564 | 10/12/12 | 16:33 | SW7471B |
| Nickel | **11** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:21 | SW3051A6010C |
| Selenium | < 3 | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:21 | SW3051A6010C |
| Silver | < 0.4 | 0.4 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:21 | SW3051A6010C |
| Thallium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:21 | SW3051A6010C |
| Zinc | **20** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:21 | SW3051A6010C |

**Sample#:** 25123-005
**Sample ID:** CA-SB-5 5-10
**Matrix:** Solid Percent Dry: 85.6% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 13:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | **17** | 0.5 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:10 | SW3051A6010C |
| Barium | **70** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:10 | SW3051A6010C |
| Cadmium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:10 | SW3051A6010C |
| Chromium | **22** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:10 | SW3051A6010C |
| Lead | **79** | 0.5 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:10 | SW3051A6010C |
| Mercury | < 0.17 | 0.17 | ug/g | 1 | SAS | 10/12/12 | 5564 | 10/12/12 | 16:35 | SW7471B |
| Selenium | < 3 | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:10 | SW3051A6010C |
| Silver | < 0.4 | 0.4 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:10 | SW3051A6010C |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-006
**Sample ID:** CA-SB-6 0-5
**Matrix:** Solid Percent Dry: 93.2% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 9:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | < 0.3 | 0.3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:29 | SW3051A6010C |
| Arsenic | **7.1** | 0.5 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:29 | SW3051A6010C |
| Beryllium | **0.4** | 0.2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:29 | SW3051A6010C |
| Cadmium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:29 | SW3051A6010C |
| Chromium | **13** | 2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:29 | SW3051A6010C |
| Copper | **15** | 2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:29 | SW3051A6010C |
| Lead | **23** | 0.5 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:29 | SW3051A6010C |
| Mercury | < 0.15 | 0.15 | ug/g | 1 | SAS | 10/12/12 | 5564 | 10/12/12 | 16:37 | SW7471B |
| Nickel | **11** | 2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:29 | SW3051A6010C |
| Selenium | < 2 | 2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:29 | SW3051A6010C |
| Silver | < 0.3 | 0.3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:29 | SW3051A6010C |
| Thallium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:29 | SW3051A6010C |
| Zinc | **36** | 2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:29 | SW3051A6010C |

**Sample#:** 25123-007
**Sample ID:** CA-SB-6 12.5-15
**Matrix:** Solid Percent Dry: 77% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 8:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | < 0.4 | 0.4 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:36 | SW3051A6010C |
| Arsenic | **8.7** | 0.7 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:36 | SW3051A6010C |
| Beryllium | < 0.3 | 0.3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:36 | SW3051A6010C |
| Cadmium | < 0.3 | 0.3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:36 | SW3051A6010C |
| Chromium | **19** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:36 | SW3051A6010C |
| Copper | **43** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:36 | SW3051A6010C |
| Lead | **22** | 0.7 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:36 | SW3051A6010C |
| Mercury | < 0.19 | 0.19 | ug/g | 1 | SAS | 10/12/12 | 5564 | 10/12/12 | 16:38 | SW7471B |
| Nickel | **13** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:36 | SW3051A6010C |
| Selenium | < 3 | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:36 | SW3051A6010C |
| Silver | < 0.5 | 0.5 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:36 | SW3051A6010C |
| Thallium | < 0.3 | 0.3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:36 | SW3051A6010C |
| Zinc | **32** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:36 | SW3051A6010C |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-008
**Sample ID:** CA-SB-7 7.5-10
**Matrix:** Solid Percent Dry: 88.4% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 16:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | < 0.4 | 0.4 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:44 | SW3051A6010C |
| Arsenic | **3.2** | 0.6 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:44 | SW3051A6010C |
| Beryllium | **0.5** | 0.2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:44 | SW3051A6010C |
| Cadmium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:44 | SW3051A6010C |
| Chromium | **12** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:44 | SW3051A6010C |
| Copper | **25** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:44 | SW3051A6010C |
| Lead | **15** | 0.6 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:44 | SW3051A6010C |
| Mercury | < 0.16 | 0.16 | ug/g | 1 | SAS | 10/12/12 | 5564 | 10/12/12 | 16:40 | SW7471B |
| Nickel | **6** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:44 | SW3051A6010C |
| Selenium | < 3 | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:44 | SW3051A6010C |
| Silver | < 0.4 | 0.4 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:44 | SW3051A6010C |
| Thallium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:44 | SW3051A6010C |
| Zinc | **30** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 21:44 | SW3051A6010C |

**Sample#:** 25123-009
**Sample ID:** CA-SB-8 0-2.5
**Matrix:** Solid Percent Dry: 97.7% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 8:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | < 0.3 | 0.3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:20 | SW3051A6010C |
| Arsenic | **11** | 0.5 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:20 | SW3051A6010C |
| Beryllium | **0.3** | 0.2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:20 | SW3051A6010C |
| Cadmium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:20 | SW3051A6010C |
| Chromium | **7** | 2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:20 | SW3051A6010C |
| Copper | **11** | 2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:20 | SW3051A6010C |
| Lead | **3.4** | 0.5 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:20 | SW3051A6010C |
| Mercury | < 0.15 | 0.15 | ug/g | 1 | SAS | 10/12/12 | 5564 | 10/12/12 | 16:42 | SW7471B |
| Nickel | **7** | 2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:20 | SW3051A6010C |
| Selenium | < 2 | 2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:20 | SW3051A6010C |
| Silver | < 0.3 | 0.3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:20 | SW3051A6010C |
| Thallium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:20 | SW3051A6010C |
| Zinc | **13** | 2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:20 | SW3051A6010C |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-010
**Sample ID:** CA-SB-8 5-10
**Matrix:** Solid Percent Dry: 83.8% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 10:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | **16** | 0.4 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:27 | SW3051A6010C |
| Arsenic | **18** | 0.7 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:27 | SW3051A6010C |
| Beryllium | **0.3** | 0.3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:27 | SW3051A6010C |
| Cadmium | < 0.3 | 0.3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:27 | SW3051A6010C |
| Chromium | **30** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:27 | SW3051A6010C |
| Copper | **990** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:27 | SW3051A6010C |
| Lead | **540** | 0.7 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:27 | SW3051A6010C |
| Mercury | **0.27** | 0.17 | ug/g | 1 | SAS | 10/12/12 | 5564 | 10/12/12 | 16:55 | SW7471B |
| Nickel | **44** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:27 | SW3051A6010C |
| Selenium | < 3 | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:27 | SW3051A6010C |
| Silver | **0.5** | 0.5 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:27 | SW3051A6010C |
| Thallium | < 0.3 | 0.3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:27 | SW3051A6010C |
| Zinc | **360** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:27 | SW3051A6010C |

**Sample#:** 25123-012
**Sample ID:** CA-SB-10 10-15
**Matrix:** Solid Percent Dry: 79.7% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 12:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | **11** | 0.6 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:26 | SW3051A6010C |
| Barium | **59** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:26 | SW3051A6010C |
| Cadmium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:26 | SW3051A6010C |
| Chromium | **27** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:26 | SW3051A6010C |
| Lead | **29** | 0.6 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:26 | SW3051A6010C |
| Mercury | < 0.18 | 0.18 | ug/g | 1 | SAS | 10/12/12 | 5564 | 10/12/12 | 16:58 | SW7471B |
| Selenium | < 3 | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:26 | SW3051A6010C |
| Silver | < 0.4 | 0.4 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:26 | SW3051A6010C |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-013
**Sample ID:** CA-SB-11 10-15
**Matrix:** Solid Percent Dry: 78.5% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 8:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | < 0.4 | 0.4 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:35 | SW3051A6010C |
| Arsenic | **9.7** | 0.6 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:35 | SW3051A6010C |
| Beryllium | **1.0** | 0.2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:35 | SW3051A6010C |
| Cadmium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:35 | SW3051A6010C |
| Chromium | **31** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:35 | SW3051A6010C |
| Copper | **50** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:35 | SW3051A6010C |
| Lead | **75** | 0.6 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:35 | SW3051A6010C |
| Mercury | **0.43** | 0.18 | ug/g | 1 | SAS | 10/12/12 | 5564 | 10/12/12 | 17:00 | SW7471B |
| Nickel | **24** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:35 | SW3051A6010C |
| Selenium | < 3 | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:35 | SW3051A6010C |
| Silver | < 0.4 | 0.4 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:35 | SW3051A6010C |
| Thallium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:35 | SW3051A6010C |
| Zinc | **68** | 3 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/9/12 | 22:35 | SW3051A6010C |

**Sample#:** 25123-015
**Sample ID:** CA-SB-12 15-18
**Matrix:** Solid Percent Dry: 52.1% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 8:45

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | **8.4** | 1.0 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:41 | SW3051A6010C |
| Barium | **43** | 5 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:41 | SW3051A6010C |
| Cadmium | < 0.4 | 0.4 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:41 | SW3051A6010C |
| Chromium | **15** | 5 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:41 | SW3051A6010C |
| Lead | **320** | 1.0 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:41 | SW3051A6010C |
| Mercury | **0.39** | 0.28 | ug/g | 1 | SAS | 10/12/12 | 5564 | 10/12/12 | 17:02 | SW7471B |
| Selenium | < 5 | 5 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:41 | SW3051A6010C |
| Silver | < 0.7 | 0.7 | ug/g | 1 | SAS | 10/8/12 | 5553 | 10/10/12 | 0:41 | SW3051A6010C |

**Sample#:** 25123-016
**Sample ID:** CA-SB-13 10-12
**Matrix:** Solid Percent Dry: 84.2% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 9:10

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | **3.2** | 0.7 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 22:57 | SW3051A6010C |
| Barium | **22** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 22:57 | SW3051A6010C |
| Cadmium | < 0.3 | 0.3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 22:57 | SW3051A6010C |
| Chromium | **11** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 22:57 | SW3051A6010C |
| Lead | **5.2** | 0.7 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 22:57 | SW3051A6010C |
| Mercury | < 0.17 | 0.17 | ug/g | 1 | SAS | 10/12/12 | 5564 | 10/12/12 | 17:04 | SW7471B |
| Selenium | < 3 | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 22:57 | SW3051A6010C |
| Silver | < 0.5 | 0.5 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 22:57 | SW3051A6010C |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-017
**Sample ID:** SB-DUP-1
**Matrix:** Solid Percent Dry: 87.8% Results expressed on a dry weight basis.
**Sampled:** 10/2/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | **3.4** | 0.7 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:11 | SW3051A6010C |
| Barium | **28** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:11 | SW3051A6010C |
| Cadmium | < 0.3 | 0.3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:11 | SW3051A6010C |
| Chromium | **12** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:11 | SW3051A6010C |
| Lead | **7.1** | 0.7 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:11 | SW3051A6010C |
| Mercury | < 0.16 | 0.16 | ug/g | 1 | SAS | 10/12/12 | 5564 | 10/12/12 | 17:06 | SW7471B |
| Selenium | < 3 | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:11 | SW3051A6010C |
| Silver | < 0.5 | 0.5 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:11 | SW3051A6010C |

**Sample#:** 25123-020
**Sample ID:** CA-SS-1
**Matrix:** Solid Percent Dry: 82.2% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 11:20

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | **1.2** | 0.4 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:33 | SW3051A6010C |
| Arsenic | **9.4** | 0.6 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:33 | SW3051A6010C |
| Beryllium | **0.3** | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:33 | SW3051A6010C |
| Cadmium | **0.4** | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:33 | SW3051A6010C |
| Chromium | **18** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:33 | SW3051A6010C |
| Copper | **31** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:33 | SW3051A6010C |
| Lead | **41** | 0.6 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:33 | SW3051A6010C |
| Mercury | < 0.18 | 0.18 | ug/g | 1 | SAS | 10/12/12 | 5564 | 10/12/12 | 17:07 | SW7471B |
| Nickel | **22** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:33 | SW3051A6010C |
| Selenium | < 3 | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:33 | SW3051A6010C |
| Silver | < 0.4 | 0.4 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:33 | SW3051A6010C |
| Thallium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:33 | SW3051A6010C |
| Zinc | **82** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:33 | SW3051A6010C |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-021
**Sample ID:** CA-SS-2
**Matrix:** Solid Percent Dry: 91.8% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 12:10

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | **1.1** | 0.3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:40 | SW3051A6010C |
| Arsenic | **6.8** | 0.5 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:40 | SW3051A6010C |
| Beryllium | **0.3** | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:40 | SW3051A6010C |
| Cadmium | **0.5** | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:40 | SW3051A6010C |
| Chromium | **20** | 2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:40 | SW3051A6010C |
| Copper | **16** | 2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:40 | SW3051A6010C |
| Lead | **30** | 0.5 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:40 | SW3051A6010C |
| Mercury | < 0.16 | 0.16 | ug/g | 1 | SAS | 10/12/12 | 5564 | 10/12/12 | 17:09 | SW7471B |
| Nickel | **12** | 2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:40 | SW3051A6010C |
| Selenium | < 2 | 2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:40 | SW3051A6010C |
| Silver | < 0.3 | 0.3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:40 | SW3051A6010C |
| Thallium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:40 | SW3051A6010C |
| Zinc | **80** | 2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:40 | SW3051A6010C |

**Sample#:** 25123-022
**Sample ID:** CA-SS-3
**Matrix:** Solid Percent Dry: 93.4% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 12:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | **15** | 0.3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:48 | SW3051A6010C |
| Arsenic | **5.2** | 0.5 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:48 | SW3051A6010C |
| Beryllium | **0.2** | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:48 | SW3051A6010C |
| Cadmium | **4.4** | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:48 | SW3051A6010C |
| Chromium | **13** | 2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:48 | SW3051A6010C |
| Copper | **47** | 2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:48 | SW3051A6010C |
| Lead | **190** | 0.5 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:48 | SW3051A6010C |
| Mercury | < 0.15 | 0.15 | ug/g | 1 | SAS | 10/12/12 | 5564 | 10/12/12 | 17:11 | SW7471B |
| Nickel | **14** | 2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:48 | SW3051A6010C |
| Selenium | < 2 | 2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:48 | SW3051A6010C |
| Silver | **0.8** | 0.3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:48 | SW3051A6010C |
| Thallium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:48 | SW3051A6010C |
| Zinc | **310** | 2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:48 | SW3051A6010C |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-023
**Sample ID:** CA-SS-4
**Matrix:** Solid Percent Dry: 91.9% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 12:45

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | **3.6** | 0.4 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:55 | SW3051A6010C |
| Arsenic | **15** | 0.6 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:55 | SW3051A6010C |
| Beryllium | **0.3** | 0.3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:55 | SW3051A6010C |
| Cadmium | **1.5** | 0.3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:55 | SW3051A6010C |
| Chromium | **20** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:55 | SW3051A6010C |
| Copper | **32** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:55 | SW3051A6010C |
| Lead | **74** | 0.6 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:55 | SW3051A6010C |
| Mercury | **0.48** | 0.16 | ug/g | 1 | SAS | 10/12/12 | 5564 | 10/12/12 | 17:13 | SW7471B |
| Nickel | **22** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:55 | SW3051A6010C |
| Selenium | < 3 | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:55 | SW3051A6010C |
| Silver | < 0.4 | 0.4 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:55 | SW3051A6010C |
| Thallium | < 0.3 | 0.3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:55 | SW3051A6010C |
| Zinc | **140** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/15/12 | 23:55 | SW3051A6010C |

**Sample#:** 25123-024
**Sample ID:** CA-SS-5
**Matrix:** Solid Percent Dry: 81.2% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 13:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | **66** | 0.4 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:02 | SW3051A6010C |
| Arsenic | **26** | 0.7 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:02 | SW3051A6010C |
| Beryllium | **0.4** | 0.3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:02 | SW3051A6010C |
| Cadmium | **21** | 0.3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:02 | SW3051A6010C |
| Chromium | **65** | 4 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:02 | SW3051A6010C |
| Copper | **160** | 4 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:02 | SW3051A6010C |
| Lead | **1500** | 0.7 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:02 | SW3051A6010C |
| Mercury | **0.36** | 0.18 | ug/g | 1 | SAS | 10/12/12 | 5565 | 10/12/12 | 18:43 | SW7471B |
| Nickel | **72** | 4 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:02 | SW3051A6010C |
| Selenium | < 4 | 4 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:02 | SW3051A6010C |
| Silver | **4.4** | 0.5 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:02 | SW3051A6010C |
| Thallium | < 0.3 | 0.3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:02 | SW3051A6010C |
| Zinc | **6100** | 35 | ug/g | 10 | SAS | 10/15/12 | 5571 | 10/19/12 | 18:28 | SW3051A6010C |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-025
**Sample ID:** CA-CC-1
**Matrix:** Solid Percent Dry: 96.4% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 9:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | **2.4** | 0.3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:09 | SW3051A6010C |
| Arsenic | **3.5** | 0.5 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:09 | SW3051A6010C |
| Beryllium | **0.7** | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:09 | SW3051A6010C |
| Cadmium | **0.4** | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:09 | SW3051A6010C |
| Chromium | **23** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:09 | SW3051A6010C |
| Copper | **68** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:09 | SW3051A6010C |
| Lead | **84** | 0.5 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:09 | SW3051A6010C |
| Mercury | **0.15** | 0.15 | ug/g | 1 | SAS | 10/12/12 | 5565 | 10/12/12 | 17:48 | SW7471B |
| Nickel | **17** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:09 | SW3051A6010C |
| Selenium | < 3 | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:09 | SW3051A6010C |
| Silver | **1.6** | 0.4 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:09 | SW3051A6010C |
| Thallium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:09 | SW3051A6010C |
| Zinc | **170** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:09 | SW3051A6010C |

**Sample#:** 25123-026
**Sample ID:** CA-CC-2
**Matrix:** Solid Percent Dry: 96.9% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 9:58

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | **1.5** | 0.4 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:17 | SW3051A6010C |
| Arsenic | **3.2** | 0.6 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:17 | SW3051A6010C |
| Beryllium | **0.4** | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:17 | SW3051A6010C |
| Cadmium | **0.3** | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:17 | SW3051A6010C |
| Chromium | **20** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:17 | SW3051A6010C |
| Copper | **37** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:17 | SW3051A6010C |
| Lead | **13** | 0.6 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:17 | SW3051A6010C |
| Mercury | **0.37** | 0.15 | ug/g | 1 | SAS | 10/12/12 | 5565 | 10/12/12 | 17:50 | SW7471B |
| Nickel | **11** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:17 | SW3051A6010C |
| Selenium | < 3 | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:17 | SW3051A6010C |
| Silver | < 0.4 | 0.4 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:17 | SW3051A6010C |
| Thallium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:17 | SW3051A6010C |
| Zinc | **92** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:17 | SW3051A6010C |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-027
**Sample ID:** CA-CC-3
**Matrix:** Solid Percent Dry: 96.5% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 10:40

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | **0.9** | 0.3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:24 | SW3051A6010C |
| Arsenic | **5.5** | 0.5 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:24 | SW3051A6010C |
| Beryllium | **0.6** | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:24 | SW3051A6010C |
| Cadmium | **0.4** | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:24 | SW3051A6010C |
| Chromium | **25** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:24 | SW3051A6010C |
| Copper | **45** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:24 | SW3051A6010C |
| Lead | **34** | 0.5 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:24 | SW3051A6010C |
| Mercury | < 0.15 | 0.15 | ug/g | 1 | SAS | 10/12/12 | 5565 | 10/12/12 | 17:52 | SW7471B |
| Nickel | **18** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:24 | SW3051A6010C |
| Selenium | < 3 | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:24 | SW3051A6010C |
| Silver | < 0.4 | 0.4 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:24 | SW3051A6010C |
| Thallium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:24 | SW3051A6010C |
| Zinc | **83** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:24 | SW3051A6010C |

**Sample#:** 25123-028
**Sample ID:** CA-CC-4
**Matrix:** Solid Percent Dry: 96.8% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 11:25

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | **4.7** | 0.4 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:31 | SW3051A6010C |
| Arsenic | **5.4** | 0.6 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:31 | SW3051A6010C |
| Beryllium | **0.7** | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:31 | SW3051A6010C |
| Cadmium | **2.1** | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:31 | SW3051A6010C |
| Chromium | **22** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:31 | SW3051A6010C |
| Copper | **62** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:31 | SW3051A6010C |
| Lead | **76** | 0.6 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:31 | SW3051A6010C |
| Mercury | < 0.15 | 0.15 | ug/g | 1 | SAS | 10/12/12 | 5565 | 10/12/12 | 17:54 | SW7471B |
| Nickel | **18** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:31 | SW3051A6010C |
| Selenium | < 3 | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:31 | SW3051A6010C |
| Silver | < 0.4 | 0.4 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:31 | SW3051A6010C |
| Thallium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:31 | SW3051A6010C |
| Zinc | **130** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:31 | SW3051A6010C |

**Project ID:** MERC 12001150
**Job ID:** 25123

**Sample#:** 25123-029
**Sample ID:** CA-CC-5
**Matrix:** Solid Percent Dry: 96.7% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 11:48

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | **13** | 0.4 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:39 | SW3051A6010C |
| Arsenic | **6.0** | 0.6 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:39 | SW3051A6010C |
| Beryllium | **0.6** | 0.3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:39 | SW3051A6010C |
| Cadmium | **6.9** | 0.3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:39 | SW3051A6010C |
| Chromium | **24** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:39 | SW3051A6010C |
| Copper | **77** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:39 | SW3051A6010C |
| Lead | **130** | 0.6 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:39 | SW3051A6010C |
| Mercury | < 0.15 | 0.15 | ug/g | 1 | SAS | 10/12/12 | 5565 | 10/12/12 | 17:55 | SW7471B |
| Nickel | **23** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:39 | SW3051A6010C |
| Selenium | < 3 | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:39 | SW3051A6010C |
| Silver | < 0.4 | 0.4 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:39 | SW3051A6010C |
| Thallium | < 0.3 | 0.3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:39 | SW3051A6010C |
| Zinc | **260** | 3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 0:39 | SW3051A6010C |

**Sample#:** 25123-030
**Sample ID:** STACK
**Matrix:** Solid Percent Dry: 99.8% Results expressed on a dry weight basis.
**Sampled:** 10/3/12 14:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | **1.8** | 0.3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 1:01 | SW3051A6010C |
| Arsenic | < 0.5 | 0.5 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 1:01 | SW3051A6010C |
| Beryllium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 1:01 | SW3051A6010C |
| Cadmium | **0.3** | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 1:01 | SW3051A6010C |
| Chromium | **4** | 2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 1:01 | SW3051A6010C |
| Copper | **30** | 2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 1:01 | SW3051A6010C |
| Lead | **18** | 0.5 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 1:01 | SW3051A6010C |
| Mercury | < 0.14 | 0.14 | ug/g | 1 | SAS | 10/12/12 | 5565 | 10/12/12 | 17:57 | SW7471B |
| Nickel | **17** | 2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 1:01 | SW3051A6010C |
| Selenium | < 2 | 2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 1:01 | SW3051A6010C |
| Silver | < 0.3 | 0.3 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 1:01 | SW3051A6010C |
| Thallium | < 0.2 | 0.2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 1:01 | SW3051A6010C |
| Zinc | **32** | 2 | ug/g | 1 | SAS | 10/15/12 | 5571 | 10/16/12 | 1:08 | SW3051A6010C |

# Quality Control Report

124 Heritage Avenue Unit 16
Portsmouth, NH 03801
www.absoluteresourceassociates.com

**Case Narrative**
**Lab # 25123**

## Sample Receiving and Chain of Custody Discrepancies

Samples were received in acceptable condition, at 0 degrees C, on ice, and in accordance with sample handling, preservation and integrity guidelines.

## Calibration

No exceptions noted.

## Method Blank

No exceptions noted.

## Surrogate Recoveries

ABN: Sample CA-CC-1 and CA-CC-3 did not meet acceptance criteria for the surrogate 2-fluorophenol and 2,4,6-tribromophenol as a result of interferences caused by large co-eluting nontarget compounds.
ABN: Sample CA-CC-2 did not meet acceptance criteria for the surrogate 2-fluorophenol, phenol-D5 and 2,4,6-tribromophenol as a result of interferences caused by large co-eluting nontarget compounds.
PCB: The surrogates were diluted out of the calibration range in the following sample: CA-SB-5 5-10

## Laboratory Control Sample Results

ABN: The LCS/D5556 did not meet the acceptance criteria for hexachlorocyclopentadiene. Since <10% of the compounds were outside of the acceptance criteria, reanalysis is not required.
VOC: The LCS5548 did not meet the acceptance criteria for bromomethane. The LCSD showed acceptable recovery. This compound is known to be problematic in the method. Since <10% of the compounds were outside of the acceptance criteria, reanalysis is not required.
EPH: The LCS/D5547 showed acceptable percent recovery for all analytes, however the RPD between the LCS and LCSD was above the limit for 5 analytes.
EPH: The LCS/D5572 showed acceptable percent recovery for all analytes, however the RPD between the LCS and LCSD was above the limit for fluoranthene.
PCB: The LCS/D5551 showed acceptable percent recovery, however the RPD between the LCS and LCSD was above the limit for both PCB-1016 and PCB-1260.
PCB: The LCS/D5561 showed acceptable percent recovery, however the RPD between the LCS and LCSD was above the limit for both PCB-1016 and PCB-1260.
Thallium: The CRM/D5571 showed acceptable recovery, however the RPD between the CRM and CRMD was above the established limit.

**Matrix Spike/Matrix Spike Duplicate/Duplicate Results**

Not requested for this project.

Metals: The percent recovery for lead in the lab matrix spike of CA-SB-2 0-1 was 152%, outside the acceptance criteria of 75-125%. This is caused by the high native sample concentration of this analyte relative to the spiked concentration.

**Other**

EPH: The surrogates in sample CA-SB-12 15-18, CA-SB-13 10-12 and SB-DUP-1 showed surrogate issues as a result of hydrocarbons present in the sample. The chromatograms are included for reference.

EPH: In sample CA-SB-3 10-12.5 no ranges were detected above the method reporting limit; therefore fractionation was not required.

EPH: The surrogate showed recovery outside the acceptance limits for sample CA-SB-2 0-1. Results from re-extraction did not compare well with the original extraction. Both sets of data are provided, the replicate reported as 25123-032.

PAH: Dilution was required due to hydrocarbon interferences for the following samples: CA-MW-8.

PCB: Sample dilution was required for CA-CC-1 and CA-CC-2 due to matrix interferences.

PCB: Sample CA-CC-5 showed elevated reporting limit due to matrix interference. It's surrogate is above the acceptance criteria. Since no targets were detected above the quantitation limit, there is no impact to the data.

Reporting Limits: Dilutions performed during the analysis are noted on the result pages.

No other exceptions noted.

# - QC Association Table -

| Analysis | | QC Number | Field ID | Lab ID |
|---|---|---|---|---|
| EPH in solids by | MA EPH | | | |
| | | 5547 | CA-SB-2 0-1 | 25123-002 |
| | | | CA-SB-3 10-12.5 | 25123-003 |
| | | | CA-SB-6 12.5-15 | 25123-007 |
| | | | CA-SB-7 7.5-10 | 25123-008 |
| | | | CA-SB-11 10-15 | 25123-013 |
| | | | DUP-2 | 25123-014 |
| | | | CA-SB-12 15-18 | 25123-015 |
| | | | CA-SB-13 10-12 | 25123-016 |
| | | | SB-DUP-1 | 25123-017 |
| | | | CA-SB-14 0-3 | 25123-018 |
| | | | CA-SB-15 5-5.5 | 25123-019 |
| EPH in solids by | MA EPH | | | |
| | | 5572 | CA-SB-4 0-2 | 25123-004 |
| | | | CA-SB-2 0-1 Re-Extraction | 25123-032 |
| VPH in solids by MA | MA VPH | | | |
| | | 5549 | CA-SB-2.5-5 | 25123-001 |
| | | | CA-SB-4 0-2 | 25123-004 |
| | | | CA-SB-6 12.5-15 | 25123-007 |
| | | | CA-SB-7 7.5-10 | 25123-008 |
| | | | CA-SB-11 10-15 | 25123-013 |
| | | | DUP-2 | 25123-014 |
| | | | CA-SB-14 0-3 | 25123-018 |
| | | | CA-SB-15 5-5.5 | 25123-019 |
| Antimony in solids by | SW3051A6010C | | | |
| | | 5553 | CA-SB-2.5-5 | 25123-001 |
| | | | CA-SB-2 0-1 | 25123-002 |
| | | | CA-SB-3 10-12.5 | 25123-003 |
| | | | CA-SB-4 0-2 | 25123-004 |
| | | | CA-SB-5 5-10 | 25123-005 |
| | | | CA-SB-6 0-5 | 25123-006 |
| | | | CA-SB-6 12.5-15 | 25123-007 |
| | | | CA-SB-7 7.5-10 | 25123-008 |
| | | | CA-SB-8 0-2.5 | 25123-009 |
| | | | CA-SB-8 5-10 | 25123-010 |
| | | | CA-SB-10 10-15 | 25123-012 |
| | | | CA-SB-11 10-15 | 25123-013 |
| | | | CA-SB-12 15-18 | 25123-015 |
| Antimony in solids by | SW3051A6010C | | | |
| | | 5571 | CA-SB-13 10-12 | 25123-016 |
| | | | SB-DUP-1 | 25123-017 |
| | | | CA-SS-1 | 25123-020 |
| | | | CA-SS-2 | 25123-021 |
| | | | CA-SS-3 | 25123-022 |
| | | | CA-SS-4 | 25123-023 |
| | | | CA-SS-5 | 25123-024 |
| | | | CA-CC-1 | 25123-025 |
| | | | CA-CC-2 | 25123-026 |
| | | | CA-CC-3 | 25123-027 |
| | | | CA-CC-4 | 25123-028 |

Absolute Resource associates

| Analysis | | QC Number | Field ID | Lab ID |
|---|---|---|---|---|
| | | 5571 | CA-SS-5 | 25123-029 |
| | | | STACK | 25123-030 |
| PCBs in soil by 8082 | SW3540C8082A | | | |
| | | 5551 | CA-SB-3 10-12.5 | 25123-003 |
| | | | CA-SB-5 5-10 | 25123-005 |
| | | | CA-SB-6 0-5 | 25123-006 |
| | | | CA-SB-6 12.5-15 | 25123-007 |
| | | | CA-SB-7 7.5-10 | 25123-008 |
| | | | CA-SB-8 0-2.5 | 25123-009 |
| | | | CA-SB-8 5-10 | 25123-010 |
| | | | CA-SB-9 0-4 | 25123-011 |
| | | | CA-SB-11 10-15 | 25123-013 |
| | | | CA-SB-12 15-18 | 25123-015 |
| | | | CA-SB-13 10-12 | 25123-016 |
| | | | SB-DUP-1 | 25123-017 |
| | | | CA-SS-1 | 25123-020 |
| | | | CA-SS-2 | 25123-021 |
| | | | CA-SS-3 | 25123-022 |
| PCBs in soil by 8082 | SW3540C8082A | | | |
| | | 5561 | CA-SB-10 10-15 | 25123-012 |
| | | | CA-SS-4 | 25123-023 |
| | | | CA-SS-5 | 25123-024 |
| | | | CA-CC-3 | 25123-027 |
| | | | CA-CC-4 | 25123-028 |
| | | | STACK | 25123-030 |
| Acid & Base/Neutral | SW3546/8270D | | | |
| | | 5556 | CA-SB-4 0-2 | 25123-004 |
| | | | CA-SB-5 5-10 | 25123-005 |
| | | | CA-SB-6 12.5-15 | 25123-007 |
| | | | CA-SB-7 7.5-10 | 25123-008 |
| | | | CA-SB-10 10-15 | 25123-012 |
| | | | CA-SB-11 10-15 | 25123-013 |
| | | | DUP-2 | 25123-014 |
| | | | CA-CC-1 | 25123-025 |
| | | | CA-CC-2 | 25123-026 |
| | | | CA-CC-3 | 25123-027 |
| PAHs in solid by 8270 | SW3550B8270D | | | |
| | | 5555 | CA-SB-6 0-5 | 25123-006 |
| | | | CA-SB-8 0-2.5 | 25123-009 |
| | | | CA-SB-8 5-10 | 25123-010 |
| | | | CA-SS-1 | 25123-020 |
| | | | CA-SS-2 | 25123-021 |
| | | | CA-SS-3 | 25123-022 |
| VOCs in solids by 8260 | SW5035A8260B | | | |
| | | 5548 | CA-SB-4 0-2 | 25123-004 |
| | | | CA-SB-5 5-10 | 25123-005 |
| | | | CA-SB-6 12.5-15 | 25123-007 |
| | | | CA-SB-7 7.5-10 | 25123-008 |
| | | | CA-SB-10 10-15 | 25123-012 |
| | | | CA-SB-11 10-15 | 25123-013 |
| | | | DUP-2 | 25123-014 |
| | | | CA-CC-1 | 25123-025 |

| Analysis | | QC Number | Field ID | Lab ID |
|---|---|---|---|---|
| | | 5548 | CA-CC-2 | 25123-026 |
| | | | CA-CC-3 | 25123-027 |
| | | | Trip Blank | 25123-031 |
| Mercury in solids by | SW7471B | | | |
| | | 5564 | CA-SB-2 0-1 | 25123-002 |
| | | | CA-SB-3 10-12.5 | 25123-003 |
| | | | CA-SB-4 0-2 | 25123-004 |
| | | | CA-SB-5 5-10 | 25123-005 |
| | | | CA-SB-6 0-5 | 25123-006 |
| | | | CA-SB-6 12.5-15 | 25123-007 |
| | | | CA-SB-7 7.5-10 | 25123-008 |
| | | | CA-SB-8 0-2.5 | 25123-009 |
| | | | CA-SB-8 5-10 | 25123-010 |
| | | | CA-SB-10 10-15 | 25123-012 |
| | | | CA-SB-11 10-15 | 25123-013 |
| | | | CA-SB-12 15-18 | 25123-015 |
| | | | CA-SB-13 10-12 | 25123-016 |
| | | | SB-DUP-1 | 25123-017 |
| | | | CA-SS-1 | 25123-020 |
| | | | CA-SS-2 | 25123-021 |
| | | | CA-SS-3 | 25123-022 |
| | | | CA-SS-4 | 25123-023 |
| Mercury in solids by | SW7471B | | | |
| | | 5565 | CA-SS-5 | 25123-024 |
| | | | CA-CC-1 | 25123-025 |
| | | | CA-CC-2 | 25123-026 |
| | | | CA-CC-3 | 25123-027 |
| | | | CA-CC-4 | 25123-028 |
| | | | CA-SS-5 | 25123-029 |
| | | | STACK | 25123-030 |

# - QC Report -

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MA VPH | MB5549 | C5-C8 Aliphatics | | | | | | | | | | |
| | | Unadjusted C5-C8 Aliphatics | | < | 5 | ug/g | | | | | | |
| | | Unadjusted C9-C12 Aliphatics | | < | 5 | ug/g | | | | | | |
| | | methyl t-butyl ether (MTBE) | | < | 0.1 | ug/g | | | | | | |
| | | benzene | | < | 0.1 | ug/g | | | | | | |
| | | toluene | | < | 0.1 | ug/g | | | | | | |
| | | ethylbenzene | | < | 0.1 | ug/g | | | | | | |
| | | m&p-xylenes | | < | 0.1 | ug/g | | | | | | |
| | | o-xylene | | < | 0.1 | ug/g | | | | | | |
| | | naphthalene | | < | 0.2 | ug/g | | | | | | |
| | | C9-C10 Aromatics | | < | 5 | ug/g | | | | | | |
| | | 2,5-dibromotoluene as | | | 102 | % | | | 70 | 130 | | |
| | | 2,5-dibromotoluene as | | | 105 | % | | | 70 | 130 | | |
| | | a,a,a-trifluorotoluene SUR | | | 104 | % | | | 70 | 130 | | |
| MA VPH | MLCS5549 | C5-C8 Aliphatics | | | | | | | | | | |
| | | Unadjusted C5-C8 Aliphatics | | | 7.7 | ug/g | 7.5 | 103 | 70 | 130 | | |
| | | Unadjusted C9-C12 Aliphatics | | | 5.0 | ug/g | 5.5 | 91 | 70 | 130 | | |
| | | methyl t-butyl ether (MTBE) | | | 1.5 | ug/g | 1.5 | 97 | 70 | 130 | | |
| | | benzene | | | 0.5 | ug/g | 0.5 | 91 | 70 | 130 | | |
| | | toluene | | | 1.4 | ug/g | 1.5 | 94 | 70 | 130 | | |
| | | ethylbenzene | | | 0.4 | ug/g | 0.5 | 85 | 70 | 130 | | |
| | | m&p-xylenes | | | 1.9 | ug/g | 2 | 96 | 70 | 130 | | |
| | | o-xylene | | | 1.0 | ug/g | 1 | 95 | 70 | 130 | | |
| | | naphthalene | | | 1.0 | ug/g | 1 | 98 | 70 | 130 | | |
| | | C9-C10 Aromatics | | | 1.0 | ug/g | 1 | 103 | 70 | 130 | | |
| | | 2,5-dibromotoluene as | | | 106 | % | | | 70 | 130 | | |
| | | 2,5-dibromotoluene as | | | 109 | % | | | 70 | 130 | | |
| | | a,a,a-trifluorotoluene SUR | | | 111 | % | | | 70 | 130 | | |
| MA VPH | MLCSD5549 | C5-C8 Aliphatics | | | | | | | | | | |
| | | Unadjusted C5-C8 Aliphatics | | | 7.7 | ug/g | 7.5 | 103 | 70 | 130 | 0 | 25 |
| | | Unadjusted C9-C12 Aliphatics | | | 5.0 | ug/g | 5.5 | 91 | 70 | 130 | 1 | 25 |
| | | methyl t-butyl ether (MTBE) | | | 1.4 | ug/g | 1.5 | 96 | 70 | 130 | 1 | 25 |
| | | benzene | | | 0.5 | ug/g | 0.5 | 90 | 70 | 130 | 0 | 25 |
| | | toluene | | | 1.4 | ug/g | 1.5 | 93 | 70 | 130 | 1 | 25 |
| | | ethylbenzene | | | 0.4 | ug/g | 0.5 | 80 | 70 | 130 | 6 | 25 |
| | | m&p-xylenes | | | 1.9 | ug/g | 2 | 97 | 70 | 130 | 1 | 25 |
| | | o-xylene | | | 1.0 | ug/g | 1 | 96 | 70 | 130 | 1 | 25 |
| | | naphthalene | | | 0.9 | ug/g | 1 | 92 | 70 | 130 | 5 | 25 |
| | | C9-C10 Aromatics | | | 1.0 | ug/g | 1 | 102 | 70 | 130 | 1 | 25 |
| | | 2,5-dibromotoluene as | | | 103 | % | | | 70 | 130 | | |
| | | 2,5-dibromotoluene as | | | 107 | % | | | 70 | 130 | | |
| | | a,a,a-trifluorotoluene SUR | | | 107 | % | | | 70 | 130 | | |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | | Result | Units Amt Added | %R | Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| SW5035A8260B | MB5548 | dichlorodifluoromethane | | < | 0.1 | ug/g | | | | |
| | | chloromethane | | < | 0.1 | ug/g | | | | |
| | | vinyl chloride | | < | 0.1 | ug/g | | | | |
| | | bromomethane | | < | 0.2 | ug/g | | | | |
| | | chloroethane | | < | 0.1 | ug/g | | | | |
| | | trichlorofluoromethane | | < | 0.1 | ug/g | | | | |
| | | diethyl ether | | < | 0.5 | ug/g | | | | |
| | | acetone | | < | 2.5 | ug/g | | | | |
| | | 1,1-dichloroethene | | < | 0.1 | ug/g | | | | |
| | | methylene chloride | | < | 0.2 | ug/g | | | | |
| | | carbon disulfide | | < | 0.1 | ug/g | | | | |
| | | methyl t-butyl ether (MTBE) | | < | 0.1 | ug/g | | | | |
| | | trans-1,2-dichloroethene | | < | 0.1 | ug/g | | | | |
| | | 1,1-dichloroethane | | < | 0.1 | ug/g | | | | |
| | | 2-butanone (MEK) | | < | 0.5 | ug/g | | | | |
| | | 2,2-dichloropropane | | < | 0.1 | ug/g | | | | |
| | | cis-1,2-dichloroethene | | < | 0.1 | ug/g | | | | |
| | | chloroform | | < | 0.1 | ug/g | | | | |
| | | bromochloromethane | | < | 0.1 | ug/g | | | | |
| | | tetrahydrofuran (THF) | | < | 0.5 | ug/g | | | | |
| | | 1,1,1-trichloroethane | | < | 0.1 | ug/g | | | | |
| | | 1,1-dichloropropene | | < | 0.1 | ug/g | | | | |
| | | carbon tetrachloride | | < | 0.1 | ug/g | | | | |
| | | 1,2-dichloroethane | | < | 0.1 | ug/g | | | | |
| | | benzene | | < | 0.1 | ug/g | | | | |
| | | trichloroethene | | < | 0.1 | ug/g | | | | |
| | | 1,2-dichloropropane | | < | 0.1 | ug/g | | | | |
| | | bromodichloromethane | | < | 0.1 | ug/g | | | | |
| | | dibromomethane | | < | 0.1 | ug/g | | | | |
| | | 4-methyl-2-pentanone (MIBK) | | < | 0.5 | ug/g | | | | |
| | | cis-1,3-dichloropropene | | < | 0.1 | ug/g | | | | |
| | | toluene | | < | 0.1 | ug/g | | | | |
| | | trans-1,3-dichloropropene | | < | 0.1 | ug/g | | | | |
| | | 2-hexanone | | < | 0.5 | ug/g | | | | |
| | | 1,1,2-trichloroethane | | < | 0.1 | ug/g | | | | |
| | | 1,3-dichloropropane | | < | 0.1 | ug/g | | | | |
| | | tetrachloroethene | | < | 0.1 | ug/g | | | | |
| | | dibromochloromethane | | < | 0.1 | ug/g | | | | |
| | | 1,2-dibromoethane (EDB) | | < | 0.1 | ug/g | | | | |
| | | chlorobenzene | | < | 0.1 | ug/g | | | | |
| | | 1,1,1,2-tetrachloroethane | | < | 0.1 | ug/g | | | | |
| | | ethylbenzene | | < | 0.1 | ug/g | | | | |
| | | m&p-xylenes | | < | 0.1 | ug/g | | | | |
| | | o-xylene | | < | 0.1 | ug/g | | | | |
| | | styrene | | < | 0.1 | ug/g | | | | |
| | | bromoform | | < | 0.1 | ug/g | | | | |
| | | isopropylbenzene | | < | 0.1 | ug/g | | | | |
| | | 1,1,2,2-tetrachloroethane | | < | 0.1 | ug/g | | | | |
| | | 1,2,3-trichloropropane | | < | 0.1 | ug/g | | | | |
| | | n-propylbenzene | | < | 0.1 | ug/g | | | | |
| | | bromobenzene | | < | 0.1 | ug/g | | | | |

| Method | QC ID | Parameter | Associated Sample | | Result | Units Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SW5035A8260B | MB5548 | 1,3,5-trimethylbenzene | | < | 0.1 | ug/g | | | | | |
| | | 2-chlorotoluene | | < | 0.1 | ug/g | | | | | |
| | | 4-chlorotoluene | | < | 0.1 | ug/g | | | | | |
| | | tert-butylbenzene | | < | 0.1 | ug/g | | | | | |
| | | 1,2,4-trimethylbenzene | | < | 0.1 | ug/g | | | | | |
| | | sec-butylbenzene | | < | 0.1 | ug/g | | | | | |
| | | 1,3-dichlorobenzene | | < | 0.1 | ug/g | | | | | |
| | | 4-isopropyltoluene | | < | 0.1 | ug/g | | | | | |
| | | 1,4-dichlorobenzene | | < | 0.1 | ug/g | | | | | |
| | | 1,2-dichlorobenzene | | < | 0.1 | ug/g | | | | | |
| | | n-butylbenzene | | < | 0.1 | ug/g | | | | | |
| | | 1,2-dibromo-3-chloropropane | | < | 0.1 | ug/g | | | | | |
| | | 1,2,4-trichlorobenzene | | < | 0.1 | ug/g | | | | | |
| | | hexachlorobutadiene | | < | 0.1 | ug/g | | | | | |
| | | naphthalene | | < | 0.2 | ug/g | | | | | |
| | | 1,2,3-trichlorobenzene | | < | 0.1 | ug/g | | | | | |
| | | dibromofluoromethane SUR | | | 99 | % | | 78 | 114 | | |
| | | toluene-D8 SUR | | | 97 | % | | 88 | 110 | | |
| | | 4-bromofluorobenzene SUR | | | 104 | % | | 86 | 115 | | |
| | | a,a,a-trifluorotoluene SUR | | | 99 | % | | 70 | 130 | | |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW5035A8260B | MLCS5548 | dichlorodifluoromethane | | | 0.8 | ug/g | 1 | 80 | | 70 | 130 | | |
| | | chloromethane | | | 0.8 | ug/g | 1 | 82 | | 70 | 130 | | |
| | | vinyl chloride | | | 0.9 | ug/g | 1 | 85 | | 70 | 130 | | |
| | | bromomethane | | | 0.6 | ug/g | 1 | 61 | * | 70 | 130 | | |
| | | chloroethane | | | 1.0 | ug/g | 1 | 95 | | 70 | 130 | | |
| | | trichlorofluoromethane | | | 0.9 | ug/g | 1 | 91 | | 70 | 130 | | |
| | | diethyl ether | | | 0.9 | ug/g | 1 | 95 | | 70 | 130 | | |
| | | acetone | | < | 2.5 | ug/g | 1 | 92 | | | | | |
| | | 1,1-dichloroethene | | | 0.8 | ug/g | 1 | 83 | | 70 | 130 | | |
| | | methylene chloride | | | 0.9 | ug/g | 1 | 95 | | 70 | 130 | | |
| | | carbon disulfide | | | 1.0 | ug/g | 1 | 98 | | 70 | 130 | | |
| | | methyl t-butyl ether (MTBE) | | | 1.0 | ug/g | 1 | 99 | | 70 | 130 | | |
| | | trans-1,2-dichloroethene | | | 0.9 | ug/g | 1 | 92 | | 70 | 130 | | |
| | | 1,1-dichloroethane | | | 0.9 | ug/g | 1 | 91 | | 70 | 130 | | |
| | | 2-butanone (MEK) | | | 1.1 | ug/g | 1 | 105 | | 70 | 130 | | |
| | | 2,2-dichloropropane | | | 0.9 | ug/g | 1 | 90 | | 70 | 130 | | |
| | | cis-1,2-dichloroethene | | | 1.0 | ug/g | 1 | 95 | | 70 | 130 | | |
| | | chloroform | | | 1.0 | ug/g | 1 | 97 | | 70 | 130 | | |
| | | bromochloromethane | | | 0.9 | ug/g | 1 | 91 | | 70 | 130 | | |
| | | tetrahydrofuran (THF) | | | 0.9 | ug/g | 1 | 89 | | 70 | 130 | | |
| | | 1,1,1-trichloroethane | | | 0.9 | ug/g | 1 | 93 | | 70 | 130 | | |
| | | 1,1-dichloropropene | | | 1.0 | ug/g | 1 | 95 | | 70 | 130 | | |
| | | carbon tetrachloride | | | 0.9 | ug/g | 1 | 90 | | 70 | 130 | | |
| | | 1,2-dichloroethane | | | 0.9 | ug/g | 1 | 93 | | 70 | 130 | | |
| | | benzene | | | 0.9 | ug/g | 1 | 92 | | 70 | 130 | | |
| | | trichloroethene | | | 1.0 | ug/g | 1 | 95 | | 70 | 130 | | |
| | | 1,2-dichloropropane | | | 0.9 | ug/g | 1 | 92 | | 70 | 130 | | |
| | | bromodichloromethane | | | 0.9 | ug/g | 1 | 94 | | 70 | 130 | | |
| | | dibromomethane | | | 0.9 | ug/g | 1 | 94 | | 70 | 130 | | |
| | | 4-methyl-2-pentanone (MIBK) | | | 1.0 | ug/g | 1 | 105 | | 70 | 130 | | |
| | | cis-1,3-dichloropropene | | | 0.9 | ug/g | 1 | 93 | | 70 | 130 | | |
| | | toluene | | | 0.9 | ug/g | 1 | 95 | | 70 | 130 | | |
| | | trans-1,3-dichloropropene | | | 0.9 | ug/g | 1 | 89 | | 70 | 130 | | |
| | | 2-hexanone | | | 1.1 | ug/g | 1 | 110 | | 70 | 130 | | |
| | | 1,1,2-trichloroethane | | | 0.9 | ug/g | 1 | 92 | | 70 | 130 | | |
| | | 1,3-dichloropropane | | | 0.9 | ug/g | 1 | 92 | | 70 | 130 | | |
| | | tetrachloroethene | | | 0.9 | ug/g | 1 | 90 | | 70 | 130 | | |
| | | dibromochloromethane | | | 0.9 | ug/g | 1 | 89 | | 70 | 130 | | |
| | | 1,2-dibromoethane (EDB) | | | 0.9 | ug/g | 1 | 92 | | 70 | 130 | | |
| | | chlorobenzene | | | 0.9 | ug/g | 1 | 93 | | 70 | 130 | | |
| | | 1,1,1,2-tetrachloroethane | | | 0.9 | ug/g | 1 | 93 | | 70 | 130 | | |
| | | ethylbenzene | | | 0.9 | ug/g | 1 | 93 | | 70 | 130 | | |
| | | m&p-xylenes | | | 2.0 | ug/g | 2 | 98 | | 70 | 130 | | |
| | | o-xylene | | | 1.0 | ug/g | 1 | 97 | | 70 | 130 | | |
| | | styrene | | | 1.0 | ug/g | 1 | 101 | | 70 | 130 | | |
| | | bromoform | | | 1.0 | ug/g | 1 | 97 | | 70 | 130 | | |
| | | isopropylbenzene | | | 0.9 | ug/g | 1 | 94 | | 70 | 130 | | |
| | | 1,1,2,2-tetrachloroethane | | | 1.0 | ug/g | 1 | 99 | | 70 | 130 | | |
| | | 1,2,3-trichloropropane | | | 0.9 | ug/g | 1 | 94 | | 70 | 130 | | |
| | | n-propylbenzene | | | 0.9 | ug/g | 1 | 90 | | 70 | 130 | | |
| | | bromobenzene | | | 0.9 | ug/g | 1 | 93 | | 70 | 130 | | |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SW5035A8260B | MLCS5548 | 1,3,5-trimethylbenzene | | 0.9 | ug/g | 1 | 91 | 70 | 130 | | |
| | | 2-chlorotoluene | | 0.9 | ug/g | 1 | 93 | 70 | 130 | | |
| | | 4-chlorotoluene | | 1.0 | ug/g | 1 | 98 | 70 | 130 | | |
| | | tert-butylbenzene | | 0.9 | ug/g | 1 | 90 | 70 | 130 | | |
| | | 1,2,4-trimethylbenzene | | 0.9 | ug/g | 1 | 92 | 70 | 130 | | |
| | | sec-butylbenzene | | 1.0 | ug/g | 1 | 96 | 70 | 130 | | |
| | | 1,3-dichlorobenzene | | 1.0 | ug/g | 1 | 97 | 70 | 130 | | |
| | | 4-isopropyltoluene | | 1.0 | ug/g | 1 | 95 | 70 | 130 | | |
| | | 1,4-dichlorobenzene | | 1.0 | ug/g | 1 | 96 | 70 | 130 | | |
| | | 1,2-dichlorobenzene | | 1.0 | ug/g | 1 | 98 | 70 | 130 | | |
| | | n-butylbenzene | | 1.0 | ug/g | 1 | 96 | 70 | 130 | | |
| | | 1,2-dibromo-3-chloropropane | | 1.0 | ug/g | 1 | 99 | 70 | 130 | | |
| | | 1,2,4-trichlorobenzene | | 0.9 | ug/g | 1 | 91 | 70 | 130 | | |
| | | hexachlorobutadiene | | 0.9 | ug/g | 1 | 93 | 70 | 130 | | |
| | | naphthalene | | 1.0 | ug/g | 1 | 100 | 70 | 130 | | |
| | | 1,2,3-trichlorobenzene | | 1.0 | ug/g | 1 | 97 | 70 | 130 | | |
| | | dibromofluoromethane SUR | | 102 | % | | | 78 | 114 | | |
| | | toluene-D8 SUR | | 100 | % | | | 88 | 110 | | |
| | | 4-bromofluorobenzene SUR | | 110 | % | | | 86 | 115 | | |
| | | a,a,a-trifluorotoluene SUR | | 102 | % | | | 70 | 130 | | |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW5035A8260B | MLCSD5548 | dichlorodifluoromethane | | | 0.9 | ug/g | 1 | 92 | 70 | 130 | 14 | 30 |
| | | chloromethane | | | 0.9 | ug/g | 1 | 92 | 70 | 130 | 11 | 30 |
| | | vinyl chloride | | | 1.0 | ug/g | 1 | 98 | 70 | 130 | 13 | 30 |
| | | bromomethane | | | 0.7 | ug/g | 1 | 73 | 70 | 130 | 18 | 30 |
| | | chloroethane | | | 1.1 | ug/g | 1 | 108 | 70 | 130 | 12 | 30 |
| | | trichlorofluoromethane | | | 1.0 | ug/g | 1 | 101 | 70 | 130 | 11 | 30 |
| | | diethyl ether | | | 1.0 | ug/g | 1 | 103 | 70 | 130 | 8 | 30 |
| | | acetone | | < | 2.5 | ug/g | 1 | 95 | | | 3 | 30 |
| | | 1,1-dichloroethene | | | 0.9 | ug/g | 1 | 90 | 70 | 130 | 8 | 30 |
| | | methylene chloride | | | 1.1 | ug/g | 1 | 107 | 70 | 130 | 12 | 30 |
| | | carbon disulfide | | | 1.1 | ug/g | 1 | 108 | 70 | 130 | 10 | 30 |
| | | methyl t-butyl ether (MTBE) | | | 1.0 | ug/g | 1 | 99 | 70 | 130 | 0 | 30 |
| | | trans-1,2-dichloroethene | | | 1.0 | ug/g | 1 | 99 | 70 | 130 | 7 | 30 |
| | | 1,1-dichloroethane | | | 1.0 | ug/g | 1 | 99 | 70 | 130 | 8 | 30 |
| | | 2-butanone (MEK) | | | 1.0 | ug/g | 1 | 102 | 70 | 130 | 3 | 30 |
| | | 2,2-dichloropropane | | | 1.0 | ug/g | 1 | 96 | 70 | 130 | 6 | 30 |
| | | cis-1,2-dichloroethene | | | 1.1 | ug/g | 1 | 105 | 70 | 130 | 10 | 30 |
| | | chloroform | | | 1.0 | ug/g | 1 | 104 | 70 | 130 | 7 | 30 |
| | | bromochloromethane | | | 1.0 | ug/g | 1 | 102 | 70 | 130 | 11 | 30 |
| | | tetrahydrofuran (THF) | | | 0.8 | ug/g | 1 | 80 | 70 | 130 | 10 | 30 |
| | | 1,1,1-trichloroethane | | | 1.0 | ug/g | 1 | 100 | 70 | 130 | 7 | 30 |
| | | 1,1-dichloropropene | | | 1.0 | ug/g | 1 | 102 | 70 | 130 | 7 | 30 |
| | | carbon tetrachloride | | | 1.0 | ug/g | 1 | 97 | 70 | 130 | 7 | 30 |
| | | 1,2-dichloroethane | | | 1.0 | ug/g | 1 | 99 | 70 | 130 | 6 | 30 |
| | | benzene | | | 1.0 | ug/g | 1 | 99 | 70 | 130 | 7 | 30 |
| | | trichloroethene | | | 1.0 | ug/g | 1 | 100 | 70 | 130 | 5 | 30 |
| | | 1,2-dichloropropane | | | 1.0 | ug/g | 1 | 99 | 70 | 130 | 8 | 30 |
| | | bromodichloromethane | | | 1.0 | ug/g | 1 | 99 | 70 | 130 | 6 | 30 |
| | | dibromomethane | | | 1.0 | ug/g | 1 | 97 | 70 | 130 | 3 | 30 |
| | | 4-methyl-2-pentanone (MIBK) | | | 1.0 | ug/g | 1 | 103 | 70 | 130 | 2 | 30 |
| | | cis-1,3-dichloropropene | | | 1.0 | ug/g | 1 | 102 | 70 | 130 | 9 | 30 |
| | | toluene | | | 1.0 | ug/g | 1 | 104 | 70 | 130 | 9 | 30 |
| | | trans-1,3-dichloropropene | | | 1.0 | ug/g | 1 | 97 | 70 | 130 | 9 | 30 |
| | | 2-hexanone | | | 1.0 | ug/g | 1 | 104 | 70 | 130 | 5 | 30 |
| | | 1,1,2-trichloroethane | | | 1.0 | ug/g | 1 | 100 | 70 | 130 | 8 | 30 |
| | | 1,3-dichloropropane | | | 1.0 | ug/g | 1 | 98 | 70 | 130 | 6 | 30 |
| | | tetrachloroethene | | | 0.9 | ug/g | 1 | 94 | 70 | 130 | 4 | 30 |
| | | dibromochloromethane | | | 1.0 | ug/g | 1 | 96 | 70 | 130 | 8 | 30 |
| | | 1,2-dibromoethane (EDB) | | | 0.9 | ug/g | 1 | 95 | 70 | 130 | 3 | 30 |
| | | chlorobenzene | | | 1.0 | ug/g | 1 | 101 | 70 | 130 | 9 | 30 |
| | | 1,1,1,2-tetrachloroethane | | | 1.0 | ug/g | 1 | 101 | 70 | 130 | 8 | 30 |
| | | ethylbenzene | | | 1.0 | ug/g | 1 | 101 | 70 | 130 | 8 | 30 |
| | | m&p-xylenes | | | 2.1 | ug/g | 2 | 107 | 70 | 130 | 8 | 30 |
| | | o-xylene | | | 1.1 | ug/g | 1 | 107 | 70 | 130 | 9 | 30 |
| | | styrene | | | 1.1 | ug/g | 1 | 111 | 70 | 130 | 9 | 30 |
| | | bromoform | | | 1.0 | ug/g | 1 | 101 | 70 | 130 | 4 | 30 |
| | | isopropylbenzene | | | 1.0 | ug/g | 1 | 102 | 70 | 130 | 9 | 30 |
| | | 1,1,2,2-tetrachloroethane | | | 1.0 | ug/g | 1 | 97 | 70 | 130 | 2 | 30 |
| | | 1,2,3-trichloropropane | | | 0.9 | ug/g | 1 | 92 | 70 | 130 | 3 | 30 |
| | | n-propylbenzene | | | 1.0 | ug/g | 1 | 97 | 70 | 130 | 8 | 30 |
| | | bromobenzene | | | 1.0 | ug/g | 1 | 100 | 70 | 130 | 7 | 30 |

| Method | QC ID | Parameter | Associated Sample | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SW5035A8260B | MLCSD5548 | 1,3,5-trimethylbenzene | | 1.0 | ug/g | 1 | 98 | 70 | 130 | 8 | 30 |
| | | 2-chlorotoluene | | 1.0 | ug/g | 1 | 98 | 70 | 130 | 6 | 30 |
| | | 4-chlorotoluene | | 1.0 | ug/g | 1 | 105 | 70 | 130 | 7 | 30 |
| | | tert-butylbenzene | | 1.0 | ug/g | 1 | 102 | 70 | 130 | 12 | 30 |
| | | 1,2,4-trimethylbenzene | | 1.0 | ug/g | 1 | 99 | 70 | 130 | 7 | 30 |
| | | sec-butylbenzene | | 1.0 | ug/g | 1 | 104 | 70 | 130 | 8 | 30 |
| | | 1,3-dichlorobenzene | | 1.0 | ug/g | 1 | 104 | 70 | 130 | 7 | 30 |
| | | 4-isopropyltoluene | | 1.0 | ug/g | 1 | 101 | 70 | 130 | 6 | 30 |
| | | 1,4-dichlorobenzene | | 1.0 | ug/g | 1 | 104 | 70 | 130 | 8 | 30 |
| | | 1,2-dichlorobenzene | | 1.1 | ug/g | 1 | 106 | 70 | 130 | 7 | 30 |
| | | n-butylbenzene | | 1.1 | ug/g | 1 | 105 | 70 | 130 | 9 | 30 |
| | | 1,2-dibromo-3-chloropropane | | 1.0 | ug/g | 1 | 96 | 70 | 130 | 3 | 30 |
| | | 1,2,4-trichlorobenzene | | 1.0 | ug/g | 1 | 97 | 70 | 130 | 7 | 30 |
| | | hexachlorobutadiene | | 1.0 | ug/g | 1 | 101 | 70 | 130 | 8 | 30 |
| | | naphthalene | | 1.0 | ug/g | 1 | 100 | 70 | 130 | 1 | 30 |
| | | 1,2,3-trichlorobenzene | | 1.0 | ug/g | 1 | 101 | 70 | 130 | 4 | 30 |
| | | dibromofluoromethane SUR | | 98 | % | | | 78 | 114 | | |
| | | toluene-D8 SUR | | 102 | % | | | 88 | 110 | | |
| | | 4-bromofluorobenzene SUR | | 108 | % | | | 86 | 115 | | |
| | | a,a,a-trifluorotoluene SUR | | 104 | % | | | 70 | 130 | | |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MA EPH | BLK5547 | naphthalene | | < | 0.1 | ug/g | | | | | | |
| | | 2-methylnaphthalene | | < | 0.1 | ug/g | | | | | | |
| | | phenanthrene | | < | 0.1 | ug/g | | | | | | |
| | | acenaphthene | | < | 0.1 | ug/g | | | | | | |
| | | acenaphthylene | | < | 0.1 | ug/g | | | | | | |
| | | fluorene | | < | 0.1 | ug/g | | | | | | |
| | | anthracene | | < | 0.1 | ug/g | | | | | | |
| | | fluoranthene | | < | 0.1 | ug/g | | | | | | |
| | | pyrene | | < | 0.1 | ug/g | | | | | | |
| | | benzo(a)anthracene | | < | 0.1 | ug/g | | | | | | |
| | | chrysene | | < | 0.1 | ug/g | | | | | | |
| | | benzo(b)fluoranthene | | < | 0.1 | ug/g | | | | | | |
| | | benzo(k)fluoranthene | | < | 0.1 | ug/g | | | | | | |
| | | benzo(a)pyrene | | < | 0.1 | ug/g | | | | | | |
| | | indeno(1,2,3-cd)pyrene | | < | 0.1 | ug/g | | | | | | |
| | | dibenzo(a,h)anthracene | | < | 0.1 | ug/g | | | | | | |
| | | benzo(g,h,i)perylene | | < | 0.1 | ug/g | | | | | | |
| | | Unadjusted C11-C22 Aromatics | | < | 20 | ug/g | | | | | | |
| | | C9-C18 Aliphatics | | < | 20 | ug/g | | | | | | |
| | | C19-C36 Aliphatics | | < | 20 | ug/g | | | | | | |
| | | C11-C22 Aromatics | | < | 20 | ug/g | | | | | | |
| | | 1-chloro-octadecane SUR | | | 62 | % | | | 40 | 140 | | |
| | | o-terphenyl SUR | | | 67 | % | | | 40 | 140 | | |
| | | 2-fluorobiphenyl SUR | | | 105 | % | | | 40 | 140 | | |
| | | 2-bromonaphthalene SUR | | | 104 | % | | | 40 | 140 | | |
| MA EPH | LCS5547 | naphthalene | | | 2.6 | ug/g | 6 | 43 | 40 | 140 | | |
| | | 2-methylnaphthalene | | | 2.6 | ug/g | 6 | 44 | 40 | 140 | | |
| | | phenanthrene | | | 3.1 | ug/g | 6 | 51 | 40 | 140 | | |
| | | acenaphthene | | | 2.8 | ug/g | 6 | 47 | 40 | 140 | | |
| | | acenaphthylene | | | 2.9 | ug/g | 6 | 48 | 40 | 140 | | |
| | | fluorene | | | 2.8 | ug/g | 6 | 47 | 40 | 140 | | |
| | | anthracene | | | 2.9 | ug/g | 6 | 48 | 40 | 140 | | |
| | | fluoranthene | | | 3.0 | ug/g | 6 | 51 | 40 | 140 | | |
| | | pyrene | | | 3.5 | ug/g | 6 | 59 | 40 | 140 | | |
| | | benzo(a)anthracene | | | 3.5 | ug/g | 6 | 58 | 40 | 140 | | |
| | | chrysene | | | 3.4 | ug/g | 6 | 58 | 40 | 140 | | |
| | | benzo(b)fluoranthene | | | 3.7 | ug/g | 6 | 62 | 40 | 140 | | |
| | | benzo(k)fluoranthene | | | 3.5 | ug/g | 6 | 59 | 40 | 140 | | |
| | | benzo(a)pyrene | | | 3.4 | ug/g | 6 | 57 | 40 | 140 | | |
| | | indeno(1,2,3-cd)pyrene | | | 3.5 | ug/g | 6 | 59 | 40 | 140 | | |
| | | dibenzo(a,h)anthracene | | | 3.7 | ug/g | 6 | 61 | 40 | 140 | | |
| | | benzo(g,h,i)perylene | | | 3.7 | ug/g | 6 | 62 | 40 | 140 | | |
| | | Unadjusted C11-C22 Aromatics | | | 43 | ug/g | 102 | 42 | 40 | 140 | | |
| | | C9-C18 Aliphatics | | | 25 | ug/g | 36 | 68 | 40 | 140 | | |
| | | C19-C36 Aliphatics | | | 27 | ug/g | 48 | 57 | 40 | 140 | | |
| | | C11-C22 Aromatics | | < | 20 | ug/g | | | | | | |
| | | 1-chloro-octadecane SUR | | | 45 | % | | | 40 | 140 | | |
| | | o-terphenyl SUR | | | 47 | % | | | 40 | 140 | | |
| | | 2-fluorobiphenyl SUR | | | 97 | % | | | 40 | 140 | | |
| | | 2-bromonaphthalene SUR | | | 82 | % | | | 40 | 140 | | |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MA EPH | LCSD5547 | naphthalene | | | 3.4 | ug/g | 6 | 57 | 40 | 140 | 27 | * | 25 |
| | | 2-methylnaphthalene | | | 3.4 | ug/g | 6 | 56 | 40 | 140 | 24 | | 25 |
| | | phenanthrene | | | 3.7 | ug/g | 6 | 62 | 40 | 140 | 19 | | 25 |
| | | acenaphthene | | | 3.5 | ug/g | 6 | 59 | 40 | 140 | 23 | | 25 |
| | | acenaphthylene | | | 3.6 | ug/g | 6 | 60 | 40 | 140 | 23 | | 25 |
| | | fluorene | | | 3.7 | ug/g | 6 | 61 | 40 | 140 | 26 | * | 25 |
| | | anthracene | | | 3.8 | ug/g | 6 | 63 | 40 | 140 | 27 | * | 25 |
| | | fluoranthene | | | 3.5 | ug/g | 6 | 58 | 40 | 140 | 13 | | 25 |
| | | pyrene | | | 4.3 | ug/g | 6 | 71 | 40 | 140 | 19 | | 25 |
| | | benzo(a)anthracene | | | 4.0 | ug/g | 6 | 66 | 40 | 140 | 13 | | 25 |
| | | chrysene | | | 4.1 | ug/g | 6 | 68 | 40 | 140 | 17 | | 25 |
| | | benzo(b)fluoranthene | | | 3.7 | ug/g | 6 | 62 | 40 | 140 | 0 | | 25 |
| | | benzo(k)fluoranthene | | | 4.8 | ug/g | 6 | 79 | 40 | 140 | 30 | * | 25 |
| | | benzo(a)pyrene | | | 4.0 | ug/g | 6 | 66 | 40 | 140 | 15 | | 25 |
| | | indeno(1,2,3-cd)pyrene | | | 4.0 | ug/g | 6 | 67 | 40 | 140 | 12 | | 25 |
| | | dibenzo(a,h)anthracene | | | 4.0 | ug/g | 6 | 66 | 40 | 140 | 9 | | 25 |
| | | benzo(g,h,i)perylene | | | 3.9 | ug/g | 6 | 65 | 40 | 140 | 4 | | 25 |
| | | Unadjusted C11-C22 Aromatics | | | 53 | ug/g | 102 | 52 | 40 | 140 | 21 | | 25 |
| | | C9-C18 Aliphatics | | | 30 | ug/g | 36 | 83 | 40 | 140 | 19 | | 25 |
| | | C19-C36 Aliphatics | | | 38 | ug/g | 48 | 79 | 40 | 140 | 32 | * | 25 |
| | | C11-C22 Aromatics | | < | 20 | ug/g | | | | | | | |
| | | 1-chloro-octadecane SUR | | | 59 | % | | | 40 | 140 | | | |
| | | o-terphenyl SUR | | | 65 | % | | | 40 | 140 | | | |
| | | 2-fluorobiphenyl SUR | | | 103 | % | | | 40 | 140 | | | |
| | | 2-bromonaphthalene SUR | | | 86 | % | | | 40 | 140 | | | |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MA EPH | BLK5572 | naphthalene | | < | 0.1 | ug/g | | | | | | |
| | | 2-methylnaphthalene | | < | 0.1 | ug/g | | | | | | |
| | | phenanthrene | | < | 0.1 | ug/g | | | | | | |
| | | acenaphthene | | < | 0.1 | ug/g | | | | | | |
| | | acenaphthylene | | < | 0.1 | ug/g | | | | | | |
| | | fluorene | | < | 0.1 | ug/g | | | | | | |
| | | anthracene | | < | 0.1 | ug/g | | | | | | |
| | | fluoranthene | | < | 0.1 | ug/g | | | | | | |
| | | pyrene | | < | 0.1 | ug/g | | | | | | |
| | | benzo(a)anthracene | | < | 0.1 | ug/g | | | | | | |
| | | chrysene | | < | 0.1 | ug/g | | | | | | |
| | | benzo(b)fluoranthene | | < | 0.1 | ug/g | | | | | | |
| | | benzo(k)fluoranthene | | < | 0.1 | ug/g | | | | | | |
| | | benzo(a)pyrene | | < | 0.1 | ug/g | | | | | | |
| | | indeno(1,2,3-cd)pyrene | | < | 0.1 | ug/g | | | | | | |
| | | dibenzo(a,h)anthracene | | < | 0.1 | ug/g | | | | | | |
| | | benzo(g,h,i)perylene | | < | 0.1 | ug/g | | | | | | |
| | | Unadjusted C11-C22 Aromatics | | < | 20 | ug/g | | | | | | |
| | | C9-C18 Aliphatics | | < | 20 | ug/g | | | | | | |
| | | C19-C36 Aliphatics | | < | 20 | ug/g | | | | | | |
| | | C11-C22 Aromatics | | < | 20 | ug/g | | | | | | |
| | | 1-chloro-octadecane SUR | | | 62 | % | | | 40 | 140 | | |
| | | o-terphenyl SUR | | | 69 | % | | | 40 | 140 | | |
| | | 2-fluorobiphenyl SUR | | | 99 | % | | | 40 | 140 | | |
| | | 2-bromonaphthalene SUR | | | 96 | % | | | 40 | 140 | | |
| MA EPH | LCS5572 | naphthalene | | | 3.8 | ug/g | 6 | 63 | 40 | 140 | | |
| | | 2-methylnaphthalene | | | 3.7 | ug/g | 6 | 62 | 40 | 140 | | |
| | | phenanthrene | | | 4.4 | ug/g | 6 | 74 | 40 | 140 | | |
| | | acenaphthene | | | 4.0 | ug/g | 6 | 67 | 40 | 140 | | |
| | | acenaphthylene | | | 4.3 | ug/g | 6 | 71 | 40 | 140 | | |
| | | fluorene | | | 3.6 | ug/g | 6 | 59 | 40 | 140 | | |
| | | anthracene | | | 4.3 | ug/g | 6 | 72 | 40 | 140 | | |
| | | fluoranthene | | | 4.5 | ug/g | 6 | 74 | 40 | 140 | | |
| | | pyrene | | | 5.2 | ug/g | 6 | 87 | 40 | 140 | | |
| | | benzo(a)anthracene | | | 4.9 | ug/g | 6 | 81 | 40 | 140 | | |
| | | chrysene | | | 5.0 | ug/g | 6 | 83 | 40 | 140 | | |
| | | benzo(b)fluoranthene | | | 4.8 | ug/g | 6 | 79 | 40 | 140 | | |
| | | benzo(k)fluoranthene | | | 5.3 | ug/g | 6 | 89 | 40 | 140 | | |
| | | benzo(a)pyrene | | | 4.8 | ug/g | 6 | 80 | 40 | 140 | | |
| | | indeno(1,2,3-cd)pyrene | | | 4.9 | ug/g | 6 | 82 | 40 | 140 | | |
| | | dibenzo(a,h)anthracene | | | 5.0 | ug/g | 6 | 83 | 40 | 140 | | |
| | | benzo(g,h,i)perylene | | | 4.9 | ug/g | 6 | 82 | 40 | 140 | | |
| | | Unadjusted C11-C22 Aromatics | | | 48 | ug/g | 102 | 48 | 40 | 140 | | |
| | | C9-C18 Aliphatics | | | 32 | ug/g | 36 | 89 | 40 | 140 | | |
| | | C19-C36 Aliphatics | | | 42 | ug/g | 48 | 87 | 40 | 140 | | |
| | | C11-C22 Aromatics | | < | 20 | ug/g | | | | | | |
| | | 1-chloro-octadecane SUR | | | 64 | % | | | 40 | 140 | | |
| | | o-terphenyl SUR | | | 62 | % | | | 40 | 140 | | |
| | | 2-fluorobiphenyl SUR | | | 85 | % | | | 40 | 140 | | |
| | | 2-bromonaphthalene SUR | | | 74 | % | | | 40 | 140 | | |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MA EPH | LCSD5572 | naphthalene | | | 3.9 | ug/g | 6 | 65 | 40 | 140 | 3 | | 25 |
| | | 2-methylnaphthalene | | | 3.9 | ug/g | 6 | 65 | 40 | 140 | 4 | | 25 |
| | | phenanthrene | | | 4.3 | ug/g | 6 | 72 | 40 | 140 | 2 | | 25 |
| | | acenaphthene | | | 4.1 | ug/g | 6 | 69 | 40 | 140 | 3 | | 25 |
| | | acenaphthylene | | | 4.2 | ug/g | 6 | 71 | 40 | 140 | 1 | | 25 |
| | | fluorene | | | 3.9 | ug/g | 6 | 66 | 40 | 140 | 10 | | 25 |
| | | anthracene | | | 4.0 | ug/g | 6 | 67 | 40 | 140 | 6 | | 25 |
| | | fluoranthene | | | 3.3 | ug/g | 6 | 55 | 40 | 140 | 29 | * | 25 |
| | | pyrene | | | 4.8 | ug/g | 6 | 79 | 40 | 140 | 9 | | 25 |
| | | benzo(a)anthracene | | | 4.7 | ug/g | 6 | 78 | 40 | 140 | 3 | | 25 |
| | | chrysene | | | 4.9 | ug/g | 6 | 82 | 40 | 140 | 2 | | 25 |
| | | benzo(b)fluoranthene | | | 4.3 | ug/g | 6 | 72 | 40 | 140 | 10 | | 25 |
| | | benzo(k)fluoranthene | | | 5.5 | ug/g | 6 | 92 | 40 | 140 | 3 | | 25 |
| | | benzo(a)pyrene | | | 4.6 | ug/g | 6 | 77 | 40 | 140 | 4 | | 25 |
| | | indeno(1,2,3-cd)pyrene | | | 4.7 | ug/g | 6 | 78 | 40 | 140 | 5 | | 25 |
| | | dibenzo(a,h)anthracene | | | 4.9 | ug/g | 6 | 81 | 40 | 140 | 2 | | 25 |
| | | benzo(g,h,i)perylene | | | 4.6 | ug/g | 6 | 77 | 40 | 140 | 6 | | 25 |
| | | Unadjusted C11-C22 Aromatics | | | 49 | ug/g | 102 | 48 | 40 | 140 | 1 | | 25 |
| | | C9-C18 Aliphatics | | | 31 | ug/g | 36 | 85 | 40 | 140 | 5 | | 25 |
| | | C19-C36 Aliphatics | | | 38 | ug/g | 48 | 78 | 40 | 140 | 11 | | 25 |
| | | C11-C22 Aromatics | | < | 20 | ug/g | | | | | | | |
| | | 1-chloro-octadecane SUR | | | 57 | % | | | 40 | 140 | | | |
| | | o-terphenyl SUR | | | 59 | % | | | 40 | 140 | | | |
| | | 2-fluorobiphenyl SUR | | | 100 | % | | | 40 | 140 | | | |
| | | 2-bromonaphthalene SUR | | | 83 | % | | | 40 | 140 | | | |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3540C8082A | BLK5551 | PCB-1016 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1221 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1232 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1242 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1248 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1254 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1260 | | < | 0.02 | ug/g | | | | | | | |
| | | tetrachloro-m-xylene SUR | | | 73 | % | | | 30 | 150 | | | |
| | | decachlorobiphenyl SUR | | | 66 | % | | | 30 | 150 | | | |
| SW3540C8082A | LCS5551 | PCB-1016 | | | 0.10 | ug/g | 0.2 | 50 | 40 | 140 | | | |
| | | PCB-1221 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1232 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1242 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1248 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1254 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1260 | | | 0.10 | ug/g | 0.2 | 49 | 40 | 140 | | | |
| | | tetrachloro-m-xylene SUR | | | 35 | % | | | 30 | 150 | | | |
| | | decachlorobiphenyl SUR | | | 48 | % | | | 30 | 150 | | | |
| SW3540C8082A | LCSD5551 | PCB-1016 | | | 0.19 | ug/g | 0.2 | 93 | 40 | 140 | 60 | * | 30 |
| | | PCB-1221 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1232 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1242 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1248 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1254 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1260 | | | 0.17 | ug/g | 0.2 | 87 | 40 | 140 | 55 | * | 30 |
| | | tetrachloro-m-xylene SUR | | | 69 | % | | | 30 | 150 | | | |
| | | decachlorobiphenyl SUR | | | 77 | % | | | 30 | 150 | | | |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3540C8082A | BLK5561 | PCB-1016 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1221 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1232 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1242 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1248 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1254 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1260 | | < | 0.02 | ug/g | | | | | | | |
| | | tetrachloro-m-xylene SUR | | | 56 | % | | | 30 | 150 | | | |
| | | decachlorobiphenyl SUR | | | 66 | % | | | 30 | 150 | | | |
| SW3540C8082A | LCS5561 | PCB-1016 | | | 0.12 | ug/g | 0.2 | 59 | 40 | 140 | | | |
| | | PCB-1221 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1232 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1242 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1248 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1254 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1260 | | | 0.10 | ug/g | 0.2 | 52 | 40 | 140 | | | |
| | | tetrachloro-m-xylene SUR | | | 45 | % | | | 30 | 150 | | | |
| | | decachlorobiphenyl SUR | | | 58 | % | | | 30 | 150 | | | |
| SW3540C8082A | LCSD5561 | PCB-1016 | | | 0.17 | ug/g | 0.2 | 86 | 40 | 140 | 36 | * | 30 |
| | | PCB-1221 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1232 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1242 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1248 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1254 | | < | 0.02 | ug/g | | | | | | | |
| | | PCB-1260 | | | 0.15 | ug/g | 0.2 | 73 | 40 | 140 | 33 | * | 30 |
| | | tetrachloro-m-xylene SUR | | | 64 | % | | | 30 | 150 | | | |
| | | decachlorobiphenyl SUR | | | 73 | % | | | 30 | 150 | | | |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | | Result | Units Amt Added | %R | Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| SW3546/8270D | BLK5556 | N-nitrosodimethylamine | | < | 0.2 | ug/g | | | | |
| | | aniline | | < | 0.2 | ug/g | | | | |
| | | phenol | | < | 0.2 | ug/g | | | | |
| | | 2-chlorophenol | | < | 0.5 | ug/g | | | | |
| | | bis(2-chloroethyl)ether | | < | 0.2 | ug/g | | | | |
| | | 1,3-dichlorobenzene | | < | 0.2 | ug/g | | | | |
| | | 1,4-dichlorobenzene | | < | 0.2 | ug/g | | | | |
| | | 1,2-dichlorobenzene | | < | 0.2 | ug/g | | | | |
| | | benzyl alcohol | | < | 0.2 | ug/g | | | | |
| | | 2-methylphenol | | < | 0.2 | ug/g | | | | |
| | | bis(2-chloroisopropyl) ether | | < | 0.2 | ug/g | | | | |
| | | hexachloroethane | | < | 0.2 | ug/g | | | | |
| | | N-nitroso-di-N-propylamine | | < | 0.2 | ug/g | | | | |
| | | 4-methylphenol | | < | 0.2 | ug/g | | | | |
| | | nitrobenzene | | < | 0.2 | ug/g | | | | |
| | | isophorone | | < | 0.5 | ug/g | | | | |
| | | 2-nitrophenol | | < | 0.2 | ug/g | | | | |
| | | 2,4-dimethylphenol | | < | 0.2 | ug/g | | | | |
| | | bis(2-chloroethoxy)methane | | < | 0.5 | ug/g | | | | |
| | | 2,4-dichlorophenol | | < | 0.5 | ug/g | | | | |
| | | 1,2,4-trichlorobenzene | | < | 0.5 | ug/g | | | | |
| | | naphthalene | | < | 0.05 | ug/g | | | | |
| | | benzoic acid | | < | 5.0 | ug/g | | | | |
| | | 4-chloroaniline | | < | 0.2 | ug/g | | | | |
| | | hexachlorobutadiene | | < | 0.2 | ug/g | | | | |
| | | 4-chloro-3-methylphenol | | < | 0.2 | ug/g | | | | |
| | | 2-methylnaphthalene | | < | 0.05 | ug/g | | | | |
| | | hexachlorocyclopentadiene | | < | 1.0 | ug/g | | | | |
| | | 2,4,6-trichlorophenol | | < | 0.2 | ug/g | | | | |
| | | 2,4,5-trichlorophenol | | < | 0.2 | ug/g | | | | |
| | | 2-chloronaphthalene | | < | 0.5 | ug/g | | | | |
| | | 2-nitroaniline | | < | 0.2 | ug/g | | | | |
| | | acenaphthylene | | < | 0.05 | ug/g | | | | |
| | | dimethylphthalate | | < | 0.5 | ug/g | | | | |
| | | 2,6-dinitrotoluene | | < | 0.2 | ug/g | | | | |
| | | 2,4-dinitrotoluene | | < | 0.2 | ug/g | | | | |
| | | acenaphthene | | < | 0.05 | ug/g | | | | |
| | | 3-nitroaniline | | < | 0.2 | ug/g | | | | |
| | | 2,4-dinitrophenol | | < | 5.0 | ug/g | | | | |
| | | dibenzofuran | | < | 0.05 | ug/g | | | | |
| | | 4-nitrophenol | | < | 1.0 | ug/g | | | | |
| | | fluorene | | < | 0.05 | ug/g | | | | |
| | | diethyl phthalate | | < | 0.5 | ug/g | | | | |
| | | 4-chlorophenyl phenyl ether | | < | 0.5 | ug/g | | | | |
| | | 4-nitroaniline | | < | 0.5 | ug/g | | | | |
| | | 4,6-dinitro-2-methylphenol | | < | 2.0 | ug/g | | | | |
| | | azobenzene | | < | 0.2 | ug/g | | | | |
| | | N-nitrosodiphenylamine | | < | 0.2 | ug/g | | | | |
| | | 4-bromophenyl phenyl ether | | < | 0.2 | ug/g | | | | |
| | | hexachlorobenzene | | < | 0.2 | ug/g | | | | |
| | | pentachlorophenol | | < | 1.0 | ug/g | | | | |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | | Result | Units Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3546/8270D | BLK5556 | phenanthrene | | < | 0.05 | ug/g | | | | | |
| | | anthracene | | < | 0.05 | ug/g | | | | | |
| | | carbazole | | < | 0.2 | ug/g | | | | | |
| | | di-n-butylphthalate | | < | 0.5 | ug/g | | | | | |
| | | fluoranthene | | < | 0.05 | ug/g | | | | | |
| | | benzidine | | < | 3.0 | ug/g | | | | | |
| | | pyrene | | < | 0.05 | ug/g | | | | | |
| | | butyl benzyl phthalate | | < | 0.5 | ug/g | | | | | |
| | | benzo(a)anthracene | | < | 0.05 | ug/g | | | | | |
| | | chrysene | | < | 0.05 | ug/g | | | | | |
| | | 3,3'-dichlorobenzidine | | < | 3.0 | ug/g | | | | | |
| | | bis(2-ethylhexyl)phthalate | | < | 0.5 | ug/g | | | | | |
| | | di-n-octyl phthalate | | < | 0.2 | ug/g | | | | | |
| | | benzo(b)fluoranthene | | < | 0.05 | ug/g | | | | | |
| | | benzo(k)fluoranthene | | < | 0.05 | ug/g | | | | | |
| | | benzo(a)pyrene | | < | 0.02 | ug/g | | | | | |
| | | indeno(1,2,3-cd)pyrene | | < | 0.05 | ug/g | | | | | |
| | | dibenzo(a,h)anthracene | | < | 0.05 | ug/g | | | | | |
| | | benzo(g,h,i)perylene | | < | 0.05 | ug/g | | | | | |
| | | 2-fluorophenol SUR | | | 58 | % | | 21 | 100 | | |
| | | phenol-D5 SUR | | | 56 | % | | 10 | 102 | | |
| | | 2,4,6-tribromophenol SUR | | | 59 | % | | 10 | 123 | | |
| | | nitrobenzene-D5 SUR | | | 58 | % | | 35 | 114 | | |
| | | 2-fluorobiphenyl SUR | | | 69 | % | | 43 | 116 | | |
| | | p-terphenyl-D14 SUR | | | 78 | % | | 33 | 141 | | |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3546/8270D | LCS5556 | N-nitrosodimethylamine | | | 1.9 | ug/g | 4 | 48 | | 40 | 140 | | |
| | | aniline | | | 1.9 | ug/g | 4 | 46 | | 40 | 140 | | |
| | | phenol | | | 2.3 | ug/g | 4 | 57 | | 30 | 130 | | |
| | | 2-chlorophenol | | | 2.5 | ug/g | 4 | 63 | | 30 | 130 | | |
| | | bis(2-chloroethyl)ether | | | 2.9 | ug/g | 4 | 72 | | 40 | 140 | | |
| | | 1,3-dichlorobenzene | | | 2.2 | ug/g | 4 | 55 | | 40 | 140 | | |
| | | 1,4-dichlorobenzene | | | 2.3 | ug/g | 4 | 58 | | 40 | 140 | | |
| | | 1,2-dichlorobenzene | | | 2.4 | ug/g | 4 | 60 | | 40 | 140 | | |
| | | benzyl alcohol | | | 2.2 | ug/g | 4 | 54 | | 30 | 130 | | |
| | | 2-methylphenol | | | 2.5 | ug/g | 4 | 62 | | 30 | 130 | | |
| | | bis(2-chloroisopropyl) ether | | | 2.3 | ug/g | 4 | 58 | | 40 | 140 | | |
| | | hexachloroethane | | | 2.2 | ug/g | 4 | 56 | | 40 | 140 | | |
| | | N-nitroso-di-N-propylamine | | | 2.2 | ug/g | 4 | 54 | | 40 | 140 | | |
| | | 4-methylphenol | | | 2.6 | ug/g | 4 | 64 | | 30 | 130 | | |
| | | nitrobenzene | | | 2.2 | ug/g | 4 | 55 | | 40 | 140 | | |
| | | isophorone | | | 2.2 | ug/g | 4 | 56 | | 40 | 140 | | |
| | | 2-nitrophenol | | | 2.1 | ug/g | 4 | 53 | | 30 | 130 | | |
| | | 2,4-dimethylphenol | | | 2.6 | ug/g | 4 | 65 | | 30 | 130 | | |
| | | bis(2-chloroethoxy)methane | | | 2.4 | ug/g | 4 | 60 | | 40 | 140 | | |
| | | 2,4-dichlorophenol | | | 2.7 | ug/g | 4 | 67 | | 30 | 130 | | |
| | | 1,2,4-trichlorobenzene | | | 2.3 | ug/g | 4 | 57 | | 40 | 140 | | |
| | | naphthalene | | | 2.3 | ug/g | 4 | 58 | | 40 | 140 | | |
| | | benzoic acid | | < | 5.0 | ug/g | | | | | | | |
| | | 4-chloroaniline | | | 2.6 | ug/g | 4 | 64 | | 40 | 140 | | |
| | | hexachlorobutadiene | | | 2.5 | ug/g | 4 | 62 | | 40 | 140 | | |
| | | 4-chloro-3-methylphenol | | | 2.7 | ug/g | 4 | 68 | | 30 | 130 | | |
| | | 2-methylnaphthalene | | | 2.27 | ug/g | 4 | 57 | | 40 | 140 | | |
| | | hexachlorocyclopentadiene | | < | 1.0 | ug/g | 4 | 14 | * | 40 | 140 | | |
| | | 2,4,6-trichlorophenol | | | 2.8 | ug/g | 4 | 69 | | 30 | 130 | | |
| | | 2,4,5-trichlorophenol | | | 2.5 | ug/g | 4 | 62 | | 30 | 130 | | |
| | | 2-chloronaphthalene | | | 2.5 | ug/g | 4 | 62 | | 40 | 140 | | |
| | | 2-nitroaniline | | | 2.8 | ug/g | 4 | 69 | | 40 | 140 | | |
| | | acenaphthylene | | | 2.4 | ug/g | 4 | 61 | | 40 | 140 | | |
| | | dimethylphthalate | | | 2.7 | ug/g | 4 | 68 | | 40 | 140 | | |
| | | 2,6-dinitrotoluene | | | 2.8 | ug/g | 4 | 71 | | 40 | 140 | | |
| | | 2,4-dinitrotoluene | | | 2.8 | ug/g | 4 | 70 | | 40 | 140 | | |
| | | acenaphthene | | | 2.5 | ug/g | 4 | 61 | | 40 | 140 | | |
| | | 3-nitroaniline | | | 2.9 | ug/g | 4 | 72 | | 40 | 140 | | |
| | | 2,4-dinitrophenol | | < | 5.0 | ug/g | | | | | | | |
| | | dibenzofuran | | | 2.5 | ug/g | 4 | 64 | | 40 | 140 | | |
| | | 4-nitrophenol | | | 2.0 | ug/g | 4 | 50 | | 30 | 130 | | |
| | | fluorene | | | 2.8 | ug/g | 4 | 69 | | 40 | 140 | | |
| | | diethyl phthalate | | | 2.8 | ug/g | 4 | 70 | | 40 | 140 | | |
| | | 4-chlorophenyl phenyl ether | | | 2.8 | ug/g | 4 | 69 | | 40 | 140 | | |
| | | 4-nitroaniline | | | 2.8 | ug/g | 4 | 71 | | 40 | 140 | | |
| | | 4,6-dinitro-2-methylphenol | | < | 2.0 | ug/g | | | | | | | |
| | | azobenzene | | | 2.6 | ug/g | 4 | 66 | | 40 | 140 | | |
| | | N-nitrosodiphenylamine | | | 3.1 | ug/g | 4 | 79 | | 40 | 140 | | |
| | | 4-bromophenyl phenyl ether | | | 2.7 | ug/g | 4 | 67 | | 40 | 140 | | |
| | | hexachlorobenzene | | | 2.7 | ug/g | 4 | 68 | | 40 | 140 | | |
| | | pentachlorophenol | | | 1.9 | ug/g | 4 | 48 | | 30 | 130 | | |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3546/8270D | LCS5556 | phenanthrene | | | 2.7 | ug/g | 4 | 67 | 40 | 140 | | |
| | | anthracene | | | 2.6 | ug/g | 4 | 65 | 40 | 140 | | |
| | | carbazole | | | 2.7 | ug/g | 4 | 68 | 40 | 140 | | |
| | | di-n-butylphthalate | | | 2.7 | ug/g | 4 | 68 | 40 | 140 | | |
| | | fluoranthene | | | 2.7 | ug/g | 4 | 67 | 40 | 140 | | |
| | | benzidine | | < | 3.0 | ug/g | | | | | | |
| | | pyrene | | | 3.6 | ug/g | 4 | 89 | 40 | 140 | | |
| | | butyl benzyl phthalate | | | 2.9 | ug/g | 4 | 73 | 40 | 140 | | |
| | | benzo(a)anthracene | | | 2.8 | ug/g | 4 | 71 | 40 | 140 | | |
| | | chrysene | | | 2.7 | ug/g | 4 | 67 | 40 | 140 | | |
| | | 3,3'-dichlorobenzidine | | < | 3.0 | ug/g | | | | | | |
| | | bis(2-ethylhexyl)phthalate | | | 3.1 | ug/g | 4 | 79 | 40 | 140 | | |
| | | di-n-octyl phthalate | | | 3.4 | ug/g | 4 | 86 | 40 | 140 | | |
| | | benzo(b)fluoranthene | | | 2.8 | ug/g | 4 | 69 | 40 | 140 | | |
| | | benzo(k)fluoranthene | | | 3.1 | ug/g | 4 | 76 | 40 | 140 | | |
| | | benzo(a)pyrene | | | 2.8 | ug/g | 4 | 71 | 40 | 140 | | |
| | | indeno(1,2,3-cd)pyrene | | | 3.1 | ug/g | 4 | 77 | 40 | 140 | | |
| | | dibenzo(a,h)anthracene | | | 3.1 | ug/g | 4 | 79 | 40 | 140 | | |
| | | benzo(g,h,i)perylene | | | 3.2 | ug/g | 4 | 80 | 40 | 140 | | |
| | | 2-fluorophenol SUR | | | 59 | % | | | 21 | 100 | | |
| | | phenol-D5 SUR | | | 54 | % | | | 10 | 102 | | |
| | | 2,4,6-tribromophenol SUR | | | 74 | % | | | 10 | 123 | | |
| | | nitrobenzene-D5 SUR | | | 58 | % | | | 35 | 114 | | |
| | | 2-fluorobiphenyl SUR | | | 73 | % | | | 43 | 116 | | |
| | | p-terphenyl-D14 SUR | | | 94 | % | | | 33 | 141 | | |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3546/8270D | LCSD5556 | N-nitrosodimethylamine | | | 2.1 | ug/g | 4 | 52 | | 40 | 140 | 8 | 30 |
| | | aniline | | | 2.0 | ug/g | 4 | 50 | | 40 | 140 | 8 | 30 |
| | | phenol | | | 2.3 | ug/g | 4 | 58 | | 30 | 130 | 1 | 30 |
| | | 2-chlorophenol | | | 2.6 | ug/g | 4 | 65 | | 30 | 130 | 4 | 30 |
| | | bis(2-chloroethyl)ether | | | 2.9 | ug/g | 4 | 71 | | 40 | 140 | 1 | 30 |
| | | 1,3-dichlorobenzene | | | 2.3 | ug/g | 4 | 57 | | 40 | 140 | 4 | 30 |
| | | 1,4-dichlorobenzene | | | 2.4 | ug/g | 4 | 60 | | 40 | 140 | 4 | 30 |
| | | 1,2-dichlorobenzene | | | 2.5 | ug/g | 4 | 61 | | 40 | 140 | 3 | 30 |
| | | benzyl alcohol | | | 2.3 | ug/g | 4 | 57 | | 30 | 130 | 5 | 30 |
| | | 2-methylphenol | | | 2.7 | ug/g | 4 | 67 | | 30 | 130 | 8 | 30 |
| | | bis(2-chloroisopropyl) ether | | | 2.4 | ug/g | 4 | 59 | | 40 | 140 | 3 | 30 |
| | | hexachloroethane | | | 2.3 | ug/g | 4 | 58 | | 40 | 140 | 3 | 30 |
| | | N-nitroso-di-N-propylamine | | | 2.3 | ug/g | 4 | 57 | | 40 | 140 | 5 | 30 |
| | | 4-methylphenol | | | 2.8 | ug/g | 4 | 70 | | 30 | 130 | 9 | 30 |
| | | nitrobenzene | | | 2.3 | ug/g | 4 | 58 | | 40 | 140 | 4 | 30 |
| | | isophorone | | | 2.3 | ug/g | 4 | 59 | | 40 | 140 | 5 | 30 |
| | | 2-nitrophenol | | | 2.2 | ug/g | 4 | 56 | | 30 | 130 | 4 | 30 |
| | | 2,4-dimethylphenol | | | 2.7 | ug/g | 4 | 66 | | 30 | 130 | 1 | 30 |
| | | bis(2-chloroethoxy)methane | | | 2.5 | ug/g | 4 | 63 | | 40 | 140 | 6 | 30 |
| | | 2,4-dichlorophenol | | | 2.7 | ug/g | 4 | 68 | | 30 | 130 | 2 | 30 |
| | | 1,2,4-trichlorobenzene | | | 2.4 | ug/g | 4 | 60 | | 40 | 140 | 6 | 30 |
| | | naphthalene | | | 2.4 | ug/g | 4 | 60 | | 40 | 140 | 4 | 30 |
| | | benzoic acid | | < | 5.0 | ug/g | | | | | | | |
| | | 4-chloroaniline | | | 2.7 | ug/g | 4 | 68 | | 40 | 140 | 6 | 30 |
| | | hexachlorobutadiene | | | 2.6 | ug/g | 4 | 65 | | 40 | 140 | 5 | 30 |
| | | 4-chloro-3-methylphenol | | | 2.8 | ug/g | 4 | 69 | | 30 | 130 | 2 | 30 |
| | | 2-methylnaphthalene | | | 2.35 | ug/g | 4 | 59 | | 40 | 140 | 3 | 30 |
| | | hexachlorocyclopentadiene | | < | 1.0 | ug/g | 4 | 16 | * | 40 | 140 | 14 | 30 |
| | | 2,4,6-trichlorophenol | | | 2.8 | ug/g | 4 | 71 | | 30 | 130 | 2 | 30 |
| | | 2,4,5-trichlorophenol | | | 2.6 | ug/g | 4 | 66 | | 30 | 130 | 5 | 30 |
| | | 2-chloronaphthalene | | | 2.5 | ug/g | 4 | 63 | | 40 | 140 | 1 | 30 |
| | | 2-nitroaniline | | | 2.8 | ug/g | 4 | 70 | | 40 | 140 | 2 | 30 |
| | | acenaphthylene | | | 2.5 | ug/g | 4 | 63 | | 40 | 140 | 3 | 30 |
| | | dimethylphthalate | | | 2.8 | ug/g | 4 | 70 | | 40 | 140 | 3 | 30 |
| | | 2,6-dinitrotoluene | | | 2.9 | ug/g | 4 | 72 | | 40 | 140 | 2 | 30 |
| | | 2,4-dinitrotoluene | | | 2.9 | ug/g | 4 | 72 | | 40 | 140 | 3 | 30 |
| | | acenaphthene | | | 2.5 | ug/g | 4 | 62 | | 40 | 140 | 1 | 30 |
| | | 3-nitroaniline | | | 3.0 | ug/g | 4 | 76 | | 40 | 140 | 5 | 30 |
| | | 2,4-dinitrophenol | | < | 5.0 | ug/g | | | | | | | |
| | | dibenzofuran | | | 2.6 | ug/g | 4 | 64 | | 40 | 140 | 0 | 30 |
| | | 4-nitrophenol | | | 2.1 | ug/g | 4 | 53 | | 30 | 130 | 7 | 30 |
| | | fluorene | | | 2.7 | ug/g | 4 | 69 | | 40 | 140 | 0 | 30 |
| | | diethyl phthalate | | | 2.8 | ug/g | 4 | 71 | | 40 | 140 | 1 | 30 |
| | | 4-chlorophenyl phenyl ether | | | 2.8 | ug/g | 4 | 69 | | 40 | 140 | 1 | 30 |
| | | 4-nitroaniline | | | 2.9 | ug/g | 4 | 72 | | 40 | 140 | 2 | 30 |
| | | 4,6-dinitro-2-methylphenol | | < | 2.0 | ug/g | | | | | | | |
| | | azobenzene | | | 2.6 | ug/g | 4 | 66 | | 40 | 140 | 1 | 30 |
| | | N-nitrosodiphenylamine | | | 3.2 | ug/g | 4 | 79 | | 40 | 140 | 1 | 30 |
| | | 4-bromophenyl phenyl ether | | | 2.7 | ug/g | 4 | 68 | | 40 | 140 | 1 | 30 |
| | | hexachlorobenzene | | | 2.8 | ug/g | 4 | 69 | | 40 | 140 | 2 | 30 |
| | | pentachlorophenol | | | 1.9 | ug/g | 4 | 48 | | 30 | 130 | 0 | 30 |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3546/8270D | LCSD5556 | phenanthrene | | | 2.7 | ug/g | 4 | 67 | 40 | 140 | 1 | 30 |
| | | anthracene | | | 2.6 | ug/g | 4 | 65 | 40 | 140 | 1 | 30 |
| | | carbazole | | | 2.8 | ug/g | 4 | 69 | 40 | 140 | 2 | 30 |
| | | di-n-butylphthalate | | | 2.8 | ug/g | 4 | 70 | 40 | 140 | 3 | 30 |
| | | fluoranthene | | | 2.7 | ug/g | 4 | 68 | 40 | 140 | 2 | 30 |
| | | benzidine | | < | 3.0 | ug/g | | | | | | |
| | | pyrene | | | 3.8 | ug/g | 4 | 94 | 40 | 140 | 5 | 30 |
| | | butyl benzyl phthalate | | | 3.0 | ug/g | 4 | 75 | 40 | 140 | 4 | 30 |
| | | benzo(a)anthracene | | | 2.9 | ug/g | 4 | 73 | 40 | 140 | 3 | 30 |
| | | chrysene | | | 2.7 | ug/g | 4 | 68 | 40 | 140 | 2 | 30 |
| | | 3,3'-dichlorobenzidine | | < | 3.0 | ug/g | | | | | | |
| | | bis(2-ethylhexyl)phthalate | | | 3.3 | ug/g | 4 | 82 | 40 | 140 | 4 | 30 |
| | | di-n-octyl phthalate | | | 3.6 | ug/g | 4 | 90 | 40 | 140 | 5 | 30 |
| | | benzo(b)fluoranthene | | | 3.0 | ug/g | 4 | 74 | 40 | 140 | 7 | 30 |
| | | benzo(k)fluoranthene | | | 3.0 | ug/g | 4 | 74 | 40 | 140 | 3 | 30 |
| | | benzo(a)pyrene | | | 2.9 | ug/g | 4 | 73 | 40 | 140 | 2 | 30 |
| | | indeno(1,2,3-cd)pyrene | | | 3.1 | ug/g | 4 | 77 | 40 | 140 | 0 | 30 |
| | | dibenzo(a,h)anthracene | | | 3.2 | ug/g | 4 | 79 | 40 | 140 | 0 | 30 |
| | | benzo(g,h,i)perylene | | | 3.3 | ug/g | 4 | 81 | 40 | 140 | 1 | 30 |
| | | 2-fluorophenol SUR | | | 59 | % | | | 21 | 100 | | |
| | | phenol-D5 SUR | | | 53 | % | | | 10 | 102 | | |
| | | 2,4,6-tribromophenol SUR | | | 74 | % | | | 10 | 123 | | |
| | | nitrobenzene-D5 SUR | | | 58 | % | | | 35 | 114 | | |
| | | 2-fluorobiphenyl SUR | | | 71 | % | | | 43 | 116 | | |
| | | p-terphenyl-D14 SUR | | | 96 | % | | | 33 | 141 | | |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3550B8270D | BLK5555 | naphthalene | | < | 0.50 | ug/g | | | | | | |
| | | 2-methylnaphthalene | | < | 0.50 | ug/g | | | | | | |
| | | acenaphthylene | | < | 0.50 | ug/g | | | | | | |
| | | acenaphthene | | < | 0.50 | ug/g | | | | | | |
| | | dibenzofuran | | < | 0.50 | ug/g | | | | | | |
| | | fluorene | | < | 0.50 | ug/g | | | | | | |
| | | phenanthrene | | < | 0.50 | ug/g | | | | | | |
| | | anthracene | | < | 0.50 | ug/g | | | | | | |
| | | fluoranthene | | < | 0.50 | ug/g | | | | | | |
| | | pyrene | | < | 0.50 | ug/g | | | | | | |
| | | benzo(a)anthracene | | < | 0.50 | ug/g | | | | | | |
| | | chrysene | | < | 0.50 | ug/g | | | | | | |
| | | benzo(b)fluoranthene | | < | 0.50 | ug/g | | | | | | |
| | | benzo(k)fluoranthene | | < | 0.50 | ug/g | | | | | | |
| | | benzo(a)pyrene | | < | 0.50 | ug/g | | | | | | |
| | | indeno(1,2,3-cd)pyrene | | < | 0.50 | ug/g | | | | | | |
| | | dibenzo(a,h)anthracene | | < | 0.50 | ug/g | | | | | | |
| | | benzo(g,h,i)perylene | | < | 0.50 | ug/g | | | | | | |
| | | 2-fluorobiphenyl SUR | | | 81 | % | | | 43 | 116 | | |
| | | o-terphenyl SUR | | | 83 | % | | | 33 | 141 | | |
| SW3550B8270D | LCS5555 | naphthalene | | | 3.3 | ug/g | 4 | 83 | 40 | 140 | | |
| | | 2-methylnaphthalene | | | 3.3 | ug/g | 4 | 81 | 40 | 140 | | |
| | | acenaphthylene | | | 3.2 | ug/g | 4 | 81 | 40 | 140 | | |
| | | acenaphthene | | | 3.3 | ug/g | 4 | 82 | 40 | 140 | | |
| | | dibenzofuran | | < | 0.50 | ug/g | | | | | | |
| | | fluorene | | | 3.4 | ug/g | 4 | 86 | 40 | 140 | | |
| | | phenanthrene | | | 3.2 | ug/g | 4 | 80 | 40 | 140 | | |
| | | anthracene | | | 3.2 | ug/g | 4 | 79 | 40 | 140 | | |
| | | fluoranthene | | | 3.1 | ug/g | 4 | 78 | 40 | 140 | | |
| | | pyrene | | | 3.4 | ug/g | 4 | 86 | 40 | 140 | | |
| | | benzo(a)anthracene | | | 3.3 | ug/g | 4 | 82 | 40 | 140 | | |
| | | chrysene | | | 3.0 | ug/g | 4 | 76 | 40 | 140 | | |
| | | benzo(b)fluoranthene | | | 4.5 | ug/g | 4 | 112 | 40 | 140 | | |
| | | benzo(k)fluoranthene | | | 3.2 | ug/g | 4 | 81 | 40 | 140 | | |
| | | benzo(a)pyrene | | | 3.5 | ug/g | 4 | 87 | 40 | 140 | | |
| | | indeno(1,2,3-cd)pyrene | | | 3.2 | ug/g | 4 | 80 | 40 | 140 | | |
| | | dibenzo(a,h)anthracene | | | 3.3 | ug/g | 4 | 82 | 40 | 140 | | |
| | | benzo(g,h,i)perylene | | | 3.3 | ug/g | 4 | 82 | 40 | 140 | | |
| | | 2-fluorobiphenyl SUR | | | 85 | % | | | 43 | 116 | | |
| | | o-terphenyl SUR | | | 86 | % | | | 33 | 141 | | |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3550B8270D | MS5555 | naphthalene | 25123-009 | | 3.4 | ug/g | 3.90 | 87 | 40 | 140 | | |
| | | 2-methylnaphthalene | 25123-009 | | 3.3 | ug/g | 3.90 | 84 | 40 | 140 | | |
| | | acenaphthylene | 25123-009 | | 3.3 | ug/g | 3.90 | 85 | 40 | 140 | | |
| | | acenaphthene | 25123-009 | | 3.4 | ug/g | 3.90 | 87 | 40 | 140 | | |
| | | dibenzofuran | 25123-009 | < | 0.49 | ug/g | | | | | | |
| | | fluorene | 25123-009 | | 3.4 | ug/g | 3.90 | 88 | 40 | 140 | | |
| | | phenanthrene | 25123-009 | | 3.2 | ug/g | 3.90 | 82 | 40 | 140 | | |
| | | anthracene | 25123-009 | | 3.1 | ug/g | 3.90 | 80 | 40 | 140 | | |
| | | fluoranthene | 25123-009 | | 3.4 | ug/g | 3.90 | 86 | 40 | 140 | | |
| | | pyrene | 25123-009 | | 3.3 | ug/g | 3.90 | 86 | 40 | 140 | | |
| | | benzo(a)anthracene | 25123-009 | | 3.3 | ug/g | 3.90 | 85 | 40 | 140 | | |
| | | chrysene | 25123-009 | | 3.2 | ug/g | 3.90 | 82 | 40 | 140 | | |
| | | benzo(b)fluoranthene | 25123-009 | | 5.0 | ug/g | 3.90 | 129 | 40 | 140 | | |
| | | benzo(k)fluoranthene | 25123-009 | | 3.7 | ug/g | 3.90 | 96 | 40 | 140 | | |
| | | benzo(a)pyrene | 25123-009 | | 4.0 | ug/g | 3.90 | 101 | 40 | 140 | | |
| | | indeno(1,2,3-cd)pyrene | 25123-009 | | 3.7 | ug/g | 3.90 | 94 | 40 | 140 | | |
| | | dibenzo(a,h)anthracene | 25123-009 | | 3.9 | ug/g | 3.90 | 99 | 40 | 140 | | |
| | | benzo(g,h,i)perylene | 25123-009 | | 4.0 | ug/g | 3.90 | 103 | 40 | 140 | | |
| | | 2-fluorobiphenyl SUR | 25123-009 | | 88 | % | | | 43 | 116 | | |
| | | o-terphenyl SUR | 25123-009 | | 90 | % | | | 33 | 141 | | |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3051A6010C | BLK5553 | Silver | | < | 0.25 | ug/g | | | | | | |
| | | Arsenic | | < | 0.50 | ug/g | | | | | | |
| | | Barium | | < | 2.5 | ug/g | | | | | | |
| | | Beryllium | | < | 0.20 | ug/g | | | | | | |
| | | Cadmium | | < | 0.20 | ug/g | | | | | | |
| | | Chromium | | < | 2.5 | ug/g | | | | | | |
| | | Copper | | < | 2.5 | ug/g | | | | | | |
| | | Nickel | | < | 2.5 | ug/g | | | | | | |
| | | Lead | | < | 0.50 | ug/g | | | | | | |
| | | Antimony | | < | 0.30 | ug/g | | | | | | |
| | | Selenium | | < | 2.5 | ug/g | | | | | | |
| | | Thallium | | < | 0.10 | ug/g | | | | | | |
| | | Zinc | | < | 2.5 | ug/g | | | | | | |
| SW3051A6010C | CRM5553 | Silver | | | 47 | ug/g | 38 | | 25.1 | 51.9 | | |
| | | Arsenic | | | 460 | ug/g | 400 | | 292 | 508 | | |
| | | Barium | | | 30 | ug/g | 25 | | 0 | 51.3 | | |
| | | Beryllium | | < | 0.42 | ug/g | | | | | | |
| | | Cadmium | | | 18 | ug/g | 15 | | 8.71 | 22 | | |
| | | Chromium | | | 19 | ug/g | 14 | | 2.45 | 24.7 | | |
| | | Copper | | | 860 | ug/g | 730 | | 592 | 866 | | |
| | | Nickel | | | 16 | ug/g | 17 | | 6.2 | 27.5 | | |
| | | Lead | | | 5300 | ug/g | 5100 | | 3753 | 6469 | | |
| | | Antimony | | | 11 | ug/g | 8.4 | | 0 | 21.4 | | |
| | | Selenium | | | 11 | ug/g | 6.6 | | 0 | 18.4 | | |
| | | Thallium | | | 7.2 | ug/g | 5.9 | | 0 | 13.6 | | |
| | | Zinc | | | 2800 | ug/g | 3000 | | 2447 | 3575 | | |
| SW3051A6010C | CRMD5553 | Silver | | | 48 | ug/g | 38 | | 25.1 | 51.9 | | 35 |
| SW3051A6010C | CRMD5553 | Arsenic | | | 470 | ug/g | 400 | | 292 | 508 | 3 | 35 |
| | | Barium | | | 33 | ug/g | 25 | | 0 | 51.3 | 11 | 35 |
| | | Beryllium | | < | 0.42 | ug/g | | | | | | 35 |
| | | Cadmium | | | 19 | ug/g | 15 | | 8.71 | 22 | 5 | 35 |
| | | Chromium | | | 19 | ug/g | 14 | | 2.45 | 24.7 | 0 | 35 |
| | | Copper | | | 850 | ug/g | 730 | | 592 | 866 | 1 | 35 |
| | | Nickel | | | 16 | ug/g | 17 | | 6.2 | 27.5 | 3 | 35 |
| | | Lead | | | 5500 | ug/g | 5100 | | 3753 | 6469 | 4 | 35 |
| | | Antimony | | | 12 | ug/g | 8.4 | | 0 | 21.4 | 11 | 35 |
| | | Selenium | | | 11 | ug/g | 6.6 | | 0 | 18.4 | 2 | 35 |
| | | Thallium | | | 6.6 | ug/g | 5.9 | | 0 | 13.6 | 9 | 35 |
| | | Zinc | | | 2800 | ug/g | 3000 | | 2447 | 3575 | 1 | 35 |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3051A6010C | DUP5553 | Silver | 25123-002 | < | 0.32 | ug/g | | | | | | | 35 |
| | | Arsenic | 25123-002 | | 13 | ug/g | | | | | | 5 | 35 |
| | | Beryllium | 25123-002 | | 0.87 | ug/g | | | | | | 14 | 35 |
| | | Cadmium | 25123-002 | < | 0.25 | ug/g | | | | | | | 35 |
| | | Chromium | 25123-002 | | 27 | ug/g | | | | | | 7 | 35 |
| | | Copper | 25123-002 | | 35 | ug/g | | | | | | 3 | 35 |
| | | Nickel | 25123-002 | | 20 | ug/g | | | | | | 10 | 35 |
| | | Lead | 25123-002 | | 210 | ug/g | | | | | | 3 | 35 |
| | | Antimony | 25123-002 | < | 0.38 | ug/g | | | | | | | 35 |
| | | Selenium | 25123-002 | < | 3.2 | ug/g | | | | | | | 35 |
| | | Thallium | 25123-002 | < | 0.13 | ug/g | | | | | | | 35 |
| | | Zinc | 25123-002 | | 83 | ug/g | | | | | | 5 | 35 |
| SW3051A6010C | MS5553 | Silver | 25123-002 | | 15 | ug/g | 15 | 93 | | 75 | 125 | | |
| | | Arsenic | 25123-002 | | 42 | ug/g | 31 | 88 | | 75 | 125 | | |
| | | Beryllium | 25123-002 | | 29 | ug/g | 31 | 89 | | 75 | 125 | | |
| | | Cadmium | 25123-002 | | 27 | ug/g | 31 | 86 | | 75 | 125 | | |
| | | Chromium | 25123-002 | | 58 | ug/g | 31 | 104 | | 75 | 125 | | |
| | | Copper | 25123-002 | | 73 | ug/g | 31 | 114 | | 75 | 125 | | |
| | | Nickel | 25123-002 | | 47 | ug/g | 31 | 92 | | 75 | 125 | | |
| | | Lead | 25123-002 | | 250 | ug/g | 31.7 | 152 | * | 75 | 125 | | |
| | | Antimony | 25123-002 | | 25 | ug/g | 31 | 77 | | 75 | 125 | | |
| | | Selenium | 25123-002 | | 27 | ug/g | 31 | 79 | | 75 | 125 | | |
| | | Thallium | 25123-002 | | 30 | ug/g | 31 | 95 | | 75 | 125 | | |
| | | Zinc | 25123-002 | | 110 | ug/g | 31.7 | 109 | | 75 | 125 | | |

Absolute Resource associates

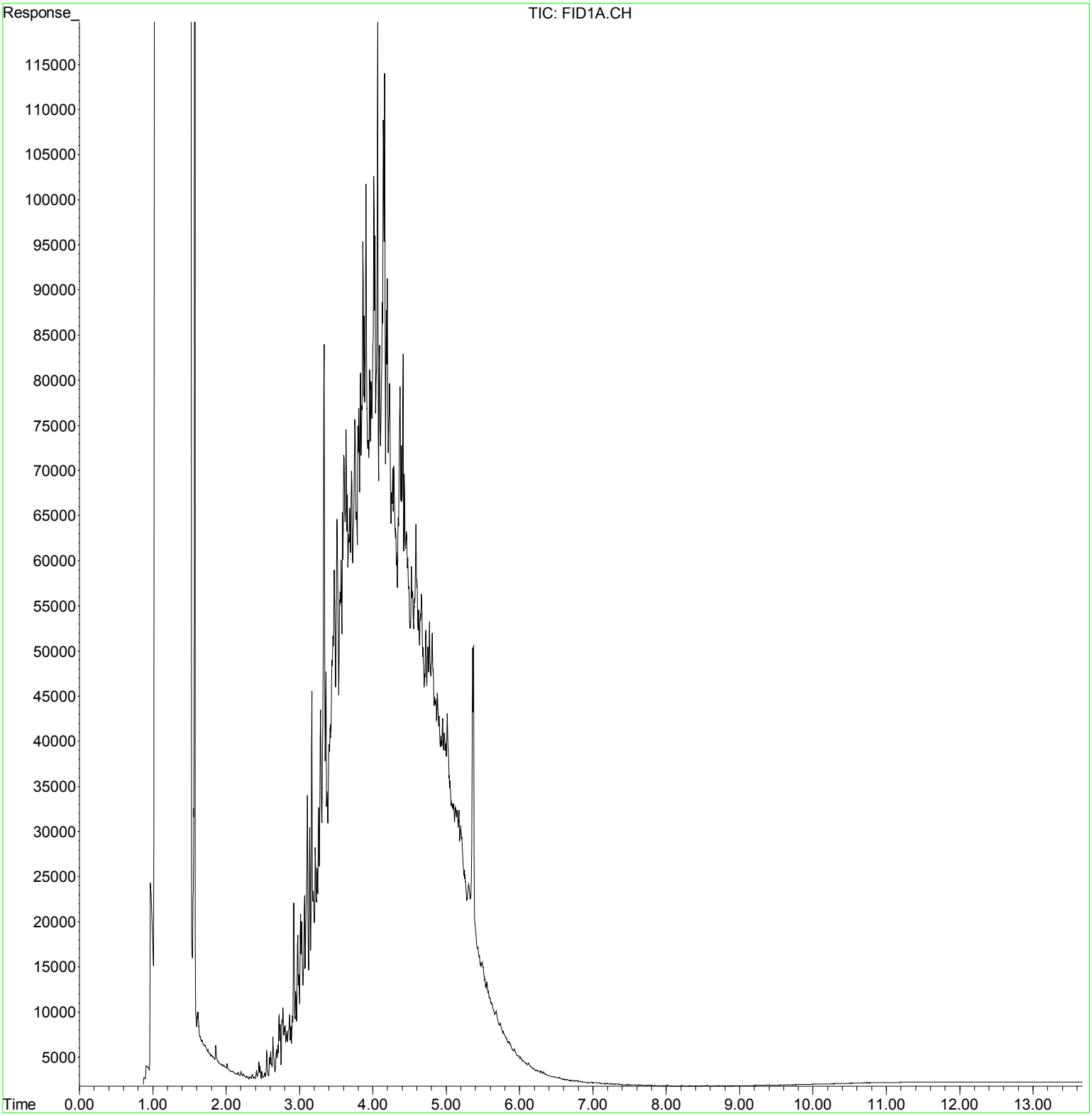
| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3051A6010C | BLK5571 | Silver | | < | 0.25 | ug/g | | | | | | | |
| | | Arsenic | | < | 0.50 | ug/g | | | | | | | |
| | | Beryllium | | < | 0.20 | ug/g | | | | | | | |
| | | Cadmium | | < | 0.20 | ug/g | | | | | | | |
| | | Chromium | | < | 2.5 | ug/g | | | | | | | |
| | | Copper | | < | 2.5 | ug/g | | | | | | | |
| | | Nickel | | < | 2.5 | ug/g | | | | | | | |
| | | Lead | | < | 0.50 | ug/g | | | | | | | |
| | | Antimony | | < | 0.30 | ug/g | | | | | | | |
| | | Selenium | | < | 2.5 | ug/g | | | | | | | |
| | | Thallium | | < | 0.10 | ug/g | | | | | | | |
| | | Zinc | | < | 2.5 | ug/g | | | | | | | |
| SW3051A6010C | CRM5571 | Silver | | | 45 | ug/g | 38 | | 25.1 | 51.9 | | | |
| | | Arsenic | | | 440 | ug/g | 400 | | 292 | 508 | | | |
| | | Barium | | | 26 | ug/g | 25 | | 0 | 51.3 | | | |
| | | Beryllium | | < | 0.42 | ug/g | | | | | | | |
| | | Cadmium | | | 20 | ug/g | 15 | | 8.71 | 22 | | | |
| | | Chromium | | | 17 | ug/g | 14 | | 2.45 | 24.7 | | | |
| | | Copper | | | 850 | ug/g | 730 | | 592 | 866 | | | |
| | | Nickel | | | 13 | ug/g | 17 | | 6.2 | 27.5 | | | |
| | | Lead | | | 5500 | ug/g | 5100 | | 3753 | 6469 | | | |
| | | Antimony | | | 10 | ug/g | 8.4 | | 0 | 21.4 | | | |
| | | Selenium | | | 5.8 | ug/g | 6.6 | | 0 | 18.4 | | | |
| | | Thallium | | | 4.2 | ug/g | 5.9 | | 0 | 13.6 | | | |
| | | Zinc | | | 2600 | ug/g | 3000 | | 2447 | 3575 | | | |
| SW3051A6010C | CRMD5571 | Silver | | | 44 | ug/g | 38 | | 25.1 | 51.9 | 1 | | 35 |
| | | Arsenic | | | 480 | ug/g | 400 | | 292 | 508 | 7 | | 35 |
| | | Barium | | | 25 | ug/g | 25 | | 0 | 51.3 | 7 | | 35 |
| | | Beryllium | | < | 0.42 | ug/g | | | | | | | 35 |
| | | Cadmium | | | 19 | ug/g | 15 | | 8.71 | 22 | 6 | | 35 |
| | | Chromium | | | 18 | ug/g | 14 | | 2.45 | 24.7 | 6 | | 35 |
| | | Copper | | | 900 | ug/g | 730 | | 592 | 866 | 5 | | 35 |
| | | Nickel | | | 16 | ug/g | 17 | | 6.2 | 27.5 | 23 | | 35 |
| | | Lead | | | 4700 | ug/g | 5100 | | 3753 | 6469 | 16 | | 35 |
| | | Antimony | | | 8.2 | ug/g | 8.4 | | 0 | 21.4 | 24 | | 35 |
| | | Selenium | | | 5.8 | ug/g | 6.6 | | 0 | 18.4 | 0 | | 35 |
| | | Thallium | | | 1.6 | ug/g | 5.9 | | 0 | 13.6 | 90 | * | 35 |
| | | Zinc | | | 2700 | ug/g | 3000 | | 2447 | 3575 | 6 | | 35 |
| SW3051A6010C | DUP5571 | Silver | 25123-016 | < | 0.35 | ug/g | | | | | | | 35 |
| | | Arsenic | 25123-016 | | 2.5 | ug/g | | | | | 24 | | 35 |
| | | Barium | 25123-016 | | 18 | ug/g | | | | | 19 | | 35 |
| | | Cadmium | 25123-016 | < | 0.28 | ug/g | | | | | | | 35 |
| | | Chromium | 25123-016 | | 8.9 | ug/g | | | | | 23 | | 35 |
| | | Lead | 25123-016 | | 4.3 | ug/g | | | | | 20 | | 35 |
| | | Selenium | 25123-016 | < | 3.5 | ug/g | | | | | | | 35 |

Absolute Resource associates

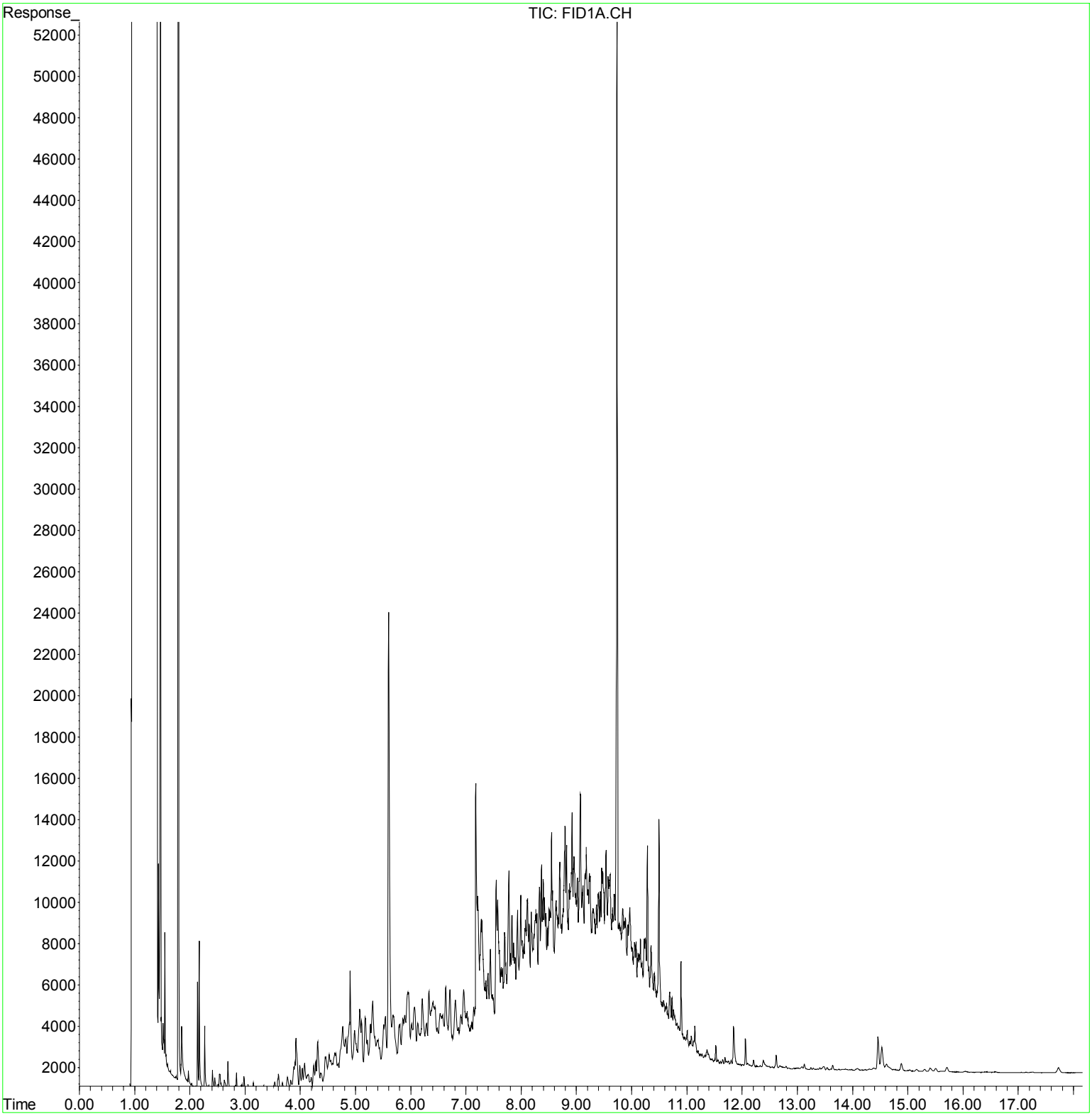
| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3051A6010C | MS5571 | Silver | 25123-016 | | 15 | ug/g | 17 | 86 | 75 | 125 | | |
| | | Arsenic | 25123-016 | | 35 | ug/g | 34 | 92 | 75 | 125 | | |
| | | Barium | 25123-016 | | 56 | ug/g | 34 | 98 | 75 | 125 | | |
| | | Cadmium | 25123-016 | | 33 | ug/g | 34 | 93 | 75 | 125 | | |
| | | Chromium | 25123-016 | | 44 | ug/g | 34 | 94 | 75 | 125 | | |
| | | Lead | 25123-016 | | 35 | ug/g | 34 | 86 | 75 | 125 | | |
| | | Selenium | 25123-016 | | 31 | ug/g | 34 | 85 | 75 | 125 | | |
| SW7471B | BLK5564 | Mercury | | < | 0.02 | ug/g | | | | | | |
| SW7471B | CRM5564 | Mercury | | | 2.5 | ug/g | 2.2 | | 0.98 | 3.52 | | |
| SW7471B | CRMD5564 | Mercury | | | 1.2 | ug/g | 1.1 | | 0.49 | 1.76 | | 35 |
| SW7471B | DUP5564 | Mercury | 25094-001 | < | 0.19 | ug/g | | | | | | 35 |
| SW7471B | MS5564 | Mercury | 25094-001 | | 0.48 | ug/g | 0.417 | 110 | 75 | 125 | | |
| SW7471B | MS5564 | Mercury | 25123-010 | | 0.76 | ug/g | 0.382 | 129 | 75 | 125 | | |
| SW7471B | BLK5565 | Mercury | | < | 0.02 | ug/g | | | | | | |
| SW7471B | CRM5565 | Mercury | | | 1.3 | ug/g | 1.1 | | 0.49 | 1.76 | | |
| SW7471B | CRMD5565 | Mercury | | | 1.5 | ug/g | 1.1 | | 0.49 | 1.76 | 12 | 35 |
| SW7471B | DUP5565 | Mercury | 25123-024 | | 2.4 | ug/g | | | | | | 35 |
| SW7471B | MS5565 | Mercury | 25123-024 | | 4.7 | ug/g | 0.39 | 1104 | 75 | 125 | | |

Absolute Resource associates

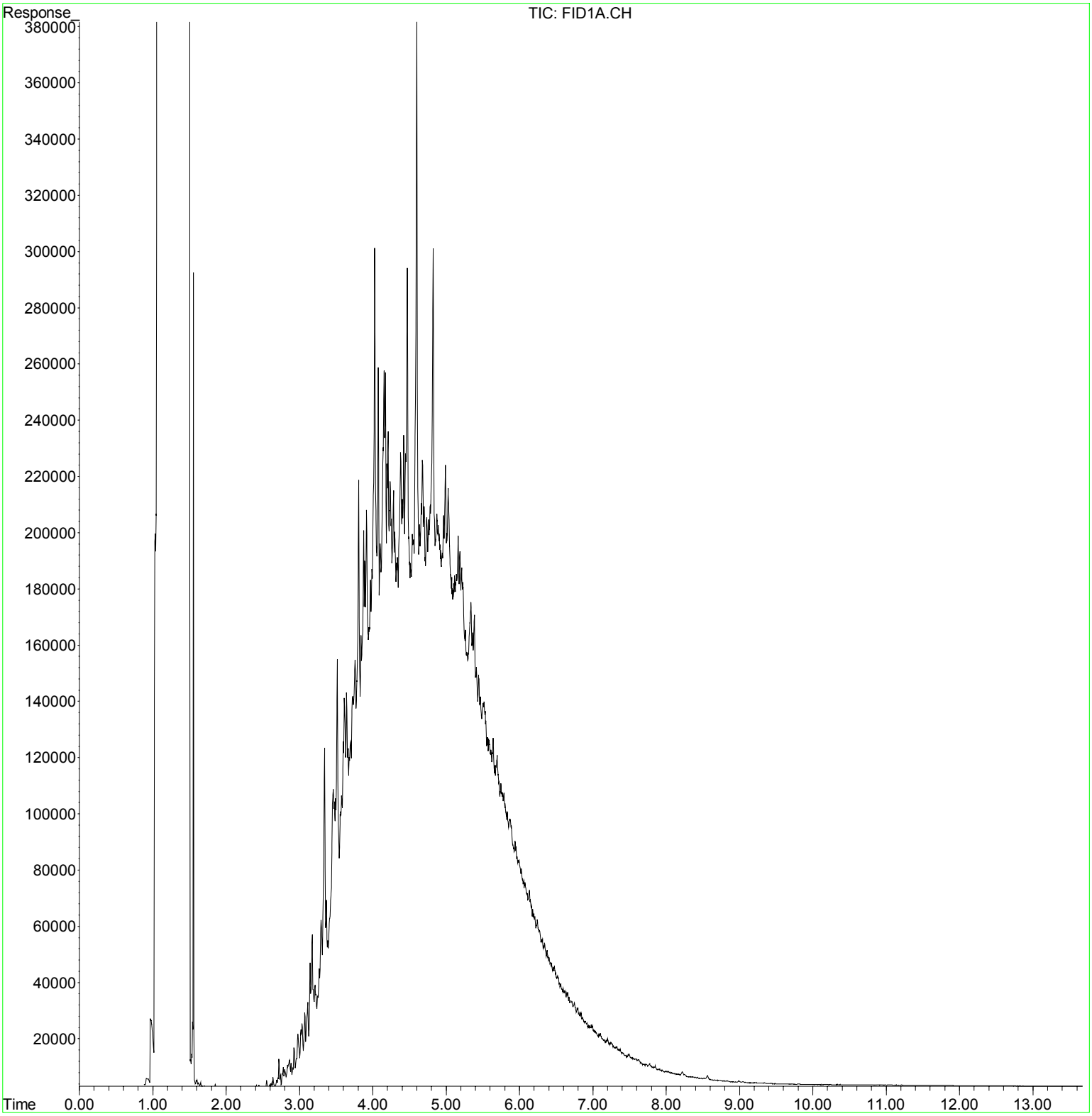
File : X:\SVOA01\2012\OCT12\100912\S1100938.D
Operator : jlz
Acquired : 10 Oct 2012 12:06 am using AcqMethod S1ZIPALI.M
Instrument : SVOA01
Sample Name: 25123-15 ali x1
Misc Info : Field ID: CA-SB-12 15-18 [Aliphatic portion]
Vial Number: 38



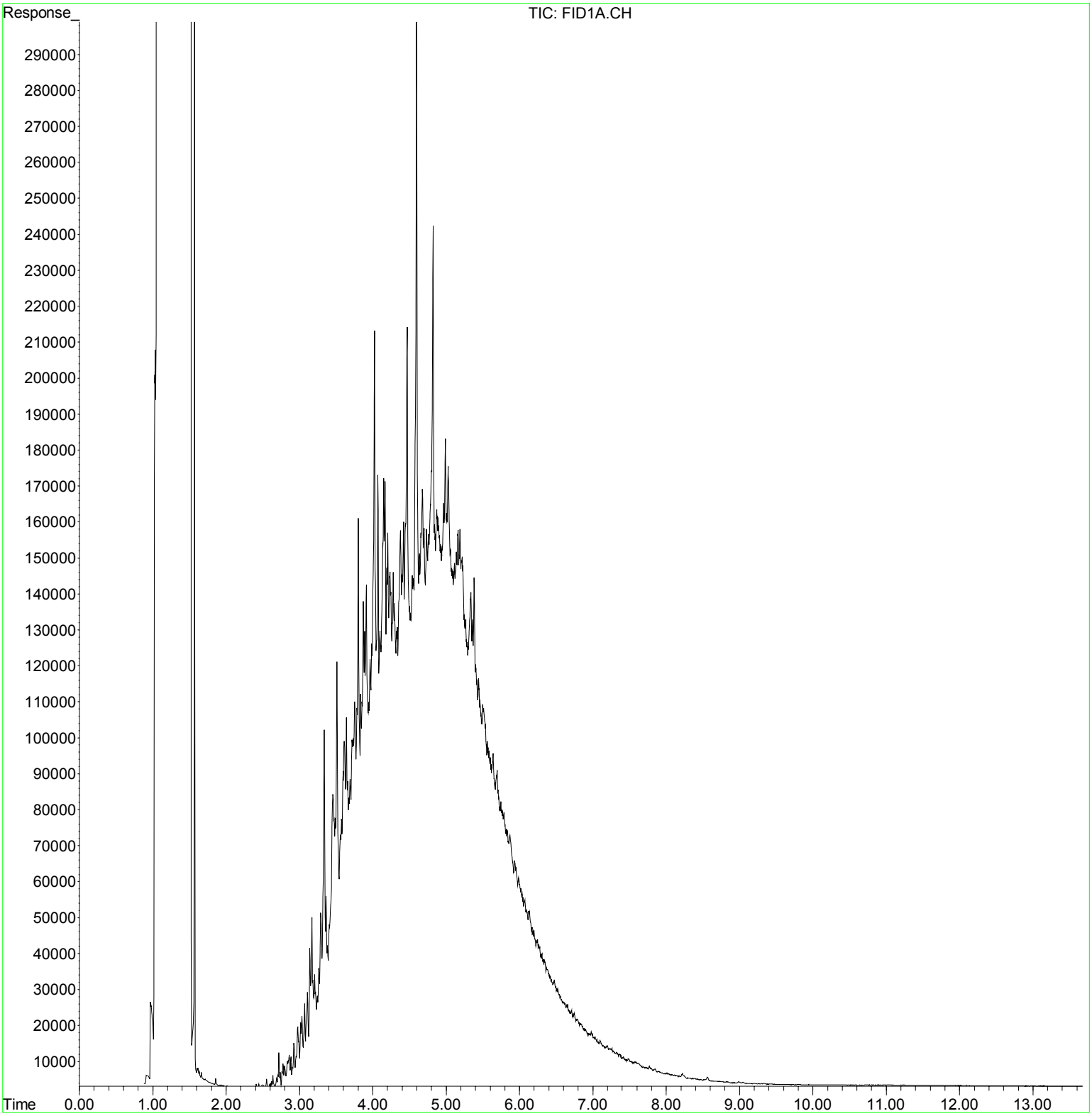
File : X:\SVOA01\2012\OCT12\101412\S1101421.D
Operator : jlz
Acquired : 14 Oct 2012 10:28 pm using AcqMethod S1ZIPARO.M
Instrument : SVOA01
Sample Name: 25123-15 aro x1
Misc Info : Field ID: CA-SB-12 15-18 [Aromatic portion]
Vial Number: 21



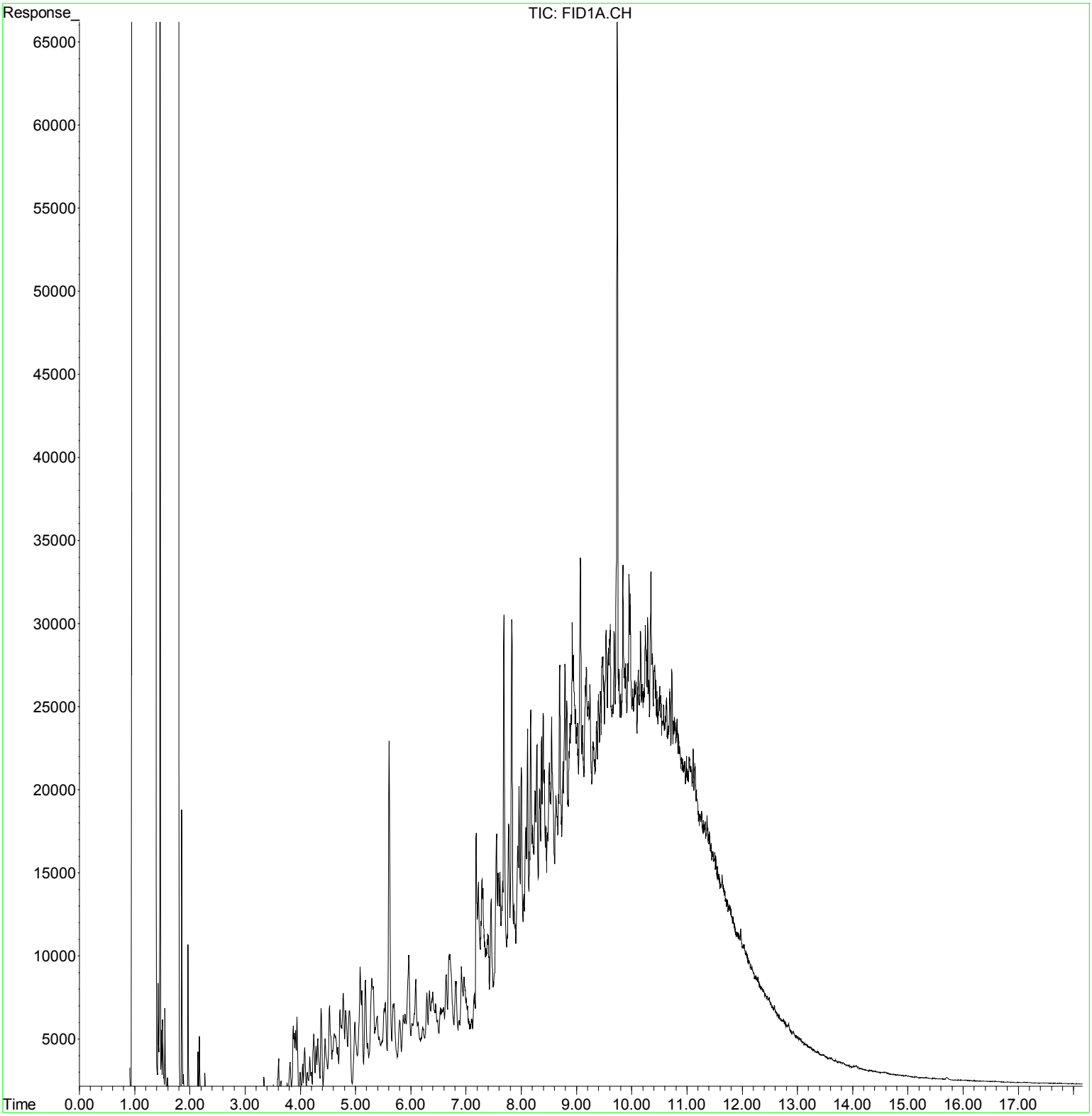
File : X:\SVOA01\2012\OCT12\100912\S1100941.D
Operator : jlz
Acquired : 10 Oct 2012 1:00 am using AcqMethod S1ZIPALI.M
Instrument : SVOA01
Sample Name: 25123-16 ali x1
Misc Info : Field ID: CA-SB-13 10-12 [Aliphatic portion]
Vial Number: 41



File : X:\SVOA01\2012\OCT12\100912\S1100942.D
Operator : jlz
Acquired : 10 Oct 2012 1:19 am using AcqMethod S1ZIPALI.M
Instrument : SVOA01
Sample Name: 25123-17 ali x1
Misc Info : Field ID: SB-DUP-1 [Aliphatic portion]
Vial Number: 42



File : X:\SVOA01\2012\OCT12\101412\S1101423.D
Operator : jlz
Acquired : 14 Oct 2012 11:13 pm using AcqMethod S1ZIPARO.M
Instrument : SVOA01
Sample Name: 25123-17 aro x1
Misc Info : Field ID: SB-DUP-1 [Aromatic portion]
Vial Number: 23



Absolute Resource associates

124 Heritage Avenue #10
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

# CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

25123

Company Name: CREDERE ASSOCIATES

Company Address: 776 MAIN ST WESTBROOK ME 04092

Report To: JUDD NEWCOMB

Phone #: 207 232-5387

Invoice To: Same

Project Name: MERC

Project #: 12001150

Project Location: NH MA (ME) VT ____ Other

Protocol: (RCRA) MCP SDWA NHDES NPDES OTHER

Reporting Limits: QAPP EPA DW GW-1 Other ____ S-1

Quote # CREDERE ☐ NH GREE/ODD Fund Pricing

PO # 12001150

## ANALYSIS REQUEST

| Lab Sample ID (Lab Use Only) | Field ID | # CONTAINERS | Matrix: WATER | Matrix: SOLID | Matrix: OTHER | Preservation Method: HCl | $HNO_3$ | $H_2SO_4$ | NaOH | MeOH | OTHER (Specify) | Sampling: DATE | TIME | SAMPLER | VOC 8260 ☐ VOC 8260 MADEP | VOC 8260 NHDES ☐ VOC 8260 MADEP | VOC 624 ☐ VOC BTEX ☐ MtBE, only ☐ VOC 8021VT | VPH MADEP ☐ MEGRO ☐ GRO 8015 | VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List: | TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint | 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB 504.1 | 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB 3540 Ext | O&G 1664 ☐ Mineral O&G SM5520F | pH ☐ BOD ☐ Conductivity ☐ Turbidity | TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity | RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals | Total Metals-list: Pb | Dissolved Metals-list: | Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ TOC | T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN | Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P | Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride | Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP | TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide | Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde | RCRA 8 Metals | VPH/EPH TARGET RANGES ONLY | PAH 8270 | Grab (G) or Composite (C) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25123-01 | CA-SB-1 2.5-5 | 2 | | X | | | | | | X | 4°C | 10/2/12 | 1530 | JN | | | | X | | | | | | | | | X | | | | | | | | | | G |
| -02 | CA-SB-2 0-1 | 1 | | | | | | | | | | 10/2/12 | 1500 | | | | | | | X | | | | | | X | | | | | | | | | | | |
| -03 | CA-SB-3 10-12.5 | 1 | | | | | | | | | | 10/2/12 | 1310 | | | | | | | X | | X | | | | | | | | | | | X | | | |
| -04 | CA-SB-4 0-2 | 2 | | | | | | | | X | | 10/2/12 | 1150 | | X | | | | | | X | | | | | X | | | | | | | | X | | |
| -05 | CA-SB-5 5-10 | 2 | | | | | | | | X | | 10/3/12 | 1330 | | X | | | | | | X | X | | | | | | | | | | | X | | | |
| -06 | CA-SB-6 0-5 | 1 | | | | | | | | | | 10/3/12 | 900 | | | | | | | | | X | | | | X | | | | | | | | | X | |
| -07 | CA-SB-6 12.5-15 | 2 | | | | | | | | X | | 10/3/12 | 850 | | X | | | | | | X | X | | | | X | | | | | | | | X | | |
| -08 | CA-SB-7 7.5-10 | 2 | | | | | | | | X | | 10/2/12 | 1615 | | X | | | | | | X | X | | | | X | | | | | | | | X | | |
| -09 | CA-SB-8 0-2.5 | 1 | | | | | | | | | | 10/3/12 | 850 | | | | | | | | | X | | | | X | | | | | | | | | X | |
| -10 | CA-SB-8 5-10 | 1 | | | | | | | | | | 10/3/12 | 1000 | | | | | | | | | X | | | | X | | | | | | | | | X | |
| -11 | CA-SB-9 0-4 | 1 | | | | | | | | | | | 1210 | | | | | | | | | X | | | | | | | | | | | | | | |

**TAT REQUESTED**

Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☐
*Date Needed 10/12/12

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS ☒ PDF (e-mail address) JNEWCOMB@CREDERELLC.COM
☐ HARD COPY REQUIRED ☐ FAX (FAX#) ____ ☐ OTHER (specify) ____

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 0 °C

**CUSTODY RECORD**

QSD-01 Revision 10/6/11

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Sampler | 10/3/12 | 1615 | CREDERE COLD STORAGE | 10/3/12 | 1615 |
| CREDERE COLD STORAGE | 10/4/12 | 1130 | [illegible] | 10/4/12 | 1130 |
| | | | Received by Laboratory: [illegible] Way Bill#: | | |

Absolute Resource associates

124 Heritage Avenue #10
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

# CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

25123

Company Name: CREDERE ASSOCIATES

Company Address: 716 MAIN ST WESTBROOK ME 04092

Report To: JUDD NEWCOMB

Phone #: 207-232-5387

Invoice To: Same

Project Name: MERL

Project #: 12001150

Project Location: NH MA (ME) VT ___ Other

Protocol: RCRA MCP SDWA NHDES NPDES OTHER

Reporting Limits: QAPP EPA DW GW-1 Other ___ S-1

Quote # CREDERE ☐ NH GREE/ODD Fund Pricing

PO # 12001150

## ANALYSIS REQUEST

| Lab Sample ID (Lab Use Only) | Field ID | # CONTAINERS | Matrix: WATER | Matrix: SOLID | Matrix: OTHER | Preservation: HCl | Preservation: $HNO_3$ | Preservation: $H_2SO_4$ | Preservation: NaOH | Preservation: MeOH | Preservation: OTHER (Specify) | Sampling: DATE | Sampling: TIME | Sampling: SAMPLER | ☒ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP | ☐ VOC 624 ☐ VOC BTEX ☐ MBE, only ☐ VOC 8021VT | ☐ VPH MADEP ☐ MEGRO ☐ GRO 8015 | ☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List: | ☐ TPH ☐ DRO 8015 ☐ MEDRO ☒ EPH MADEP ☐ TPH Fingerprint | ☐ 8270PAH ☒ 8270ABN ☐ 625 ☐ EDB 504.1 | ☒ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB 3540 EXT | ☐ O&G 1664 ☐ Mineral O&G SM5520F | ☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity | ☐ TSS ☐ TDS ☐ TVS ☐ Alkalinity | ☐ RCRA Metals ☒ Priority Pollutant Metals ☐ TAL Metals | ☐ Total Metals-list: | ☐ Dissolved Metals-list: | ☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ TOC | ☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN | ☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P | ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride | ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP | ☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide | Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde | RCRA 8 Metals | VPH/EPH TARGET RANGES ONLY | PAH 8270 | Grab (G) or Composite (C) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25123-12 | CA-SB-10 10-15 | 2 | | X | | | | | | | 4°C | 10/3/12 | 1230 | JN | X | | | | | X | X | | | | | | | | | | | | | X | | | G |
| -13 | CA-SB-11 10-15 | 3 | | | | | | | | X | | 10/3/12 | 830 | | X | | | | | X | X | | | | X | | | | | | | | | | X | | |
| -14 | SB-DUP-2 | 3 | | | | | | | | X | | 10/3/12 | — | | X | | | | | X | | | | | | | | | | | | | | | X | | |
| -15 | CA-SB-12 15-18 | 1 | | | | | | | | | | 10/2/12 | 845 | | | | | | X | | X | | | | | | | | | | | | | X | | | |
| -16 | CA-SB-13 10-12 | 1 | | | | | | | | | | 10/2/12 | 910 | | | | | | X | | X | | | | | | | | | | | | | X | | | |
| -17 | SB-DUP-1 | 1 | | | | | | | | | | 10/2/12 | — | | | | | | X | | X | | | | | | | | | | | | | X | | | |
| -18 | CA-SB-14 0-3 | 2 | | | | | | | | | | 10/2/12 | 1015 | | | | X | | X | | | | | | | | | | | | | | | | | | |
| -19 | CA-SB-15 5-5.5 | 2 | | | | | | | | | | 10/2/12 | 1000 | | | | X | | X | | | | | | | | | | | | | | | | | | |
| -20 | CA-SS-1 | 1 | | | | | | | | | | 10/3/12 | 1120 | | | | | | | | X | | | | X | | | | | | | | | | | X | |
| -21 | CA-SS-2 | 1 | | | | | | | | | | 10/3/12 | 1210 | | | | | | | | X | | | | X | | | | | | | | | | | X | |
| -22 | CA-SS-3 | 1 | | | | | | | | | | 10/3/12 | 1215 | | | | | | | | X | | | | X | | | | | | | | | | | X | |

**TAT REQUESTED**

Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☐
*Date Needed 10/12/12

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS ☒ PDF (e-mail address) JNewcomb@CREDEREllc.com
☐ HARD COPY REQUIRED ☐ FAX (FAX#) ___ ☐ OTHER (specify) ___

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 0 °C

**CUSTODY RECORD**

QSD-01 Revision 10/6/11

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Sampler | 10/3/12 | 1615 | CREDERE COLD STORAGE | 10/3/12 | 1615 |
| CREDERE COLD STORAGE | 10/4/12 | 1130 | [signature] | 10/4/12 | 1130 |
| | | | Received by Laboratory: Way Bill#: | | |

Absolute Resource associates

124 Heritage Avenue #10
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

# CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

25123

Company Name: CREDERE ASSOCIATES

Company Address: 776 MAIN ST WESTBROOK ME 04092

Report To: JUDD NEWCOMB

Phone #: 207-232-5387

Invoice To: Same

Project Name: MERC

Project #: 12001150

Project Location: NH MA (ME) VT ___ Other

Protocol: ~~RCRA~~ MCP SDWA NHDES NPDES OTHER

Reporting Limits: QAPP EPA DW GW-1 Other ___ S-1

Quote # CREDERE ☐ NH GREE/ODD Fund Pricing

PO # 12001150

## ANALYSIS REQUEST

| Lab Sample ID (Lab Use Only) | Field ID | # CONTAINERS | Matrix: WATER | Matrix: SOLID | Matrix: OTHER | Preservation Method: HCl | $HNO_3$ | $H_2SO_4$ | NaOH | MeOH | OTHER (Specify) | Sampling: DATE | TIME | SAMPLER | ☒ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP | ☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only ☐ VOC 8021VT | ☐ VPH MADEP ☐ MEGRO ☐ GRO 8015 | ☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List: | ☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint | ☒ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB 504.1 | ☒ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB 3540 Ext | ☐ O&G 1664 ☐ Mineral O&G SM5520F | ☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity | ☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity | ☒ RCRA Metals ☒ Priority Pollutant Metals ☐ TAL Metals | ☐ Total Metals-list: | ☐ Dissolved Metals-list: | ☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ TOC | ☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN | ☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P | ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride | ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP | ☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide | Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde | Grab (G) or Composite (C) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25123-23 | CA-SS-4 | 1 | | X | | | | | | | 4oc | 10/3/12 | 1245 | JN | | | | | | | X | | | | X | | | | | | | | G |
| -24 | CA-SS-5 | 1 | | | | | | | | | | 10/3/12 | 1300 | JN | | | | | | | X | | | | X | | | | | | | | |
| -25 | CA-CC-1 | 2 | | | | | | | | X | | 10/3/12 | 930 | JO | X | | | | | X | X | | | | X | | | | | | | | |
| -26 | CA-CC-2 | 2 | | | | | | | | X | | 10/3/12 | 958 | JO | X | | | | | X | X | | | | X | | | | | | | | |
| -27 | CA-CC-3 | 2 | | | | | | | | X | | 10/3/12 | 1040 | JO | X | | | | | X | X | | | | X | | | | | | | | |
| -28 | CA-CC-4 | 1 | | | | | | | | | | 10/3/12 | 1125 | JO | | | | | | | X | | | | X | | | | | | | | |
| -29 | CA-CC-5 | 1 | | | | | | | | | | 10/3/12 | 1148 | JO | | | | | | | X | | | | X | | | | | | | | |
| -30 | STACK | 1 | | | | | | | | | | 10/3/12 | 1450 | JN | | | | | | | X | | | | X | | | | | | | | |
| -31 | TRIP BLANK | 1 | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | |

**TAT REQUESTED**

Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☐
*Date Needed 10/12/12

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS ☒ PDF (e-mail address) JNEWCOMB@CREDERELLC.COM
☐ HARD COPY REQUIRED ☐ FAX (FAX#) ___ ☐ OTHER (specify) ___

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 0 °C

**CUSTODY RECORD**
QSD-01 Revision 10/6/11

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Sampler | 10/3/12 | 1615 | CREDERE COLD STORAGE | 10/3/12 | 1615 |
| CREDERE COLD STORAGE | 10/4/12 | 1130 | | 10/4/12 | 1130 |
| Relinquished by: | Date | Time | Received by Laboratory: Way Bill#: | Date | Time |

# Laboratory Report

Absolute Resource associates
124 Heritage Avenue Portsmouth NH 03801

Judd Newcomb
CREDERE Associates
776 Main Street
Westbrook, ME 04092

PO Number: None
Job ID: 25149
Date Received: 10/10/12

Project: MERC 12001151

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

Cliff Chase
Partner, Technical Director

Date of Approval: 10/23/2012
Total number of pages: 62

**Absolute Resource Associates Certifications**

| | | | |
|---|---|---|---|
| New Hampshire | 1732 | Massachusetts | M-NH902 |
| Maine | NH903 | | |

**Project ID:** MERC 12001151
**Lab ID:** 25149

# Sample Association Table

| Field ID | Matrix | Date-Time Sampled | Lab# | Analysis |
|---|---|---|---|---|
| CA-MW-3 | Water | 10/9/2012 15:20 | 25149-001 | |
| | | | | EPH in water by MADEP Method |
| | | | | Water Digestion for ICP Analysis |
| | | | | Silver in water by 6010 |
| | | | | Arsenic in water by 6010 |
| | | | | Barium in water by 6010 |
| | | | | Cadmium in water by 6010 |
| | | | | Chromium in water by 6010 |
| | | | | Mercury in water by 7470 |
| | | | | Lead in water by 6010 |
| | | | | Selenium in water by 6010 |
| CA-MW-6 | Water | 10/9/2012 13:20 | 25149-002 | |
| | | | | Acid & Base/Neutral Extractables in water by 8270 |
| | | | | EPH in water by MADEP Method |
| | | | | Water Digestion for ICP Analysis |
| | | | | Silver in water by 6010 |
| | | | | Arsenic in water by 6010 |
| | | | | Beryllium in water by 6010 |
| | | | | Cadmium in water by 6010 |
| | | | | Chromium in water by 6010 |
| | | | | Copper in water by 6010 |
| | | | | Mercury in water by 7470 |
| | | | | Nickel in water by 6010 |
| | | | | Lead in water by 6010 |
| | | | | Antimony in water by 6010 |
| | | | | Selenium in water by 6010 |
| | | | | Thallium in water by 6010 |
| | | | | Zinc in water by 6010 |
| | | | | VOCs in water by 8260 |
| | | | | VPH in water by MA DEP Method |
| CA-MW-7 | Water | 10/9/2012 14:15 | 25149-003 | |
| | | | | Acid & Base/Neutral Extractables in water by 8270 |
| | | | | EPH in water by MADEP Method |
| | | | | Water Digestion for ICP Analysis |
| | | | | Silver in water by 6010 |
| | | | | Arsenic in water by 6010 |
| | | | | Beryllium in water by 6010 |
| | | | | Cadmium in water by 6010 |
| | | | | Chromium in water by 6010 |
| | | | | Copper in water by 6010 |
| | | | | Mercury in water by 7470 |
| | | | | Nickel in water by 6010 |
| | | | | Lead in water by 6010 |
| | | | | Antimony in water by 6010 |
| | | | | Selenium in water by 6010 |
| | | | | Thallium in water by 6010 |
| | | | | Zinc in water by 6010 |
| | | | | VOCs in water by 8260 |
| | | | | VPH in water by MA DEP Method |
| CA-MW-8 | Water | 10/9/2012 12:12 | 25149-004 | |
| | | | | PAHs in water by 8270 |
| | | | | Water Digestion for ICP Analysis |

**Project ID:** MERC 12001151
**Lab ID:** 25149

# Sample Association Table

| Field ID | Matrix | Date-Time Sampled | Lab# | Analysis |
|---|---|---|---|---|
| CA-MW-8 | Water | 10/9/2012 12:12 | 25149-004 | |
| | | | | Silver in water by 6010 |
| | | | | Arsenic in water by 6010 |
| | | | | Beryllium in water by 6010 |
| | | | | Cadmium in water by 6010 |
| | | | | Chromium in water by 6010 |
| | | | | Copper in water by 6010 |
| | | | | Mercury in water by 7470 |
| | | | | Nickel in water by 6010 |
| | | | | Lead in water by 6010 |
| | | | | Antimony in water by 6010 |
| | | | | Selenium in water by 6010 |
| | | | | Thallium in water by 6010 |
| | | | | Zinc in water by 6010 |
| CA-MW-9 | Water | 10/9/2012 10:53 | 25149-005 | |
| | | | | Acid & Base/Neutral Extractables in water by 8270 |
| | | | | Water Digestion for ICP Analysis |
| | | | | Silver in water by 6010 |
| | | | | Arsenic in water by 6010 |
| | | | | Beryllium in water by 6010 |
| | | | | Cadmium in water by 6010 |
| | | | | Chromium in water by 6010 |
| | | | | Copper in water by 6010 |
| | | | | Mercury in water by 7470 |
| | | | | Nickel in water by 6010 |
| | | | | Lead in water by 6010 |
| | | | | Antimony in water by 6010 |
| | | | | Selenium in water by 6010 |
| | | | | Thallium in water by 6010 |
| | | | | Zinc in water by 6010 |
| | | | | VOCs in water by 8260 |
| CA-MW-10 | Water | 10/9/2012 9:42 | 25149-006 | |
| | | | | Acid & Base/Neutral Extractables in water by 8270 |
| | | | | Water Digestion for ICP Analysis |
| | | | | Silver in water by 6010 |
| | | | | Arsenic in water by 6010 |
| | | | | Barium in water by 6010 |
| | | | | Cadmium in water by 6010 |
| | | | | Chromium in water by 6010 |
| | | | | Mercury in water by 7470 |
| | | | | Lead in water by 6010 |
| | | | | Selenium in water by 6010 |
| | | | | VOCs in water by 8260 |
| CA-MW-DUP-1 | Water | 10/9/2012 0:00 | 25149-007 | |
| | | | | Acid & Base/Neutral Extractables in water by 8270 |
| | | | | EPH in water by MADEP Method |
| | | | | Water Digestion for ICP Analysis |
| | | | | Silver in water by 6010 |
| | | | | Arsenic in water by 6010 |
| | | | | Beryllium in water by 6010 |
| | | | | Cadmium in water by 6010 |
| | | | | Chromium in water by 6010 |

**Project ID:** MERC 12001151
**Lab ID:** 25149

# Sample Association Table

| Field ID | Matrix | Date-Time Sampled | Lab# | Analysis |
|---|---|---|---|---|
| CA-MW-DUP-1 | Water | 10/9/2012 0:00 | 25149-007 | |
| | | | | Copper in water by 6010 |
| | | | | Mercury in water by 7470 |
| | | | | Nickel in water by 6010 |
| | | | | Lead in water by 6010 |
| | | | | Antimony in water by 6010 |
| | | | | Selenium in water by 6010 |
| | | | | Thallium in water by 6010 |
| | | | | Zinc in water by 6010 |
| | | | | VOCs in water by 8260 |
| | | | | VPH in water by MA DEP Method |
| Trip Blank | Water | 10/9/2012 0:00 | 25149-008 | |
| | | | | VOCs in water by 8260 |
| Trip Blank | Water | 10/9/2012 0:00 | 25149-009 | |
| | | | | VPH in water by MA DEP Method |

Absolute Resource associates

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-002
**Sample ID:** CA-MW-6
**Matrix:** Water
**Sampled:** 10/9/12 13:20

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| chloromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| vinyl chloride | **2** | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| bromomethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| chloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| trichlorofluoromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| diethyl ether | < 5 | 5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| acetone | < 50 | 50 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 1,1-dichloroethene | < 1 | 1 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| methylene chloride | < 5 | 5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| carbon disulfide | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| methyl t-butyl ether (MTBE) | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| trans-1,2-dichloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 1,1-dichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 2-butanone (MEK) | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 2,2-dichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| cis-1,2-dichloroethene | **2** | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| chloroform | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| bromochloromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| tetrahydrofuran (THF) | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 1,1,1-trichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 1,1-dichloropropene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| carbon tetrachloride | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 1,2-dichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| benzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| trichloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 1,2-dichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| bromodichloromethane | < 1 | 1 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| dibromomethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 4-methyl-2-pentanone (MIBK) | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| cis-1,3-dichloropropene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| toluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| trans-1,3-dichloropropene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 2-hexanone | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 1,1,2-trichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 1,3-dichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| tetrachloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| dibromochloromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 1,2-dibromoethane (EDB) | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| chlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 1,1,1,2-tetrachloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| ethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| m&p-xylenes | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |

Absolute Resource associates

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-002
**Sample ID:** CA-MW-6
**Matrix:** Water
**Sampled:** 10/9/12 13:20

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| o-xylene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| styrene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| bromoform | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| isopropylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 1,1,2,2-tetrachloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 1,2,3-trichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| n-propylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| bromobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 1,3,5-trimethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 2-chlorotoluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 4-chlorotoluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| tert-butylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 1,2,4-trimethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| sec-butylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 1,3-dichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 4-isopropyltoluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 1,4-dichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 1,2-dichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| n-butylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 1,2-dibromo-3-chloropropane (DBCP) | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 1,2,4-trichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| hexachlorobutadiene | < 0.5 | 0.5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| naphthalene | < 5 | 5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 1,2,3-trichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **100** | 78-114 | % | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| toluene-D8 SUR | **101** | 88-110 | % | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |
| 4-bromofluorobenzene SUR | **100** | 86-115 | % | 1 | LMM | | 1202467 | 10/15/12 | 17:57 | SW5030B8260B |

Absolute Resource associates

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-003
**Sample ID:** CA-MW-7
**Matrix:** Water
**Sampled:** 10/9/12 14:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| chloromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| vinyl chloride | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| bromomethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| chloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| trichlorofluoromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| diethyl ether | < 5 | 5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| acetone | < 50 | 50 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 1,1-dichloroethene | < 1 | 1 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| methylene chloride | < 5 | 5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| carbon disulfide | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| methyl t-butyl ether (MTBE) | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| trans-1,2-dichloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 1,1-dichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 2-butanone (MEK) | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 2,2-dichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| cis-1,2-dichloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| chloroform | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| bromochloromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| tetrahydrofuran (THF) | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 1,1,1-trichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 1,1-dichloropropene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| carbon tetrachloride | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 1,2-dichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| benzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| trichloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 1,2-dichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| bromodichloromethane | < 1 | 1 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| dibromomethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 4-methyl-2-pentanone (MIBK) | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| cis-1,3-dichloropropene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| toluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| trans-1,3-dichloropropene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 2-hexanone | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 1,1,2-trichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 1,3-dichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| tetrachloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| dibromochloromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 1,2-dibromoethane (EDB) | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| chlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 1,1,1,2-tetrachloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| ethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| m&p-xylenes | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-003
**Sample ID:** CA-MW-7
**Matrix:** Water
**Sampled:** 10/9/12 14:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| o-xylene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| styrene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| bromoform | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| isopropylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 1,1,2,2-tetrachloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 1,2,3-trichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| n-propylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| bromobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 1,3,5-trimethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 2-chlorotoluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 4-chlorotoluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| tert-butylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 1,2,4-trimethylbenzene | **2** | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| sec-butylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 1,3-dichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 4-isopropyltoluene | **14** | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 1,4-dichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 1,2-dichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| n-butylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 1,2-dibromo-3-chloropropane (DBCP) | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 1,2,4-trichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| hexachlorobutadiene | < 0.5 | 0.5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| naphthalene | < 5 | 5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 1,2,3-trichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **103** | 78-114 | % | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| toluene-D8 SUR | **103** | 88-110 | % | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |
| 4-bromofluorobenzene SUR | **100** | 86-115 | % | 1 | LMM | | 1202467 | 10/15/12 | 18:29 | SW5030B8260B |

Absolute Resource associates

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-005
**Sample ID:** CA-MW-9
**Matrix:** Water
**Sampled:** 10/9/12 10:53

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| chloromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| vinyl chloride | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| bromomethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| chloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| trichlorofluoromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| diethyl ether | < 5 | 5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| acetone | < 50 | 50 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 1,1-dichloroethene | < 1 | 1 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| methylene chloride | < 5 | 5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| carbon disulfide | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| methyl t-butyl ether (MTBE) | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| trans-1,2-dichloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 1,1-dichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 2-butanone (MEK) | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 2,2-dichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| cis-1,2-dichloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| chloroform | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| bromochloromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| tetrahydrofuran (THF) | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 1,1,1-trichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 1,1-dichloropropene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| carbon tetrachloride | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 1,2-dichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| benzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| trichloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 1,2-dichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| bromodichloromethane | < 1 | 1 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| dibromomethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 4-methyl-2-pentanone (MIBK) | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| cis-1,3-dichloropropene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| toluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| trans-1,3-dichloropropene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 2-hexanone | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 1,1,2-trichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 1,3-dichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| tetrachloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| dibromochloromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 1,2-dibromoethane (EDB) | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| chlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 1,1,1,2-tetrachloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| ethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| m&p-xylenes | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-005
**Sample ID:** CA-MW-9
**Matrix:** Water
**Sampled:** 10/9/12 10:53

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| o-xylene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| styrene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| bromoform | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| isopropylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 1,1,2,2-tetrachloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 1,2,3-trichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| n-propylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| bromobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 1,3,5-trimethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 2-chlorotoluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 4-chlorotoluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| tert-butylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 1,2,4-trimethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| sec-butylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 1,3-dichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 4-isopropyltoluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 1,4-dichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 1,2-dichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| n-butylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 1,2-dibromo-3-chloropropane (DBCP) | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 1,2,4-trichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| hexachlorobutadiene | < 0.5 | 0.5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| naphthalene | < 5 | 5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 1,2,3-trichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **103** | 78-114 | % | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| toluene-D8 SUR | **102** | 88-110 | % | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |
| 4-bromofluorobenzene SUR | **102** | 86-115 | % | 1 | LMM | | 1202467 | 10/15/12 | 19:00 | SW5030B8260B |

Absolute Resource associates

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-006
**Sample ID:** CA-MW-10
**Matrix:** Water
**Sampled:** 10/9/12 9:42

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| chloromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| vinyl chloride | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| bromomethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| chloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| trichlorofluoromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| diethyl ether | < 5 | 5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| acetone | < 50 | 50 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 1,1-dichloroethene | < 1 | 1 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| methylene chloride | < 5 | 5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| carbon disulfide | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| methyl t-butyl ether (MTBE) | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| trans-1,2-dichloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 1,1-dichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 2-butanone (MEK) | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 2,2-dichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| cis-1,2-dichloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| chloroform | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| bromochloromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| tetrahydrofuran (THF) | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 1,1,1-trichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 1,1-dichloropropene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| carbon tetrachloride | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 1,2-dichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| benzene | **23** | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| trichloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 1,2-dichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| bromodichloromethane | < 1 | 1 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| dibromomethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 4-methyl-2-pentanone (MIBK) | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| cis-1,3-dichloropropene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| toluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| trans-1,3-dichloropropene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 2-hexanone | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 1,1,2-trichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 1,3-dichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| tetrachloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| dibromochloromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 1,2-dibromoethane (EDB) | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| chlorobenzene | **270** | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 1,1,1,2-tetrachloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| ethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| m&p-xylenes | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-006
**Sample ID:** CA-MW-10
**Matrix:** Water
**Sampled:** 10/9/12 9:42

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| o-xylene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| styrene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| bromoform | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| isopropylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 1,1,2,2-tetrachloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 1,2,3-trichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| n-propylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| bromobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 1,3,5-trimethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 2-chlorotoluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 4-chlorotoluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| tert-butylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 1,2,4-trimethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| sec-butylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 1,3-dichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 4-isopropyltoluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 1,4-dichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 1,2-dichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| n-butylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 1,2-dibromo-3-chloropropane (DBCP) | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 1,2,4-trichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| hexachlorobutadiene | < 0.5 | 0.5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| naphthalene | < 5 | 5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 1,2,3-trichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **99** | 78-114 | % | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| toluene-D8 SUR | **99** | 88-110 | % | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |
| 4-bromofluorobenzene SUR | **97** | 86-115 | % | 1 | LMM | | 1202467 | 10/15/12 | 19:32 | SW5030B8260B |

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-007
**Sample ID:** CA-MW-DUP-1
**Matrix:** Water
**Sampled:** 10/9/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| chloromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| vinyl chloride | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| bromomethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| chloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| trichlorofluoromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| diethyl ether | < 5 | 5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| acetone | < 50 | 50 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 1,1-dichloroethene | < 1 | 1 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| methylene chloride | < 5 | 5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| carbon disulfide | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| methyl t-butyl ether (MTBE) | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| trans-1,2-dichloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 1,1-dichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 2-butanone (MEK) | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 2,2-dichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| cis-1,2-dichloroethene | **2** | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| chloroform | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| bromochloromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| tetrahydrofuran (THF) | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 1,1,1-trichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 1,1-dichloropropene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| carbon tetrachloride | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 1,2-dichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| benzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| trichloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 1,2-dichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| bromodichloromethane | < 1 | 1 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| dibromomethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 4-methyl-2-pentanone (MIBK) | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| cis-1,3-dichloropropene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| toluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| trans-1,3-dichloropropene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 2-hexanone | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 1,1,2-trichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 1,3-dichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| tetrachloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| dibromochloromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 1,2-dibromoethane (EDB) | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| chlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 1,1,1,2-tetrachloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| ethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| m&p-xylenes | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-007
**Sample ID:** CA-MW-DUP-1
**Matrix:** Water
**Sampled:** 10/9/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| o-xylene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| styrene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| bromoform | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| isopropylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 1,1,2,2-tetrachloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 1,2,3-trichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| n-propylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| bromobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 1,3,5-trimethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 2-chlorotoluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 4-chlorotoluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| tert-butylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 1,2,4-trimethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| sec-butylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 1,3-dichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 4-isopropyltoluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 1,4-dichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 1,2-dichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| n-butylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 1,2-dibromo-3-chloropropane (DBCP) | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 1,2,4-trichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| hexachlorobutadiene | < 0.5 | 0.5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| naphthalene | < 5 | 5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 1,2,3-trichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **99** | 78-114 | % | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| toluene-D8 SUR | **102** | 88-110 | % | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |
| 4-bromofluorobenzene SUR | **98** | 86-115 | % | 1 | LMM | | 1202467 | 10/15/12 | 20:03 | SW5030B8260B |

Absolute Resource associates

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-008
**Sample ID:** Trip Blank
**Matrix:** Water
**Sampled:** 10/9/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| chloromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| vinyl chloride | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| bromomethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| chloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| trichlorofluoromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| diethyl ether | < 5 | 5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| acetone | < 50 | 50 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 1,1-dichloroethene | < 1 | 1 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| methylene chloride | < 5 | 5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| carbon disulfide | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| methyl t-butyl ether (MTBE) | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| trans-1,2-dichloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 1,1-dichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 2-butanone (MEK) | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 2,2-dichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| cis-1,2-dichloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| chloroform | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| bromochloromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| tetrahydrofuran (THF) | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 1,1,1-trichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 1,1-dichloropropene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| carbon tetrachloride | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 1,2-dichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| benzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| trichloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 1,2-dichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| bromodichloromethane | < 1 | 1 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| dibromomethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 4-methyl-2-pentanone (MIBK) | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| cis-1,3-dichloropropene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| toluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| trans-1,3-dichloropropene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 2-hexanone | < 10 | 10 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 1,1,2-trichloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 1,3-dichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| tetrachloroethene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| dibromochloromethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 1,2-dibromoethane (EDB) | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| chlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 1,1,1,2-tetrachloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| ethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| m&p-xylenes | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-008
**Sample ID:** Trip Blank
**Matrix:** Water
**Sampled:** 10/9/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| o-xylene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| styrene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| bromoform | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| isopropylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 1,1,2,2-tetrachloroethane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 1,2,3-trichloropropane | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| n-propylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| bromobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 1,3,5-trimethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 2-chlorotoluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 4-chlorotoluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| tert-butylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 1,2,4-trimethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| sec-butylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 1,3-dichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 4-isopropyltoluene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 1,4-dichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 1,2-dichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| n-butylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 1,2-dibromo-3-chloropropane (DBCP) | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 1,2,4-trichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| hexachlorobutadiene | < 0.5 | 0.5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| naphthalene | < 5 | 5 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 1,2,3-trichlorobenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **101** | 78-114 | % | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| toluene-D8 SUR | **100** | 88-110 | % | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |
| 4-bromofluorobenzene SUR | **101** | 86-115 | % | 1 | LMM | | 1202467 | 10/15/12 | 13:43 | SW5030B8260B |

Absolute Resource associates

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-002
**Sample ID:** CA-MW-6
**Matrix:** Water
Received on ice at 4˚C, in satisfactory condition.
**Sampled:** 10/9/12 13:20

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Unadjusted C5-C8 Aliphatics | < 100 | 100 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:06 | MA VPH |
| Unadjusted C9-C12 Aliphatics | < 100 | 100 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:06 | MA VPH |
| methyl t-butyl ether (MTBE) | < 2 | 2 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:06 | MA VPH |
| benzene | < 1 | 1 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:06 | MA VPH |
| toluene | < 2 | 2 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:06 | MA VPH |
| ethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:06 | MA VPH |
| m&p-xylenes | < 2 | 2 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:06 | MA VPH |
| o-xylene | < 2 | 2 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:06 | MA VPH |
| naphthalene | < 5 | 5 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:06 | MA VPH |
| C5-C8 Aliphatics | < 100 | 100 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:06 | MA VPH |
| C9-C12 Aliphatics | < 100 | 100 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:06 | MA VPH |
| C9-C10 Aromatics | < 100 | 100 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:06 | MA VPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2,5-dibromotoluene as Aromatic SUR | **116** | 70-130 | % | 1 | LMM | | 1202475 | 10/15/12 | 18:06 | MA VPH |
| 2,5-dibromotoluene as Aliphatic SUR | **115** | 70-130 | % | 1 | LMM | | 1202475 | 10/15/12 | 18:06 | MA VPH |

Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in that range.
C9-C12 Aliphatic Hydrocarbons exclude concentration of target analytes eluting in that range AND C9-C10 Aromatics.

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-003
**Sample ID:** CA-MW-7
**Matrix:** Water
Received on ice at 4˚C, in satisfactory condition.
**Sampled:** 10/9/12 14:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Unadjusted C5-C8 Aliphatics | < 100 | 100 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:39 | MA VPH |
| Unadjusted C9-C12 Aliphatics | **110** | 100 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:39 | MA VPH |
| methyl t-butyl ether (MTBE) | < 2 | 2 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:39 | MA VPH |
| benzene | < 1 | 1 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:39 | MA VPH |
| toluene | < 2 | 2 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:39 | MA VPH |
| ethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:39 | MA VPH |
| m&p-xylenes | < 2 | 2 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:39 | MA VPH |
| o-xylene | < 2 | 2 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:39 | MA VPH |
| naphthalene | < 5 | 5 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:39 | MA VPH |
| C5-C8 Aliphatics | < 100 | 100 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:39 | MA VPH |
| C9-C12 Aliphatics | < 100 | 100 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:39 | MA VPH |
| C9-C10 Aromatics | < 100 | 100 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 18:39 | MA VPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2,5-dibromotoluene as Aromatic SUR | **111** | 70-130 | % | 1 | LMM | | 1202475 | 10/15/12 | 18:39 | MA VPH |
| 2,5-dibromotoluene as Aliphatic SUR | **99** | 70-130 | % | 1 | LMM | | 1202475 | 10/15/12 | 18:39 | MA VPH |

Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in that range.
C9-C12 Aliphatic Hydrocarbons exclude concentration of target analytes eluting in that range AND C9-C10 Aromatics.

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-007
**Sample ID:** CA-MW-DUP-1
**Matrix:** Water
Received on ice at 4˚C, in satisfactory condition.
**Sampled:** 10/9/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Unadjusted C5-C8 Aliphatics | < 100 | 100 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:12 | MA VPH |
| Unadjusted C9-C12 Aliphatics | < 100 | 100 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:12 | MA VPH |
| methyl t-butyl ether (MTBE) | < 2 | 2 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:12 | MA VPH |
| benzene | < 1 | 1 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:12 | MA VPH |
| toluene | < 2 | 2 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:12 | MA VPH |
| ethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:12 | MA VPH |
| m&p-xylenes | < 2 | 2 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:12 | MA VPH |
| o-xylene | < 2 | 2 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:12 | MA VPH |
| naphthalene | < 5 | 5 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:12 | MA VPH |
| C5-C8 Aliphatics | < 100 | 100 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:12 | MA VPH |
| C9-C12 Aliphatics | < 100 | 100 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:12 | MA VPH |
| C9-C10 Aromatics | < 100 | 100 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:12 | MA VPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2,5-dibromotoluene as Aromatic SUR | **112** | 70-130 | % | 1 | LMM | | 1202475 | 10/15/12 | 19:12 | MA VPH |
| 2,5-dibromotoluene as Aliphatic SUR | **112** | 70-130 | % | 1 | LMM | | 1202475 | 10/15/12 | 19:12 | MA VPH |

Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in that range.
C9-C12 Aliphatic Hydrocarbons exclude concentration of target analytes eluting in that range AND C9-C10 Aromatics.

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-009
**Sample ID:** Trip Blank
**Matrix:** Water
Received on ice at 4˚C, in satisfactory condition.
**Sampled:** 10/9/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Unadjusted C5-C8 Aliphatics | < 100 | 100 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:45 | MA VPH |
| Unadjusted C9-C12 Aliphatics | < 100 | 100 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:45 | MA VPH |
| methyl t-butyl ether (MTBE) | < 2 | 2 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:45 | MA VPH |
| benzene | < 1 | 1 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:45 | MA VPH |
| toluene | < 2 | 2 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:45 | MA VPH |
| ethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:45 | MA VPH |
| m&p-xylenes | < 2 | 2 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:45 | MA VPH |
| o-xylene | < 2 | 2 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:45 | MA VPH |
| naphthalene | < 5 | 5 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:45 | MA VPH |
| C5-C8 Aliphatics | < 100 | 100 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:45 | MA VPH |
| C9-C12 Aliphatics | < 100 | 100 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:45 | MA VPH |
| C9-C10 Aromatics | < 100 | 100 | ug/L | 1 | LMM | | 1202475 | 10/15/12 | 19:45 | MA VPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2,5-dibromotoluene as Aromatic SUR | **110** | 70-130 | % | 1 | LMM | | 1202475 | 10/15/12 | 19:45 | MA VPH |
| 2,5-dibromotoluene as Aliphatic SUR | **110** | 70-130 | % | 1 | LMM | | 1202475 | 10/15/12 | 19:45 | MA VPH |

Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
C5-C8 Aliphatic Hydrocarbons exclude the concentration of target analytes eluting in that range.
C9-C12 Aliphatic Hydrocarbons exclude concentration of target analytes eluting in that range AND C9-C10 Aromatics.

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-002
**Sample ID:** CA-MW-6
**Matrix:** Water
**Sampled:** 10/9/12 13:20

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| N-nitrosodimethylamine | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| aniline | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| phenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:14 | SW3510C8270D |
| 2-chlorophenol | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:14 | SW3510C8270D |
| bis(2-chloroethyl)ether | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| 1,3-dichlorobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| 1,4-dichlorobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| 1,2-dichlorobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| benzyl alcohol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| 2-methylphenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:14 | SW3510C8270D |
| bis(2-chloroisopropyl) ether | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| hexachloroethane | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| N-nitroso-di-N-propylamine | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| 4-methylphenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:14 | SW3510C8270D |
| nitrobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| isophorone | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| 2-nitrophenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:14 | SW3510C8270D |
| 2,4-dimethylphenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:14 | SW3510C8270D |
| bis(2-chloroethoxy)methane | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| 2,4-dichlorophenol | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:14 | SW3510C8270D |
| 1,2,4-trichlorobenzene | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| naphthalene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| benzoic acid | < 50 | 50 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:14 | SW3510C8270D |
| 4-chloroaniline | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| hexachlorobutadiene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| 4-chloro-3-methylphenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:14 | SW3510C8270D |
| 2-methylnaphthalene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| hexachlorocyclopentadiene | < 10 | 10 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| 2,4,6-trichlorophenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:14 | SW3510C8270D |
| 2,4,5-trichlorophenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:14 | SW3510C8270D |
| 2-chloronaphthalene | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| 2-nitroaniline | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| acenaphthylene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| dimethylphthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| 2,6-dinitrotoluene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| 2,4-dinitrotoluene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| acenaphthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| 3-nitroaniline | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| 2,4-dinitrophenol | < 50 | 50 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:14 | SW3510C8270D |
| dibenzofuran | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| 4-nitrophenol | < 10 | 10 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:14 | SW3510C8270D |
| fluorene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| diethyl phthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-002
**Sample ID:** CA-MW-6
**Matrix:** Water
**Sampled:** 10/9/12 13:20

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-chlorophenyl phenyl ether | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| 4-nitroaniline | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| 4,6-dinitro-2-methylphenol | < 20 | 20 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:14 | SW3510C8270D |
| azobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| N-nitrosodiphenylamine | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| 4-bromophenyl phenyl ether | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| hexachlorobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| pentachlorophenol | < 10 | 10 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:14 | SW3510C8270D |
| phenanthrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| carbazole | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| di-n-butylphthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| benzidine | < 30 | 30 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| pyrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| butyl benzyl phthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| benzo(a)anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| chrysene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| 3,3'-dichlorobenzidine | < 30 | 30 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| bis(2-ethylhexyl)phthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| di-n-octyl phthalate | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| benzo(b)fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| benzo(k)fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| benzo(a)pyrene | < 0.2 | 0.2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| indeno(1,2,3-cd)pyrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| dibenzo(a,h)anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| benzo(g,h,i)perylene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorophenol SUR | **27** | 21-100 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:14 | SW3510C8270D |
| phenol-D5 SUR | **16** | 10-102 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:14 | SW3510C8270D |
| 2,4,6-tribromophenol SUR | **87** | 10-123 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:14 | SW3510C8270D |
| nitrobenzene-D5 SUR | **69** | 35-114 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| 2-fluorobiphenyl SUR | **79** | 43-116 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |
| p-terphenyl-D14 SUR | **77** | 33-141 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 20:51 | SW3510C8270D |

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-003
**Sample ID:** CA-MW-7
**Matrix:** Water
**Sampled:** 10/9/12 14:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| N-nitrosodimethylamine | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| aniline | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| phenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 21:29 | SW3510C8270D |
| 2-chlorophenol | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 21:29 | SW3510C8270D |
| bis(2-chloroethyl)ether | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| 1,3-dichlorobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| 1,4-dichlorobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| 1,2-dichlorobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| benzyl alcohol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| 2-methylphenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 21:29 | SW3510C8270D |
| bis(2-chloroisopropyl) ether | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| hexachloroethane | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| N-nitroso-di-N-propylamine | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| 4-methylphenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 21:29 | SW3510C8270D |
| nitrobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| isophorone | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| 2-nitrophenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 21:29 | SW3510C8270D |
| 2,4-dimethylphenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 21:29 | SW3510C8270D |
| bis(2-chloroethoxy)methane | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| 2,4-dichlorophenol | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 21:29 | SW3510C8270D |
| 1,2,4-trichlorobenzene | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| naphthalene | **1.6** | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| benzoic acid | < 50 | 50 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 21:29 | SW3510C8270D |
| 4-chloroaniline | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| hexachlorobutadiene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| 4-chloro-3-methylphenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 21:29 | SW3510C8270D |
| 2-methylnaphthalene | **3.3** | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| hexachlorocyclopentadiene | < 10 | 10 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| 2,4,6-trichlorophenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 21:29 | SW3510C8270D |
| 2,4,5-trichlorophenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 21:29 | SW3510C8270D |
| 2-chloronaphthalene | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| 2-nitroaniline | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| acenaphthylene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| dimethylphthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| 2,6-dinitrotoluene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| 2,4-dinitrotoluene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| acenaphthene | **0.9** | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| 3-nitroaniline | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| 2,4-dinitrophenol | < 50 | 50 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 21:29 | SW3510C8270D |
| dibenzofuran | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| 4-nitrophenol | < 10 | 10 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 21:29 | SW3510C8270D |
| fluorene | **0.8** | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| diethyl phthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-003
**Sample ID:** CA-MW-7
**Matrix:** Water
**Sampled:** 10/9/12 14:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-chlorophenyl phenyl ether | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| 4-nitroaniline | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| 4,6-dinitro-2-methylphenol | < 20 | 20 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 21:29 | SW3510C8270D |
| azobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| N-nitrosodiphenylamine | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| 4-bromophenyl phenyl ether | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| hexachlorobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| pentachlorophenol | < 10 | 10 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 21:29 | SW3510C8270D |
| phenanthrene | **0.8** | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| carbazole | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| di-n-butylphthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| benzidine | < 30 | 30 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| pyrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| butyl benzyl phthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| benzo(a)anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| chrysene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| 3,3'-dichlorobenzidine | < 30 | 30 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| bis(2-ethylhexyl)phthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| di-n-octyl phthalate | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| benzo(b)fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| benzo(k)fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| benzo(a)pyrene | < 0.2 | 0.2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| indeno(1,2,3-cd)pyrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| dibenzo(a,h)anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| benzo(g,h,i)perylene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorophenol SUR | **31** | 21-100 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 21:29 | SW3510C8270D |
| phenol-D5 SUR | **19** | 10-102 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 21:29 | SW3510C8270D |
| 2,4,6-tribromophenol SUR | **112** | 10-123 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 21:29 | SW3510C8270D |
| nitrobenzene-D5 SUR | **70** | 35-114 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| 2-fluorobiphenyl SUR | **87** | 43-116 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |
| p-terphenyl-D14 SUR | **80** | 33-141 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:06 | SW3510C8270D |

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-004
**Sample ID:** CA-MW-8
**Matrix:** Water
**Sampled:** 10/9/12 12:12

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| naphthalene | < 2.6 | 2.6 | ug/L | 5 | AJD | 10/12/12 | 5563 | 10/18/12 | 11:40 | SW3510C8270D |
| 2-methylnaphthalene | < 2.6 | 2.6 | ug/L | 5 | AJD | 10/12/12 | 5563 | 10/18/12 | 11:40 | SW3510C8270D |
| acenaphthylene | < 2.6 | 2.6 | ug/L | 5 | AJD | 10/12/12 | 5563 | 10/18/12 | 11:40 | SW3510C8270D |
| acenaphthene | < 2.6 | 2.6 | ug/L | 5 | AJD | 10/12/12 | 5563 | 10/18/12 | 11:40 | SW3510C8270D |
| dibenzofuran | < 2.6 | 2.6 | ug/L | 5 | AJD | 10/12/12 | 5563 | 10/18/12 | 11:40 | SW3510C8270D |
| fluorene | **5.7** | 2.6 | ug/L | 5 | AJD | 10/12/12 | 5563 | 10/18/12 | 11:40 | SW3510C8270D |
| phenanthrene | < 2.6 | 2.6 | ug/L | 5 | AJD | 10/12/12 | 5563 | 10/18/12 | 11:40 | SW3510C8270D |
| anthracene | < 2.6 | 2.6 | ug/L | 5 | AJD | 10/12/12 | 5563 | 10/18/12 | 11:40 | SW3510C8270D |
| fluoranthene | < 2.6 | 2.6 | ug/L | 5 | AJD | 10/12/12 | 5563 | 10/18/12 | 11:40 | SW3510C8270D |
| pyrene | < 2.6 | 2.6 | ug/L | 5 | AJD | 10/12/12 | 5563 | 10/18/12 | 11:40 | SW3510C8270D |
| benzo(a)anthracene | < 2.6 | 2.6 | ug/L | 5 | AJD | 10/12/12 | 5563 | 10/18/12 | 11:40 | SW3510C8270D |
| chrysene | < 2.6 | 2.6 | ug/L | 5 | AJD | 10/12/12 | 5563 | 10/18/12 | 11:40 | SW3510C8270D |
| benzo(b)fluoranthene | < 2.6 | 2.6 | ug/L | 5 | AJD | 10/12/12 | 5563 | 10/18/12 | 11:40 | SW3510C8270D |
| benzo(k)fluoranthene | < 2.6 | 2.6 | ug/L | 5 | AJD | 10/12/12 | 5563 | 10/18/12 | 11:40 | SW3510C8270D |
| benzo(a)pyrene | < 1.0 | 1.0 | ug/L | 5 | AJD | 10/12/12 | 5563 | 10/18/12 | 11:40 | SW3510C8270D |
| indeno(1,2,3-cd)pyrene | < 2.6 | 2.6 | ug/L | 5 | AJD | 10/12/12 | 5563 | 10/18/12 | 11:40 | SW3510C8270D |
| dibenzo(a,h)anthracene | < 2.6 | 2.6 | ug/L | 5 | AJD | 10/12/12 | 5563 | 10/18/12 | 11:40 | SW3510C8270D |
| benzo(g,h,i)perylene | < 2.6 | 2.6 | ug/L | 5 | AJD | 10/12/12 | 5563 | 10/18/12 | 11:40 | SW3510C8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorobiphenyl SUR | **86** | 43-116 | % | 5 | AJD | 10/12/12 | 5563 | 10/18/12 | 11:40 | SW3510C8270D |
| o-terphenyl SUR | **87** | 33-141 | % | 5 | AJD | 10/12/12 | 5563 | 10/18/12 | 11:40 | SW3510C8270D |

***Note: Dilution was required due to interferences from hydrocarbons.***

Absolute Resource associates

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-005
**Sample ID:** CA-MW-9
**Matrix:** Water
**Sampled:** 10/9/12 10:53

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| N-nitrosodimethylamine | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| aniline | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| phenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:43 | SW3510C8270D |
| 2-chlorophenol | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:43 | SW3510C8270D |
| bis(2-chloroethyl)ether | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| 1,3-dichlorobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| 1,4-dichlorobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| 1,2-dichlorobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| benzyl alcohol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| 2-methylphenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:43 | SW3510C8270D |
| bis(2-chloroisopropyl) ether | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| hexachloroethane | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| N-nitroso-di-N-propylamine | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| 4-methylphenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:43 | SW3510C8270D |
| nitrobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| isophorone | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| 2-nitrophenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:43 | SW3510C8270D |
| 2,4-dimethylphenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:43 | SW3510C8270D |
| bis(2-chloroethoxy)methane | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| 2,4-dichlorophenol | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:43 | SW3510C8270D |
| 1,2,4-trichlorobenzene | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| naphthalene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| benzoic acid | < 50 | 50 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:43 | SW3510C8270D |
| 4-chloroaniline | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| hexachlorobutadiene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| 4-chloro-3-methylphenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:43 | SW3510C8270D |
| 2-methylnaphthalene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| hexachlorocyclopentadiene | < 10 | 10 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| 2,4,6-trichlorophenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:43 | SW3510C8270D |
| 2,4,5-trichlorophenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:43 | SW3510C8270D |
| 2-chloronaphthalene | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| 2-nitroaniline | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| acenaphthylene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| dimethylphthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| 2,6-dinitrotoluene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| 2,4-dinitrotoluene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| acenaphthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| 3-nitroaniline | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| 2,4-dinitrophenol | < 50 | 50 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:43 | SW3510C8270D |
| dibenzofuran | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| 4-nitrophenol | < 10 | 10 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:43 | SW3510C8270D |
| fluorene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| diethyl phthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-005
**Sample ID:** CA-MW-9
**Matrix:** Water
**Sampled:** 10/9/12 10:53

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-chlorophenyl phenyl ether | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| 4-nitroaniline | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| 4,6-dinitro-2-methylphenol | < 20 | 20 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:43 | SW3510C8270D |
| azobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| N-nitrosodiphenylamine | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| 4-bromophenyl phenyl ether | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| hexachlorobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| pentachlorophenol | < 10 | 10 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:43 | SW3510C8270D |
| phenanthrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| carbazole | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| di-n-butylphthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| benzidine | < 30 | 30 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| pyrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| butyl benzyl phthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| benzo(a)anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| chrysene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| 3,3'-dichlorobenzidine | < 30 | 30 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| bis(2-ethylhexyl)phthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| di-n-octyl phthalate | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| benzo(b)fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| benzo(k)fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| benzo(a)pyrene | < 0.2 | 0.2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| indeno(1,2,3-cd)pyrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| dibenzo(a,h)anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| benzo(g,h,i)perylene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorophenol SUR | **30** | 21-100 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:43 | SW3510C8270D |
| phenol-D5 SUR | **17** | 10-102 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:43 | SW3510C8270D |
| 2,4,6-tribromophenol SUR | **99** | 10-123 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 22:43 | SW3510C8270D |
| nitrobenzene-D5 SUR | **76** | 35-114 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| 2-fluorobiphenyl SUR | **95** | 43-116 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |
| p-terphenyl-D14 SUR | **98** | 33-141 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:21 | SW3510C8270D |

Absolute Resource associates

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-006
**Sample ID:** CA-MW-10
**Matrix:** Water
**Sampled:** 10/9/12 9:42

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| N-nitrosodimethylamine | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| aniline | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| phenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:58 | SW3510C8270D |
| 2-chlorophenol | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:58 | SW3510C8270D |
| bis(2-chloroethyl)ether | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| 1,3-dichlorobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| 1,4-dichlorobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| 1,2-dichlorobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| benzyl alcohol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| 2-methylphenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:58 | SW3510C8270D |
| bis(2-chloroisopropyl) ether | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| hexachloroethane | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| N-nitroso-di-N-propylamine | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| 4-methylphenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:58 | SW3510C8270D |
| nitrobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| isophorone | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| 2-nitrophenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:58 | SW3510C8270D |
| 2,4-dimethylphenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:58 | SW3510C8270D |
| bis(2-chloroethoxy)methane | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| 2,4-dichlorophenol | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:58 | SW3510C8270D |
| 1,2,4-trichlorobenzene | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| naphthalene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| benzoic acid | < 50 | 50 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:58 | SW3510C8270D |
| 4-chloroaniline | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| hexachlorobutadiene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| 4-chloro-3-methylphenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:58 | SW3510C8270D |
| 2-methylnaphthalene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| hexachlorocyclopentadiene | < 10 | 10 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| 2,4,6-trichlorophenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:58 | SW3510C8270D |
| 2,4,5-trichlorophenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:58 | SW3510C8270D |
| 2-chloronaphthalene | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| 2-nitroaniline | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| acenaphthylene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| dimethylphthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| 2,6-dinitrotoluene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| 2,4-dinitrotoluene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| acenaphthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| 3-nitroaniline | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| 2,4-dinitrophenol | < 50 | 50 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:58 | SW3510C8270D |
| dibenzofuran | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| 4-nitrophenol | < 10 | 10 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:58 | SW3510C8270D |
| fluorene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| diethyl phthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-006
**Sample ID:** CA-MW-10
**Matrix:** Water
**Sampled:** 10/9/12 9:42

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-chlorophenyl phenyl ether | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| 4-nitroaniline | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| 4,6-dinitro-2-methylphenol | < 20 | 20 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:58 | SW3510C8270D |
| azobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| N-nitrosodiphenylamine | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| 4-bromophenyl phenyl ether | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| hexachlorobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| pentachlorophenol | < 10 | 10 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:58 | SW3510C8270D |
| phenanthrene | **0.6** | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| carbazole | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| di-n-butylphthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| benzidine | < 30 | 30 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| pyrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| butyl benzyl phthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| benzo(a)anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| chrysene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| 3,3'-dichlorobenzidine | < 30 | 30 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| bis(2-ethylhexyl)phthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| di-n-octyl phthalate | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| benzo(b)fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| benzo(k)fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| benzo(a)pyrene | < 0.2 | 0.2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| indeno(1,2,3-cd)pyrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| dibenzo(a,h)anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| benzo(g,h,i)perylene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorophenol SUR | **15** * | 21-100 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:58 | SW3510C8270D |
| phenol-D5 SUR | **10** | 10-102 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:58 | SW3510C8270D |
| 2,4,6-tribromophenol SUR | **58** | 10-123 | % | 1 | AJD | 10/12/12 | 5563 | 10/16/12 | 23:58 | SW3510C8270D |
| nitrobenzene-D5 SUR | **75** | 35-114 | % | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| 2-fluorobiphenyl SUR | **95** | 43-116 | % | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |
| p-terphenyl-D14 SUR | **92** | 33-141 | % | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 0:35 | SW3510C8270D |

**** The surrogate showed recovery outside the acceptance limits. Matrix interference suspected. No additional sample remains for re-analysis.***

Absolute Resource associates

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-007
**Sample ID:** CA-MW-DUP-1
**Matrix:** Water
**Sampled:** 10/9/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| N-nitrosodimethylamine | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| aniline | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| phenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:13 | SW3510C8270D |
| 2-chlorophenol | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:13 | SW3510C8270D |
| bis(2-chloroethyl)ether | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| 1,3-dichlorobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| 1,4-dichlorobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| 1,2-dichlorobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| benzyl alcohol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| 2-methylphenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:13 | SW3510C8270D |
| bis(2-chloroisopropyl) ether | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| hexachloroethane | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| N-nitroso-di-N-propylamine | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| 4-methylphenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:13 | SW3510C8270D |
| nitrobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| isophorone | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| 2-nitrophenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:13 | SW3510C8270D |
| 2,4-dimethylphenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:13 | SW3510C8270D |
| bis(2-chloroethoxy)methane | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| 2,4-dichlorophenol | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:13 | SW3510C8270D |
| 1,2,4-trichlorobenzene | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| naphthalene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| benzoic acid | < 50 | 50 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:13 | SW3510C8270D |
| 4-chloroaniline | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| hexachlorobutadiene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| 4-chloro-3-methylphenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:13 | SW3510C8270D |
| 2-methylnaphthalene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| hexachlorocyclopentadiene | < 10 | 10 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| 2,4,6-trichlorophenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:13 | SW3510C8270D |
| 2,4,5-trichlorophenol | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:13 | SW3510C8270D |
| 2-chloronaphthalene | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| 2-nitroaniline | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| acenaphthylene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| dimethylphthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| 2,6-dinitrotoluene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| 2,4-dinitrotoluene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| acenaphthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| 3-nitroaniline | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| 2,4-dinitrophenol | < 50 | 50 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:13 | SW3510C8270D |
| dibenzofuran | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| 4-nitrophenol | < 10 | 10 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:13 | SW3510C8270D |
| fluorene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| diethyl phthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-007
**Sample ID:** CA-MW-DUP-1
**Matrix:** Water
**Sampled:** 10/9/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-chlorophenyl phenyl ether | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| 4-nitroaniline | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| 4,6-dinitro-2-methylphenol | < 20 | 20 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:13 | SW3510C8270D |
| azobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| N-nitrosodiphenylamine | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| 4-bromophenyl phenyl ether | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| hexachlorobenzene | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| pentachlorophenol | < 10 | 10 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:13 | SW3510C8270D |
| phenanthrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| carbazole | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| di-n-butylphthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| benzidine | < 30 | 30 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| pyrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| butyl benzyl phthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| benzo(a)anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| chrysene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| 3,3'-dichlorobenzidine | < 30 | 30 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| bis(2-ethylhexyl)phthalate | < 5 | 5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| di-n-octyl phthalate | < 2 | 2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| benzo(b)fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| benzo(k)fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| benzo(a)pyrene | < 0.2 | 0.2 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| indeno(1,2,3-cd)pyrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| dibenzo(a,h)anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| benzo(g,h,i)perylene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 2-fluorophenol SUR | **39** | 21-100 | % | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:13 | SW3510C8270D |
| phenol-D5 SUR | **24** | 10-102 | % | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:13 | SW3510C8270D |
| 2,4,6-tribromophenol SUR | **110** | 10-123 | % | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:13 | SW3510C8270D |
| nitrobenzene-D5 SUR | **78** | 35-114 | % | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| 2-fluorobiphenyl SUR | **94** | 43-116 | % | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |
| p-terphenyl-D14 SUR | **94** | 33-141 | % | 1 | AJD | 10/12/12 | 5563 | 10/17/12 | 1:50 | SW3510C8270D |

Absolute Resource associates

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-001
**Sample ID:** CA-MW-3
**Matrix:** Water
**Sampled:** 10/9/12 15:20

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| naphthalene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 12:29 | MA EPH |
| 2-methylnaphthalene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 12:29 | MA EPH |
| phenanthrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 12:29 | MA EPH |
| acenaphthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 12:29 | MA EPH |
| acenaphthylene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 12:29 | MA EPH |
| fluorene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 12:29 | MA EPH |
| anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 12:29 | MA EPH |
| fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 12:29 | MA EPH |
| pyrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 12:29 | MA EPH |
| benzo(a)anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 12:29 | MA EPH |
| chrysene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 12:29 | MA EPH |
| benzo(b)fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 12:29 | MA EPH |
| benzo(k)fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 12:29 | MA EPH |
| benzo(a)pyrene | < 0.2 | 0.2 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 12:29 | MA EPH |
| indeno(1,2,3-cd)pyrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 12:29 | MA EPH |
| dibenzo(a,h)anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 12:29 | MA EPH |
| benzo(g,h,i)perylene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 12:29 | MA EPH |
| Unadjusted C11-C22 Aromatics | < 100 | 100 | ug/L | 1 | JLZ | 10/12/12 | 5562 | 10/17/12 | 21:02 | MA EPH |
| C9-C18 Aliphatics | < 100 | 100 | ug/L | 1 | JLZ | 10/12/12 | 5562 | 10/16/12 | 19:03 | MA EPH |
| C19-C36 Aliphatics | < 100 | 100 | ug/L | 1 | JLZ | 10/12/12 | 5562 | 10/16/12 | 19:03 | MA EPH |
| C11-C22 Aromatics | < 100 | 100 | ug/L | 1 | JLZ | 10/12/12 | 5562 | 10/17/12 | 21:02 | MA EPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 1-chloro-octadecane SUR | **59** | 40-140 | % | 1 | JLZ | 10/12/12 | 5562 | 10/16/12 | 19:03 | MA EPH |
| o-terphenyl SUR | **61** | 40-140 | % | 1 | JLZ | 10/12/12 | 5562 | 10/17/12 | 21:02 | MA EPH |
| 2-fluorobiphenyl SUR | **88** | 40-140 | % | 1 | JLZ | 10/12/12 | 5562 | 10/17/12 | 21:02 | MA EPH |
| 2-bromonaphthalene SUR | **85** | 40-140 | % | 1 | JLZ | 10/12/12 | 5562 | 10/17/12 | 21:02 | MA EPH |

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-002
**Sample ID:** CA-MW-6
**Matrix:** Water
**Sampled:** 10/9/12 13:20

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| naphthalene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:06 | MA EPH |
| 2-methylnaphthalene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:06 | MA EPH |
| phenanthrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:06 | MA EPH |
| acenaphthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:06 | MA EPH |
| acenaphthylene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:06 | MA EPH |
| fluorene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:06 | MA EPH |
| anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:06 | MA EPH |
| fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:06 | MA EPH |
| pyrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:06 | MA EPH |
| benzo(a)anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:06 | MA EPH |
| chrysene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:06 | MA EPH |
| benzo(b)fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:06 | MA EPH |
| benzo(k)fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:06 | MA EPH |
| benzo(a)pyrene | < 0.2 | 0.2 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:06 | MA EPH |
| indeno(1,2,3-cd)pyrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:06 | MA EPH |
| dibenzo(a,h)anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:06 | MA EPH |
| benzo(g,h,i)perylene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:06 | MA EPH |
| Unadjusted C11-C22 Aromatics | < 100 | 100 | ug/L | 1 | JLZ | 10/12/12 | 5562 | 10/17/12 | 21:24 | MA EPH |
| C9-C18 Aliphatics | < 100 | 100 | ug/L | 1 | JLZ | 10/12/12 | 5562 | 10/16/12 | 19:21 | MA EPH |
| C19-C36 Aliphatics | < 100 | 100 | ug/L | 1 | JLZ | 10/12/12 | 5562 | 10/16/12 | 19:21 | MA EPH |
| C11-C22 Aromatics | < 100 | 100 | ug/L | 1 | JLZ | 10/12/12 | 5562 | 10/17/12 | 21:24 | MA EPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 1-chloro-octadecane SUR | **55** | 40-140 | % | 1 | JLZ | 10/12/12 | 5562 | 10/16/12 | 19:21 | MA EPH |
| o-terphenyl SUR | **58** | 40-140 | % | 1 | JLZ | 10/12/12 | 5562 | 10/17/12 | 21:24 | MA EPH |
| 2-fluorobiphenyl SUR | **84** | 40-140 | % | 1 | JLZ | 10/12/12 | 5562 | 10/17/12 | 21:24 | MA EPH |
| 2-bromonaphthalene SUR | **81** | 40-140 | % | 1 | JLZ | 10/12/12 | 5562 | 10/17/12 | 21:24 | MA EPH |

Absolute Resource associates

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-003
**Sample ID:** CA-MW-7
**Matrix:** Water
**Sampled:** 10/9/12 14:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| naphthalene | **1.4** | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:43 | MA EPH |
| 2-methylnaphthalene | **2.9** | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:43 | MA EPH |
| phenanthrene | **0.8** | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:43 | MA EPH |
| acenaphthene | **0.8** | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:43 | MA EPH |
| acenaphthylene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:43 | MA EPH |
| fluorene | **0.7** | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:43 | MA EPH |
| anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:43 | MA EPH |
| fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:43 | MA EPH |
| pyrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:43 | MA EPH |
| benzo(a)anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:43 | MA EPH |
| chrysene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:43 | MA EPH |
| benzo(b)fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:43 | MA EPH |
| benzo(k)fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:43 | MA EPH |
| benzo(a)pyrene | < 0.2 | 0.2 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:43 | MA EPH |
| indeno(1,2,3-cd)pyrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:43 | MA EPH |
| dibenzo(a,h)anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:43 | MA EPH |
| benzo(g,h,i)perylene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 13:43 | MA EPH |
| Unadjusted C11-C22 Aromatics | < 100 | 100 | ug/L | 1 | JLZ | 10/12/12 | 5562 | 10/17/12 | 21:47 | MA EPH |
| C9-C18 Aliphatics | < 100 | 100 | ug/L | 1 | JLZ | 10/12/12 | 5562 | 10/16/12 | 19:40 | MA EPH |
| C19-C36 Aliphatics | < 100 | 100 | ug/L | 1 | JLZ | 10/12/12 | 5562 | 10/16/12 | 19:40 | MA EPH |
| C11-C22 Aromatics | < 100 | 100 | ug/L | 1 | JLZ | 10/12/12 | 5562 | 10/17/12 | 21:47 | MA EPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 1-chloro-octadecane SUR | **59** | 40-140 | % | 1 | JLZ | 10/12/12 | 5562 | 10/16/12 | 19:40 | MA EPH |
| o-terphenyl SUR | **62** | 40-140 | % | 1 | JLZ | 10/12/12 | 5562 | 10/17/12 | 21:47 | MA EPH |
| 2-fluorobiphenyl SUR | **84** | 40-140 | % | 1 | JLZ | 10/12/12 | 5562 | 10/17/12 | 21:47 | MA EPH |
| 2-bromonaphthalene SUR | **87** | 40-140 | % | 1 | JLZ | 10/12/12 | 5562 | 10/17/12 | 21:47 | MA EPH |

Absolute Resource associates

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-007
**Sample ID:** CA-MW-DUP-1
**Matrix:** Water
**Sampled:** 10/9/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| naphthalene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 17:58 | MA EPH |
| 2-methylnaphthalene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 17:58 | MA EPH |
| phenanthrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 17:58 | MA EPH |
| acenaphthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 17:58 | MA EPH |
| acenaphthylene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 17:58 | MA EPH |
| fluorene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 17:58 | MA EPH |
| anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 17:58 | MA EPH |
| fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 17:58 | MA EPH |
| pyrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 17:58 | MA EPH |
| benzo(a)anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 17:58 | MA EPH |
| chrysene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 17:58 | MA EPH |
| benzo(b)fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 17:58 | MA EPH |
| benzo(k)fluoranthene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 17:58 | MA EPH |
| benzo(a)pyrene | < 0.2 | 0.2 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 17:58 | MA EPH |
| indeno(1,2,3-cd)pyrene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 17:58 | MA EPH |
| dibenzo(a,h)anthracene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 17:58 | MA EPH |
| benzo(g,h,i)perylene | < 0.5 | 0.5 | ug/L | 1 | AJD | 10/12/12 | 5562 | 10/17/12 | 17:58 | MA EPH |
| Unadjusted C11-C22 Aromatics | < 100 | 100 | ug/L | 1 | JLZ | 10/12/12 | 5562 | 10/17/12 | 22:10 | MA EPH |
| C9-C18 Aliphatics | < 100 | 100 | ug/L | 1 | JLZ | 10/12/12 | 5562 | 10/16/12 | 19:58 | MA EPH |
| C19-C36 Aliphatics | < 100 | 100 | ug/L | 1 | JLZ | 10/12/12 | 5562 | 10/16/12 | 19:58 | MA EPH |
| C11-C22 Aromatics | < 100 | 100 | ug/L | 1 | JLZ | 10/12/12 | 5562 | 10/17/12 | 22:10 | MA EPH |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 1-chloro-octadecane SUR | **66** | 40-140 | % | 1 | JLZ | 10/12/12 | 5562 | 10/16/12 | 19:58 | MA EPH |
| o-terphenyl SUR | **63** | 40-140 | % | 1 | JLZ | 10/12/12 | 5562 | 10/17/12 | 22:10 | MA EPH |
| 2-fluorobiphenyl SUR | **89** | 40-140 | % | 1 | JLZ | 10/12/12 | 5562 | 10/17/12 | 22:10 | MA EPH |
| 2-bromonaphthalene SUR | **84** | 40-140 | % | 1 | JLZ | 10/12/12 | 5562 | 10/17/12 | 22:10 | MA EPH |

Absolute Resource associates

**Project ID:** MERC 12001151
**Job ID:** 25149

**Sample#:** 25149-001
**Sample ID:** CA-MW-3
**Matrix:** Water
**Sampled:** 10/9/12 15:20

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | < 0.008 | 0.008 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:01 | SW3005A6010C |
| Barium | **0.06** | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:01 | SW3005A6010C |
| Cadmium | < 0.004 | 0.004 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:01 | SW3005A6010C |
| Chromium | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:01 | SW3005A6010C |
| Lead | < 0.008 | 0.008 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:01 | SW3005A6010C |
| Mercury | < 0.0002 | 0.0002 | mg/L | 1 | SAS | 10/12/12 | 5566 | 10/12/12 | 18:23 | SW7470A |
| Selenium | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:01 | SW3005A6010C |
| Silver | < 0.007 | 0.007 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:01 | SW3005A6010C |

**Sample#:** 25149-002
**Sample ID:** CA-MW-6
**Matrix:** Water
**Sampled:** 10/9/12 13:20

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | < 0.006 | 0.006 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:45 | SW3005A6010C |
| Arsenic | < 0.008 | 0.008 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:45 | SW3005A6010C |
| Beryllium | < 0.004 | 0.004 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:45 | SW3005A6010C |
| Cadmium | < 0.004 | 0.004 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:45 | SW3005A6010C |
| Chromium | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:45 | SW3005A6010C |
| Copper | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:45 | SW3005A6010C |
| Lead | < 0.008 | 0.008 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:45 | SW3005A6010C |
| Mercury | < 0.0002 | 0.0002 | mg/L | 1 | SAS | 10/12/12 | 5566 | 10/12/12 | 18:28 | SW7470A |
| Nickel | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:45 | SW3005A6010C |
| Selenium | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:45 | SW3005A6010C |
| Silver | < 0.007 | 0.007 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:45 | SW3005A6010C |
| Thallium | < 0.002 | 0.002 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:45 | SW3005A6010C |
| Zinc | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:45 | SW3005A6010C |

**Project ID:** MERC 12001151
**Job ID:** 25149

**Sample#:** 25149-003
**Sample ID:** CA-MW-7
**Matrix:** Water
**Sampled:** 10/9/12 14:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | < 0.006 | 0.006 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:52 | SW3005A6010C |
| Arsenic | < 0.008 | 0.008 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:52 | SW3005A6010C |
| Beryllium | < 0.004 | 0.004 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:52 | SW3005A6010C |
| Cadmium | < 0.004 | 0.004 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:52 | SW3005A6010C |
| Chromium | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:52 | SW3005A6010C |
| Copper | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:52 | SW3005A6010C |
| Lead | < 0.008 | 0.008 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:52 | SW3005A6010C |
| Mercury | < 0.0002 | 0.0002 | mg/L | 1 | SAS | 10/12/12 | 5566 | 10/12/12 | 18:30 | SW7470A |
| Nickel | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:52 | SW3005A6010C |
| Selenium | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:52 | SW3005A6010C |
| Silver | < 0.007 | 0.007 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:52 | SW3005A6010C |
| Thallium | < 0.002 | 0.002 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:52 | SW3005A6010C |
| Zinc | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:52 | SW3005A6010C |

**Sample#:** 25149-004
**Sample ID:** CA-MW-8
**Matrix:** Water
**Sampled:** 10/9/12 12:12

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | < 0.006 | 0.006 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:00 | SW3005A6010C |
| Arsenic | < 0.008 | 0.008 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:00 | SW3005A6010C |
| Beryllium | < 0.004 | 0.004 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:00 | SW3005A6010C |
| Cadmium | < 0.004 | 0.004 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:00 | SW3005A6010C |
| Chromium | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:00 | SW3005A6010C |
| Copper | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:00 | SW3005A6010C |
| Lead | < 0.008 | 0.008 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:00 | SW3005A6010C |
| Mercury | < 0.0002 | 0.0002 | mg/L | 1 | SAS | 10/12/12 | 5566 | 10/12/12 | 18:32 | SW7470A |
| Nickel | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:00 | SW3005A6010C |
| Selenium | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:00 | SW3005A6010C |
| Silver | < 0.007 | 0.007 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:00 | SW3005A6010C |
| Thallium | < 0.002 | 0.002 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:00 | SW3005A6010C |
| Zinc | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:00 | SW3005A6010C |

**Project ID:** MERC 12001151
**Job ID:** 25149

**Sample#:** 25149-005
**Sample ID:** CA-MW-9
**Matrix:** Water
**Sampled:** 10/9/12 10:53

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | < 0.006 | 0.006 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:07 | SW3005A6010C |
| Arsenic | < 0.008 | 0.008 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:07 | SW3005A6010C |
| Beryllium | < 0.004 | 0.004 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:07 | SW3005A6010C |
| Cadmium | < 0.004 | 0.004 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:07 | SW3005A6010C |
| Chromium | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:07 | SW3005A6010C |
| Copper | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:07 | SW3005A6010C |
| Lead | < 0.008 | 0.008 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:07 | SW3005A6010C |
| Mercury | < 0.0002 | 0.0002 | mg/L | 1 | SAS | 10/12/12 | 5566 | 10/12/12 | 18:34 | SW7470A |
| Nickel | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:07 | SW3005A6010C |
| Selenium | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:07 | SW3005A6010C |
| Silver | < 0.007 | 0.007 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:07 | SW3005A6010C |
| Thallium | < 0.002 | 0.002 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:07 | SW3005A6010C |
| Zinc | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:07 | SW3005A6010C |

**Sample#:** 25149-006
**Sample ID:** CA-MW-10
**Matrix:** Water
**Sampled:** 10/9/12 9:42

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | < 0.008 | 0.008 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:09 | SW3005A6010C |
| Barium | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:09 | SW3005A6010C |
| Cadmium | < 0.004 | 0.004 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:09 | SW3005A6010C |
| Chromium | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:09 | SW3005A6010C |
| Lead | < 0.008 | 0.008 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:09 | SW3005A6010C |
| Mercury | < 0.0002 | 0.0002 | mg/L | 1 | SAS | 10/12/12 | 5566 | 10/12/12 | 18:36 | SW7470A |
| Selenium | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:09 | SW3005A6010C |
| Silver | < 0.007 | 0.007 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 20:09 | SW3005A6010C |

**Project ID:** MERC 12001151
**Job ID:** 25149
**Sample#:** 25149-007
**Sample ID:** CA-MW-DUP-1
**Matrix:** Water
**Sampled:** 10/9/12 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | < 0.006 | 0.006 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:15 | SW3005A6010C |
| Arsenic | < 0.008 | 0.008 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:15 | SW3005A6010C |
| Beryllium | < 0.004 | 0.004 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:15 | SW3005A6010C |
| Cadmium | < 0.004 | 0.004 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:15 | SW3005A6010C |
| Chromium | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:15 | SW3005A6010C |
| Copper | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:15 | SW3005A6010C |
| Lead | < 0.008 | 0.008 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:15 | SW3005A6010C |
| Mercury | < 0.0002 | 0.0002 | mg/L | 1 | SAS | 10/12/12 | 5566 | 10/12/12 | 18:37 | SW7470A |
| Nickel | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:15 | SW3005A6010C |
| Selenium | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:15 | SW3005A6010C |
| Silver | < 0.007 | 0.007 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:15 | SW3005A6010C |
| Thallium | < 0.002 | 0.002 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:15 | SW3005A6010C |
| Zinc | < 0.05 | 0.05 | mg/L | 1 | SAS | 10/12/12 | 5569 | 10/15/12 | 21:15 | SW3005A6010C |

# Quality Control Report

Absolute Resource associates
124 Heritage Avenue Unit 16
Portsmouth, NH 03801
www.absoluteresourceassociates.com

Absolute Resource associates

**Case Narrative**
**Lab # 25149**

## Sample Receiving and Chain of Custody Discrepancies

Samples were received in acceptable condition, at 4 degrees C, on ice, and in accordance with sample handling, preservation and integrity guidelines.

## Calibration

No exceptions noted.

## Method Blank

No exceptions noted.

## Surrogate Recoveries

ABN: Sample CA-MW-10 did not meet acceptance criteria for the surrogate 2-fluorophenol due suspected matrix interference No additional sample remains for re-analysis.

## Laboratory Control Sample Results

ABN: The LCS/D5530 did not meet the acceptance criteria for N-nitrosodimethylamine, phenol, hexachlorocyclopentadiene, dimethylphthalate, 4-nitrophenol. Since <10% of the compounds were outside of the acceptance criteria, reanalysis is not required.

## Matrix Spike/Matrix Spike Duplicate/Duplicate Results

Not requested for this project.

## Other

PAH: Dilution was required due to hydrocarbon interferences for the following samples: CA-MW-8.
Reporting Limits: Dilutions performed during the analysis are noted on the result pages.

No other exceptions noted.

# - QC Association Table -

| Analysis | | QC Number | Field ID | Lab ID |
|---|---|---|---|---|
| EPH in water by | MA EPH | | | |
| | | 5562 | CA-MW-3 | 25149-001 |
| | | | CA-MW-6 | 25149-002 |
| | | | CA-MW-7 | 25149-003 |
| | | | CA-MW-DUP-1 | 25149-007 |
| VPH in water by MA | MA VPH | | | |
| | | 1202475 | CA-MW-6 | 25149-002 |
| | | | CA-MW-7 | 25149-003 |
| | | | CA-MW-DUP-1 | 25149-007 |
| | | | Trip Blank | 25149-009 |
| Antimony in water by | SW3005A6010C | | | |
| | | 5569 | CA-MW-3 | 25149-001 |
| | | | CA-MW-6 | 25149-002 |
| | | | CA-MW-7 | 25149-003 |
| | | | CA-MW-8 | 25149-004 |
| | | | CA-MW-9 | 25149-005 |
| | | | CA-MW-10 | 25149-006 |
| | | | CA-MW-DUP-1 | 25149-007 |
| Acid & Base/Neutral | SW3510C8270D | | | |
| | | 5563 | CA-MW-6 | 25149-002 |
| | | | CA-MW-7 | 25149-003 |
| | | | CA-MW-8 | 25149-004 |
| | | | CA-MW-9 | 25149-005 |
| | | | CA-MW-10 | 25149-006 |
| | | | CA-MW-DUP-1 | 25149-007 |
| VOCs in water by 8260 | SW5030B8260B | | | |
| | | 1202467 | CA-MW-6 | 25149-002 |
| | | | CA-MW-7 | 25149-003 |
| | | | CA-MW-9 | 25149-005 |
| | | | CA-MW-10 | 25149-006 |
| | | | CA-MW-DUP-1 | 25149-007 |
| | | | Trip Blank | 25149-008 |
| Mercury in water by 7470 | SW7470A | | | |
| | | 5566 | CA-MW-3 | 25149-001 |
| | | | CA-MW-6 | 25149-002 |
| | | | CA-MW-7 | 25149-003 |
| | | | CA-MW-8 | 25149-004 |
| | | | CA-MW-9 | 25149-005 |
| | | | CA-MW-10 | 25149-006 |
| | | | CA-MW-DUP-1 | 25149-007 |

# - QC Report -

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MA VPH | BLK1202475 | C5-C8 Aliphatics | | | | | | | | | | |
| | | Unadjusted C5-C8 Aliphatics | | < | 100 | ug/L | | | | | | |
| | | Unadjusted C9-C12 Aliphatics | | < | 100 | ug/L | | | | | | |
| | | methyl t-butyl ether (MTBE) | | < | 2 | ug/L | | | | | | |
| | | benzene | | < | 1 | ug/L | | | | | | |
| | | toluene | | < | 2 | ug/L | | | | | | |
| | | ethylbenzene | | < | 2 | ug/L | | | | | | |
| | | m&p-xylenes | | < | 2 | ug/L | | | | | | |
| | | o-xylene | | < | 2 | ug/L | | | | | | |
| | | naphthalene | | < | 5 | ug/L | | | | | | |
| | | C9-C10 Aromatics | | < | 100 | ug/L | | | | | | |
| | | 2,5-dibromotoluene as | | | 113 | % | | | 70 | 130 | | |
| | | 2,5-dibromotoluene as | | | 114 | % | | | 70 | 130 | | |
| MA VPH | LCS1202475 | C5-C8 Aliphatics | | | | | | | | | | |
| | | Unadjusted C5-C8 Aliphatics | | | 820 | ug/L | 750 | 109 | 70 | 130 | | |
| | | Unadjusted C9-C12 Aliphatics | | | 520 | ug/L | 550 | 94 | 70 | 130 | | |
| | | methyl t-butyl ether (MTBE) | | | 170 | ug/L | 150 | 111 | 70 | 130 | | |
| | | benzene | | | 50 | ug/L | 50 | 101 | 70 | 130 | | |
| | | toluene | | | 160 | ug/L | 150 | 103 | 70 | 130 | | |
| | | ethylbenzene | | | 49 | ug/L | 50 | 99 | 70 | 130 | | |
| | | m&p-xylenes | | | 200 | ug/L | 200 | 102 | 70 | 130 | | |
| | | o-xylene | | | 100 | ug/L | 100 | 103 | 70 | 130 | | |
| | | naphthalene | | | 100 | ug/L | 100 | 101 | 70 | 130 | | |
| | | C9-C10 Aromatics | | | 100 | ug/L | 100 | 100 | 70 | 130 | | |
| | | 2,5-dibromotoluene as | | | 370 | % | | | 70 | 130 | | |
| | | 2,5-dibromotoluene as | | | 361 | % | | | 70 | 130 | | |
| MA VPH | LCSD1202475 | C5-C8 Aliphatics | | | | | | | | | | |
| | | Unadjusted C5-C8 Aliphatics | | | 800 | ug/L | 750 | 107 | 70 | 130 | 2 | 25 |
| | | Unadjusted C9-C12 Aliphatics | | | 520 | ug/L | 550 | 94 | 70 | 130 | 0 | 25 |
| | | methyl t-butyl ether (MTBE) | | | 170 | ug/L | 150 | 112 | 70 | 130 | 2 | 25 |
| | | benzene | | | 51 | ug/L | 50 | 102 | 70 | 130 | 1 | 25 |
| | | toluene | | | 160 | ug/L | 150 | 105 | 70 | 130 | 1 | 25 |
| | | ethylbenzene | | | 48 | ug/L | 50 | 96 | 70 | 130 | 3 | 25 |
| | | m&p-xylenes | | | 210 | ug/L | 200 | 103 | 70 | 130 | 1 | 25 |
| | | o-xylene | | | 100 | ug/L | 100 | 104 | 70 | 130 | 1 | 25 |
| | | naphthalene | | | 100 | ug/L | 100 | 101 | 70 | 130 | 1 | 25 |
| | | C9-C10 Aromatics | | | 100 | ug/L | 100 | 101 | 70 | 130 | 1 | 25 |
| | | 2,5-dibromotoluene as | | | 375 | % | | | 70 | 130 | | |
| | | 2,5-dibromotoluene as | | | 364 | % | | | 70 | 130 | | |

| Method | QC ID | Parameter | Associated Sample | | Result | Units Amt Added | %R | Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| SW5030B8260B | BLK1202467 | dichlorodifluoromethane | | < | 2 | ug/L | | | | |
| | | chloromethane | | < | 2 | ug/L | | | | |
| | | vinyl chloride | | < | 2 | ug/L | | | | |
| | | bromomethane | | < | 2 | ug/L | | | | |
| | | chloroethane | | < | 2 | ug/L | | | | |
| | | trichlorofluoromethane | | < | 2 | ug/L | | | | |
| | | diethyl ether | | < | 10 | ug/L | | | | |
| | | acetone | | < | 50 | ug/L | | | | |
| | | 1,1-dichloroethene | | < | 1 | ug/L | | | | |
| | | methylene chloride | | < | 5 | ug/L | | | | |
| | | carbon disulfide | | < | 2 | ug/L | | | | |
| | | methyl t-butyl ether (MTBE) | | < | 2 | ug/L | | | | |
| | | trans-1,2-dichloroethene | | < | 2 | ug/L | | | | |
| | | 1,1-dichloroethane | | < | 2 | ug/L | | | | |
| | | 2-butanone (MEK) | | < | 10 | ug/L | | | | |
| | | 2,2-dichloropropane | | < | 2 | ug/L | | | | |
| | | cis-1,2-dichloroethene | | < | 2 | ug/L | | | | |
| | | chloroform | | < | 2 | ug/L | | | | |
| | | bromochloromethane | | < | 2 | ug/L | | | | |
| | | tetrahydrofuran (THF) | | < | 10 | ug/L | | | | |
| | | 1,1,1-trichloroethane | | < | 2 | ug/L | | | | |
| | | 1,1-dichloropropene | | < | 2 | ug/L | | | | |
| | | carbon tetrachloride | | < | 2 | ug/L | | | | |
| | | 1,2-dichloroethane | | < | 2 | ug/L | | | | |
| | | benzene | | < | 2 | ug/L | | | | |
| | | trichloroethene | | < | 2 | ug/L | | | | |
| | | 1,2-dichloropropane | | < | 2 | ug/L | | | | |
| | | bromodichloromethane | | < | 0.6 | ug/L | | | | |
| | | dibromomethane | | < | 2 | ug/L | | | | |
| | | 4-methyl-2-pentanone (MIBK) | | < | 10 | ug/L | | | | |
| | | cis-1,3-dichloropropene | | < | 2 | ug/L | | | | |
| | | toluene | | < | 2 | ug/L | | | | |
| | | trans-1,3-dichloropropene | | < | 2 | ug/L | | | | |
| | | 2-hexanone | | < | 10 | ug/L | | | | |
| | | 1,1,2-trichloroethane | | < | 2 | ug/L | | | | |
| | | 1,3-dichloropropane | | < | 2 | ug/L | | | | |
| | | tetrachloroethene | | < | 2 | ug/L | | | | |
| | | dibromochloromethane | | < | 2 | ug/L | | | | |
| | | 1,2-dibromoethane (EDB) | | < | 2 | ug/L | | | | |
| | | chlorobenzene | | < | 2 | ug/L | | | | |
| | | 1,1,1,2-tetrachloroethane | | < | 2 | ug/L | | | | |
| | | ethylbenzene | | < | 2 | ug/L | | | | |
| | | m&p-xylenes | | < | 2 | ug/L | | | | |
| | | o-xylene | | < | 2 | ug/L | | | | |
| | | styrene | | < | 2 | ug/L | | | | |
| | | bromoform | | < | 2 | ug/L | | | | |
| | | isopropylbenzene | | < | 2 | ug/L | | | | |
| | | 1,1,2,2-tetrachloroethane | | < | 2 | ug/L | | | | |
| | | 1,2,3-trichloropropane | | < | 2 | ug/L | | | | |
| | | n-propylbenzene | | < | 2 | ug/L | | | | |
| | | bromobenzene | | < | 2 | ug/L | | | | |

| Method | QC ID | Parameter | Associated Sample | | Result | Units Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SW5030B8260B | BLK1202467 | 1,3,5-trimethylbenzene | | < | 2 | ug/L | | | | | |
| | | 2-chlorotoluene | | < | 2 | ug/L | | | | | |
| | | 4-chlorotoluene | | < | 2 | ug/L | | | | | |
| | | tert-butylbenzene | | < | 2 | ug/L | | | | | |
| | | 1,2,4-trimethylbenzene | | < | 2 | ug/L | | | | | |
| | | sec-butylbenzene | | < | 2 | ug/L | | | | | |
| | | 1,3-dichlorobenzene | | < | 2 | ug/L | | | | | |
| | | 4-isopropyltoluene | | < | 2 | ug/L | | | | | |
| | | 1,4-dichlorobenzene | | < | 2 | ug/L | | | | | |
| | | 1,2-dichlorobenzene | | < | 2 | ug/L | | | | | |
| | | n-butylbenzene | | < | 2 | ug/L | | | | | |
| | | 1,2-dibromo-3-chloropropane | | < | 2 | ug/L | | | | | |
| | | 1,2,4-trichlorobenzene | | < | 2 | ug/L | | | | | |
| | | hexachlorobutadiene | | < | 0.5 | ug/L | | | | | |
| | | naphthalene | | < | 5 | ug/L | | | | | |
| | | 1,2,3-trichlorobenzene | | < | 2 | ug/L | | | | | |
| | | dibromofluoromethane SUR | | | 102 | % | | 78 | 114 | | |
| | | toluene-D8 SUR | | | 101 | % | | 88 | 110 | | |
| | | 4-bromofluorobenzene SUR | | | 107 | % | | 86 | 115 | | |

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW5030B8260B | LCS1202467 | dichlorodifluoromethane | | | 18 | ug/L | 20 | 89 | 70 | 130 | | |
| | | chloromethane | | | 19 | ug/L | 20 | 97 | 70 | 130 | | |
| | | vinyl chloride | | | 19 | ug/L | 20 | 97 | 70 | 130 | | |
| | | bromomethane | | | 15 | ug/L | 20 | 73 | 70 | 130 | | |
| | | chloroethane | | | 21 | ug/L | 20 | 106 | 70 | 130 | | |
| | | trichlorofluoromethane | | | 19 | ug/L | 20 | 96 | 70 | 130 | | |
| | | diethyl ether | | | 20 | ug/L | 20 | 102 | 70 | 130 | | |
| | | acetone | | < | 50 | ug/L | 20 | 109 | | | | |
| | | 1,1-dichloroethene | | | 19 | ug/L | 20 | 93 | 70 | 130 | | |
| | | methylene chloride | | | 22 | ug/L | 20 | 108 | 70 | 130 | | |
| | | carbon disulfide | | | 24 | ug/L | 20 | 122 | 70 | 130 | | |
| | | methyl t-butyl ether (MTBE) | | | 20 | ug/L | 20 | 100 | 70 | 130 | | |
| | | trans-1,2-dichloroethene | | | 20 | ug/L | 20 | 101 | 70 | 130 | | |
| | | 1,1-dichloroethane | | | 20 | ug/L | 20 | 99 | 70 | 130 | | |
| | | 2-butanone (MEK) | | | 23 | ug/L | 20 | 114 | 70 | 130 | | |
| | | 2,2-dichloropropane | | | 19 | ug/L | 20 | 95 | 70 | 130 | | |
| | | cis-1,2-dichloroethene | | | 21 | ug/L | 20 | 103 | 70 | 130 | | |
| | | chloroform | | | 20 | ug/L | 20 | 101 | 70 | 130 | | |
| | | bromochloromethane | | | 20 | ug/L | 20 | 102 | 70 | 130 | | |
| | | tetrahydrofuran (THF) | | | 20 | ug/L | 20 | 101 | 70 | 130 | | |
| | | 1,1,1-trichloroethane | | | 20 | ug/L | 20 | 101 | 70 | 130 | | |
| | | 1,1-dichloropropene | | | 21 | ug/L | 20 | 105 | 70 | 130 | | |
| | | carbon tetrachloride | | | 19 | ug/L | 20 | 96 | 70 | 130 | | |
| | | 1,2-dichloroethane | | | 19 | ug/L | 20 | 97 | 70 | 130 | | |
| | | benzene | | | 20 | ug/L | 20 | 99 | 70 | 130 | | |
| | | trichloroethene | | | 18 | ug/L | 20 | 92 | 70 | 130 | | |
| | | 1,2-dichloropropane | | | 19 | ug/L | 20 | 97 | 70 | 130 | | |
| | | bromodichloromethane | | | 20 | ug/L | 20 | 100 | 70 | 130 | | |
| | | dibromomethane | | | 20 | ug/L | 20 | 101 | 70 | 130 | | |
| | | 4-methyl-2-pentanone (MIBK) | | | 22 | ug/L | 20 | 109 | 70 | 130 | | |
| | | cis-1,3-dichloropropene | | | 20 | ug/L | 20 | 101 | 70 | 130 | | |
| | | toluene | | | 22 | ug/L | 20 | 108 | 70 | 130 | | |
| | | trans-1,3-dichloropropene | | | 19 | ug/L | 20 | 97 | 70 | 130 | | |
| | | 2-hexanone | | | 24 | ug/L | 20 | 118 | 70 | 130 | | |
| | | 1,1,2-trichloroethane | | | 20 | ug/L | 20 | 98 | 70 | 130 | | |
| | | 1,3-dichloropropane | | | 19 | ug/L | 20 | 96 | 70 | 130 | | |
| | | tetrachloroethene | | | 19 | ug/L | 20 | 94 | 70 | 130 | | |
| | | dibromochloromethane | | | 19 | ug/L | 20 | 95 | 70 | 130 | | |
| | | 1,2-dibromoethane (EDB) | | | 20 | ug/L | 20 | 98 | 70 | 130 | | |
| | | chlorobenzene | | | 21 | ug/L | 20 | 103 | 70 | 130 | | |
| | | 1,1,1,2-tetrachloroethane | | | 19 | ug/L | 20 | 96 | 70 | 130 | | |
| | | ethylbenzene | | | 19 | ug/L | 20 | 97 | 70 | 130 | | |
| | | m&p-xylenes | | | 41 | ug/L | 40 | 102 | 70 | 130 | | |
| | | o-xylene | | | 20 | ug/L | 20 | 102 | 70 | 130 | | |
| | | styrene | | | 20 | ug/L | 20 | 102 | 70 | 130 | | |
| | | bromoform | | | 20 | ug/L | 20 | 98 | 70 | 130 | | |
| | | isopropylbenzene | | | 19 | ug/L | 20 | 96 | 70 | 130 | | |
| | | 1,1,2,2-tetrachloroethane | | | 20 | ug/L | 20 | 101 | 70 | 130 | | |
| | | 1,2,3-trichloropropane | | | 19 | ug/L | 20 | 93 | 70 | 130 | | |
| | | n-propylbenzene | | | 19 | ug/L | 20 | 94 | 70 | 130 | | |
| | | bromobenzene | | | 19 | ug/L | 20 | 95 | 70 | 130 | | |

| Method | QC ID | Parameter | Associated Sample | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SW5030B8260B | LCS1202467 | 1,3,5-trimethylbenzene | | 19 | ug/L | 20 | 97 | 70 | 130 | | |
| | | 2-chlorotoluene | | 19 | ug/L | 20 | 97 | 70 | 130 | | |
| | | 4-chlorotoluene | | 20 | ug/L | 20 | 98 | 70 | 130 | | |
| | | tert-butylbenzene | | 19 | ug/L | 20 | 95 | 70 | 130 | | |
| | | 1,2,4-trimethylbenzene | | 19 | ug/L | 20 | 95 | 70 | 130 | | |
| | | sec-butylbenzene | | 20 | ug/L | 20 | 98 | 70 | 130 | | |
| | | 1,3-dichlorobenzene | | 19 | ug/L | 20 | 96 | 70 | 130 | | |
| | | 4-isopropyltoluene | | 19 | ug/L | 20 | 97 | 70 | 130 | | |
| | | 1,4-dichlorobenzene | | 19 | ug/L | 20 | 95 | 70 | 130 | | |
| | | 1,2-dichlorobenzene | | 20 | ug/L | 20 | 98 | 70 | 130 | | |
| | | n-butylbenzene | | 19 | ug/L | 20 | 96 | 70 | 130 | | |
| | | 1,2-dibromo-3-chloropropane | | 21 | ug/L | 20 | 103 | 70 | 130 | | |
| | | 1,2,4-trichlorobenzene | | 18 | ug/L | 20 | 89 | 70 | 130 | | |
| | | hexachlorobutadiene | | 18 | ug/L | 20 | 88 | 70 | 130 | | |
| | | naphthalene | | 20 | ug/L | 20 | 102 | 70 | 130 | | |
| | | 1,2,3-trichlorobenzene | | 19 | ug/L | 20 | 96 | 70 | 130 | | |
| | | dibromofluoromethane SUR | | 102 | % | | | 78 | 114 | | |
| | | toluene-D8 SUR | | 103 | % | | | 88 | 110 | | |
| | | 4-bromofluorobenzene SUR | | 105 | % | | | 86 | 115 | | |

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW5030B8260B | LCSD1202467 | dichlorodifluoromethane | | | 17 | ug/L | 20 | 87 | 70 | 130 | 2 | 20 |
| | | chloromethane | | | 17 | ug/L | 20 | 83 | 70 | 130 | 16 | 20 |
| | | vinyl chloride | | | 18 | ug/L | 20 | 91 | 70 | 130 | 6 | 20 |
| | | bromomethane | | | 14 | ug/L | 20 | 72 | 70 | 130 | 2 | 20 |
| | | chloroethane | | | 20 | ug/L | 20 | 99 | 70 | 130 | 7 | 20 |
| | | trichlorofluoromethane | | | 19 | ug/L | 20 | 96 | 70 | 130 | 0 | 20 |
| | | diethyl ether | | | 19 | ug/L | 20 | 97 | 70 | 130 | 6 | 20 |
| | | acetone | | < | 50 | ug/L | 20 | 105 | | | 4 | 20 |
| | | 1,1-dichloroethene | | | 17 | ug/L | 20 | 87 | 70 | 130 | 7 | 20 |
| | | methylene chloride | | | 20 | ug/L | 20 | 101 | 70 | 130 | 7 | 20 |
| | | carbon disulfide | | | 23 | ug/L | 20 | 114 | 70 | 130 | 6 | 20 |
| | | methyl t-butyl ether (MTBE) | | | 19 | ug/L | 20 | 95 | 70 | 130 | 5 | 20 |
| | | trans-1,2-dichloroethene | | | 19 | ug/L | 20 | 94 | 70 | 130 | 7 | 20 |
| | | 1,1-dichloroethane | | | 18 | ug/L | 20 | 91 | 70 | 130 | 9 | 20 |
| | | 2-butanone (MEK) | | | 23 | ug/L | 20 | 114 | 70 | 130 | 0 | 20 |
| | | 2,2-dichloropropane | | | 17 | ug/L | 20 | 87 | 70 | 130 | 9 | 20 |
| | | cis-1,2-dichloroethene | | | 19 | ug/L | 20 | 95 | 70 | 130 | 9 | 20 |
| | | chloroform | | | 19 | ug/L | 20 | 94 | 70 | 130 | 7 | 20 |
| | | bromochloromethane | | | 19 | ug/L | 20 | 96 | 70 | 130 | 6 | 20 |
| | | tetrahydrofuran (THF) | | | 19 | ug/L | 20 | 96 | 70 | 130 | 5 | 20 |
| | | 1,1,1-trichloroethane | | | 19 | ug/L | 20 | 93 | 70 | 130 | 8 | 20 |
| | | 1,1-dichloropropene | | | 20 | ug/L | 20 | 99 | 70 | 130 | 7 | 20 |
| | | carbon tetrachloride | | | 18 | ug/L | 20 | 92 | 70 | 130 | 4 | 20 |
| | | 1,2-dichloroethane | | | 18 | ug/L | 20 | 90 | 70 | 130 | 8 | 20 |
| | | benzene | | | 18 | ug/L | 20 | 91 | 70 | 130 | 8 | 20 |
| | | trichloroethene | | | 17 | ug/L | 20 | 85 | 70 | 130 | 8 | 20 |
| | | 1,2-dichloropropane | | | 18 | ug/L | 20 | 88 | 70 | 130 | 9 | 20 |
| | | bromodichloromethane | | | 19 | ug/L | 20 | 93 | 70 | 130 | 8 | 20 |
| | | dibromomethane | | | 18 | ug/L | 20 | 92 | 70 | 130 | 9 | 20 |
| | | 4-methyl-2-pentanone (MIBK) | | | 22 | ug/L | 20 | 108 | 70 | 130 | 1 | 20 |
| | | cis-1,3-dichloropropene | | | 19 | ug/L | 20 | 93 | 70 | 130 | 7 | 20 |
| | | toluene | | | 19 | ug/L | 20 | 97 | 70 | 130 | 11 | 20 |
| | | trans-1,3-dichloropropene | | | 18 | ug/L | 20 | 91 | 70 | 130 | 6 | 20 |
| | | 2-hexanone | | | 23 | ug/L | 20 | 116 | 70 | 130 | 2 | 20 |
| | | 1,1,2-trichloroethane | | | 19 | ug/L | 20 | 93 | 70 | 130 | 5 | 20 |
| | | 1,3-dichloropropane | | | 19 | ug/L | 20 | 94 | 70 | 130 | 2 | 20 |
| | | tetrachloroethene | | | 19 | ug/L | 20 | 93 | 70 | 130 | 1 | 20 |
| | | dibromochloromethane | | | 19 | ug/L | 20 | 93 | 70 | 130 | 2 | 20 |
| | | 1,2-dibromoethane (EDB) | | | 19 | ug/L | 20 | 95 | 70 | 130 | 3 | 20 |
| | | chlorobenzene | | | 19 | ug/L | 20 | 96 | 70 | 130 | 7 | 20 |
| | | 1,1,1,2-tetrachloroethane | | | 19 | ug/L | 20 | 95 | 70 | 130 | 2 | 20 |
| | | ethylbenzene | | | 19 | ug/L | 20 | 94 | 70 | 130 | 4 | 20 |
| | | m&p-xylenes | | | 38 | ug/L | 40 | 96 | 70 | 130 | 6 | 20 |
| | | o-xylene | | | 19 | ug/L | 20 | 96 | 70 | 130 | 6 | 20 |
| | | styrene | | | 20 | ug/L | 20 | 98 | 70 | 130 | 4 | 20 |
| | | bromoform | | | 20 | ug/L | 20 | 98 | 70 | 130 | 0 | 20 |
| | | isopropylbenzene | | | 18 | ug/L | 20 | 92 | 70 | 130 | 4 | 20 |
| | | 1,1,2,2-tetrachloroethane | | | 20 | ug/L | 20 | 101 | 70 | 130 | 0 | 20 |
| | | 1,2,3-trichloropropane | | | 19 | ug/L | 20 | 95 | 70 | 130 | 2 | 20 |
| | | n-propylbenzene | | | 18 | ug/L | 20 | 91 | 70 | 130 | 3 | 20 |
| | | bromobenzene | | | 18 | ug/L | 20 | 92 | 70 | 130 | 3 | 20 |

| Method | QC ID | Parameter | Associated Sample | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SW5030B8260B | LCSD1202467 | 1,3,5-trimethylbenzene | | 18 | ug/L | 20 | 92 | 70 | 130 | 5 | 20 |
| | | 2-chlorotoluene | | 18 | ug/L | 20 | 89 | 70 | 130 | 8 | 20 |
| | | 4-chlorotoluene | | 19 | ug/L | 20 | 95 | 70 | 130 | 3 | 20 |
| | | tert-butylbenzene | | 18 | ug/L | 20 | 90 | 70 | 130 | 6 | 20 |
| | | 1,2,4-trimethylbenzene | | 18 | ug/L | 20 | 92 | 70 | 130 | 4 | 20 |
| | | sec-butylbenzene | | 19 | ug/L | 20 | 96 | 70 | 130 | 2 | 20 |
| | | 1,3-dichlorobenzene | | 18 | ug/L | 20 | 91 | 70 | 130 | 6 | 20 |
| | | 4-isopropyltoluene | | 18 | ug/L | 20 | 92 | 70 | 130 | 6 | 20 |
| | | 1,4-dichlorobenzene | | 18 | ug/L | 20 | 91 | 70 | 130 | 4 | 20 |
| | | 1,2-dichlorobenzene | | 18 | ug/L | 20 | 92 | 70 | 130 | 6 | 20 |
| | | n-butylbenzene | | 19 | ug/L | 20 | 93 | 70 | 130 | 3 | 20 |
| | | 1,2-dibromo-3-chloropropane | | 21 | ug/L | 20 | 104 | 70 | 130 | 1 | 20 |
| | | 1,2,4-trichlorobenzene | | 17 | ug/L | 20 | 87 | 70 | 130 | 2 | 20 |
| | | hexachlorobutadiene | | 18 | ug/L | 20 | 88 | 70 | 130 | 0 | 20 |
| | | naphthalene | | 20 | ug/L | 20 | 100 | 70 | 130 | 1 | 20 |
| | | 1,2,3-trichlorobenzene | | 19 | ug/L | 20 | 94 | 70 | 130 | 2 | 20 |
| | | dibromofluoromethane SUR | | 102 | % | | | 78 | 114 | | |
| | | toluene-D8 SUR | | 101 | % | | | 88 | 110 | | |
| | | 4-bromofluorobenzene SUR | | 106 | % | | | 86 | 115 | | |

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MA EPH | BLK5562 | naphthalene | | < | 0.5 | ug/L | | | | | | |
| | | 2-methylnaphthalene | | < | 0.5 | ug/L | | | | | | |
| | | phenanthrene | | < | 0.5 | ug/L | | | | | | |
| | | acenaphthene | | < | 0.5 | ug/L | | | | | | |
| | | acenaphthylene | | < | 0.5 | ug/L | | | | | | |
| | | fluorene | | < | 0.5 | ug/L | | | | | | |
| | | anthracene | | < | 0.5 | ug/L | | | | | | |
| | | fluoranthene | | < | 0.5 | ug/L | | | | | | |
| | | pyrene | | < | 0.5 | ug/L | | | | | | |
| | | benzo(a)anthracene | | < | 0.5 | ug/L | | | | | | |
| | | chrysene | | < | 0.5 | ug/L | | | | | | |
| | | benzo(b)fluoranthene | | < | 0.5 | ug/L | | | | | | |
| | | benzo(k)fluoranthene | | < | 0.5 | ug/L | | | | | | |
| | | benzo(a)pyrene | | < | 0.2 | ug/L | | | | | | |
| | | indeno(1,2,3-cd)pyrene | | < | 0.5 | ug/L | | | | | | |
| | | dibenzo(a,h)anthracene | | < | 0.5 | ug/L | | | | | | |
| | | benzo(g,h,i)perylene | | < | 0.5 | ug/L | | | | | | |
| | | Unadjusted C11-C22 Aromatics | | < | 100 | ug/L | | | | | | |
| | | C9-C18 Aliphatics | | < | 100 | ug/L | | | | | | |
| | | C19-C36 Aliphatics | | < | 100 | ug/L | | | | | | |
| | | C11-C22 Aromatics | | < | 100 | ug/L | | | | | | |
| | | 1-chloro-octadecane SUR | | | 65 | % | | | 40 | 140 | | |
| | | o-terphenyl SUR | | | 85 | % | | | 40 | 140 | | |
| | | 2-fluorobiphenyl SUR | | | 126 | % | | | 40 | 140 | | |
| | | 2-bromonaphthalene SUR | | | 135 | % | | | 40 | 140 | | |
| MA EPH | LCS5562 | naphthalene | | | 40 | ug/L | 60 | 67 | 40 | 140 | | |
| | | 2-methylnaphthalene | | | 39 | ug/L | 60 | 64 | 40 | 140 | | |
| | | phenanthrene | | | 47 | ug/L | 60 | 78 | 40 | 140 | | |
| | | acenaphthene | | | 43 | ug/L | 60 | 72 | 40 | 140 | | |
| | | acenaphthylene | | | 45 | ug/L | 60 | 75 | 40 | 140 | | |
| | | fluorene | | | 38 | ug/L | 60 | 63 | 40 | 140 | | |
| | | anthracene | | | 43 | ug/L | 60 | 71 | 40 | 140 | | |
| | | fluoranthene | | | 46 | ug/L | 60 | 76 | 40 | 140 | | |
| | | pyrene | | | 54 | ug/L | 60 | 91 | 40 | 140 | | |
| | | benzo(a)anthracene | | | 49 | ug/L | 60 | 82 | 40 | 140 | | |
| | | chrysene | | | 51 | ug/L | 60 | 86 | 40 | 140 | | |
| | | benzo(b)fluoranthene | | | 51 | ug/L | 60 | 84 | 40 | 140 | | |
| | | benzo(k)fluoranthene | | | 55 | ug/L | 60 | 92 | 40 | 140 | | |
| | | benzo(a)pyrene | | | 51 | ug/L | 60 | 84 | 40 | 140 | | |
| | | indeno(1,2,3-cd)pyrene | | | 51 | ug/L | 60 | 85 | 40 | 140 | | |
| | | dibenzo(a,h)anthracene | | | 52 | ug/L | 60 | 86 | 40 | 140 | | |
| | | benzo(g,h,i)perylene | | | 51 | ug/L | 60 | 85 | 40 | 140 | | |
| | | Unadjusted C11-C22 Aromatics | | | 760 | ug/L | 1020 | 75 | 40 | 140 | | |
| | | C9-C18 Aliphatics | | | 280 | ug/L | 360 | 78 | 40 | 140 | | |
| | | C19-C36 Aliphatics | | | 430 | ug/L | 480 | 90 | 40 | 140 | | |
| | | C11-C22 Aromatics | | < | 100 | ug/L | | | | | | |
| | | 1-chloro-octadecane SUR | | | 67 | % | | | 40 | 140 | | |
| | | o-terphenyl SUR | | | 85 | % | | | 40 | 140 | | |
| | | 2-fluorobiphenyl SUR | | | 121 | % | | | 40 | 140 | | |
| | | 2-bromonaphthalene SUR | | | 113 | % | | | 40 | 140 | | |

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MA EPH | LCSD5562 | naphthalene | | | 43 | ug/L | 60 | 71 | 40 | 140 | 7 | 25 |
| | | 2-methylnaphthalene | | | 41 | ug/L | 60 | 68 | 40 | 140 | 5 | 25 |
| | | phenanthrene | | | 46 | ug/L | 60 | 77 | 40 | 140 | 1 | 25 |
| | | acenaphthene | | | 44 | ug/L | 60 | 74 | 40 | 140 | 2 | 25 |
| | | acenaphthylene | | | 46 | ug/L | 60 | 76 | 40 | 140 | 1 | 25 |
| | | fluorene | | | 41 | ug/L | 60 | 69 | 40 | 140 | 9 | 25 |
| | | anthracene | | | 42 | ug/L | 60 | 71 | 40 | 140 | 1 | 25 |
| | | fluoranthene | | | 38 | ug/L | 60 | 64 | 40 | 140 | 18 | 25 |
| | | pyrene | | | 53 | ug/L | 60 | 88 | 40 | 140 | 3 | 25 |
| | | benzo(a)anthracene | | | 51 | ug/L | 60 | 84 | 40 | 140 | 3 | 25 |
| | | chrysene | | | 52 | ug/L | 60 | 87 | 40 | 140 | 1 | 25 |
| | | benzo(b)fluoranthene | | | 54 | ug/L | 60 | 89 | 40 | 140 | 6 | 25 |
| | | benzo(k)fluoranthene | | | 52 | ug/L | 60 | 87 | 40 | 140 | 5 | 25 |
| | | benzo(a)pyrene | | | 51 | ug/L | 60 | 85 | 40 | 140 | 0 | 25 |
| | | indeno(1,2,3-cd)pyrene | | | 51 | ug/L | 60 | 85 | 40 | 140 | 0 | 25 |
| | | dibenzo(a,h)anthracene | | | 52 | ug/L | 60 | 87 | 40 | 140 | 0 | 25 |
| | | benzo(g,h,i)perylene | | | 51 | ug/L | 60 | 85 | 40 | 140 | 0 | 25 |
| | | Unadjusted C11-C22 Aromatics | | | 680 | ug/L | 1020 | 67 | 40 | 140 | 11 | 25 |
| | | C9-C18 Aliphatics | | | 290 | ug/L | 360 | 81 | 40 | 140 | 3 | 25 |
| | | C19-C36 Aliphatics | | | 490 | ug/L | 480 | 102 | 40 | 140 | 12 | 25 |
| | | C11-C22 Aromatics | | < | 100 | ug/L | | | | | | |
| | | 1-chloro-octadecane SUR | | | 71 | % | | | 40 | 140 | | |
| | | o-terphenyl SUR | | | 79 | % | | | 40 | 140 | | |
| | | 2-fluorobiphenyl SUR | | | 113 | % | | | 40 | 140 | | |
| | | 2-bromonaphthalene SUR | | | 103 | % | | | 40 | 140 | | |

| | |
|---|---|
| Lab Number: | NBT LCS5562 |
| Sample Designation: | Laboratory Control Sample 5562W |
| Date Sampled: | N/A |
| Date Received: | N/A |
| Date Extracted: | 10/11/12 |
| Matrix: | Water |
| Containers: | N/A |
| Sample Preservation: | N/A |
| Temperature: | N/A |
| Dilution Factor: | 1 |
| Analyst: | JLZ |

**NAPHTHALENE BREAKTHROUGH CALCULATION**

Method for Ranges: MADEP EPH 2004-1.1

Method for Target Analytes: EPA 8270C

| | LCS Aliphatic Breakthrough (%) | Acceptance Criteria | Date of Analysis |
|---|---|---|---|
| naphthalene | 0.3% | <5.0% | 10/17/12 |
| 2-methylnaphthalene | 0.3% | <5.0% | 10/17/12 |

Absolute Resource associates

| | |
|---|---|
| Lab Number: | NBT LCSD5562 |
| Sample Designation: | Laboratory Control Sample Duplicate 5562W |
| Date Sampled: | N/A |
| Date Received: | N/A |
| Date Extracted: | 10/11/12 |
| Matrix: | Water |
| Containers: | N/A |
| Sample Preservation: | N/A |
| Temperature: | N/A |
| Dilution Factor: | 1 |
| Analyst: | JLZ |

**NAPHTHALENE BREAKTHROUGH CALCULATION**

Method for Ranges: MADEP EPH 2004-1.1

Method for Target Analytes: EPA 8270C

| | LCSD Aliphatic Breakthrough (%) | Acceptance Criteria | Date of Analysis |
|---|---|---|---|
| naphthalene | 0.2% | <5.0% | 10/17/12 |
| 2-methylnaphthalene | 0.3% | <5.0% | 10/17/12 |

Absolute Resource associates

| Method | QC ID | Parameter | Associated Sample | | Result | Units Amt Added | %R | Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| SW3510C8270D | BLK5563 | N-nitrosodimethylamine | | < | 2 | ug/L | | | | |
| | | aniline | | < | 2 | ug/L | | | | |
| | | phenol | | < | 2 | ug/L | | | | |
| | | 2-chlorophenol | | < | 5 | ug/L | | | | |
| | | bis(2-chloroethyl)ether | | < | 2 | ug/L | | | | |
| | | 1,3-dichlorobenzene | | < | 2 | ug/L | | | | |
| | | 1,4-dichlorobenzene | | < | 2 | ug/L | | | | |
| | | 1,2-dichlorobenzene | | < | 2 | ug/L | | | | |
| | | benzyl alcohol | | < | 2 | ug/L | | | | |
| | | 2-methylphenol | | < | 2 | ug/L | | | | |
| | | bis(2-chloroisopropyl) ether | | < | 2 | ug/L | | | | |
| | | hexachloroethane | | < | 2 | ug/L | | | | |
| | | N-nitroso-di-N-propylamine | | < | 2 | ug/L | | | | |
| | | 4-methylphenol | | < | 2 | ug/L | | | | |
| | | nitrobenzene | | < | 2 | ug/L | | | | |
| | | isophorone | | < | 5 | ug/L | | | | |
| | | 2-nitrophenol | | < | 2 | ug/L | | | | |
| | | 2,4-dimethylphenol | | < | 2 | ug/L | | | | |
| | | bis(2-chloroethoxy)methane | | < | 5 | ug/L | | | | |
| | | 2,4-dichlorophenol | | < | 5 | ug/L | | | | |
| | | 1,2,4-trichlorobenzene | | < | 5 | ug/L | | | | |
| | | naphthalene | | < | 0.5 | ug/L | | | | |
| | | benzoic acid | | < | 50 | ug/L | | | | |
| | | 4-chloroaniline | | < | 2 | ug/L | | | | |
| | | hexachlorobutadiene | | < | 2 | ug/L | | | | |
| | | 4-chloro-3-methylphenol | | < | 2 | ug/L | | | | |
| | | 2-methylnaphthalene | | < | 0.5 | ug/L | | | | |
| | | hexachlorocyclopentadiene | | < | 10 | ug/L | | | | |
| | | 2,4,6-trichlorophenol | | < | 2 | ug/L | | | | |
| | | 2,4,5-trichlorophenol | | < | 2 | ug/L | | | | |
| | | 2-chloronaphthalene | | < | 5 | ug/L | | | | |
| | | 2-nitroaniline | | < | 2 | ug/L | | | | |
| | | acenaphthylene | | < | 0.5 | ug/L | | | | |
| | | dimethylphthalate | | < | 5 | ug/L | | | | |
| | | 2,6-dinitrotoluene | | < | 2 | ug/L | | | | |
| | | 2,4-dinitrotoluene | | < | 2 | ug/L | | | | |
| | | acenaphthene | | < | 0.5 | ug/L | | | | |
| | | 3-nitroaniline | | < | 2 | ug/L | | | | |
| | | 2,4-dinitrophenol | | < | 50 | ug/L | | | | |
| | | dibenzofuran | | < | 0.5 | ug/L | | | | |
| | | 4-nitrophenol | | < | 10 | ug/L | | | | |
| | | fluorene | | < | 0.5 | ug/L | | | | |
| | | diethyl phthalate | | < | 5 | ug/L | | | | |
| | | 4-chlorophenyl phenyl ether | | < | 5 | ug/L | | | | |
| | | 4-nitroaniline | | < | 5 | ug/L | | | | |
| | | 4,6-dinitro-2-methylphenol | | < | 20 | ug/L | | | | |
| | | azobenzene | | < | 2 | ug/L | | | | |
| | | N-nitrosodiphenylamine | | < | 2 | ug/L | | | | |
| | | 4-bromophenyl phenyl ether | | < | 2 | ug/L | | | | |
| | | hexachlorobenzene | | < | 2 | ug/L | | | | |
| | | pentachlorophenol | | < | 10 | ug/L | | | | |

| Method | QC ID | Parameter | Associated Sample | | Result | Units Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3510C8270D | BLK5563 | phenanthrene | | < | 0.5 | ug/L | | | | | |
| | | anthracene | | < | 0.5 | ug/L | | | | | |
| | | carbazole | | < | 2 | ug/L | | | | | |
| | | di-n-butylphthalate | | < | 5 | ug/L | | | | | |
| | | fluoranthene | | < | 0.5 | ug/L | | | | | |
| | | benzidine | | < | 30 | ug/L | | | | | |
| | | pyrene | | < | 0.5 | ug/L | | | | | |
| | | butyl benzyl phthalate | | < | 5 | ug/L | | | | | |
| | | benzo(a)anthracene | | < | 0.5 | ug/L | | | | | |
| | | chrysene | | < | 0.5 | ug/L | | | | | |
| | | 3,3'-dichlorobenzidine | | < | 30 | ug/L | | | | | |
| | | bis(2-ethylhexyl)phthalate | | < | 5 | ug/L | | | | | |
| | | di-n-octyl phthalate | | < | 2 | ug/L | | | | | |
| | | benzo(b)fluoranthene | | < | 0.5 | ug/L | | | | | |
| | | benzo(k)fluoranthene | | < | 0.5 | ug/L | | | | | |
| | | benzo(a)pyrene | | < | 0.2 | ug/L | | | | | |
| | | indeno(1,2,3-cd)pyrene | | < | 0.5 | ug/L | | | | | |
| | | dibenzo(a,h)anthracene | | < | 0.5 | ug/L | | | | | |
| | | benzo(g,h,i)perylene | | < | 0.5 | ug/L | | | | | |
| | | 2-fluorophenol SUR | | | 28 | % | | 21 | 100 | | |
| | | phenol-D5 SUR | | | 17 | % | | 10 | 102 | | |
| | | 2,4,6-tribromophenol SUR | | | 68 | % | | 10 | 123 | | |
| | | nitrobenzene-D5 SUR | | | 57 | % | | 35 | 114 | | |
| | | 2-fluorobiphenyl SUR | | | 67 | % | | 43 | 116 | | |
| | | p-terphenyl-D14 SUR | | | 87 | % | | 33 | 141 | | |

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3510C8270D | LCS5563 | N-nitrosodimethylamine | | | 9 | ug/L | 40 | 22 | * | 40 | 140 | | |
| | | aniline | | | 17 | ug/L | 40 | 42 | | 40 | 140 | | |
| | | phenol | | | 6 | ug/L | 40 | 16 | * | 30 | 130 | | |
| | | 2-chlorophenol | | | 22 | ug/L | 40 | 54 | | 30 | 130 | | |
| | | bis(2-chloroethyl)ether | | | 26 | ug/L | 40 | 66 | | 40 | 140 | | |
| | | 1,3-dichlorobenzene | | | 17 | ug/L | 40 | 43 | | 40 | 140 | | |
| | | 1,4-dichlorobenzene | | | 18 | ug/L | 40 | 46 | | 40 | 140 | | |
| | | 1,2-dichlorobenzene | | | 20 | ug/L | 40 | 49 | | 40 | 140 | | |
| | | benzyl alcohol | | | 16 | ug/L | 40 | 41 | | 30 | 130 | | |
| | | 2-methylphenol | | | 17 | ug/L | 40 | 41 | | 30 | 130 | | |
| | | bis(2-chloroisopropyl) ether | | | 23 | ug/L | 40 | 57 | | 40 | 140 | | |
| | | hexachloroethane | | | 18 | ug/L | 40 | 44 | | 40 | 140 | | |
| | | N-nitroso-di-N-propylamine | | | 22 | ug/L | 40 | 56 | | 40 | 140 | | |
| | | 4-methylphenol | | | 16 | ug/L | 40 | 39 | | 30 | 130 | | |
| | | nitrobenzene | | | 22 | ug/L | 40 | 55 | | 40 | 140 | | |
| | | isophorone | | | 24 | ug/L | 40 | 59 | | 40 | 140 | | |
| | | 2-nitrophenol | | | 25 | ug/L | 40 | 62 | | 30 | 130 | | |
| | | 2,4-dimethylphenol | | | 12 | ug/L | 40 | 30 | | 30 | 130 | | |
| | | bis(2-chloroethoxy)methane | | | 25 | ug/L | 40 | 62 | | 40 | 140 | | |
| | | 2,4-dichlorophenol | | | 25 | ug/L | 40 | 64 | | 30 | 130 | | |
| | | 1,2,4-trichlorobenzene | | | 21 | ug/L | 40 | 51 | | 40 | 140 | | |
| | | naphthalene | | | 22 | ug/L | 40 | 55 | | 40 | 140 | | |
| | | benzoic acid | | < | 50 | ug/L | | | | | | | |
| | | 4-chloroaniline | | | 29 | ug/L | 40 | 71 | | 40 | 140 | | |
| | | hexachlorobutadiene | | | 20 | ug/L | 40 | 49 | | 40 | 140 | | |
| | | 4-chloro-3-methylphenol | | | 23 | ug/L | 40 | 57 | | 30 | 130 | | |
| | | 2-methylnaphthalene | | | 22 | ug/L | 40 | 56 | | 40 | 140 | | |
| | | hexachlorocyclopentadiene | | < | 10 | ug/L | 40 | 8 | * | 40 | 140 | | |
| | | 2,4,6-trichlorophenol | | | 29 | ug/L | 40 | 72 | | 30 | 130 | | |
| | | 2,4,5-trichlorophenol | | | 26 | ug/L | 40 | 64 | | 30 | 130 | | |
| | | 2-chloronaphthalene | | | 24 | ug/L | 40 | 60 | | 40 | 140 | | |
| | | 2-nitroaniline | | | 27 | ug/L | 40 | 68 | | 40 | 140 | | |
| | | acenaphthylene | | | 24 | ug/L | 40 | 59 | | 40 | 140 | | |
| | | dimethylphthalate | | | 12 | ug/L | 40 | 30 | * | 40 | 140 | | |
| | | 2,6-dinitrotoluene | | | 28 | ug/L | 40 | 71 | | 40 | 140 | | |
| | | 2,4-dinitrotoluene | | | 27 | ug/L | 40 | 68 | | 40 | 140 | | |
| | | acenaphthene | | | 25 | ug/L | 40 | 61 | | 40 | 140 | | |
| | | 3-nitroaniline | | | 31 | ug/L | 40 | 78 | | 40 | 140 | | |
| | | 2,4-dinitrophenol | | < | 50 | ug/L | | | | | | | |
| | | dibenzofuran | | | 24 | ug/L | 40 | 60 | | 40 | 140 | | |
| | | 4-nitrophenol | | < | 10 | ug/L | 40 | 19 | * | 30 | 130 | | |
| | | fluorene | | | 26 | ug/L | 40 | 65 | | 40 | 140 | | |
| | | diethyl phthalate | | | 21 | ug/L | 40 | 52 | | 40 | 140 | | |
| | | 4-chlorophenyl phenyl ether | | | 26 | ug/L | 40 | 65 | | 40 | 140 | | |
| | | 4-nitroaniline | | | 24 | ug/L | 40 | 61 | | 40 | 140 | | |
| | | 4,6-dinitro-2-methylphenol | | < | 20 | ug/L | | | | | | | |
| | | azobenzene | | | 24 | ug/L | 40 | 60 | | 40 | 140 | | |
| | | N-nitrosodiphenylamine | | | 27 | ug/L | 40 | 68 | | 40 | 140 | | |
| | | 4-bromophenyl phenyl ether | | | 25 | ug/L | 40 | 63 | | 40 | 140 | | |
| | | hexachlorobenzene | | | 25 | ug/L | 40 | 61 | | 40 | 140 | | |
| | | pentachlorophenol | | | 25 | ug/L | 40 | 62 | | 30 | 130 | | |

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3510C8270D | LCS5563 | phenanthrene | | | 25 | ug/L | 40 | 63 | 40 | 140 | | |
| | | anthracene | | | 24 | ug/L | 40 | 60 | 40 | 140 | | |
| | | carbazole | | | 27 | ug/L | 40 | 66 | 40 | 140 | | |
| | | di-n-butylphthalate | | | 26 | ug/L | 40 | 64 | 40 | 140 | | |
| | | fluoranthene | | | 26 | ug/L | 40 | 64 | 40 | 140 | | |
| | | benzidine | | < | 30 | ug/L | | | | | | |
| | | pyrene | | | 32 | ug/L | 40 | 80 | 40 | 140 | | |
| | | butyl benzyl phthalate | | | 25 | ug/L | 40 | 62 | 40 | 140 | | |
| | | benzo(a)anthracene | | | 27 | ug/L | 40 | 67 | 40 | 140 | | |
| | | chrysene | | | 26 | ug/L | 40 | 64 | 40 | 140 | | |
| | | 3,3'-dichlorobenzidine | | < | 30 | ug/L | | | | | | |
| | | bis(2-ethylhexyl)phthalate | | | 28 | ug/L | 40 | 69 | 40 | 140 | | |
| | | di-n-octyl phthalate | | | 35 | ug/L | 40 | 86 | 40 | 140 | | |
| | | benzo(b)fluoranthene | | | 30 | ug/L | 40 | 74 | 40 | 140 | | |
| | | benzo(k)fluoranthene | | | 34 | ug/L | 40 | 85 | 40 | 140 | | |
| | | benzo(a)pyrene | | | 30 | ug/L | 40 | 75 | 40 | 140 | | |
| | | indeno(1,2,3-cd)pyrene | | | 31 | ug/L | 40 | 77 | 40 | 140 | | |
| | | dibenzo(a,h)anthracene | | | 31 | ug/L | 40 | 78 | 40 | 140 | | |
| | | benzo(g,h,i)perylene | | | 31 | ug/L | 40 | 78 | 40 | 140 | | |
| | | 2-fluorophenol SUR | | | 28 | % | | | 21 | 100 | | |
| | | phenol-D5 SUR | | | 16 | % | | | 10 | 102 | | |
| | | 2,4,6-tribromophenol SUR | | | 75 | % | | | 10 | 123 | | |
| | | nitrobenzene-D5 SUR | | | 57 | % | | | 35 | 114 | | |
| | | 2-fluorobiphenyl SUR | | | 67 | % | | | 43 | 116 | | |
| | | p-terphenyl-D14 SUR | | | 82 | % | | | 33 | 141 | | |

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3510C8270D | LCSD5563 | N-nitrosodimethylamine | | | 8 | ug/L | 40 | 20 | * | 40 | 140 | 6 | 20 |
| | | aniline | | | 17 | ug/L | 40 | 42 | | 40 | 140 | 1 | 20 |
| | | phenol | | | 7 | ug/L | 40 | 17 | * | 30 | 130 | 6 | 20 |
| | | 2-chlorophenol | | | 23 | ug/L | 40 | 57 | | 30 | 130 | 6 | 20 |
| | | bis(2-chloroethyl)ether | | | 28 | ug/L | 40 | 69 | | 40 | 140 | 5 | 20 |
| | | 1,3-dichlorobenzene | | | 17 | ug/L | 40 | 43 | | 40 | 140 | 1 | 20 |
| | | 1,4-dichlorobenzene | | | 18 | ug/L | 40 | 46 | | 40 | 140 | 1 | 20 |
| | | 1,2-dichlorobenzene | | | 20 | ug/L | 40 | 49 | | 40 | 140 | 0 | 20 |
| | | benzyl alcohol | | | 16 | ug/L | 40 | 40 | | 30 | 130 | 2 | 20 |
| | | 2-methylphenol | | | 17 | ug/L | 40 | 43 | | 30 | 130 | 4 | 20 |
| | | bis(2-chloroisopropyl) ether | | | 23 | ug/L | 40 | 57 | | 40 | 140 | 0 | 20 |
| | | hexachloroethane | | | 16 | ug/L | 40 | 40 | | 40 | 140 | 9 | 20 |
| | | N-nitroso-di-N-propylamine | | | 23 | ug/L | 40 | 57 | | 40 | 140 | 1 | 20 |
| | | 4-methylphenol | | | 17 | ug/L | 40 | 42 | | 30 | 130 | 7 | 20 |
| | | nitrobenzene | | | 23 | ug/L | 40 | 57 | | 40 | 140 | 4 | 20 |
| | | isophorone | | | 24 | ug/L | 40 | 59 | | 40 | 140 | 0 | 20 |
| | | 2-nitrophenol | | | 26 | ug/L | 40 | 64 | | 30 | 130 | 3 | 20 |
| | | 2,4-dimethylphenol | | | 14 | ug/L | 40 | 34 | | 30 | 130 | 14 | 20 |
| | | bis(2-chloroethoxy)methane | | | 25 | ug/L | 40 | 63 | | 40 | 140 | 1 | 20 |
| | | 2,4-dichlorophenol | | | 27 | ug/L | 40 | 68 | | 30 | 130 | 7 | 20 |
| | | 1,2,4-trichlorobenzene | | | 21 | ug/L | 40 | 53 | | 40 | 140 | 3 | 20 |
| | | naphthalene | | | 22 | ug/L | 40 | 56 | | 40 | 140 | 1 | 20 |
| | | benzoic acid | | < | 50 | ug/L | | | | | | | |
| | | 4-chloroaniline | | | 28 | ug/L | 40 | 70 | | 40 | 140 | 1 | 20 |
| | | hexachlorobutadiene | | | 20 | ug/L | 40 | 49 | | 40 | 140 | 1 | 20 |
| | | 4-chloro-3-methylphenol | | | 25 | ug/L | 40 | 63 | | 30 | 130 | 10 | 20 |
| | | 2-methylnaphthalene | | | 22 | ug/L | 40 | 56 | | 40 | 140 | 1 | 20 |
| | | hexachlorocyclopentadiene | | < | 10 | ug/L | 40 | 8 | * | 40 | 140 | 1 | 20 |
| | | 2,4,6-trichlorophenol | | | 30 | ug/L | 40 | 76 | | 30 | 130 | 6 | 20 |
| | | 2,4,5-trichlorophenol | | | 29 | ug/L | 40 | 72 | | 30 | 130 | 11 | 20 |
| | | 2-chloronaphthalene | | | 24 | ug/L | 40 | 59 | | 40 | 140 | 1 | 20 |
| | | 2-nitroaniline | | | 27 | ug/L | 40 | 68 | | 40 | 140 | 1 | 20 |
| | | acenaphthylene | | | 23 | ug/L | 40 | 58 | | 40 | 140 | 3 | 20 |
| | | dimethylphthalate | | | 11 | ug/L | 40 | 28 | * | 40 | 140 | 7 | 20 |
| | | 2,6-dinitrotoluene | | | 28 | ug/L | 40 | 70 | | 40 | 140 | 1 | 20 |
| | | 2,4-dinitrotoluene | | | 27 | ug/L | 40 | 67 | | 40 | 140 | 1 | 20 |
| | | acenaphthene | | | 23 | ug/L | 40 | 59 | | 40 | 140 | 5 | 20 |
| | | 3-nitroaniline | | | 31 | ug/L | 40 | 78 | | 40 | 140 | 0 | 20 |
| | | 2,4-dinitrophenol | | < | 50 | ug/L | | | | | | | |
| | | dibenzofuran | | | 24 | ug/L | 40 | 59 | | 40 | 140 | 2 | 20 |
| | | 4-nitrophenol | | < | 10 | ug/L | 40 | 21 | * | 30 | 130 | 13 | 20 |
| | | fluorene | | | 26 | ug/L | 40 | 64 | | 40 | 140 | 1 | 20 |
| | | diethyl phthalate | | | 21 | ug/L | 40 | 54 | | 40 | 140 | 3 | 20 |
| | | 4-chlorophenyl phenyl ether | | | 26 | ug/L | 40 | 65 | | 40 | 140 | 1 | 20 |
| | | 4-nitroaniline | | | 25 | ug/L | 40 | 62 | | 40 | 140 | 1 | 20 |
| | | 4,6-dinitro-2-methylphenol | | | 21 | ug/L | | | | | | | |
| | | azobenzene | | | 24 | ug/L | 40 | 60 | | 40 | 140 | 0 | 20 |
| | | N-nitrosodiphenylamine | | | 25 | ug/L | 40 | 62 | | 40 | 140 | 9 | 20 |
| | | 4-bromophenyl phenyl ether | | | 24 | ug/L | 40 | 61 | | 40 | 140 | 3 | 20 |
| | | hexachlorobenzene | | | 24 | ug/L | 40 | 60 | | 40 | 140 | 2 | 20 |
| | | pentachlorophenol | | | 28 | ug/L | 40 | 71 | | 30 | 130 | 13 | 20 |

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3510C8270D | LCSD5563 | phenanthrene | | | 25 | ug/L | 40 | 62 | 40 | 140 | 3 | 20 |
| | | anthracene | | | 23 | ug/L | 40 | 58 | 40 | 140 | 4 | 20 |
| | | carbazole | | | 26 | ug/L | 40 | 64 | 40 | 140 | 3 | 20 |
| | | di-n-butylphthalate | | | 25 | ug/L | 40 | 62 | 40 | 140 | 4 | 20 |
| | | fluoranthene | | | 24 | ug/L | 40 | 61 | 40 | 140 | 5 | 20 |
| | | benzidine | | < | 30 | ug/L | | | | | | |
| | | pyrene | | | 29 | ug/L | 40 | 74 | 40 | 140 | 9 | 20 |
| | | butyl benzyl phthalate | | | 24 | ug/L | 40 | 59 | 40 | 140 | 5 | 20 |
| | | benzo(a)anthracene | | | 25 | ug/L | 40 | 63 | 40 | 140 | 6 | 20 |
| | | chrysene | | | 24 | ug/L | 40 | 61 | 40 | 140 | 6 | 20 |
| | | 3,3'-dichlorobenzidine | | < | 30 | ug/L | | | | | | |
| | | bis(2-ethylhexyl)phthalate | | | 26 | ug/L | 40 | 64 | 40 | 140 | 7 | 20 |
| | | di-n-octyl phthalate | | | 32 | ug/L | 40 | 81 | 40 | 140 | 6 | 20 |
| | | benzo(b)fluoranthene | | | 31 | ug/L | 40 | 77 | 40 | 140 | 4 | 20 |
| | | benzo(k)fluoranthene | | | 28 | ug/L | 40 | 71 | 40 | 140 | 18 | 20 |
| | | benzo(a)pyrene | | | 28 | ug/L | 40 | 71 | 40 | 140 | 6 | 20 |
| | | indeno(1,2,3-cd)pyrene | | | 29 | ug/L | 40 | 72 | 40 | 140 | 7 | 20 |
| | | dibenzo(a,h)anthracene | | | 29 | ug/L | 40 | 72 | 40 | 140 | 7 | 20 |
| | | benzo(g,h,i)perylene | | | 29 | ug/L | 40 | 72 | 40 | 140 | 8 | 20 |
| | | 2-fluorophenol SUR | | | 29 | % | | | 21 | 100 | | |
| | | phenol-D5 SUR | | | 17 | % | | | 10 | 102 | | |
| | | 2,4,6-tribromophenol SUR | | | 82 | % | | | 10 | 123 | | |
| | | nitrobenzene-D5 SUR | | | 62 | % | | | 35 | 114 | | |
| | | 2-fluorobiphenyl SUR | | | 66 | % | | | 43 | 116 | | |
| | | p-terphenyl-D14 SUR | | | 77 | % | | | 33 | 141 | | |

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3005A6010C | BLK5569 | Silver | | < | 0.005 | mg/L | | | | | | |
| | | Arsenic | | < | 0.008 | mg/L | | | | | | |
| | | Barium | | < | 0.05 | mg/L | | | | | | |
| | | Beryllium | | < | 0.004 | mg/L | | | | | | |
| | | Cadmium | | < | 0.004 | mg/L | | | | | | |
| | | Chromium | | < | 0.05 | mg/L | | | | | | |
| | | Copper | | < | 0.05 | mg/L | | | | | | |
| | | Nickel | | < | 0.05 | mg/L | | | | | | |
| | | Lead | | < | 0.01 | mg/L | | | | | | |
| | | Antimony | | < | 0.006 | mg/L | | | | | | |
| | | Selenium | | < | 0.05 | mg/L | | | | | | |
| | | Thallium | | < | 0.002 | mg/L | | | | | | |
| | | Zinc | | < | 0.05 | mg/L | | | | | | |
| SW3005A6010C | DUP5569 | Silver | 25147-001 | < | 0.005 | mg/L | | | | | 53 | 20 |
| | | Arsenic | 25147-001 | | 0.022 | mg/L | | | | | 14 | 20 |
| | | Cadmium | 25147-001 | < | 0.004 | mg/L | | | | | 0 | 20 |
| | | Chromium | 25147-001 | < | 0.05 | mg/L | | | | | 108 | 20 |
| | | Copper | 25147-001 | < | 0.05 | mg/L | | | | | 3 | 20 |
| | | Nickel | 25147-001 | < | 0.05 | mg/L | | | | | 1 | 20 |
| | | Lead | 25147-001 | < | 0.01 | mg/L | | | | | 50 | 20 |
| | | Zinc | 25147-001 | < | 0.05 | mg/L | | | | | 1 | 20 |
| SW3005A6010C | LCS5569 | Silver | | | 0.23 | mg/L | 0.25 | 93 | 80 | 120 | | |
| | | Arsenic | | | 0.49 | mg/L | 0.5 | 98 | 80 | 120 | | |
| | | Barium | | | 0.50 | mg/L | 0.5 | 100 | 80 | 120 | | |
| | | Beryllium | | | 0.49 | mg/L | 0.5 | 98 | 80 | 120 | | |
| | | Cadmium | | | 0.50 | mg/L | 0.5 | 100 | 80 | 120 | | |
| | | Chromium | | | 0.48 | mg/L | 0.5 | 97 | 80 | 120 | | |
| | | Copper | | | 0.51 | mg/L | 0.5 | 101 | 80 | 120 | | |
| | | Nickel | | | 0.50 | mg/L | 0.5 | 100 | 80 | 120 | | |
| | | Lead | | | 0.49 | mg/L | 0.5 | 99 | 80 | 120 | | |
| | | Antimony | | | 0.50 | mg/L | 0.5 | 99 | 80 | 120 | | |
| | | Selenium | | | 0.49 | mg/L | 0.5 | 99 | 80 | 120 | | |
| | | Thallium | | | 0.43 | mg/L | 0.5 | 86 | 80 | 120 | | |
| | | Zinc | | | 0.49 | mg/L | 0.5 | 98 | 80 | 120 | | |
| SW3005A6010C | LCSD5569 | Silver | | | 0.24 | mg/L | 0.25 | 96 | 80 | 120 | 3 | 20 |
| | | Arsenic | | | 0.50 | mg/L | 0.5 | 100 | 80 | 120 | 2 | 20 |
| | | Barium | | | 0.50 | mg/L | 0.5 | 101 | 80 | 120 | 1 | 20 |
| | | Beryllium | | | 0.50 | mg/L | 0.5 | 101 | 80 | 120 | 2 | 20 |
| | | Cadmium | | | 0.51 | mg/L | 0.5 | 102 | 80 | 120 | 2 | 20 |
| | | Chromium | | | 0.50 | mg/L | 0.5 | 99 | 80 | 120 | 3 | 20 |
| | | Copper | | | 0.51 | mg/L | 0.5 | 103 | 80 | 120 | 2 | 20 |
| | | Nickel | | | 0.51 | mg/L | 0.5 | 102 | 80 | 120 | 2 | 20 |
| | | Lead | | | 0.50 | mg/L | 0.5 | 101 | 80 | 120 | 2 | 20 |
| | | Antimony | | | 0.51 | mg/L | 0.5 | 102 | 80 | 120 | 2 | 20 |
| | | Selenium | | | 0.51 | mg/L | 0.5 | 102 | 80 | 120 | 3 | 20 |
| | | Thallium | | | 0.49 | mg/L | 0.5 | 98 | 80 | 120 | 13 | 20 |
| | | Zinc | | | 0.50 | mg/L | 0.5 | 101 | 80 | 120 | 2 | 20 |

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3005A6010C | MS5569 | Silver | 25147-001 | | 0.31 | mg/L | 0.25 | 126 | | 70 | 130 | | |
| | | Arsenic | 25147-001 | | 0.69 | mg/L | 0.5 | 135 | * | 70 | 130 | | |
| | | Cadmium | 25147-001 | | 0.62 | mg/L | 0.5 | 124 | | 70 | 130 | | |
| | | Chromium | 25147-001 | | 0.66 | mg/L | 0.5 | 132 | * | 70 | 130 | | |
| | | Copper | 25147-001 | | 0.67 | mg/L | 0.5 | 132 | * | 70 | 130 | | |
| | | Nickel | 25147-001 | | 0.64 | mg/L | 0.5 | 125 | | 70 | 130 | | |
| | | Lead | 25147-001 | | 0.63 | mg/L | 0.5 | 124 | | 70 | 130 | | |
| | | Zinc | 25147-001 | | 0.67 | mg/L | 0.5 | 131 | * | 70 | 130 | | |
| SW7470A | BLK5566 | Mercury | | < | 0.0002 | mg/L | | | | | | | |
| SW7470A | DUP5566 | Mercury | 25149-001 | < | 0.0002 | mg/L | | | | | | | 20 |
| SW7470A | LCS5566 | Mercury | | | 0.0017 | mg/L | 0.002 | 86 | | 80 | 120 | | |
| SW7470A | LCSD5566 | Mercury | | | 0.0017 | mg/L | 0.002 | 86 | | 80 | 120 | 0 | 20 |
| SW7470A | MS5566 | Mercury | 25149-001 | | 0.0018 | mg/L | 0.002 | 90 | | 75 | 125 | | |

Absolute Resource associates
124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

# CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

25149

Company Name: CREDERE ASSOCIATES
Company Address: 776 MAIN ST., WESTBROOK, ME
Report To: J. NEWCOMB / J. O'DONNELL
Phone #: 207-828-1272 272-2225
Invoice To: T. PATTEN

Project Name: MERC
Project #: 12001151
Project Location: NH MA (ME) VT ____ Other
Protocol: RCRA MCP SDWA NHDES NPDES OTHER
Reporting Limits: QAPP EPA DW GW-1 Other ____ S-1
Quote #____ ☐ NH GREE/ODD Fund Pricing
PO # ____

## ANALYSIS REQUEST

| Lab Sample ID (Lab Use Only) | Field ID | # CONTAINERS | Matrix: WATER | Matrix: SOLID | Matrix: OTHER | Preservation Method: HCl | $HNO_3$ | $H_2SO_4$ | NaOH | MeOH | OTHER (Specify) | Sampling: DATE | TIME | SAMPLER | X VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP | ☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only ☐ VOC 8021VT | X VPH MADEP ☐ MEGRO ☐ GRO 8015 | ☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List: | ☐ TPH ☐ DRO 8015 ☐ MEDRO X EPH MADEP ☐ TPH Fingerprint | X 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB 504.1 | ☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB | ☐ O&G 1664 ☐ Mineral O&G SM5520F | ☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity | ☐ TSS ☐ TDS ☐ TVS ☐ Alkalinity | X RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness | ☐ Total Metals-list: | ☐ Dissolved Metals-list: | ☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ TOC | ☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN | ☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P | ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride | ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP | ☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide | Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde | 8270 ABN (SVOCs) | PRIOR. POLLUT. METALS (13) | | Grab (G) or Composite (C) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25149-01 | CA-MW-3 | 2 | X | | | X | X | | | | | 10/9 | 1520 | ~~JP~~ | | | | | X | | | | | | X | | | | | | | | | | | |
| -02 | CA-MW-6 | 7 | ↓ | | | X | X | | | | | ↓ | 1320 | ↓ | X | | X | | X | | | | | | | | | | | | | X | X | | |
| -03 | CA-MW-7 | 7 | ↓ | | | X | X | | | | | ↓ | 1415 | ↓ | X | | X | | X | | | | | | | | | | | | | X | X | | |
| -04 | CA-MW-8 | 2 | ↓ | | | | X | | | | | ↓ | 1212 | ↓ | | | | | | X | | | | | | | | | | | | | X | X | |
| -05 | CA-MW-9 | 4 | ↓ | | | X | X | | | | | ↓ | 1053 | ↓ | X | | | | | | | | | | | | | | | | | X | X | | |
| -06 | CA-MW-10 | 4 | ↓ | | | X | X | | | | | ↓ | 0942 | ↓ | X | | | | | | | | | | X | | | | | | | X | X | | |
| -07 | CA-MW-DUP-1 | 7 | ↓ | | | X | X | | | | | ↓ | — | ↓ | X | | X | | X | | | | | | | | | | | | | X | X | | |
| -08 | Trip Blank | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | |
| -09 | Trip Blank | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | |

**TAT REQUESTED**
Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☐
*Date Needed 10/17

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS X PDF (e-mail address) jnewcomb@crederellc.com
☐ HARD COPY REQUIRED ☐ FAX (FAX#)____ ☐ OTHER (specify)____

RECEIVED ON ICE ☐ YES ☐ NO
TEMPERATURE 4 °C

**CUSTODY RECORD**
QSD-01 Revision 08/23/12

| Relinquished by Sampler: | Date 10/10/12 | Time 1515 | Received by: [signature] | Date 10/10/12 | Time 1515 |
|---|---|---|---|---|---|
| Relinquished by: | Date | Time | Received by: | Date | Time |
| Relinquished by: | Date | Time | Received by Laboratory: | Date | Time |

**Credere-MERC samples group 1**
**CAPE Technologies EPA Method 4025m**
**Analysis completed October 10, 2012**

| Lab ID | Client ID | QA: Dup or pg/g spike | TEQ by 4025m | Mean of Dups | **TEQ Sample Results** | Corrected % spike recovery | Duplicate %CV | Notes |
|---|---|---|---|---|---|---|---|---|
| 4- | CA-CC-4 | 0 | 44 | | **30** | | | unspiked sample |
| 4-d | CA-CC-4 | 0 Dup | 16 | 30 | | | 67 | duplicate unspiked sample |
| 4+ | CA-CC-4 | 10 | >45 | | | xx | | sample spiked with 10 pg/g 2378-TCDD |
| 4+d | CA-CC-4 | 10 Dup | 30 | >38 | | 0 | xx | duplicate sample spiked with 10 pg/g 2378-TCDD |
| 5- | CA-CC-5 | 0 | >45 | | **>45** | | | unspiked sample |
| 5+ | CA-CC-5 | 10 | >45 | | | xx | | sample spiked with 10 pg/g 2378-TCDD |
| 5+d | CA-CC-5 | 10 Dup | >45 | >45 | | xx | xx | duplicate sample spiked with 10 pg/g 2378-TCDD |
| 6- | stack | 0 | 11 | | **12** | | | unspiked sample |
| 6-d | stack | 0 Dup | 13 | 12 | | | 11 | duplicate unspiked sample |
| 6+ | stack | 10 | 19 | | | 72 | | sample spiked with 10 pg/g 2378-TCDD |
| 8- | CA-SS-2 | 0 | >45 | | **>200**** | | | unspiked sample |
| 8-d | CA-SS-2 | 0 Dup | >45 | >45 | | | xx | duplicate unspiked sample |
| 8+ | CA-SS-2 | 10 | >45 | | | xx | | sample spiked with 10 pg/g 2378-TCDD |
| 8+d | CA-SS-2 | 10 Dup | >45 | >45 | | xx | xx | duplicate sample spiked with 10 pg/g 2378-TCDD |
| 11- | CA-SS-5 | 0 | >45 | | **>600**** | | | unspiked sample |
| 11+ | CA-SS-5 | 10 | >45 | | | xx | | sample spiked with 10 pg/g 2378-TCDD |
| 11+d | CA-SS-5 | 10 Dup | >45 | >45 | | xx | xx | duplicate sample spiked with 10 pg/g 2378-TCDD |
| 12- | CA-SS-DUP | 0 | >45 | | **>400**** | | | unspiked sample |
| 12-d | CA-SS-DUP | 0 Dup | | xxx | | | xxx | duplicate unspiked sample |
| 12+ | CA-SS-DUP | 10 | >45 | | | xx | | sample spiked with 10 pg/g 2378-TCDD |
| MB- | | 0 | 2 | | | | | unspiked method blank |
| MB-d | | 0 Dup | 2 | 2 | | | 10 | duplicate unspiked method blank |
| MB+ | | 10 | 7 | | | 51 | | method blank spiked with 10 pg/g 2378-TCDD |
| MB+d | | 10 Dup | 5 | 6 | | 35 | 19 | duplicate method blank spiked with 10 pg/g 2378-TCDD |

Notes

All results are in pg/g (parts per trillion)

MB = Method Blank

d = Duplicate

"-" indicates unspiked sample results

"+" indicates matrix spike sample

"xx" indicates value which could not be calculated due to off scale high result

"xxx" indicates no valid result (sample lost during processing)

** reported result is based on two 5x serial dilutions of original sample residue
this procedure allows for rough estimation *only*

calibration adjustment factor includes correction for toluene residue effect as measured by evaporation controls

**Credere-MERC samples group 2**

**CAPE Technologies EPA Method 4025m**

**Analysis completed October 10, 2012**

| Lab ID | Client ID | QA: Dup or pg/g spike | TEQ by 4025m | Mean of Dups | **TEQ Sample Results** | Corrected % spike recovery | Duplicate %CV | Notes |
|---|---|---|---|---|---|---|---|---|
| 1- | CA-SB-6 | 0 | 3 | | **4** | | | unspiked sample |
| 1-d | CA-SB-6 | 0 Dup | 4 | 4 | | | 14 | duplicate unspiked sample |
| 1+ | CA-SB-6 | 10 | 11 | | | 71 | | sample spiked with 10 pg/g 2378-TCDD |
| 2- | CA-SB-8 (0-2.5) | 0 | 2 | | **2** | | | unspiked sample |
| 2-d | CA-SB-8 (0-2.5) | 0 Dup | 2 | 2 | | | 10 | duplicate unspiked sample |
| 2+ | CA-SB-8 (0-2.5) | 10 | 7 | | | 53 | | sample spiked with 10 pg/g 2378-TCDD |
| 2+d | CA-SB-8 (0-2.5) | 10 Dup | 6 | 6 | | 43 | 10 | duplicate sample spiked with 10 pg/g 2378-TCDD |
| 3- | CA-SB-8 (5-10) | 0 | 2 | | **2** | | | unspiked sample |
| 3+ | CA-SB-8 (5-10) | 10 | 7 | | | 47 | | sample spiked with 10 pg/g 2378-TCDD |
| 3+d | CA-SB-8 (5-10) | 10 Dup | 9 | 8 | | 67 | 18 | duplicate sample spiked with 10 pg/g 2378-TCDD |
| 7- | CA-SS-1 | 0 | >42 | | **>42** | | | unspiked sample |
| 7+ | CA-SS-1 | 10 | >42 | | | xx | | sample spiked with 10 pg/g 2378-TCDD |
| 7+d | CA-SS-1 | 10 Dup | >42 | >42 | | xx | xx | duplicate sample spiked with 10 pg/g 2378-TCDD |
| 9- | CA-SS-3 | 0 | 10 | | **13** | | | unspiked sample |
| 9-d | CA-SS-3 | 0 Dup | 16 | 13 | | | 37 | duplicate unspiked sample |
| 9+ | CA-SS-3 | 10 | >42 | | | xx | | sample spiked with 10 pg/g 2378-TCDD |
| 10- | CA-SS-4 | 0 | 34 | | **>38** | | | unspiked sample |
| 10-d | CA-SS-4 | 0 Dup | >42 | >38 | | | xx | duplicate unspiked sample |
| 10+ | CA-SS-4 | 10 | >42 | | | xx | | sample spiked with 10 pg/g 2378-TCDD |
| 10+d | CA-SS-4 | 10 Dup | >42 | >42 | | xx | xx | duplicate sample spiked with 10 pg/g 2378-TCDD |
| MB- | | 0 | 1 | | | | | unspiked method blank |
| MB-d | | 0 Dup | 2 | 2 | | | 2 | duplicate unspiked method blank |
| MB+ | | 10 | 6 | | | 46 | | method blank spiked with 10 pg/g 2378-TCDD |
| MB+d | | 10 Dup | 8 | 7 | | 68 | 22 | duplicate method blank spiked with 10 pg/g 2378-TCDD |

Notes

All results are in pg/g (parts per trillion)

MB = Method Blank

d = Duplicate

"-" indicates unspiked sample results

"+" indicates matrix spike sample

"xx" indicates value which could not be calculated due to off scale high result

calibration adjustment factor includes correction for toluene residue effect as measured by evaporation controls

# Chain Of Custody Form

CAPE Technologies

120 Thadeus Street
South Portland, ME 04106-6245
(207) 741-2995



Samples were:
1) Shipped or hand-delivered
2) Temp blank °C on ice
3) Received in good condition Y or N
4) pH checked by: NA
5) Labels checked by: NA

Project#: Proj. Name: MERC
Company: Credere Associates
Contact: Judd Newcomb
Address: 776 Main Street
Westbrook, ME 04092
Phone: 207-828-1272 PO# Quote #
Sampler (Signature):

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
GW = Groundwater
DW = Drinking Water
S = Soil/Sludge
O = Oil
E = Extract
X = Other

Container Key
P=plastic G=glass

Preservation

| Sample Identification | Sample Date | Sample Time | Analysis | Unpres | 4° C | $HNO_3$ | $H_2SO_4$ | HCL | Methanol | Other | Matrix | Container number/type | pH | Cape Sample # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CA-SB-6 | 10/3/12 | 0850 | Dioxin | | X | | | | | | S | | | 1 |
| CA-SB-8 (0-2.5') | | 0950 | | | | | | | | | S | | | 2 |
| CA-SB-8 (5-10') | | 1000 | | | | | | | | | S | | | 3 |
| CA-CC-4 | | 1125 | | | | | | | | | C | | | 4 |
| CA-CC-5 | | 1148 | | | | | | | | | C | | | 5 |
| Stack | | 1450 | | | | | | | | | C | | | 6 |
| CA-SS-1 | | 1120 | | | | | | | | | S | | | 7 |
| CA-SS-2 | | 1210 | | | | | | | | | S | | | 8 |
| CA-SS-3 | | 1215 | | | | | | | | | S | | | 9 |
| CA-SS-4 | | 1245 | | | | | | | | | S | | | 10 |
| CA-SS-5 | | 1300 | | | | | | | | | S | | | 11 |
| CA-SS-DUP | | | | | | | | | | | S | | | 12 |

Email Results to:
jnewcomb@crederellc.com

Turnaround Request
Standard ☒ Due Date
Priority ☐ Due Date
Lab Approval Required

Comments / Instructions:
Ziplock bags

Project Requirements:

Relinquished By Sampler: JBO Date: 100312 Time: 1610 Received By: RoHarrison

Relinquished By: Date: Time: Received By:

Relinquished By: Date: Time: Received By:

# Laboratory Report

Absolute Resource associates
124 Heritage Avenue Portsmouth NH 03801

Judd Newcomb
CREDERE Associates
776 Main Street
Westbrook, ME 04092

PO Number: 12001150
Job ID: 25368
Date Received: 11/8/12

Project: MERC 12001150

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 11/13/2012
Total number of pages: 8

**Absolute Resource Associates Certifications**

| | | | |
|---|---|---|---|
| New Hampshire | 1732 | Massachusetts | M-NH902 |
| Maine | NH903 | | |

**Project ID:** MERC 12001150
**Lab ID:** 25368

# Sample Association Table

| Field ID | Matrix | Date-Time Sampled | Lab# | Analysis |
|---|---|---|---|---|
| CA-SB-110 7.5-10 | Solid | 11/7/2012 15:00 | 25368-001 | |
| | | | | PCBs in soil by 8082 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| CA-SB-111 7.5-10 | Solid | 11/7/2012 15:05 | 25368-002 | |
| | | | | PCBs in soil by 8082 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| CA-SB-111 5-7.5 | Solid | 11/7/2012 15:10 | 25368-003 | |
| | | | | PCBs in soil by 8082 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| CA-SB-111 2.5-5 | Solid | 11/7/2012 15:15 | 25368-004 | |
| | | | | PCBs in soil by 8082 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25368

**Sample#:** 25368-001
**Sample ID:** CA-SB-110 7.5-10
**Matrix:** Solid Percent Dry: 85.3% Results expressed on a dry weight basis.
**Sampled:** 11/7/12 15:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 14:23 | SW3540C8082A |
| PCB-1221 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 14:23 | SW3540C8082A |
| PCB-1232 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 14:23 | SW3540C8082A |
| PCB-1242 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 14:23 | SW3540C8082A |
| PCB-1248 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 14:23 | SW3540C8082A |
| PCB-1254 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 14:23 | SW3540C8082A |
| PCB-1260 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 14:23 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **57** | 30-150 | % | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 14:23 | SW3540C8082A |
| decachlorobiphenyl SUR | **50** | 30-150 | % | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 14:23 | SW3540C8082A |

**Sample#:** 25368-002
**Sample ID:** CA-SB-111 7.5-10
**Matrix:** Solid Percent Dry: 89.7% Results expressed on a dry weight basis.
**Sampled:** 11/7/12 15:05

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 14:53 | SW3540C8082A |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 14:53 | SW3540C8082A |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 14:53 | SW3540C8082A |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 14:53 | SW3540C8082A |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 14:53 | SW3540C8082A |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 14:53 | SW3540C8082A |
| PCB-1260 | **0.05** | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 14:53 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **45** | 30-150 | % | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 14:53 | SW3540C8082A |
| decachlorobiphenyl SUR | **66** | 30-150 | % | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 14:53 | SW3540C8082A |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25368

**Sample#:** 25368-003
**Sample ID:** CA-SB-111 5-7.5
**Matrix:** Solid Percent Dry: 87.2% Results expressed on a dry weight basis.
**Sampled:** 11/7/12 15:10

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 6.2 | 6.2 | ug/g | 200 | JLZ | 11/8/12 | 5625 | 11/9/12 | 18:12 | SW3540C8082A |
| PCB-1221 | < 6.2 | 6.2 | ug/g | 200 | JLZ | 11/8/12 | 5625 | 11/9/12 | 18:12 | SW3540C8082A |
| PCB-1232 | < 6.2 | 6.2 | ug/g | 200 | JLZ | 11/8/12 | 5625 | 11/9/12 | 18:12 | SW3540C8082A |
| PCB-1242 | < 6.2 | 6.2 | ug/g | 200 | JLZ | 11/8/12 | 5625 | 11/9/12 | 18:12 | SW3540C8082A |
| PCB-1248 | < 6.2 | 6.2 | ug/g | 200 | JLZ | 11/8/12 | 5625 | 11/9/12 | 18:12 | SW3540C8082A |
| PCB-1254 | < 6.2 | 6.2 | ug/g | 200 | JLZ | 11/8/12 | 5625 | 11/9/12 | 18:12 | SW3540C8082A |
| PCB-1260 | **55** | 6.2 | ug/g | 200 | JLZ | 11/8/12 | 5625 | 11/9/12 | 18:12 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **DOR** | 30-150 | % | 200 | JLZ | 11/8/12 | 5625 | 11/9/12 | 18:12 | SW3540C8082A |
| decachlorobiphenyl SUR | **DOR** | 30-150 | % | 200 | JLZ | 11/8/12 | 5625 | 11/9/12 | 18:12 | SW3540C8082A |

***DOR = Diluted out of range.***

**Sample#:** 25368-004
**Sample ID:** CA-SB-111 2.5-5
**Matrix:** Solid Percent Dry: 93.6% Results expressed on a dry weight basis.
**Sampled:** 11/7/12 15:15

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 270 | 270 | ug/g | 10000 | JLZ | 11/8/12 | 5625 | 11/10/12 | 13:21 | SW3540C8082A |
| PCB-1221 | < 270 | 270 | ug/g | 10000 | JLZ | 11/8/12 | 5625 | 11/10/12 | 13:21 | SW3540C8082A |
| PCB-1232 | < 270 | 270 | ug/g | 10000 | JLZ | 11/8/12 | 5625 | 11/10/12 | 13:21 | SW3540C8082A |
| PCB-1242 | < 270 | 270 | ug/g | 10000 | JLZ | 11/8/12 | 5625 | 11/10/12 | 13:21 | SW3540C8082A |
| PCB-1248 | < 270 | 270 | ug/g | 10000 | JLZ | 11/8/12 | 5625 | 11/10/12 | 13:21 | SW3540C8082A |
| PCB-1254 | < 270 | 270 | ug/g | 10000 | JLZ | 11/8/12 | 5625 | 11/10/12 | 13:21 | SW3540C8082A |
| PCB-1260 | **6300** | 270 | ug/g | 10000 | JLZ | 11/8/12 | 5625 | 11/10/12 | 13:21 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **DOR** | 30-150 | % | 10000 | JLZ | 11/8/12 | 5625 | 11/10/12 | 13:21 | SW3540C8082A |
| decachlorobiphenyl SUR | **DOR** | 30-150 | % | 10000 | JLZ | 11/8/12 | 5625 | 11/10/12 | 13:21 | SW3540C8082A |

***DOR = Diluted out of range.***

# Quality Control Report

124 Heritage Avenue Unit 16
Portsmouth, NH 03801
www.absoluteresourceassociates.com

Absolute Resource associates

**Case Narrative**
**Lab # 25368**

## Sample Receiving and Chain of Custody Discrepancies

Samples were received in acceptable condition, at 1 degrees C, on ice, and in accordance with sample handling, preservation and integrity guidelines.

## Calibration

No exceptions noted.

## Method Blank

No exceptions noted.

## Surrogate Recoveries

PCB: The surrogates were diluted out of the calibration range in the following samples: 25368-003 and -004.

## Laboratory Control Sample Results

No exceptions noted.

## Matrix Spike/Matrix Spike Duplicate/Duplicate Results

Not requested for this project.

## Other

Reporting Limits: Dilutions performed during the analysis are noted on the result pages.

No other exceptions noted.

# - QC Report -

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3540C8082A | BLK5625 | PCB-1016 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1221 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1232 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1242 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1248 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1254 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1260 | | < | 0.02 | ug/g | | | | | | |
| | | tetrachloro-m-xylene SUR | | | 53 | % | | | 30 | 150 | | |
| | | decachlorobiphenyl SUR | | | 58 | % | | | 30 | 150 | | |
| SW3540C8082A | LCS5625 | PCB-1016 | | | 0.15 | ug/g | 0.2 | 73 | 40 | 140 | | |
| | | PCB-1221 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1232 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1242 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1248 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1254 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1260 | | | 0.14 | ug/g | 0.2 | 69 | 40 | 140 | | |
| | | tetrachloro-m-xylene SUR | | | 59 | % | | | 30 | 150 | | |
| | | decachlorobiphenyl SUR | | | 65 | % | | | 30 | 150 | | |
| SW3540C8082A | LCSD5625 | PCB-1016 | | | 0.16 | ug/g | 0.2 | 81 | 40 | 140 | 10 | 30 |
| | | PCB-1221 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1232 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1242 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1248 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1254 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1260 | | | 0.16 | ug/g | 0.2 | 78 | 40 | 140 | 12 | 30 |
| | | tetrachloro-m-xylene SUR | | | 60 | % | | | 30 | 150 | | |
| | | decachlorobiphenyl SUR | | | 69 | % | | | 30 | 150 | | |

Absolute Resource associates

Absolute Resource associates
124 Heritage Avenue #10
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

# CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

25368

Company Name: CREDERE ASSOCIATES

Company Address: 776 MAIN ST WESTBROOK ME 04092

Report To: JUDD NEWCOMB

Phone #: 207-232-5387

Invoice To: Same

Project Name: MERC

Project #: 12001150

Project Location: NH MA ME VT Other

Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Reporting Limits: QAPP GW-1 S-1 EPA DW Other TSCA

Quote # CREDERE ☐ NH GREE/ODD Fund Pricing

PO # 12001150

## ANALYSIS REQUEST

☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP ☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only ☐ VOC 8021VT ☐ VPH MADEP ☐ MEGRO ☐ GRO 8015 ☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List: ☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint ☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB 504.1 ☒ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB 3540 CLP ☐ O&G 1664 ☐ Mineral O&G SM5520F ☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity ☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity ☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Total Metals-list: ☐ Dissolved Metals-list: ☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN ☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP ☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide Subcontract: ☐ TOC ☐ Grain Size ☐ TCLP Herbicides

| Lab Sample ID (Lab Use Only) | Field ID | # CONTAINERS | Matrix: WATER | Matrix: SOLID | Matrix: OTHER | Preservation Method: HCl | $HNO_3$ | $H_2SO_4$ | NaOH | MeOH | OTHER (Specify) | Sampling: DATE | TIME | SAMPLER | Grab (G) or Composite (C) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25368-01 | CA-SB-110 7.5-10 | 1 | | X | | | | | | | 4oz | 11/7/12 | 1500 | JN | G |
| 02 | CA-SB-111 7.5-10 | 1 | | X | | | | | | | | | 1505 | | |
| 03 | CA-SB-111 5-7.5 | 1 | | X | | | | | | | | | 1510 | | |
| 04 | CA-SB-111 2.5-5 | 1 | | X | | | | | | | | | 1515 | | |

**TAT REQUESTED**
Priority (24 hr)* ☐
Expedited (48 hr)* ☒
Standard (10 Business Days) ☐
*Date Needed 11/12/12

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS ☒ PDF (e-mail address) JNEWCOMB@CREDERELLC.COM
☐ HARD COPY REQUIRED ☐ FAX (FAX#) ☐ OTHER (specify)

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 1 °C

**CUSTODY RECORD**
QSD-01 Revision 12/23/10

| Relinquished by Sampler: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| | 11/8/12 | 1105 | | | |
| Relinquished by: | Date | Time | Received by: | Date | Time |
| Relinquished by: | Date | Time | Received by Laboratory: Way Bill#: | 11/8/12 | 1105 |

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# Laboratory Report

Absolute Resource associates
124 Heritage Avenue Portsmouth NH 03801

Judd Newcomb
CREDERE Associates
776 Main Street
Westbrook, ME 04092

PO Number: 12001150
Job ID: 25348
Date Received: 11/6/12

Project: MERC 12001150

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 11/14/2012
Total number of pages: 8

**Absolute Resource Associates Certifications**

| | | | |
|---|---|---|---|
| New Hampshire | 1732 | Massachusetts | M-NH902 |
| Maine | NH903 | | |

**Project ID:** MERC 12001150

**Lab ID:** 25348

# Sample Association Table

| Field ID | Matrix | Date-Time Sampled | Lab# | Analysis |
|---|---|---|---|---|
| CA-SS-6 | Solid | 11/5/2012 15:50 | 25348-001 | |
| | | | | PCBs in soil by 8082 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| CA-SS-7 | Solid | 11/5/2012 15:55 | 25348-002 | |
| | | | | PCBs in soil by 8082 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |
| CA-SS-8 | Solid | 11/5/2012 16:00 | 25348-003 | |
| | | | | PCBs in soil by 8082 |
| | | | | Percent Dry Matter for Sample Calc by SM2540B,G |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25348

**Sample#:** 25348-001
**Sample ID:** CA-SS-6
**Matrix:** Solid Percent Dry: 87.3% Results expressed on a dry weight basis.
**Sampled:** 11/5/12 15:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 11:31 | SW3540C8082A |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 11:31 | SW3540C8082A |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 11:31 | SW3540C8082A |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 11:31 | SW3540C8082A |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 11:31 | SW3540C8082A |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 11:31 | SW3540C8082A |
| PCB-1260 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 11:31 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **59** | 30-150 | % | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 11:31 | SW3540C8082A |
| decachlorobiphenyl SUR | **55** | 30-150 | % | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 11:31 | SW3540C8082A |

**Sample#:** 25348-002
**Sample ID:** CA-SS-7
**Matrix:** Solid Percent Dry: 91.7% Results expressed on a dry weight basis.
**Sampled:** 11/5/12 15:55

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 12:02 | SW3540C8082A |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 12:02 | SW3540C8082A |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 12:02 | SW3540C8082A |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 12:02 | SW3540C8082A |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 12:02 | SW3540C8082A |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 12:02 | SW3540C8082A |
| PCB-1260 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 12:02 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **66** | 30-150 | % | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 12:02 | SW3540C8082A |
| decachlorobiphenyl SUR | **63** | 30-150 | % | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 12:02 | SW3540C8082A |

Absolute Resource associates

**Project ID:** MERC 12001150
**Job ID:** 25348
**Sample#:** 25348-003
**Sample ID:** CA-SS-8
**Matrix:** Solid Percent Dry: 93.3% Results expressed on a dry weight basis.
**Sampled:** 11/5/12 16:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 12:32 | SW3540C8082A |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 12:32 | SW3540C8082A |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 12:32 | SW3540C8082A |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 12:32 | SW3540C8082A |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 12:32 | SW3540C8082A |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 12:32 | SW3540C8082A |
| PCB-1260 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 12:32 | SW3540C8082A |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **62** | 30-150 | % | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 12:32 | SW3540C8082A |
| decachlorobiphenyl SUR | **59** | 30-150 | % | 1 | JLZ | 11/8/12 | 5625 | 11/9/12 | 12:32 | SW3540C8082A |

Absolute Resource associates

# Quality Control Report

124 Heritage Avenue Unit 16
Portsmouth, NH 03801
www.absoluteresourceassociates.com

Absolute Resource associates

**Case Narrative**
**Lab # 25348**

## Sample Receiving and Chain of Custody Discrepancies

Samples were received in acceptable condition, at 3 degrees C, on ice, and in accordance with sample handling, preservation and integrity guidelines.

## Calibration

No exceptions noted.

## Method Blank

No exceptions noted.

## Surrogate Recoveries

No exceptions noted.

## Laboratory Control Sample Results

No exceptions noted.

## Matrix Spike/Matrix Spike Duplicate/Duplicate Results

Not requested for this project.

## Other

Reporting Limits: Dilutions performed during the analysis are noted on the result pages.

No other exceptions noted.

# - QC Report -

| Method | QC ID | Parameter | Associated Sample | | Result | Units | Amt Added | %R | Limits | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW3540C8082A | BLK5625 | PCB-1016 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1221 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1232 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1242 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1248 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1254 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1260 | | < | 0.02 | ug/g | | | | | | |
| | | tetrachloro-m-xylene SUR | | | 53 | % | | | 30 | 150 | | |
| | | decachlorobiphenyl SUR | | | 58 | % | | | 30 | 150 | | |
| SW3540C8082A | LCS5625 | PCB-1016 | | | 0.15 | ug/g | 0.2 | 73 | 40 | 140 | | |
| | | PCB-1221 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1232 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1242 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1248 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1254 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1260 | | | 0.14 | ug/g | 0.2 | 69 | 40 | 140 | | |
| | | tetrachloro-m-xylene SUR | | | 59 | % | | | 30 | 150 | | |
| | | decachlorobiphenyl SUR | | | 65 | % | | | 30 | 150 | | |
| SW3540C8082A | LCSD5625 | PCB-1016 | | | 0.16 | ug/g | 0.2 | 81 | 40 | 140 | 10 | 30 |
| | | PCB-1221 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1232 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1242 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1248 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1254 | | < | 0.02 | ug/g | | | | | | |
| | | PCB-1260 | | | 0.16 | ug/g | 0.2 | 78 | 40 | 140 | 12 | 30 |
| | | tetrachloro-m-xylene SUR | | | 60 | % | | | 30 | 150 | | |
| | | decachlorobiphenyl SUR | | | 69 | % | | | 30 | 150 | | |

Absolute Resource associates

Absolute Resource associates
124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

# CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

25348

Company Name: CREDERE ASSOCIATES, LLC
Company Address: 776 MAIN ST WESTBROOK ME 04092
Report To: JUDD NEWCOMB
Phone #: 207 232-5387
Invoice To: Same

Project Name: MERC
Project #: 12001150
Project Location: NH MA ME VT Other
Protocol: RCRA SDWA NPDES MCP NHDES OTHER
Reporting Limits: QAPP GW-1 S-1 EPA DW Other TSCA
Quote #CREDERE ☐ NH GREE/ODD Fund Pricing
PO # 12001150

## ANALYSIS REQUEST

☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP ☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only ☐ VOC 8021VT ☐ VPH MADEP ☐ MEGRO ☐ GRO 8015 ☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List: ☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint ☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB 504.1 ☒ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB 3540 Cat ☐ O&G 1664 ☐ Mineral O&G SM5520F ☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity ☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity ☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness ☐ Total Metals-list: ☐ Dissolved Metals-list: ☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ TOC ☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN ☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP ☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde

| Lab Sample ID (Lab Use Only) | Field ID | # CONTAINERS | Matrix: WATER | SOLID | OTHER | Preservation Method: HCl | $HNO_3$ | $H_2SO_4$ | NaOH | MeOH | OTHER (Specify) | Sampling: DATE | TIME | SAMPLER | 8082 PCB | Grab (G) or Composite (C) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25348-01 | CA-SS-6 | 1 | | X | | | | | | | 4°C | 11/5/12 | 1550 | JN | X | G |
| 02 | CA-SS-7 | 1 | | ↓ | | | | | | | ↓ | ↓ | 1555 | ↓ | X | C |
| 03 | CA-SS-8 | 1 | | | | | | | | | | | 1600 | | X | C |

**TAT REQUESTED**
Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☐
*Date Needed 11/9/12

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS ☒ PDF (e-mail address) JNEWCOMB@CREDERELLC.com
☐ HARD COPY REQUIRED ☐ FAX (FAX#) ☒ OTHER (specify) CREDERE EDD

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 3 °C

**CUSTODY RECORD**

| Relinquished by Sampler: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| | 11/6/12 | 1100 | | 11/6/12 | 11 |
| Relinquished by: | Date | Time | Received by: | Date | Time |
| Relinquished by: | Date | Time | Received by Laboratory: | Date | Time |

QSD-01 Revision 08/23/12

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# Laboratory Report

Absolute Resource associates
124 Heritage Avenue Portsmouth NH 03801

John Cressey
Summit Environmental Consultants
434 Cony Rd
Augusta, ME 04330

PO Number: 12-3259.1
Job ID: 25845
Date Received: 1/11/13

Project: Maine Energy 12-3259.1

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 1/30/2013
Total number of pages: 12

**Absolute Resource Associates Certifications**

| | | | |
|---|---|---|---|
| New Hampshire | 1732 | Massachusetts | M-NH902 |
| Maine | NH903 | | |

**Project ID:** Maine Energy 12-3259.1
**Job ID:** 25845

**Sample#:** 25845-001
**Sample ID:** SE-SB-201 (3"-4')
**Matrix:** Solid Percent Dry: 92% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 9:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 21:08 | SW3540C8082 |
| PCB-1221 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 21:08 | SW3540C8082 |
| PCB-1232 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 21:08 | SW3540C8082 |
| PCB-1242 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 21:08 | SW3540C8082 |
| PCB-1248 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 21:08 | SW3540C8082 |
| PCB-1254 | **1.7** | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 21:08 | SW3540C8082 |
| PCB-1260 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 21:08 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **60** | 30-150 | % | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 21:08 | SW3540C8082 |
| decachlorobiphenyl SUR | **61** | 30-150 | % | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 21:08 | SW3540C8082 |

**Sample#:** 25845-002
**Sample ID:** SE-SB-201 (4-5')
**Matrix:** Solid Percent Dry: 86.1% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 9:40

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 21:39 | SW3540C8082 |
| PCB-1221 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 21:39 | SW3540C8082 |
| PCB-1232 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 21:39 | SW3540C8082 |
| PCB-1242 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 21:39 | SW3540C8082 |
| PCB-1248 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 21:39 | SW3540C8082 |
| PCB-1254 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 21:39 | SW3540C8082 |
| PCB-1260 | **4.6** | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 21:39 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **57** | 30-150 | % | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 21:39 | SW3540C8082 |
| decachlorobiphenyl SUR | **58** | 30-150 | % | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 21:39 | SW3540C8082 |

**Project ID:** Maine Energy 12-3259.1
**Job ID:** 25845

**Sample#:** 25845-003
**Sample ID:** SE-SB-202 (4"-2.5')
**Matrix:** Solid Percent Dry: 91.4% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 10:05

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.1 | 0.1 | ug/g | 1 | JLZ | 1/23/13 | 5802 | 1/24/13 | 15:52 | SW3540C8082 |
| PCB-1221 | < 0.1 | 0.1 | ug/g | 1 | JLZ | 1/23/13 | 5802 | 1/24/13 | 15:52 | SW3540C8082 |
| PCB-1232 | < 0.1 | 0.1 | ug/g | 1 | JLZ | 1/23/13 | 5802 | 1/24/13 | 15:52 | SW3540C8082 |
| PCB-1242 | < 0.1 | 0.1 | ug/g | 1 | JLZ | 1/23/13 | 5802 | 1/24/13 | 15:52 | SW3540C8082 |
| PCB-1248 | < 0.1 | 0.1 | ug/g | 1 | JLZ | 1/23/13 | 5802 | 1/24/13 | 15:52 | SW3540C8082 |
| PCB-1254 | **0.4** | 0.1 | ug/g | 1 | JLZ | 1/23/13 | 5802 | 1/24/13 | 15:52 | SW3540C8082 |
| PCB-1260 | < 0.1 | 0.1 | ug/g | 1 | JLZ | 1/23/13 | 5802 | 1/24/13 | 15:52 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **64** | 30-150 | % | 1 | JLZ | 1/23/13 | 5802 | 1/24/13 | 15:52 | SW3540C8082 |
| decachlorobiphenyl SUR | **66** | 30-150 | % | 1 | JLZ | 1/23/13 | 5802 | 1/24/13 | 15:52 | SW3540C8082 |

**Sample#:** 25845-004
**Sample ID:** SE-SB-202 (4-5')
**Matrix:** Solid Percent Dry: 91.9% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 10:11

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 22:10 | SW3540C8082 |
| PCB-1221 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 22:10 | SW3540C8082 |
| PCB-1232 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 22:10 | SW3540C8082 |
| PCB-1242 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 22:10 | SW3540C8082 |
| PCB-1248 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 22:10 | SW3540C8082 |
| PCB-1254 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 22:10 | SW3540C8082 |
| PCB-1260 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 22:10 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **48** | 30-150 | % | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 22:10 | SW3540C8082 |
| decachlorobiphenyl SUR | **29** * | 30-150 | % | 5 | JLZ | 1/14/13 | 5777 | 1/16/13 | 22:10 | SW3540C8082 |

**** The surrogate showed recovery outside the acceptance limits. Reanalysis of the sample showed similar results. Matrix interference suspected.***

Absolute Resource associates

**Project ID:** Maine Energy 12-3259.1
**Job ID:** 25845

**Sample#:** 25845-005
**Sample ID:** SE-SB-203 (2"-2.5')
**Matrix:** Solid Percent Dry: 94.4% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 10:25

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/14/13 | 5777 | 1/15/13 | 18:21 | SW3540C8082 |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/14/13 | 5777 | 1/15/13 | 18:21 | SW3540C8082 |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/14/13 | 5777 | 1/15/13 | 18:21 | SW3540C8082 |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/14/13 | 5777 | 1/15/13 | 18:21 | SW3540C8082 |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/14/13 | 5777 | 1/15/13 | 18:21 | SW3540C8082 |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/14/13 | 5777 | 1/15/13 | 18:21 | SW3540C8082 |
| PCB-1260 | **0.05** | 0.03 | ug/g | 1 | JLZ | 1/14/13 | 5777 | 1/15/13 | 18:21 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **58** | 30-150 | % | 1 | JLZ | 1/14/13 | 5777 | 1/15/13 | 18:21 | SW3540C8082 |
| decachlorobiphenyl SUR | **66** | 30-150 | % | 1 | JLZ | 1/14/13 | 5777 | 1/15/13 | 18:21 | SW3540C8082 |

**Sample#:** 25845-006
**Sample ID:** SE-SB-203 (3-4')
**Matrix:** Solid Percent Dry: 84.3% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 10:31

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/14/13 | 5777 | 1/16/13 | 20:38 | SW3540C8082 |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/14/13 | 5777 | 1/16/13 | 20:38 | SW3540C8082 |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/14/13 | 5777 | 1/16/13 | 20:38 | SW3540C8082 |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/14/13 | 5777 | 1/16/13 | 20:38 | SW3540C8082 |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/14/13 | 5777 | 1/16/13 | 20:38 | SW3540C8082 |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/14/13 | 5777 | 1/16/13 | 20:38 | SW3540C8082 |
| PCB-1260 | **0.09** | 0.03 | ug/g | 1 | JLZ | 1/14/13 | 5777 | 1/16/13 | 20:38 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **68** | 30-150 | % | 1 | JLZ | 1/14/13 | 5777 | 1/16/13 | 20:38 | SW3540C8082 |
| decachlorobiphenyl SUR | **57** | 30-150 | % | 1 | JLZ | 1/14/13 | 5777 | 1/16/13 | 20:38 | SW3540C8082 |

**Project ID:** Maine Energy 12-3259.1
**Job ID:** 25845

**Sample#:** 25845-007
**Sample ID:** SE-SB-203 (4-5')
**Matrix:** Solid Percent Dry: 88.6% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 10:33

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 3.2 | 3.2 | ug/g | 100 | JLZ | 1/14/13 | 5777 | 1/16/13 | 23:10 | SW3540C8082 |
| PCB-1221 | < 3.2 | 3.2 | ug/g | 100 | JLZ | 1/14/13 | 5777 | 1/16/13 | 23:10 | SW3540C8082 |
| PCB-1232 | < 3.2 | 3.2 | ug/g | 100 | JLZ | 1/14/13 | 5777 | 1/16/13 | 23:10 | SW3540C8082 |
| PCB-1242 | < 3.2 | 3.2 | ug/g | 100 | JLZ | 1/14/13 | 5777 | 1/16/13 | 23:10 | SW3540C8082 |
| PCB-1248 | < 3.2 | 3.2 | ug/g | 100 | JLZ | 1/14/13 | 5777 | 1/16/13 | 23:10 | SW3540C8082 |
| PCB-1254 | < 3.2 | 3.2 | ug/g | 100 | JLZ | 1/14/13 | 5777 | 1/16/13 | 23:10 | SW3540C8082 |
| PCB-1260 | **85** | 3.2 | ug/g | 100 | JLZ | 1/14/13 | 5777 | 1/16/13 | 23:10 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **DOR** | 30-150 | % | 100 | JLZ | 1/14/13 | 5777 | 1/16/13 | 23:10 | SW3540C8082 |
| decachlorobiphenyl SUR | **DOR** | 30-150 | % | 100 | JLZ | 1/14/13 | 5777 | 1/16/13 | 23:10 | SW3540C8082 |

***DOR = Diluted out of range.***

**Sample#:** 25845-008
**Sample ID:** SE-SB-203 (5-7.5')
**Matrix:** Solid Percent Dry: 87.3% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 10:37

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.6 | 0.6 | ug/g | 20 | JLZ | 1/15/13 | 5777 | 1/18/13 | 13:27 | SW3540C8082 |
| PCB-1221 | < 0.6 | 0.6 | ug/g | 20 | JLZ | 1/15/13 | 5777 | 1/18/13 | 13:27 | SW3540C8082 |
| PCB-1232 | < 0.6 | 0.6 | ug/g | 20 | JLZ | 1/15/13 | 5777 | 1/18/13 | 13:27 | SW3540C8082 |
| PCB-1242 | < 0.6 | 0.6 | ug/g | 20 | JLZ | 1/15/13 | 5777 | 1/18/13 | 13:27 | SW3540C8082 |
| PCB-1248 | < 0.6 | 0.6 | ug/g | 20 | JLZ | 1/15/13 | 5777 | 1/18/13 | 13:27 | SW3540C8082 |
| PCB-1254 | < 0.6 | 0.6 | ug/g | 20 | JLZ | 1/15/13 | 5777 | 1/18/13 | 13:27 | SW3540C8082 |
| PCB-1260 | **11** | 0.6 | ug/g | 20 | JLZ | 1/15/13 | 5777 | 1/18/13 | 13:27 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **DOR** | 30-150 | % | 20 | JLZ | 1/15/13 | 5777 | 1/18/13 | 13:27 | SW3540C8082 |
| decachlorobiphenyl SUR | **DOR** | 30-150 | % | 20 | JLZ | 1/15/13 | 5777 | 1/18/13 | 13:27 | SW3540C8082 |

***DOR = Diluted out of range.***

**Project ID:** Maine Energy 12-3259.1
**Job ID:** 25845

**Sample#:** 25845-009
**Sample ID:** SE-SB-204 (3"-3')
**Matrix:** Solid Percent Dry: 93.1% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 10:56

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 1:42 | SW3540C8082 |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 1:42 | SW3540C8082 |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 1:42 | SW3540C8082 |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 1:42 | SW3540C8082 |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 1:42 | SW3540C8082 |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 1:42 | SW3540C8082 |
| PCB-1260 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 1:42 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **56** | 30-150 | % | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 1:42 | SW3540C8082 |
| decachlorobiphenyl SUR | **51** | 30-150 | % | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 1:42 | SW3540C8082 |

**Sample#:** 25845-010
**Sample ID:** SE-SB-204 (3-5')
**Matrix:** Solid Percent Dry: 88% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 11:09

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.3 | 0.3 | ug/g | 10 | JLZ | 1/15/13 | 5777 | 1/18/13 | 12:57 | SW3540C8082 |
| PCB-1221 | < 0.3 | 0.3 | ug/g | 10 | JLZ | 1/15/13 | 5777 | 1/18/13 | 12:57 | SW3540C8082 |
| PCB-1232 | < 0.3 | 0.3 | ug/g | 10 | JLZ | 1/15/13 | 5777 | 1/18/13 | 12:57 | SW3540C8082 |
| PCB-1242 | < 0.3 | 0.3 | ug/g | 10 | JLZ | 1/15/13 | 5777 | 1/18/13 | 12:57 | SW3540C8082 |
| PCB-1248 | < 0.3 | 0.3 | ug/g | 10 | JLZ | 1/15/13 | 5777 | 1/18/13 | 12:57 | SW3540C8082 |
| PCB-1254 | < 0.3 | 0.3 | ug/g | 10 | JLZ | 1/15/13 | 5777 | 1/18/13 | 12:57 | SW3540C8082 |
| PCB-1260 | **11** | 0.3 | ug/g | 10 | JLZ | 1/15/13 | 5777 | 1/18/13 | 12:57 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **DOR** | 30-150 | % | 10 | JLZ | 1/15/13 | 5777 | 1/18/13 | 12:57 | SW3540C8082 |
| decachlorobiphenyl SUR | **DOR** | 30-150 | % | 10 | JLZ | 1/15/13 | 5777 | 1/18/13 | 12:57 | SW3540C8082 |

***DOR = Diluted out of range.***



Absolute Resource associates

**Project ID:** Maine Energy 12-3259.1
**Job ID:** 25845

**Sample#:** 25845-011
**Sample ID:** SE-SB-205 (3"-3')
**Matrix:** Solid Percent Dry: 90.5% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 11:24

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 2:43 | SW3540C8082 |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 2:43 | SW3540C8082 |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 2:43 | SW3540C8082 |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 2:43 | SW3540C8082 |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 2:43 | SW3540C8082 |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 2:43 | SW3540C8082 |
| PCB-1260 | **0.07** | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 2:43 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **61** | 30-150 | % | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 2:43 | SW3540C8082 |
| decachlorobiphenyl SUR | **46** | 30-150 | % | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 2:43 | SW3540C8082 |

**Sample#:** 25845-012
**Sample ID:** SE-SB-205 (3.5-7.5')
**Matrix:** Solid Percent Dry: 94.9% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 11:32

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 3:13 | SW3540C8082 |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 3:13 | SW3540C8082 |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 3:13 | SW3540C8082 |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 3:13 | SW3540C8082 |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 3:13 | SW3540C8082 |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 3:13 | SW3540C8082 |
| PCB-1260 | **0.30** | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 3:13 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **60** | 30-150 | % | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 3:13 | SW3540C8082 |
| decachlorobiphenyl SUR | **44** | 30-150 | % | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 3:13 | SW3540C8082 |

**Project ID:** Maine Energy 12-3259.1
**Job ID:** 25845

**Sample#:** 25845-013
**Sample ID:** SE-SB-205 (10.5-12.5')
**Matrix:** Solid Percent Dry: 76.6% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 11:47

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 3:43 | SW3540C8082 |
| PCB-1221 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 3:43 | SW3540C8082 |
| PCB-1232 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 3:43 | SW3540C8082 |
| PCB-1242 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 3:43 | SW3540C8082 |
| PCB-1248 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 3:43 | SW3540C8082 |
| PCB-1254 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 3:43 | SW3540C8082 |
| PCB-1260 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 3:43 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **53** | 30-150 | % | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 3:43 | SW3540C8082 |
| decachlorobiphenyl SUR | **44** | 30-150 | % | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 3:43 | SW3540C8082 |

**Sample#:** 25845-014
**Sample ID:** SE-SB-210 (0-20")
**Matrix:** Solid Percent Dry: 83.3% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 14:20

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 4:14 | SW3540C8082 |
| PCB-1221 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 4:14 | SW3540C8082 |
| PCB-1232 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 4:14 | SW3540C8082 |
| PCB-1242 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 4:14 | SW3540C8082 |
| PCB-1248 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 4:14 | SW3540C8082 |
| PCB-1254 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 4:14 | SW3540C8082 |
| PCB-1260 | < 0.04 | 0.04 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 4:14 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **51** | 30-150 | % | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 4:14 | SW3540C8082 |
| decachlorobiphenyl SUR | **34** | 30-150 | % | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 4:14 | SW3540C8082 |

**Project ID:** Maine Energy 12-3259.1
**Job ID:** 25845

**Sample#:** 25845-015
**Sample ID:** SE-SB-211 (2"-3.5')
**Matrix:** Solid Percent Dry: 89.4% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 14:58

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 4:44 | SW3540C8082 |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 4:44 | SW3540C8082 |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 4:44 | SW3540C8082 |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 4:44 | SW3540C8082 |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 4:44 | SW3540C8082 |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 4:44 | SW3540C8082 |
| PCB-1260 | **0.23** | 0.0 | ug/g | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 4:44 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **63** | 30-150 | % | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 4:44 | SW3540C8082 |
| decachlorobiphenyl SUR | **33** | 30-150 | % | 1 | JLZ | 1/15/13 | 5777 | 1/17/13 | 4:44 | SW3540C8082 |

**Sample#:** 25845-016
**Sample ID:** SE-SB-211 (4-9')
**Matrix:** Solid Percent Dry: 87.2% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 15:03

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 1.6 | 1.6 | ug/g | 50 | JLZ | 1/15/13 | 5777 | 1/18/13 | 13:58 | SW3540C8082 |
| PCB-1221 | < 1.6 | 1.6 | ug/g | 50 | JLZ | 1/15/13 | 5777 | 1/18/13 | 13:58 | SW3540C8082 |
| PCB-1232 | < 1.6 | 1.6 | ug/g | 50 | JLZ | 1/15/13 | 5777 | 1/18/13 | 13:58 | SW3540C8082 |
| PCB-1242 | < 1.6 | 1.6 | ug/g | 50 | JLZ | 1/15/13 | 5777 | 1/18/13 | 13:58 | SW3540C8082 |
| PCB-1248 | < 1.6 | 1.6 | ug/g | 50 | JLZ | 1/15/13 | 5777 | 1/18/13 | 13:58 | SW3540C8082 |
| PCB-1254 | < 1.6 | 1.6 | ug/g | 50 | JLZ | 1/15/13 | 5777 | 1/18/13 | 13:58 | SW3540C8082 |
| PCB-1260 | **48** | 1.6 | ug/g | 50 | JLZ | 1/15/13 | 5777 | 1/18/13 | 13:58 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **DOR** | 30-150 | % | 50 | JLZ | 1/15/13 | 5777 | 1/18/13 | 13:58 | SW3540C8082 |
| decachlorobiphenyl SUR | **DOR** | 30-150 | % | 50 | JLZ | 1/15/13 | 5777 | 1/18/13 | 13:58 | SW3540C8082 |

***DOR = Diluted out of range.***



Absolute Resource associates

Absolute Resource associates
124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

# CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

25845

Company Name: SUMMIT ENVIRONMENTAL
Company Address: 640 MAIN ST. LEWISTON, ME
Report To: JOHN CRESSEY
Phone #: (207) 795-6009
Invoice To: SAME

Project Name: MAINE ENERGY
Project #: 12-3259.1
Project Location: NH MA (ME) VT Other
Protocol: (RCRA) MCP SDWA NHDES NPDES OTHER
Reporting Limits: QAPP EPA DW GW-1 Other S-1
Quote # 6434 ☐ NH GREE/ODD Fund Pricing
PO # 12-3259.1

## ANALYSIS REQUEST

☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP
☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only ☐ VOC 8021VT
☐ VPH MADEP ☐ MEGRO ☐ GRO 8015
☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List:
☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB 504.1
☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB
☐ O&G 1664 ☐ Mineral O&G SM5520F
☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity
☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity
☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness
☐ Total Metals-list:
☐ Dissolved Metals-list:
☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ TOC
☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN
☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P
☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride
☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP
☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide
Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde

| Lab Sample ID (Lab Use Only) | Field ID | # CONTAINERS | Matrix: WATER | SOLID | OTHER | Preservation Method: HCl | $HNO_3$ | $H_2SO_4$ | NaOH | MeOH | OTHER (Specify) 6°C | Sampling: DATE | TIME | SAMPLER | 8082 PCB | Grab (G) or Composite (C) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25845-01 | SE-SB-201 (3"-4') | 1 | | X | | | | | | | X | 1-10 | 9:30 | JKC | X | G |
| -02 | SE-SB-201 (4-5') | 1 | | X | | | | | | | X | 1-10 | 9:40 | JKC | X | G |
| -03 | SE-SB-202 (4"-25") | 1 | | X | | | | | | | X | 1-10 | 10:05 | JKC | X | G |
| -04 | SE-SB-202 (4-5') | 1 | | X | | | | | | | X | 1-10 | 1011 | JKC | X | G |
| -05 | SE-SB-203 (2"-25") | 1 | | X | | | | | | | X | 1-10 | 1025 | JKC | X | G |
| -06 | SE-SB-203 (3-4') | 1 | | X | | | | | | | X | 1-10 | 1031 | JKC | X | G |
| -07 | SE-SB-203 (4-5') | 1 | | X | | | | | | | X | 1-10 | 1033 | JKC | X | G |
| -08 | SE-SB-203 (5-7.5') | 1 | | X | | | | | | | X | 1-10 | 1037 | JKC | X | G |
| -09 | SE-SB-204 (3"-3') | 1 | | X | | | | | | | X | 1-10 | 1056 | JKC | X | G |
| -10 | SE-SB-204 (3-5') | 1 | | X | | | | | | | X | 1-10 | 1109 | JKC | X | G |
| -11 | SE-SB-205 (3"-3') | 1 | | X | | | | | | | X | 1-10 | 1124 | JKC | X | G |

**TAT REQUESTED**
Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☑
*Date Needed _____

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS SOXHLET EXTRACTION

REPORTING INSTRUCTIONS ☑ PDF (e-mail address) JCRESSEY@SUMMITENV.COM
☐ HARD COPY REQUIRED ☐ FAX (FAX#) _____ ☐ OTHER (specify) _____

RECEIVED ON ICE ☑ YES ☐ NO
TEMPERATURE 3 °C

**CUSTODY RECORD**
QSD-01 Revision 08/23/12

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| [signature] | 1-11-13 | 1224 | [signature] | 1/11/13 | 1224 |
| Relinquished by: | Date | Time | Received by: | Date | Time |
| Relinquished by: | Date | Time | Received by Laboratory: | Date | Time |

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Absolute Resource associates
124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

# CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

25845

Company Name: SUMMIT ENVIRONMENTAL
Company Address: 640 MAIN ST. LEWISTON, ME
Report To: JOHN CRESSEY
Phone #: (207) 795-6009
Invoice To: SAME

Project Name: MAINE ENERGY
Project #: 12-3259.1
Project Location: NH MA (ME) VT Other
Protocol: (RCRA) MCP SDWA NHDES NPDES OTHER
Reporting Limits: QAPP EPA DW GW-1 Other S-1
Quote # 6434 ☐ NH GREE/ODD Fund Pricing
PO # 12-3259.1

## ANALYSIS REQUEST

☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP
☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only ☐ VOC 8021VT
☐ VPH MADEP ☐ MEGRO ☐ GRO 8015
☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List:
☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB 504.1
☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB
☐ O&G 1664 ☐ Mineral O&G SM5520F
☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity
☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity
☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness
☐ Total Metals-list:
☐ Dissolved Metals-list:
☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ TOC
☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN
☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P
☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride
☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP
☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide
Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde
DIOXIN TEQ

| Lab Sample ID (Lab Use Only) | Field ID | # CONTAINERS | Matrix: WATER | SOLID | OTHER | Preservation Method: HCl | $HNO_3$ | $H_2SO_4$ | NaOH | MeOH | OTHER (Specify) GC | Sampling: DATE | TIME | SAMPLER | 8082 PCB | DIOXIN TEQ | Grab (G) or Composite (C) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25845-12 | SE-SB-205 (3.5-7.5) | 1 | | X | | | | | | | X | 1-10 | 1132 | JKC | X | | G |
| -13 | SE-SB-205 (10.5-12.5) | 1 | | X | | | | | | | X | 1-10 | 1147 | JKC | X | | G |
| -14 | SE-SB-210 (0-2.5) | 1 | | X | | | | | | | X | 1-10 | 1420 | JKC | X | | G |
| -15 | SE-SB-211 (2'-3.5') | 1 | | X | | | | | | | X | 1-10 | 1458 | JKC | X | | G |
| -16 | SE-SB-211 (4-9') | 1 | | X | | | | | | | X | 1-10 | 1503 | JKC | X | | G |
| -17 | SE-D-01 | 1 | | X | | | | | | | X | 1-11 | 900 | JKC | | X | G |
| -18 | SE-D-02 | 1 | | X | | | | | | | X | 1-11 | 913 | JKC | | X | G |
| -19 | SE-D-03 | 1 | | X | | | | | | | X | 1-11 | 919 | JKC | | X | G |
| -20 | SE-D-04 | 1 | | X | | | | | | | X | 1-11 | 929 | JKC | | X | G |
| -21 | SE-D-05 | 1 | | X | | | | | | | X | 1-11 | 934 | JKC | | X | G |
| -22 | SE-D-06 | 1 | | X | | | | | | | X | 1-11 | 944 | JKC | | X | G |

**TAT REQUESTED**
Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☑
*Date Needed _____

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS SOXHLET EXTRACTION FOR PCBS

REPORTING INSTRUCTIONS ☑ PDF (e-mail address) JCRESSEY@SUMMITENV.COM
☐ HARD COPY REQUIRED ☐ FAX (FAX#) _____ ☐ OTHER (specify) _____

RECEIVED ON ICE ☑ YES ☐ NO
TEMPERATURE 3 °C

**CUSTODY RECORD**
QSD-01 Revision 08/23/12

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| [signature] | 1-11-13 | 1224 | [signature] | 1/11/13 | 1224 |
| Relinquished by: | Date | Time | Received by: | Date | Time |
| Relinquished by: | Date | Time | Received by Laboratory: | Date | Time |

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Absolute Resource associates
124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

# CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Company Name: SUMMIT ENVIRONMENTAL
Company Address: 640 MAIN ST LEWISTON, ME 04240
Report To: JOHN CRESSEY
Phone #: (207) 795-6009
Invoice To: SAME

Project Name: MAINE ENERGY
Project #:
Project Location: NH MA (ME) VT Other
Protocol: (RCRA) MCP SDWA NHDES NPDES OTHER
Reporting Limits: QAPP EPA DW GW-1 Other S-1
Quote #_____ ☐ NH GREE/ODD Fund Pricing
PO # _____

## ANALYSIS REQUEST

☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP
☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only ☐ VOC 8021VT
☐ VPH MADEP ☐ MEGRO ☐ GRO 8015
☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List:
☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB 504.1
☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB
☐ O&G 1664 ☐ Mineral O&G SM5520F
☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity
☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity
☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness
☐ Total Metals-list:
☐ Dissolved Metals-list:
☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TDN ☐ TOC
☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN
☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P
☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride
☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP
☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide
Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde

| Lab Sample ID (Lab Use Only) | Field ID | # CONTAINERS | Matrix: WATER | Matrix: SOLID | Matrix: OTHER | Preservation Method: HCl | $HNO_3$ | $H_2SO_4$ | NaOH | MeOH | OTHER (Specify) | Sampling: DATE | TIME | SAMPLER | DIOXIN TEQ | Grab (G) or Composite (C) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25845-23 | SE-D-07 | 1 | | X | | | | | | | X | 1-11 | 947 | JCC | X | G |
| -24 | SE-D-08 | 1 | | X | | | | | | | X | 1-11 | 1000 | | X | G |
| -25 | SE-D-09 | 1 | | X | | | | | | | X | 1-11 | 955 | | X | G |
| -26 | SE-D-10 | 1 | | X | | | | | | | X | 1-11 | 1010 | | X | G |
| -27 | SE-D-11 | 1 | | X | | | | | | | X | 1-11 | 1032 | | X | G |
| -28 | SE-D-12 | 1 | | X | | | | | | | X | 1-11 | 1040 | | X | G |
| -29 | SE-D-13 | 1 | | X | | | | | | | X | 1-11 | 1148 | | X | G |
| -30 | SE-D-14 | 1 | | X | | | | | | | X | 1-11 | 1056 | | X | G |
| -31 | SE-D-15 | 1 | | X | | | | | | | X | 1-11 | 1110 | | X | G |

**TAT REQUESTED**
Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☒
*Date Needed _____

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS ☐ PDF (e-mail address)_____
☐ HARD COPY REQUIRED ☐ FAX (FAX#)_____ ☐ OTHER (specify)_____

RECEIVED ON ICE ☑ YES ☐ NO
TEMPERATURE 3 °C

**CUSTODY RECORD**
QSD-01 Revision 08/23/12

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Sampler: [signature] | 1-11-13 | 1224 | [signature] | 1/11/13 | 1224 |
| Relinquished by: | | | Received by: | | |
| Relinquished by: | | | Received by Laboratory: | | |

# Laboratory Report

Absolute Resource associates
124 Heritage Avenue Portsmouth NH 03801

John Cressey
Summit Environmental Consultants
434 Cony Rd
Augusta, ME 04330

PO Number: 12-3259.1
Job ID: 25852
Date Received: 1/11/13

Project: Maine Energy 12-3259.1

Attached please find results for the analysis of the samples received on the date referenced above.

The following report has been re-issued to correct a sample ID, as requested by the customer.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 2/15/2013
Total number of pages: 10

**Absolute Resource Associates Certifications**

| | | | |
|---|---|---|---|
| New Hampshire | 1732 | Massachusetts | M-NH902 |
| Maine | NH903 | | |

**Project ID:** Maine Energy 12-3259.1
**Job ID:** 25852

**Sample#:** 25852-001
**Sample ID:** SE-SB-206 (3"-2')
**Matrix:** Solid Percent Dry: 91.8% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 11:58

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/15/13 | 5777 | 1/18/13 | 12:26 | SW3540C8082 |
| PCB-1221 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/15/13 | 5777 | 1/18/13 | 12:26 | SW3540C8082 |
| PCB-1232 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/15/13 | 5777 | 1/18/13 | 12:26 | SW3540C8082 |
| PCB-1242 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/15/13 | 5777 | 1/18/13 | 12:26 | SW3540C8082 |
| PCB-1248 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/15/13 | 5777 | 1/18/13 | 12:26 | SW3540C8082 |
| PCB-1254 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/15/13 | 5777 | 1/18/13 | 12:26 | SW3540C8082 |
| PCB-1260 | **1.7** | 0.2 | ug/g | 5 | JLZ | 1/15/13 | 5777 | 1/18/13 | 12:26 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **51** | 30-150 | % | 5 | JLZ | 1/15/13 | 5777 | 1/18/13 | 12:26 | SW3540C8082 |
| decachlorobiphenyl SUR | **54** | 30-150 | % | 5 | JLZ | 1/15/13 | 5777 | 1/18/13 | 12:26 | SW3540C8082 |

**Sample#:** 25852-002
**Sample ID:** SE-SB-206 (2'-12')
**Matrix:** Solid Percent Dry: 93% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 12:01

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 15:36 | SW3540C8082 |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 15:36 | SW3540C8082 |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 15:36 | SW3540C8082 |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 15:36 | SW3540C8082 |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 15:36 | SW3540C8082 |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 15:36 | SW3540C8082 |
| PCB-1260 | **0.31** | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 15:36 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **61** | 30-150 | % | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 15:36 | SW3540C8082 |
| decachlorobiphenyl SUR | **76** | 30-150 | % | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 15:36 | SW3540C8082 |

**Project ID:** Maine Energy 12-3259.1
**Job ID:** 25852

**Sample#:** 25852-003
**Sample ID:** SE-SB-207 (3"-3')
**Matrix:** Solid Percent Dry: 92.5% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 12:48

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 15:06 | SW3540C8082 |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 15:06 | SW3540C8082 |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 15:06 | SW3540C8082 |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 15:06 | SW3540C8082 |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 15:06 | SW3540C8082 |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 15:06 | SW3540C8082 |
| PCB-1260 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 15:06 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **57** | 30-150 | % | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 15:06 | SW3540C8082 |
| decachlorobiphenyl SUR | **62** | 30-150 | % | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 15:06 | SW3540C8082 |

**Sample#:** 25852-004
**Sample ID:** SE-SB-207 (3'-4.5')
**Matrix:** Solid Percent Dry: 90.3% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 12:51

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.4 | 0.4 | ug/g | 10 | JLZ | 1/16/13 | 5786 | 1/18/13 | 23:23 | SW3540C8082 |
| PCB-1221 | < 0.4 | 0.4 | ug/g | 10 | JLZ | 1/16/13 | 5786 | 1/18/13 | 23:23 | SW3540C8082 |
| PCB-1232 | < 0.4 | 0.4 | ug/g | 10 | JLZ | 1/16/13 | 5786 | 1/18/13 | 23:23 | SW3540C8082 |
| PCB-1242 | < 0.4 | 0.4 | ug/g | 10 | JLZ | 1/16/13 | 5786 | 1/18/13 | 23:23 | SW3540C8082 |
| PCB-1248 | < 0.4 | 0.4 | ug/g | 10 | JLZ | 1/16/13 | 5786 | 1/18/13 | 23:23 | SW3540C8082 |
| PCB-1254 | < 0.4 | 0.4 | ug/g | 10 | JLZ | 1/16/13 | 5786 | 1/18/13 | 23:23 | SW3540C8082 |
| PCB-1260 | **6.3** | 0.4 | ug/g | 10 | JLZ | 1/16/13 | 5786 | 1/18/13 | 23:23 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **DOR** | 30-150 | % | 10 | JLZ | 1/16/13 | 5786 | 1/18/13 | 23:23 | SW3540C8082 |
| decachlorobiphenyl SUR | **DOR** | 30-150 | % | 10 | JLZ | 1/16/13 | 5786 | 1/18/13 | 23:23 | SW3540C8082 |

***DOR = Diluted out of range.***



Absolute Resource associates

**Project ID:** Maine Energy 12-3259.1
**Job ID:** 25852

**Sample#:** 25852-005
**Sample ID:** SE-SB-207 (5-6')
**Matrix:** Solid Percent Dry: 88.5% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 12:57

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/16/13 | 5786 | 1/18/13 | 23:53 | SW3540C8082 |
| PCB-1221 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/16/13 | 5786 | 1/18/13 | 23:53 | SW3540C8082 |
| PCB-1232 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/16/13 | 5786 | 1/18/13 | 23:53 | SW3540C8082 |
| PCB-1242 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/16/13 | 5786 | 1/18/13 | 23:53 | SW3540C8082 |
| PCB-1248 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/16/13 | 5786 | 1/18/13 | 23:53 | SW3540C8082 |
| PCB-1254 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/16/13 | 5786 | 1/18/13 | 23:53 | SW3540C8082 |
| PCB-1260 | **2.3** | 0.2 | ug/g | 5 | JLZ | 1/16/13 | 5786 | 1/18/13 | 23:53 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **46** | 30-150 | % | 5 | JLZ | 1/16/13 | 5786 | 1/18/13 | 23:53 | SW3540C8082 |
| decachlorobiphenyl SUR | **40** | 30-150 | % | 5 | JLZ | 1/16/13 | 5786 | 1/18/13 | 23:53 | SW3540C8082 |

**Sample#:** 25852-006
**Sample ID:** SE-SB-208 (3"-4')
**Matrix:** Solid Percent Dry: 93.9% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 13:10

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 16:47 | SW3540C8082 |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 16:47 | SW3540C8082 |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 16:47 | SW3540C8082 |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 16:47 | SW3540C8082 |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 16:47 | SW3540C8082 |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 16:47 | SW3540C8082 |
| PCB-1260 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 16:47 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **60** | 30-150 | % | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 16:47 | SW3540C8082 |
| decachlorobiphenyl SUR | **66** | 30-150 | % | 1 | JLZ | 1/16/13 | 5786 | 1/18/13 | 16:47 | SW3540C8082 |

**Project ID:** Maine Energy 12-3259.1
**Job ID:** 25852

**Sample#:** 25852-007
**Sample ID:** SE-SB-208 (4-6')
**Matrix:** Solid Percent Dry: 86.7% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 13:12

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/16/13 | 5786 | 1/21/13 | 16:10 | SW3540C8082 |
| PCB-1221 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/16/13 | 5786 | 1/21/13 | 16:10 | SW3540C8082 |
| PCB-1232 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/16/13 | 5786 | 1/21/13 | 16:10 | SW3540C8082 |
| PCB-1242 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/16/13 | 5786 | 1/21/13 | 16:10 | SW3540C8082 |
| PCB-1248 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/16/13 | 5786 | 1/21/13 | 16:10 | SW3540C8082 |
| PCB-1254 | < 0.2 | 0.2 | ug/g | 5 | JLZ | 1/16/13 | 5786 | 1/21/13 | 16:10 | SW3540C8082 |
| PCB-1260 | **2.5** | 0.2 | ug/g | 5 | JLZ | 1/16/13 | 5786 | 1/21/13 | 16:10 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **82** | 30-150 | % | 5 | JLZ | 1/16/13 | 5786 | 1/21/13 | 16:10 | SW3540C8082 |
| decachlorobiphenyl SUR | **54** | 30-150 | % | 5 | JLZ | 1/16/13 | 5786 | 1/21/13 | 16:10 | SW3540C8082 |

**Sample#:** 25852-008
**Sample ID:** SE-SB-208 (6-8')
**Matrix:** Solid Percent Dry: 84.5% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 13:16

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.4 | 0.4 | ug/g | 10 | JLZ | 1/16/13 | 5786 | 1/21/13 | 16:40 | SW3540C8082 |
| PCB-1221 | < 0.4 | 0.4 | ug/g | 10 | JLZ | 1/16/13 | 5786 | 1/21/13 | 16:40 | SW3540C8082 |
| PCB-1232 | < 0.4 | 0.4 | ug/g | 10 | JLZ | 1/16/13 | 5786 | 1/21/13 | 16:40 | SW3540C8082 |
| PCB-1242 | < 0.4 | 0.4 | ug/g | 10 | JLZ | 1/16/13 | 5786 | 1/21/13 | 16:40 | SW3540C8082 |
| PCB-1248 | < 0.4 | 0.4 | ug/g | 10 | JLZ | 1/16/13 | 5786 | 1/21/13 | 16:40 | SW3540C8082 |
| PCB-1254 | < 0.4 | 0.4 | ug/g | 10 | JLZ | 1/16/13 | 5786 | 1/21/13 | 16:40 | SW3540C8082 |
| PCB-1260 | **5.0** | 0.4 | ug/g | 10 | JLZ | 1/16/13 | 5786 | 1/21/13 | 16:40 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **DOR** | 30-150 | % | 10 | JLZ | 1/16/13 | 5786 | 1/21/13 | 16:40 | SW3540C8082 |
| decachlorobiphenyl SUR | **DOR** | 30-150 | % | 10 | JLZ | 1/16/13 | 5786 | 1/21/13 | 16:40 | SW3540C8082 |

***DOR = Diluted out of range.***



Absolute Resource associates

**Project ID:** Maine Energy 12-3259.1
**Job ID:** 25852

**Sample#:** 25852-009
**Sample ID:** SE-SB-208 (8-10')
**Matrix:** Solid Percent Dry: 77.6% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 13:23

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 2.1 | 2.1 | ug/g | 50 | JLZ | 1/17/13 | 5786 | 1/21/13 | 17:41 | SW3540C8082 |
| PCB-1221 | < 2.1 | 2.1 | ug/g | 50 | JLZ | 1/17/13 | 5786 | 1/21/13 | 17:41 | SW3540C8082 |
| PCB-1232 | < 2.1 | 2.1 | ug/g | 50 | JLZ | 1/17/13 | 5786 | 1/21/13 | 17:41 | SW3540C8082 |
| PCB-1242 | < 2.1 | 2.1 | ug/g | 50 | JLZ | 1/17/13 | 5786 | 1/21/13 | 17:41 | SW3540C8082 |
| PCB-1248 | < 2.1 | 2.1 | ug/g | 50 | JLZ | 1/17/13 | 5786 | 1/21/13 | 17:41 | SW3540C8082 |
| PCB-1254 | < 2.1 | 2.1 | ug/g | 50 | JLZ | 1/17/13 | 5786 | 1/21/13 | 17:41 | SW3540C8082 |
| PCB-1260 | **25** | 2.1 | ug/g | 50 | JLZ | 1/17/13 | 5786 | 1/21/13 | 17:41 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **DOR** | 30-150 | % | 50 | JLZ | 1/17/13 | 5786 | 1/21/13 | 17:41 | SW3540C8082 |
| decachlorobiphenyl SUR | **DOR** | 30-150 | % | 50 | JLZ | 1/17/13 | 5786 | 1/21/13 | 17:41 | SW3540C8082 |

***DOR = Diluted out of range.***

**Sample#:** 25852-010
**Sample ID:** SE-SB-209 (2"-3')
**Matrix:** Solid Percent Dry: 92.4% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 13:31

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/17/13 | 5786 | 1/18/13 | 21:52 | SW3540C8082 |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/17/13 | 5786 | 1/18/13 | 21:52 | SW3540C8082 |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/17/13 | 5786 | 1/18/13 | 21:52 | SW3540C8082 |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/17/13 | 5786 | 1/18/13 | 21:52 | SW3540C8082 |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/17/13 | 5786 | 1/18/13 | 21:52 | SW3540C8082 |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/17/13 | 5786 | 1/18/13 | 21:52 | SW3540C8082 |
| PCB-1260 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/17/13 | 5786 | 1/18/13 | 21:52 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **63** | 30-150 | % | 1 | JLZ | 1/17/13 | 5786 | 1/18/13 | 21:52 | SW3540C8082 |
| decachlorobiphenyl SUR | **70** | 30-150 | % | 1 | JLZ | 1/17/13 | 5786 | 1/18/13 | 21:52 | SW3540C8082 |

**Project ID:** Maine Energy 12-3259.1
**Job ID:** 25852

**Sample#:** 25852-011
**Sample ID:** SE-SB-209 (3-9')
**Matrix:** Solid Percent Dry: 87.1% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 13:37

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 360 | 360 | ug/g | 10000 | JLZ | 1/17/13 | 5786 | 1/21/13 | 15:36 | SW3540C8082 |
| PCB-1221 | < 360 | 360 | ug/g | 10000 | JLZ | 1/17/13 | 5786 | 1/21/13 | 15:36 | SW3540C8082 |
| PCB-1232 | < 360 | 360 | ug/g | 10000 | JLZ | 1/17/13 | 5786 | 1/21/13 | 15:36 | SW3540C8082 |
| PCB-1242 | < 360 | 360 | ug/g | 10000 | JLZ | 1/17/13 | 5786 | 1/21/13 | 15:36 | SW3540C8082 |
| PCB-1248 | < 360 | 360 | ug/g | 10000 | JLZ | 1/17/13 | 5786 | 1/21/13 | 15:36 | SW3540C8082 |
| PCB-1254 | < 360 | 360 | ug/g | 10000 | JLZ | 1/17/13 | 5786 | 1/21/13 | 15:36 | SW3540C8082 |
| PCB-1260 | **3500** | 360 | ug/g | 10000 | JLZ | 1/17/13 | 5786 | 1/21/13 | 15:36 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **DOR** | 30-150 | % | 10000 | JLZ | 1/17/13 | 5786 | 1/21/13 | 15:36 | SW3540C8082 |
| decachlorobiphenyl SUR | **DOR** | 30-150 | % | 10000 | JLZ | 1/17/13 | 5786 | 1/21/13 | 15:36 | SW3540C8082 |

***DOR = Diluted out of range.***

**Sample#:** 25852-012
**Sample ID:** SE-SB-209 (9-12.5')
**Matrix:** Solid Percent Dry: 89.1% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 13:45

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/17/13 | 5786 | 1/21/13 | 13:21 | SW3540C8082 |
| PCB-1221 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/17/13 | 5786 | 1/21/13 | 13:21 | SW3540C8082 |
| PCB-1232 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/17/13 | 5786 | 1/21/13 | 13:21 | SW3540C8082 |
| PCB-1242 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/17/13 | 5786 | 1/21/13 | 13:21 | SW3540C8082 |
| PCB-1248 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/17/13 | 5786 | 1/21/13 | 13:21 | SW3540C8082 |
| PCB-1254 | < 0.03 | 0.03 | ug/g | 1 | JLZ | 1/17/13 | 5786 | 1/21/13 | 13:21 | SW3540C8082 |
| PCB-1260 | **0.13** | 0.03 | ug/g | 1 | JLZ | 1/17/13 | 5786 | 1/21/13 | 13:21 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **74** | 30-150 | % | 1 | JLZ | 1/17/13 | 5786 | 1/21/13 | 13:21 | SW3540C8082 |
| decachlorobiphenyl SUR | **82** | 30-150 | % | 1 | JLZ | 1/17/13 | 5786 | 1/21/13 | 13:21 | SW3540C8082 |

**Project ID:** Maine Energy 12-3259.1
**Job ID:** 25852
**Sample#:** 25852-013
**Sample ID:** SE-SB-212 (2-20")
**Matrix:** Solid Percent Dry: 91.1% Results expressed on a dry weight basis.
**Sampled:** 1/10/13 14:45

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | < 0.6 | 0.6 | ug/g | 20 | JLZ | 1/17/13 | 5786 | 1/21/13 | 17:11 | SW3540C8082 |
| PCB-1221 | < 0.6 | 0.6 | ug/g | 20 | JLZ | 1/17/13 | 5786 | 1/21/13 | 17:11 | SW3540C8082 |
| PCB-1232 | < 0.6 | 0.6 | ug/g | 20 | JLZ | 1/17/13 | 5786 | 1/21/13 | 17:11 | SW3540C8082 |
| PCB-1242 | < 0.6 | 0.6 | ug/g | 20 | JLZ | 1/17/13 | 5786 | 1/21/13 | 17:11 | SW3540C8082 |
| PCB-1248 | < 0.6 | 0.6 | ug/g | 20 | JLZ | 1/17/13 | 5786 | 1/21/13 | 17:11 | SW3540C8082 |
| PCB-1254 | < 0.6 | 0.6 | ug/g | 20 | JLZ | 1/17/13 | 5786 | 1/21/13 | 17:11 | SW3540C8082 |
| PCB-1260 | **7.1** | 0.6 | ug/g | 20 | JLZ | 1/17/13 | 5786 | 1/21/13 | 17:11 | SW3540C8082 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| tetrachloro-m-xylene SUR | **DOR** | 30-150 | % | 20 | JLZ | 1/17/13 | 5786 | 1/21/13 | 17:11 | SW3540C8082 |
| decachlorobiphenyl SUR | **DOR** | 30-150 | % | 20 | JLZ | 1/17/13 | 5786 | 1/21/13 | 17:11 | SW3540C8082 |

***DOR = Diluted out of range.***



Absolute Resource associates

SET #2 – ANALYZE ONLY AFTER TALKING WITH SUMMIT



Absolute Resource associates
124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

# CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

25852

Company Name: SUMMIT ENVIRONMENTAL

Company Address: 640 MAIN ST. LEWISTON, ME 04240

Report To: JOHN CRESSEY

Phone #: (207) 795-6009

Invoice To: SAME

Project Name: MAINE ENERGY

Project #: 12-3259.1

Project Location: NH MA (ME) VT Other

Protocol: (RCRA) MCP SDWA NHDES NPDES OTHER

Reporting Limits: QAPP EPA DW GW-1 Other S-1

Quote # 6434 ☐ NH GREE/ODD Fund Pricing

PO # 12-3259.1

## ANALYSIS REQUEST

☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP
☐ VOC 624 ☐ VOC BTEX ☐ MBE, only ☐ VOC 8021VT
☐ VPH MADEP ☐ MEGRO ☐ GRO 8015
☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List:
☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB 504.1
☒ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB
☐ O&G 1664 ☐ Mineral O&G SM5520F
☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity
☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity
☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness
☐ Total Metals-list:
☐ Dissolved Metals-list:
☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ TOC
☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN
☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P
☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride
☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP
☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide
Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde

| Lab Sample ID (Lab Use Only) | Field ID | # CONTAINERS | Matrix: WATER | Matrix: SOLID | Matrix: OTHER | Preservation Method: HCl | $HNO_3$ | $H_2SO_4$ | NaOH | MeOH | OTHER (Specify) | Sampling: DATE | TIME | SAMPLER | Grab (G) or Composite (C) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25852-01 | SE-SB-206 (3"-2') | 1 | | X | | | | | | | X | 1-10 | 1158 | JKC | G |
| -02 | SE-SB-206 (2'-12") | 1 | | X | | | | | | | X | 1-10 | 1201 | JKC | G |
| -03 | SE-SB-207 (3"-3') | 1 | | X | | | | | | | X | 1-10 | 1248 | JKC | G |
| -04 | SE-SB-207 (3'-4.5') | 1 | | X | | | | | | | X | 1-10 | 1251 | JKC | G |
| -05 | SE-SB-207 (5-6') | 1 | | X | | | | | | | X | 1-10 | 1257 | JKC | G |
| -06 | SE-SB-208 (3"-4") | 1 | | X | | | | | | | X | 1-10 | 1310 | JKC | G |
| -07 | SE-SB-208 (4-6') | 1 | | X | | | | | | | X | 1-10 | 1312 | JKC | G |
| -08 | SE-SB-208 (6-8') | 1 | | X | | | | | | | X | 1-10 | 1316 | JKC | G |
| -09 | SE-SB-208 (8-10') | 1 | | X | | | | | | | X | 1-10 | 1323 | JKC | G |
| -10 | SE-SB-209 (2"-3') | 1 | | X | | | | | | | X | 1-10 | 1331 | JKC | G |
| -11 | SE-SB-209 (3-9") | 1 | | X | | | | | | | X | 1-10 | 1337 | JKC | G |

**TAT REQUESTED**
Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☐
*Date Needed _____

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS SOXHLET EXTRACTION
ANALYZE ONLY AFTER AUTHORIZATION FROM JOHN CRESSEY
← Per call from John 1/11/13, proceed w/ analysis of these samples

REPORTING INSTRUCTIONS ☐ PDF (e-mail address) JCRESSEY@SUMMITENV.COM
☐ HARD COPY REQUIRED ☐ FAX (FAX#) _____ ☐ OTHER (specify) _____

RECEIVED ON ICE ☑ YES ☐ NO
TEMPERATURE 3 °C

**CUSTODY RECORD**
QSD-01 Revision 08/23/12

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Sampler: | 1-11-13 | 1224 | | 1/11/13 | 1224 |
| Relinquished by: | | | Received by: | | |
| Relinquished by: | | | Received by Laboratory: | | |

SET #2



Absolute Resource associates
124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

# CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

25852

Company Name: Summit Environmental
Company Address: 640 Main St. Lewiston, ME
Report To: John Cressey
Phone #: (207) 795-6009
Invoice To: Same

Project Name: Maine Energy
Project #: 12-3259.1
Project Location: NH MA (ME) VT Other
Protocol: (RCRA) MCP SDWA NHDES NPDES OTHER
Reporting Limits: QAPP EPA DW GW-1 Other S-1
Quote # 6434 ☐ NH GREE/ODD Fund Pricing
PO # 12-3259.1

## ANALYSIS REQUEST

☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP
☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only ☐ VOC 8021VT
☐ VPH MADEP ☐ MEGRO ☐ GRO 8015
☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List:
☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB 504.1
☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB
☐ O&G 1664 ☐ Mineral O&G SM5520F
☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity
☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity
☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness
☐ Total Metals-list:
☐ Dissolved Metals-list:
☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ TOC
☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN
☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P
☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride
☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP
☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide
Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde
Grab (G) or Composite (C)

| Lab Sample ID (Lab Use Only) | Field ID | # CONTAINERS | Matrix: WATER | SOLID | OTHER | Preservation Method: HCl | $HNO_3$ | $H_2SO_4$ | NaOH | MeOH | OTHER (Specify) 6°C | Sampling: DATE | TIME | SAMPLER | 8082 PCB | 8081 Pesticides | Grab (G) or Composite (C) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25852-12 | SE-SS-209(9-12.5) | 1 | | X | | | | | | | X | 1-10 | 1345 | JKC | | X | G |
| -13 | SE-SS-212(2-2.5) | 1 | | X | | | | | | | X | 1-10 | 1445 | JKC | | X | G |

**TAT REQUESTED**
Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☐
*Date Needed _____

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS SOXHLET EXTRACTION
ANALYZE AFTER AUTHORIZATION FROM JOHN CRESSEY
Per call from John 1/14/13, proceed w/analysis of these samples. JS

REPORTING INSTRUCTIONS ☒ PDF (e-mail address) JCressey@SummitEnv.com
☐ HARD COPY REQUIRED ☐ FAX (FAX#) ☐ OTHER (specify)

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 3 °C

**CUSTODY RECORD**
QSD-01 Revision 08/23/12

| Relinquished by Sampler: | Date 1-11-13 | Time 1224 | Received by: | Date 1/11/13 | Time 1224 |
|---|---|---|---|---|---|
| Relinquished by: | Date | Time | Received by: | Date | Time |
| Relinquished by: | Date | Time | Received by Laboratory: | Date | Time |

10

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

February 27, 2013

Mr. John Cressey
Summit Environmental
640 Main Street
Lewiston ME 04240

**RE: Analytical Results Case Narrative**
**Analytics # 74873**
**Maine Energy**
**Project No: 12-3259.1**

Dear Mr. Cressey;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082A.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples
PCB Form 3 MS/MSD (LCS) Recoveries and Blanks
Chromatograms
Chain of Custody (COC) Forms

## QC NON CONFORMANCE SUMMARY

**Sample Receipt:**
No exceptions.

**PCBs by EPA Method 8082:**
No results were reported below the quantitation limit.

All samples except 74873-1, 74873-3 and 74873-19 required dilution due to concentrations of PCBs that exceeded the calibration range of the instrument.

Sample 74873-18 had high recoveries for surrogate Tetrachloro-m-xylene. Decachlorobiphenyl surrogate recoveries were in control. Results were reported with a comment to this affect. Some samples had interference that prevented the determination of a surrogate recovery. Results were reported off the column without interferences when possible, or the sample was reported with a comment to this affect.

The MS/MSD analyzed on sample 74873-1 had some high RPDs (see form 3). The laboratory control samples(L022013PSOX2,RR/LD022013PSOX2, RR) were in control. Results were reported without qualification.

The MS/MSD analyzed on sample 74873-16 was only assessed for precision of PCB 1260 due to the parent sample having concentrations of PCB 1260 that exceeded the calibration range of the instrument. The RPDs for the MS/MSD did not meet acceptance criteria. The laboratory control samples (L022513PSOX/LD022513PSOX) were in control for all recoveries and RPDs. Results were reported without qualification.

If you have any questions on this data submittal, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen Knollmeyer
Laboratory Director

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

**Report Number: 74873**

**Revision: Rev. 0**

**Re: MAINE ENERGY (Project No: 12-3259.1)**

Enclosed are the results of the analyses on your sample(s). Samples were received on 20 February 2013 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

**Sample Analysis:** The attached pages detail the Client Sample IDs, Lab Sample IDs, and Analyses requested

**Sample Receipt Exceptions:** None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 2/27/2013

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analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

**CLIENT: Summit Environmental Consultants Inc.** **REPORT NUMBER: 74873** **REV: Rev. 0**

**PROJECT: MAINE ENERGY (Project No: 12-3259.1)**

| Lab Number | Sample Date | Station Location | Analysis | Comments |
|---|---|---|---|---|
| 74873-1 | 02/19/13 | SE-SB-216 (2.5"-24") | EPA 8082 (PCBs only) | |
| 74873-2 | 02/19/13 | SE-SB-216 (2-4') | EPA 8082 (PCBs only) | |
| 74873-3 | 02/19/13 | SE-SB-216 (4-6') | EPA 8082 (PCBs only) | |
| 74873-4 | 02/19/13 | SE-SB-215 (0-2') | EPA 8082 (PCBs only) | |
| 74873-5 | 02/19/13 | SE-SB-215 (2-4') | EPA 8082 (PCBs only) | |
| 74873-6 | 02/19/13 | SE-SB-215 (4-6') | EPA 8082 (PCBs only) | |
| 74873-7 | 02/19/13 | SE-SB-215 (6-8') | EPA 8082 (PCBs only) | |
| 74873-8 | 02/19/13 | SE-SB-215 (8-10') | EPA 8082 (PCBs only) | |
| 74873-9 | 02/19/13 | SE-SB-214 (0-2') | EPA 8082 (PCBs only) | |
| 74873-10 | 02/19/13 | SE-SB-214 (2-4') | EPA 8082 (PCBs only) | |
| 74873-11 | 02/19/13 | SE-SB-214 (4-6') | EPA 8082 (PCBs only) | |
| 74873-12 | 02/19/13 | SE-SB-214 (6-7') | EPA 8082 (PCBs only) | |
| 74873-13 | 02/19/13 | SE-SB-213 (0-2') | EPA 8082 (PCBs only) | |
| 74873-14 | 02/19/13 | SE-SB-213 (2-4') | EPA 8082 (PCBs only) | |
| 74873-15 | 02/19/13 | SE-SB-213 (4-6') | EPA 8082 (PCBs only) | |
| 74873-16 | 02/19/13 | SE-SB-213 (6-7.5') | EPA 8082 (PCBs only) | |
| 74873-17 | 02/19/13 | SE-SB-217 (0-2') | EPA 8082 (PCBs only) | |
| 74873-18 | 02/19/13 | SE-SB-217 (2-4') | EPA 8082 (PCBs only) | |
| 74873-19 | 02/19/13 | SE-SB-217 (4-6') | EPA 8082 (PCBs only) | |
| 74873-20 | 02/19/13 | SE-SB-217 (8-10') | EPA 8082 (PCBs only) | |

analytics environmental laboratory LLC

## Surrogate Compound Limits

| Matrix: | Aqueous | Solid | |
|---|---|---|---|
| Units: | % Recovery | % Recovery | Method |
| **Volatile Organic Compounds - Drinking Water** | | | |
| 1,4-Difluorobenzene | 70-130 | | EPA 524.2 |
| Bromofluorobenzene | 70-130 | | |
| 1,2-Dichlorobenzene-d4 | 70-130 | | |
| **Volatile Organic Compounds** | | | |
| 1,2-Dichloroethane-d4 | 70-120 | 70-120 | EPA 624/8260B |
| Toluene-d8 | 85-120 | 85-120 | |
| Bromofluorobenzene | 75-120 | 75-120 | |
| **Semi-Volatile Organic Compounds** | | | |
| 2-Fluorophenol | 20-110 | 35-105 | EPA 625/8270C |
| d5-Phenol | 15-110 | 40-100 | |
| d5-nitrobenzene | 40-110 | 35-100 | |
| 2-Fluorobiphenyl | 50-110 | 45-105 | |
| 2,4,6-Tribromophenol | 40-110 | 40-125 | |
| d14-p-terphenyl | 50-130 | 30-125 | |
| **PAH's by SIM** | | | |
| d5-nitrobenzene | 21-110 | 35-110 | EPA 8270C |
| 2-Fluorobiphenyl | 36-121 | 45-105 | |
| d14-p-terphenyl | 33-141 | 30-125 | |
| **Pesticides and PCBs** | | | |
| 2,4,5,6-Tetrachloro-m-xylene (TCX) | 46-122 | 40-130 | EPA 608/8082 |
| Decachlorobiphenyl (DCB) | 40-135 | 40-130 | |
| **Herbicides** | | | |
| Dichloroacetic acid (DCAA) | 30-150 | 30-150 | |
| **Gasoline Range Organics/TPH Gasoline** | | | |
| Trifluorotoluene TFT (FID) | 60-140 | 60-140 | MEDEP 4217/EPA 8015 |
| Bromofluorobenzene (BFB) (FID) | 60-140 | 60-140 | |
| Trifluorotoluene TFT (PID) | 60-140 | 60-140 | |
| Bromofluorobenzene (BFB) (PID) | 60-140 | 60-140 | |
| **Diesel Range Organics/TPH Diesel** | | | |
| m-terphenyl | 60-140 | 60-140 | MEDEP 4125/EPA 8015/CT ETPH |
| **Volatile Petroleum Hydrocarbons** | | | |
| 2,5-Dibromotoluene (PID) | 70-130 | 70-130 | MADEP VPH May 2004 Rev1.1 |
| 2,5-Dibromotoluene (FID) | 70-130 | 70-130 | |
| **Extracatable Petroleum Hydrocarbons** | | | |
| 1-chloro-octadecane (aliphatic) | 40-140 | 40-140 | MADEP EPH May 2004 Rev1.1 |
| o-Terphenyl (aromatic) | 40-140 | 40-140 | |
| 2-Fluorobiphenyl (Fractionation) | 40-140 | 40-140 | |
| 2-Bromonaphthalene (fractionation) | 40-140 | 40-140 | |

# PCB
# DATA SUMMARIES

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 22, 2013

**SAMPLE DATA**

**CLIENT SAMPLE ID**

**Project Name:** MAINE ENERGY

**Project Number:** 12-3259.1

**Field Sample ID:** SE-SB-216 (2.5"-24")

**Lab Sample ID:** 74873-1 RR
**Matrix:** Solid
**Percent Solid:** 95
**Dilution Factor:** 1.0
**Collection Date:** 02/19/13
**Lab Receipt Date:** 02/20/13
**Extraction Date:** 02/20/13
**Analysis Date:** 02/22/13

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | **65** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 90 | % |
| Decachlorobiphenyl | 75 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873
Sample: 74873-1,RR,,A/C
Data File: M67211.D
Dilution Factor: 1.0

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 65 | 64 | 2.9 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

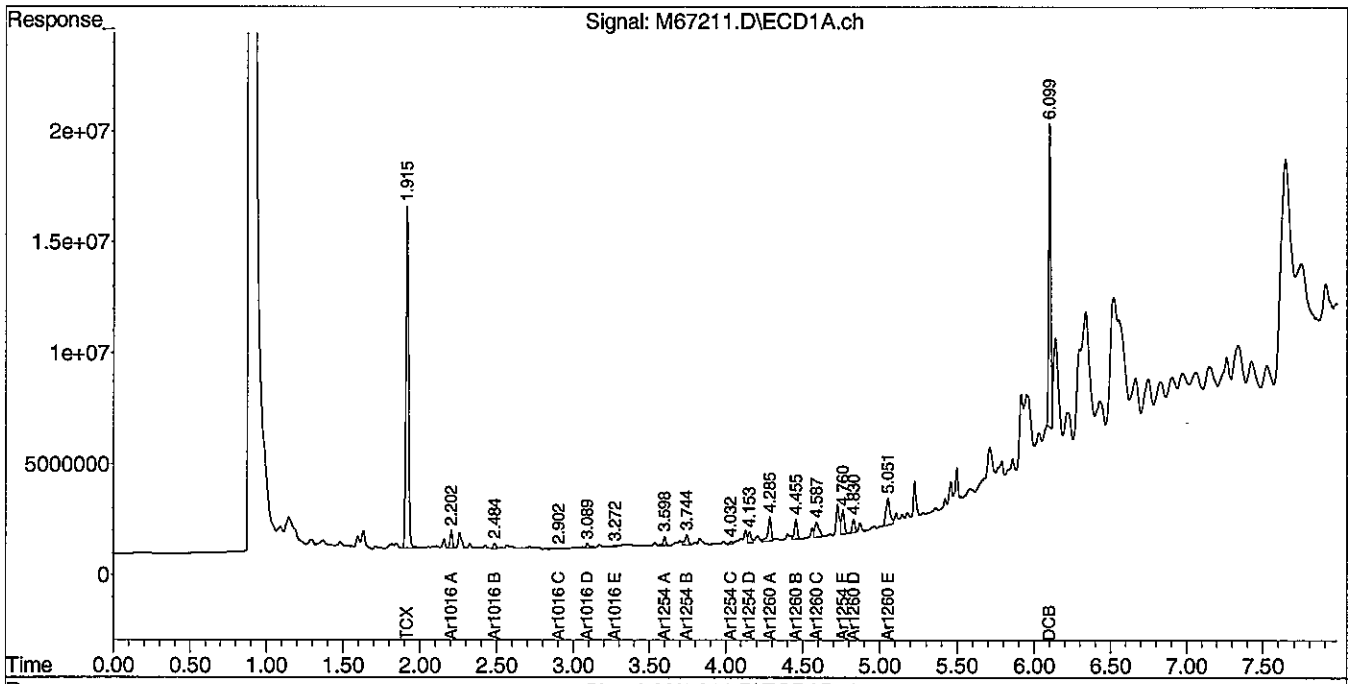
Comments: _____

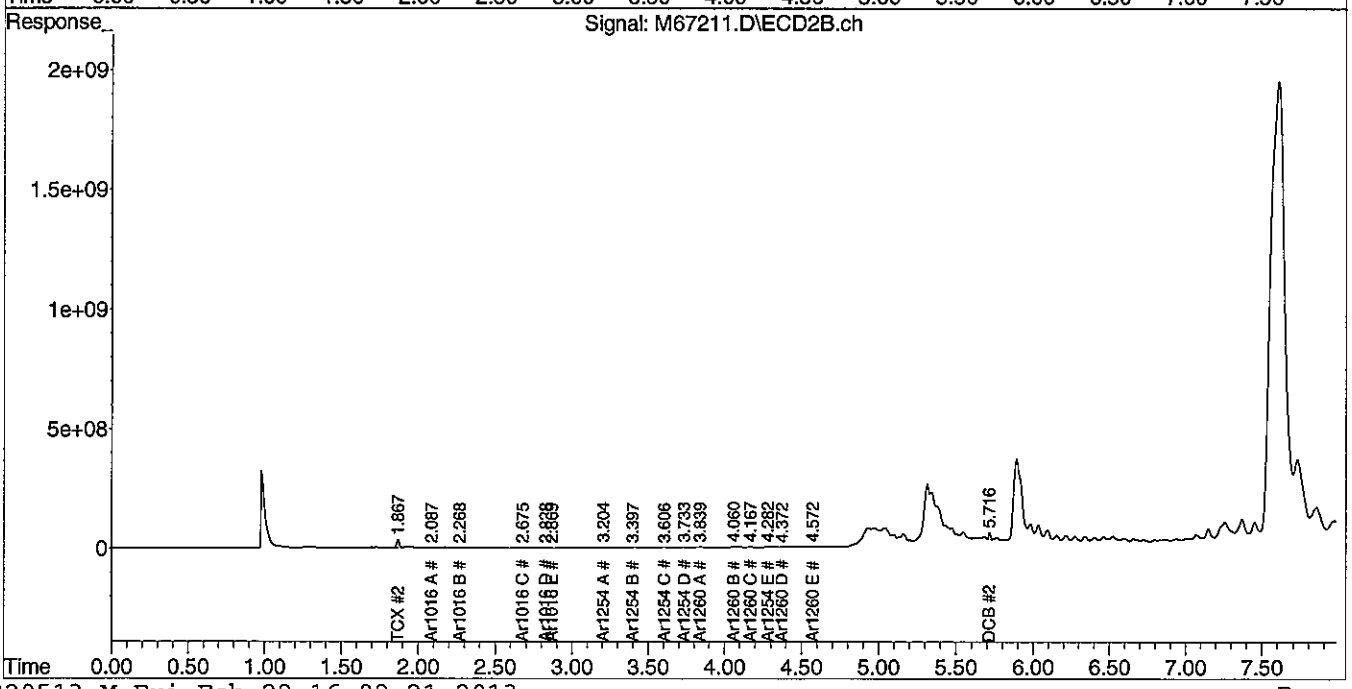
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022213-M\
Data File : M67211.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2013 10:46 am
Operator : JK
Sample : 74873-1,RR,,A/C
Misc : SOIL
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 22 16:02:08 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 22 09:21:30 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 22, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74873-2 |
| **Matrix:** | Solid |
| **Percent Solid:** | 92 |
| **Dilution Factor:** | 21 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/20/13 |
| **Analysis Date:** | 02/22/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-216 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 693 | U |
| PCB-1221 | 693 | U |
| PCB-1232 | 693 | U |
| PCB-1242 | 693 | U |
| PCB-1248 | 693 | U |
| PCB-1254 | 693 | U |
| PCB-1260 | 693 | **12900** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873
Sample: 74873-2,1:20,,A/C
Data File: M67214.D
Dilution Factor: 21.1

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 12942 | 10661 | 19.3 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

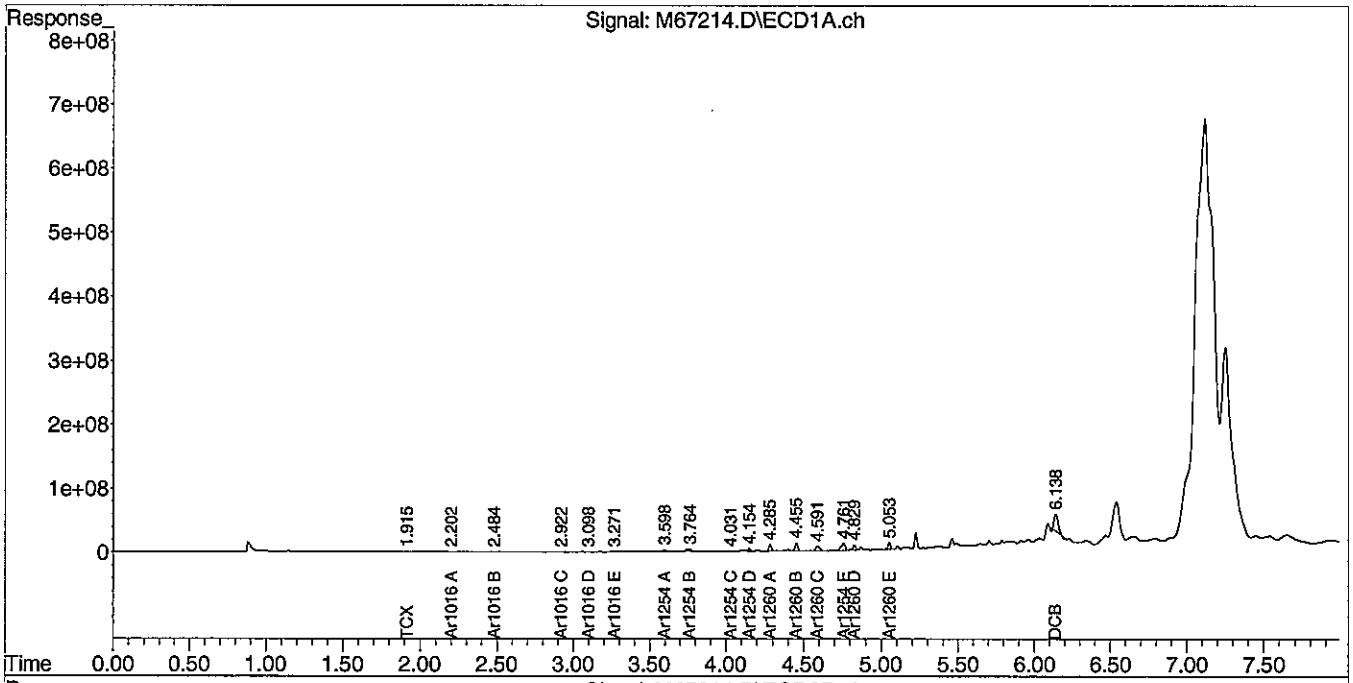
Comments: _____

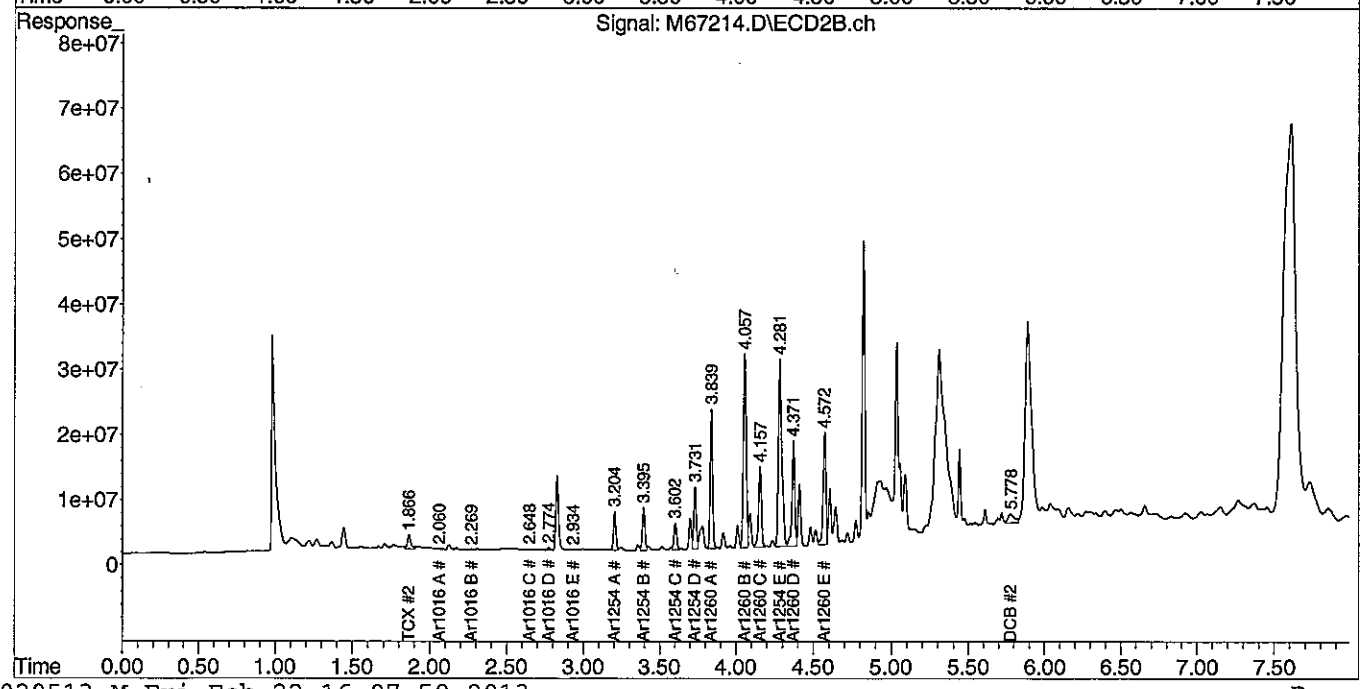
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022213-M\
Data File : M67214.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2013 11:16 am
Operator : JK
Sample : 74873-2,1:20,,A/C
Misc : SOIL
ALS Vial : 13 Sample Multiplier: 1

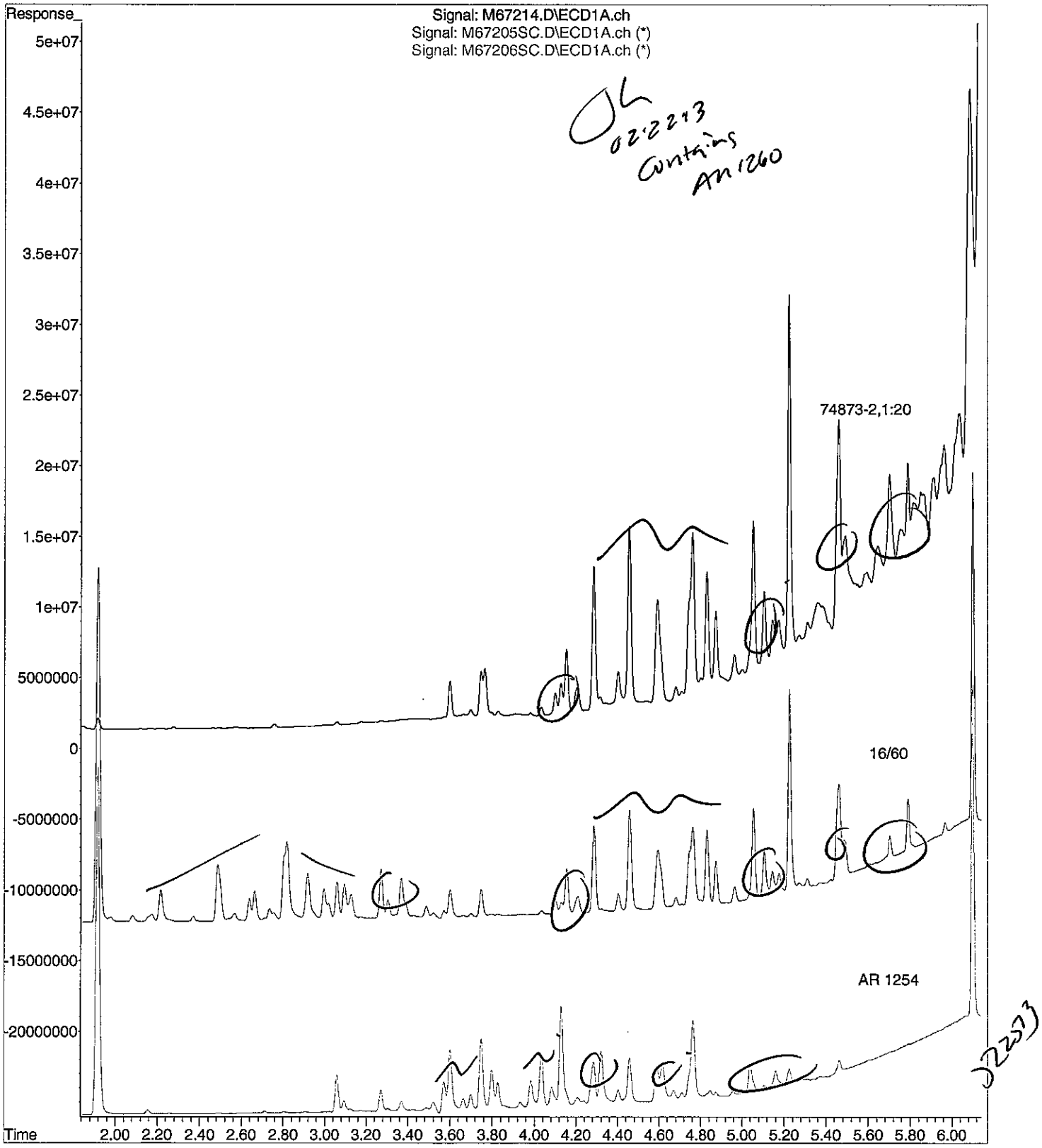
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 22 15:57:46 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 22 09:21:30 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\022213-M\M67214.D
Operator : JK
Acquired : 22 Feb 2013 11:16 am using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 74873-2,1:20,,A/C
Misc Info : SOIL
Vial Number: 13



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 22, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74873-3 RR |
| **Matrix:** | Solid |
| **Percent Solid:** | 92 |
| **Dilution Factor:** | 1.0 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/20/13 |
| **Analysis Date:** | 02/22/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-216 (4-6') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 112 | % |
| Decachlorobiphenyl | 76 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

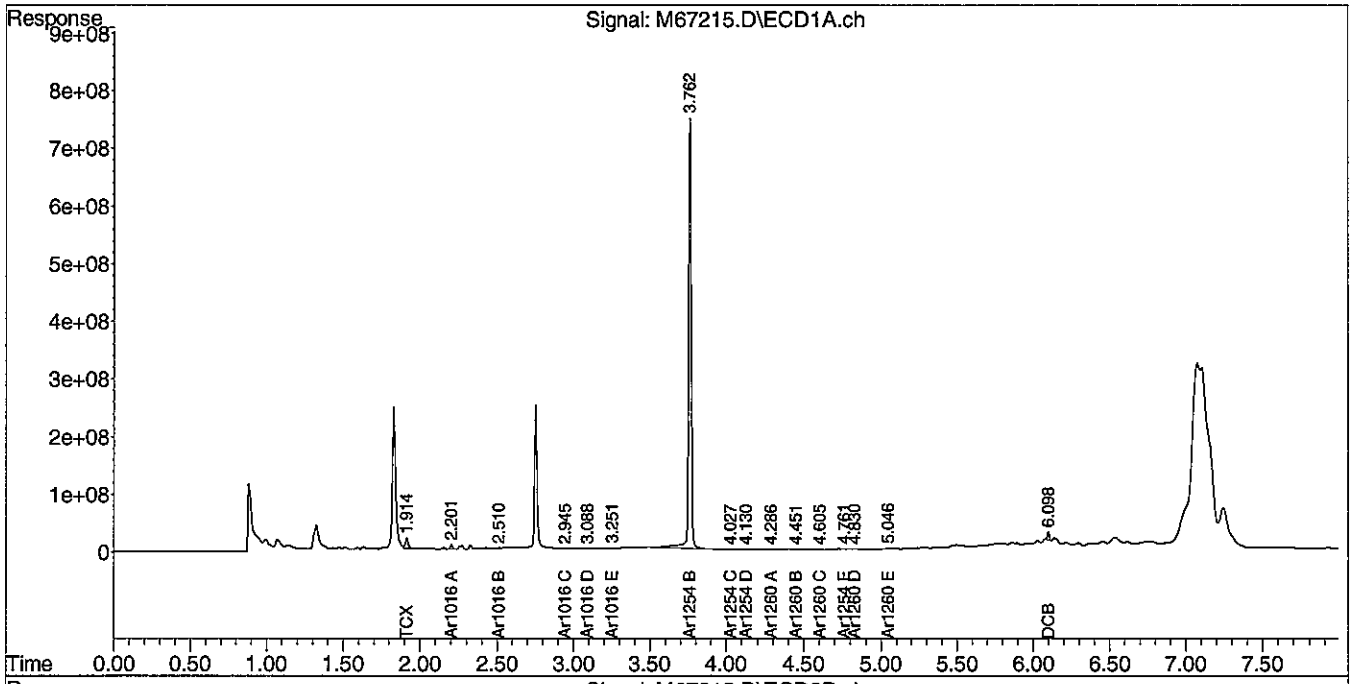
PCB Report

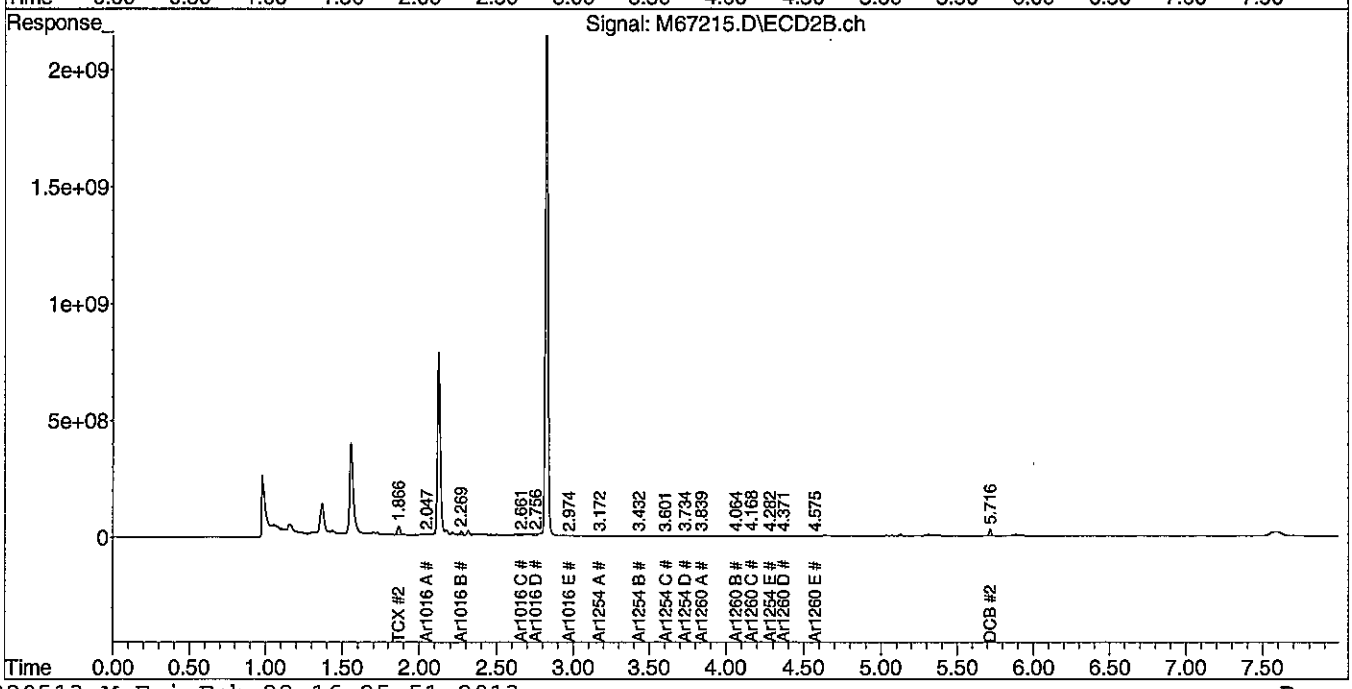
Authorized signature

Data Path : C:\msdchem\1\DATA\022213-M\
Data File : M67215.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2013 11:27 am
Operator : JK
Sample : 74873-3,RR,,A/C
Misc : SOIL
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 22 16:23:45 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 22 09:21:30 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 22, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74873-4 |
| **Matrix:** | Solid |
| **Percent Solid:** | 97 |
| **Dilution Factor:** | 5.0 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/20/13 |
| **Analysis Date:** | 02/22/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-215 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 165 | U |
| PCB-1221 | 165 | U |
| PCB-1232 | 165 | U |
| PCB-1242 | 165 | U |
| PCB-1248 | 165 | U |
| PCB-1254 | 165 | U |
| PCB-1260 | 165 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 102 | % |
| Decachlorobiphenyl | 102 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* Quantitation limits increased due to the sample matrix affect.

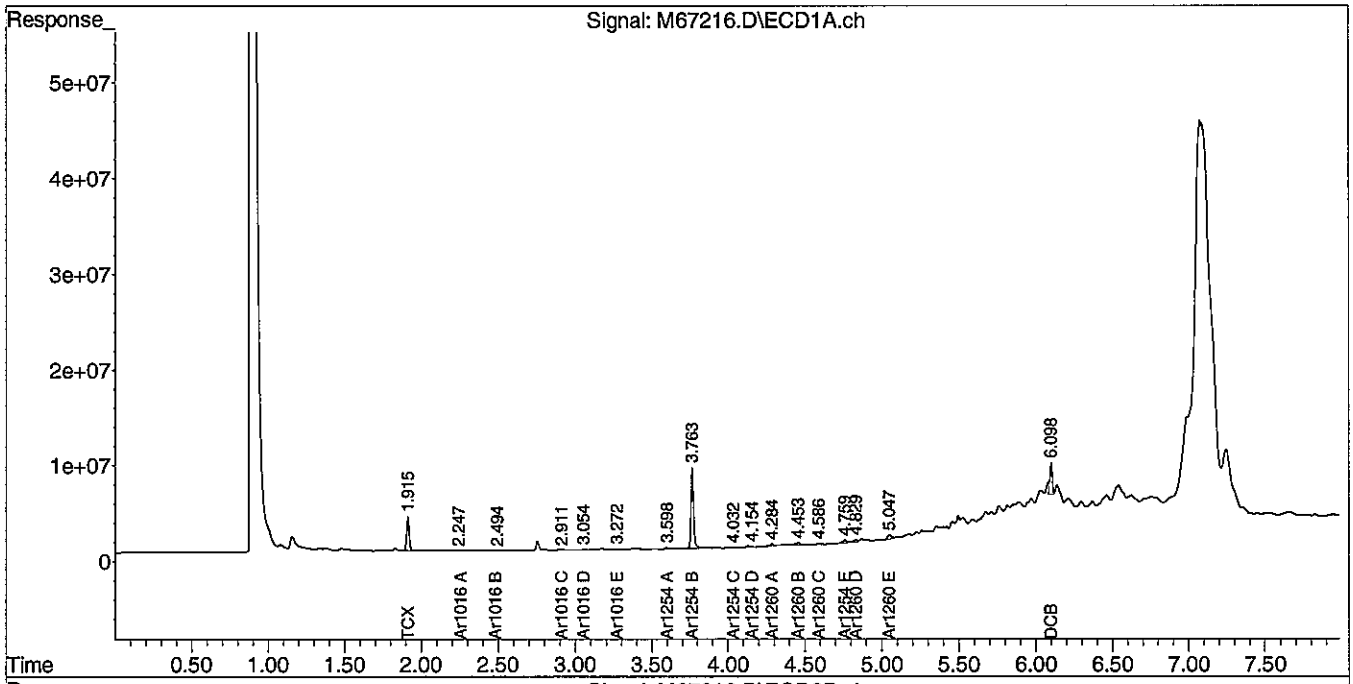
PCB Report

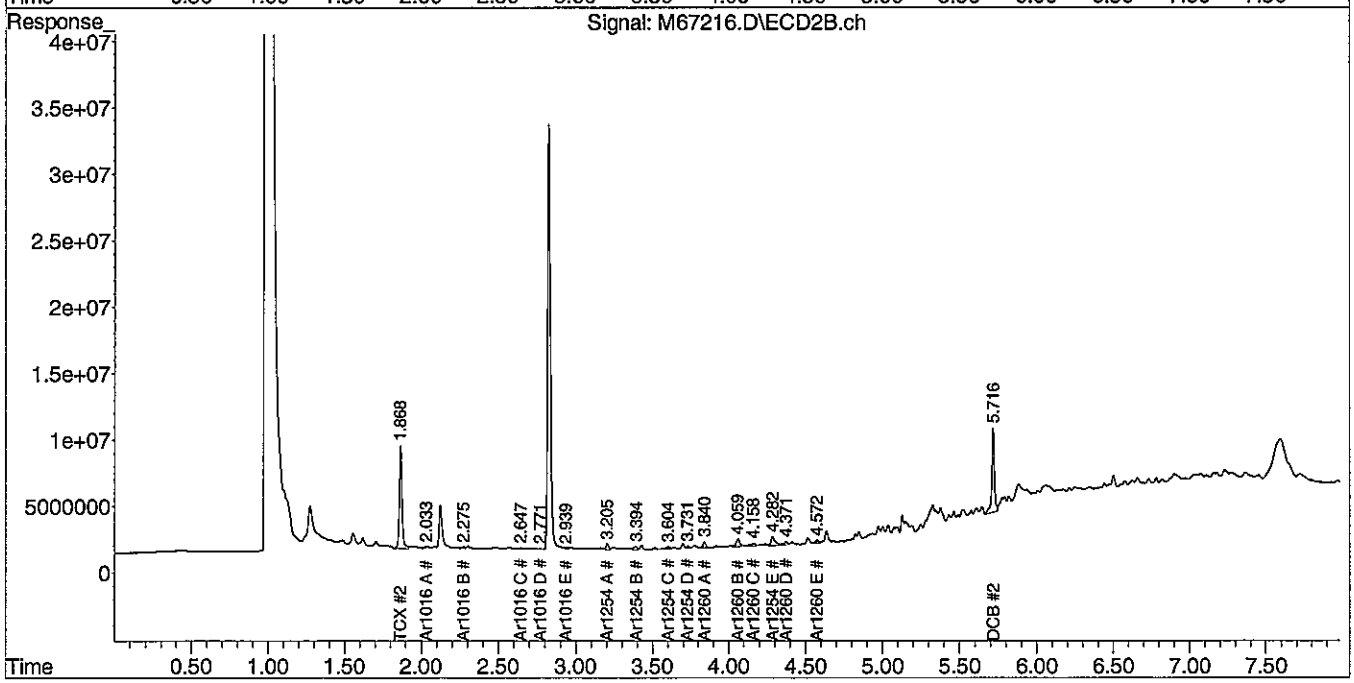
Authorized signature

Data Path : C:\msdchem\1\DATA\022213-M\
Data File : M67216.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2013 11:37 am
Operator : JK
Sample : 74873-4,1:5,,A/C
Misc : SOIL
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 22 16:26:09 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 22 09:21:30 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 22, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74873-5 |
| **Matrix:** | Solid |
| **Percent Solid:** | 93 |
| **Dilution Factor:** | 5 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/20/13 |
| **Analysis Date:** | 02/22/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-215 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 165 | U |
| PCB-1221 | 165 | U |
| PCB-1232 | 165 | U |
| PCB-1242 | 165 | U |
| PCB-1248 | 165 | U |
| PCB-1254 | 165 | U |
| PCB-1260 | 165 | **3210** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 84 | % |
| Decachlorobiphenyl | 52 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873
Sample: 74873-5,1:5,,A/C
Data File: M67217.D
Dilution Factor: 5.1

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 3213 | 2856 | 11.7 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

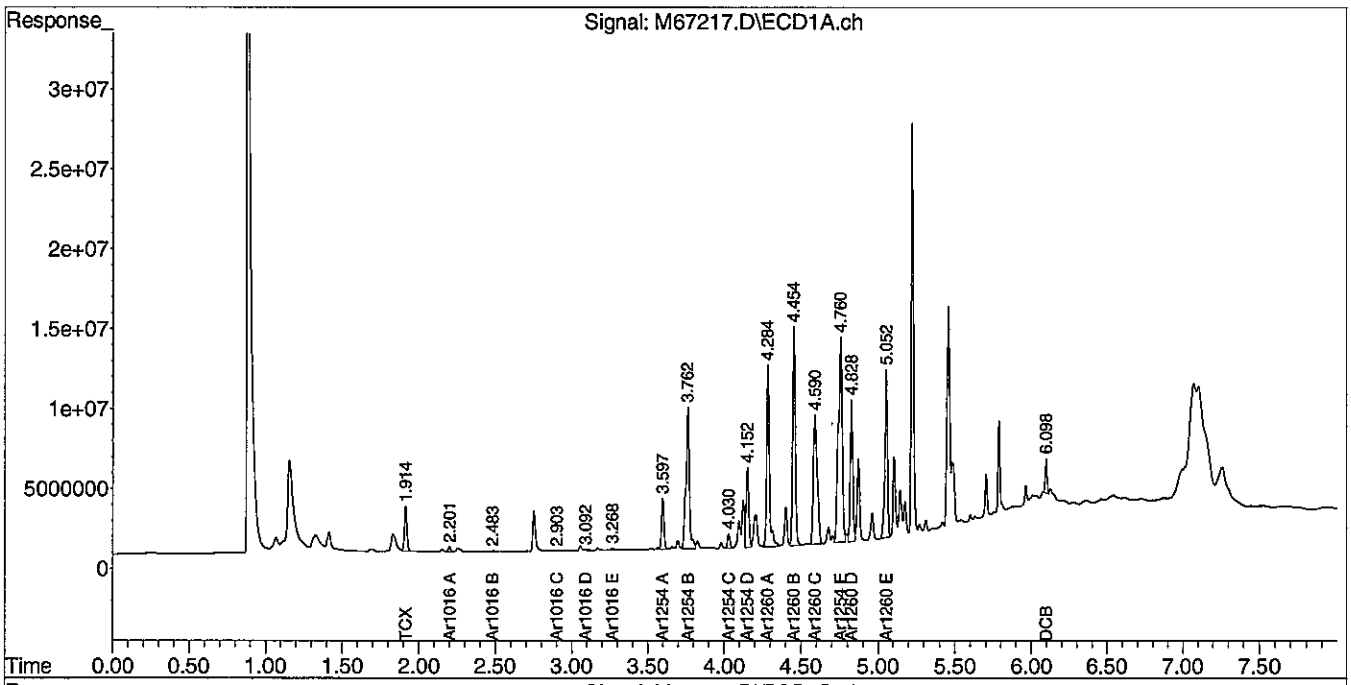
Comments: _____

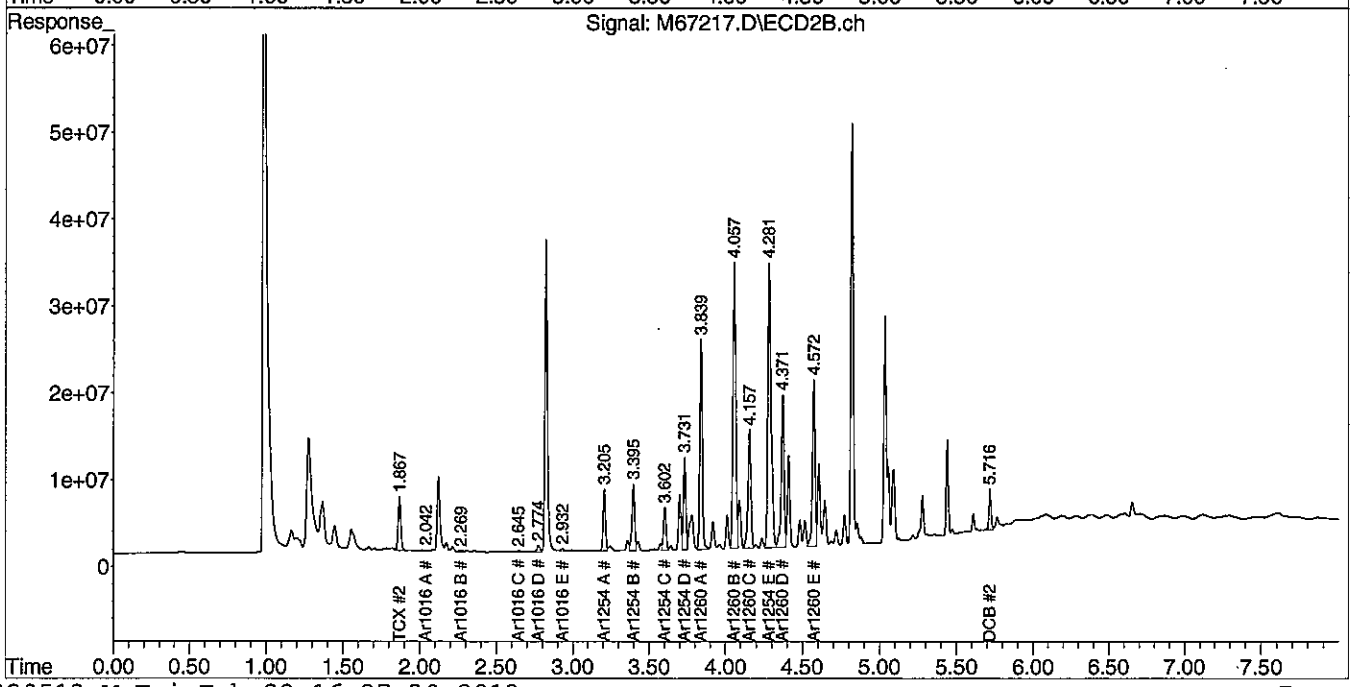
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022213-M\
Data File : M67217.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2013 11:47 am
Operator : JK
Sample : 74873-5,1:5,,A/C
Misc : SOIL
ALS Vial : 16 Sample Multiplier: 1

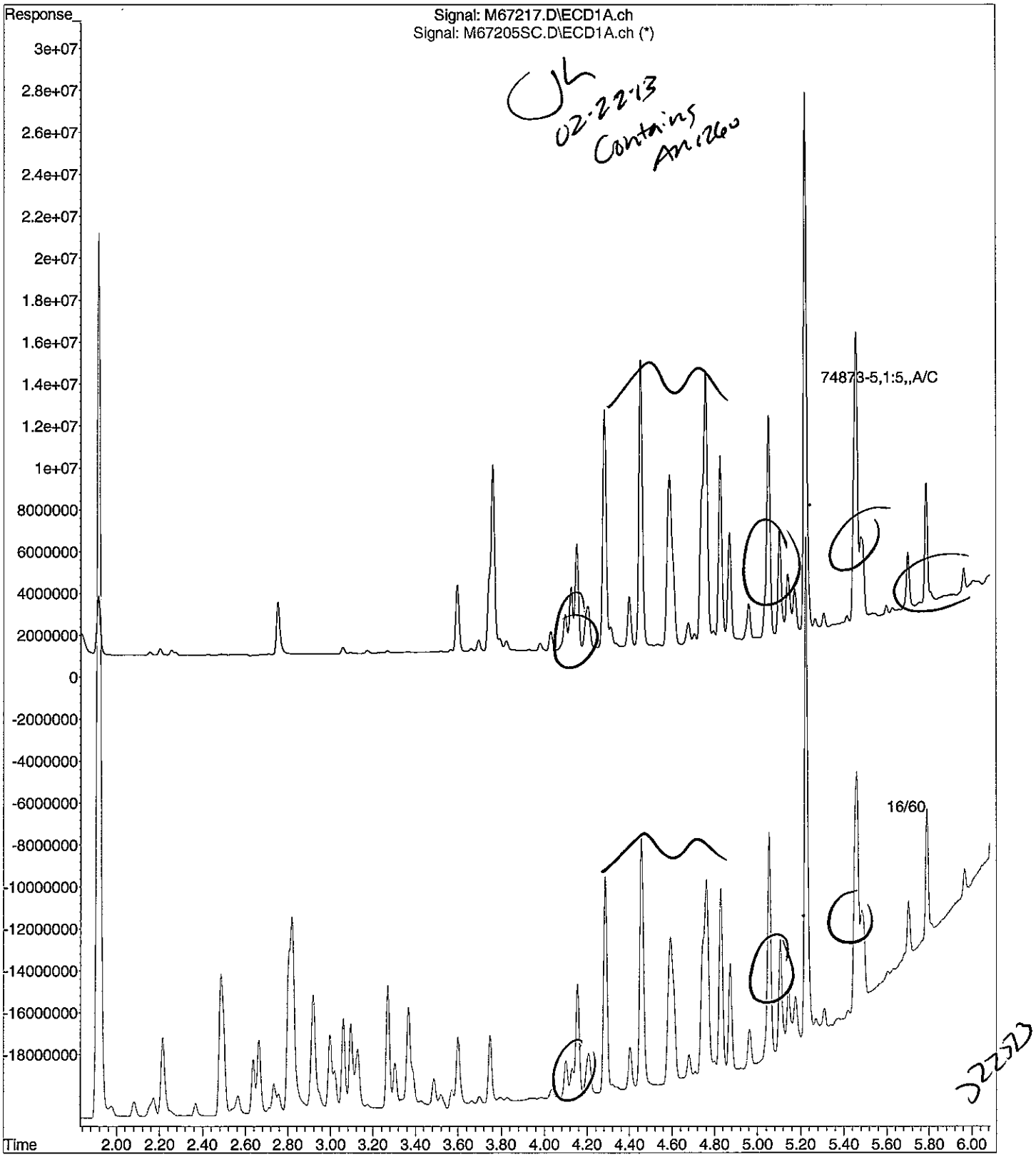
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 22 15:57:52 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 22 09:21:30 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\022213-M\M67217.D
Operator : JK
Acquired : 22 Feb 2013 11:47 am using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 74873-5,1:5,,A/C
Misc Info : SOIL
Vial Number: 16



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 22, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74873-6 |
| **Matrix:** | Solid |
| **Percent Solid:** | 93 |
| **Dilution Factor:** | 5 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/20/13 |
| **Analysis Date:** | 02/22/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-215 (4-6') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 165 | U |
| PCB-1221 | 165 | U |
| PCB-1232 | 165 | U |
| PCB-1242 | 165 | U |
| PCB-1248 | 165 | U |
| PCB-1254 | 165 | U |
| PCB-1260 | 165 | **2260** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 97 | % |
| Decachlorobiphenyl | 61 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873
Sample: 74873-6,1:5,,A/C
Data File: M67218.D
Dilution Factor: 5.3

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 2264 | 2006 | 12.1 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

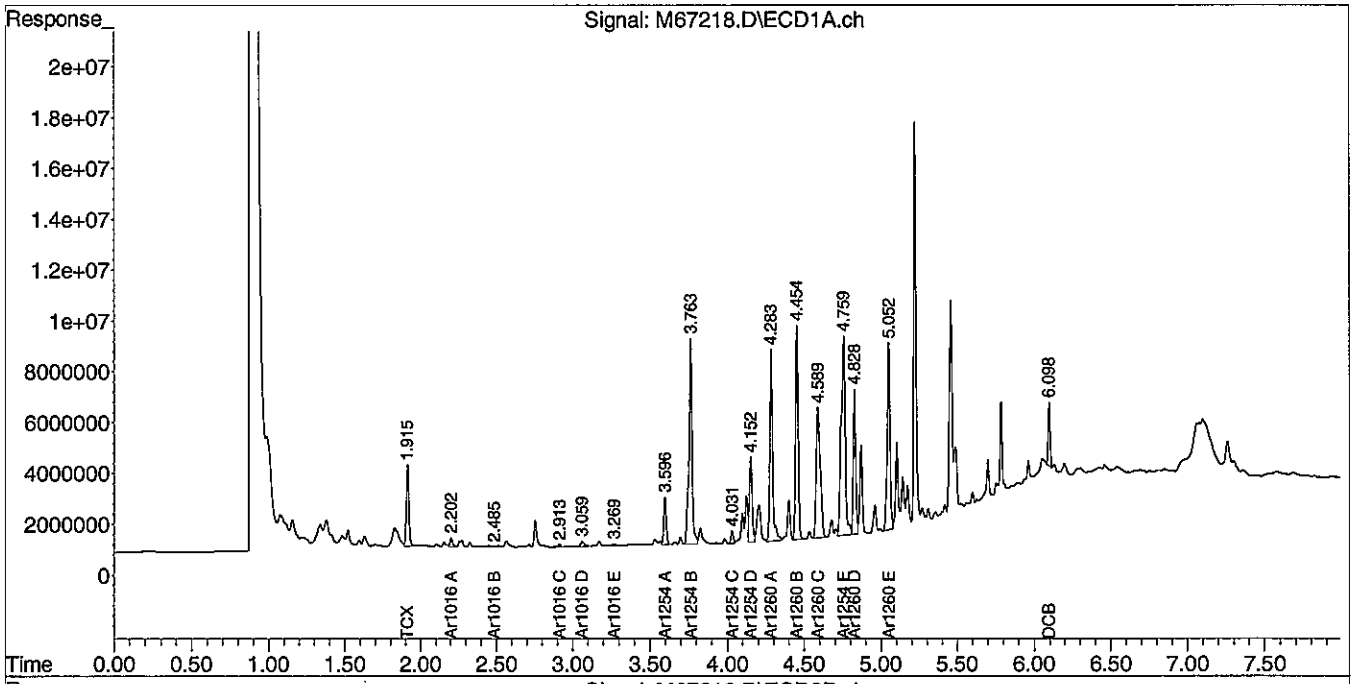
Comments: _____

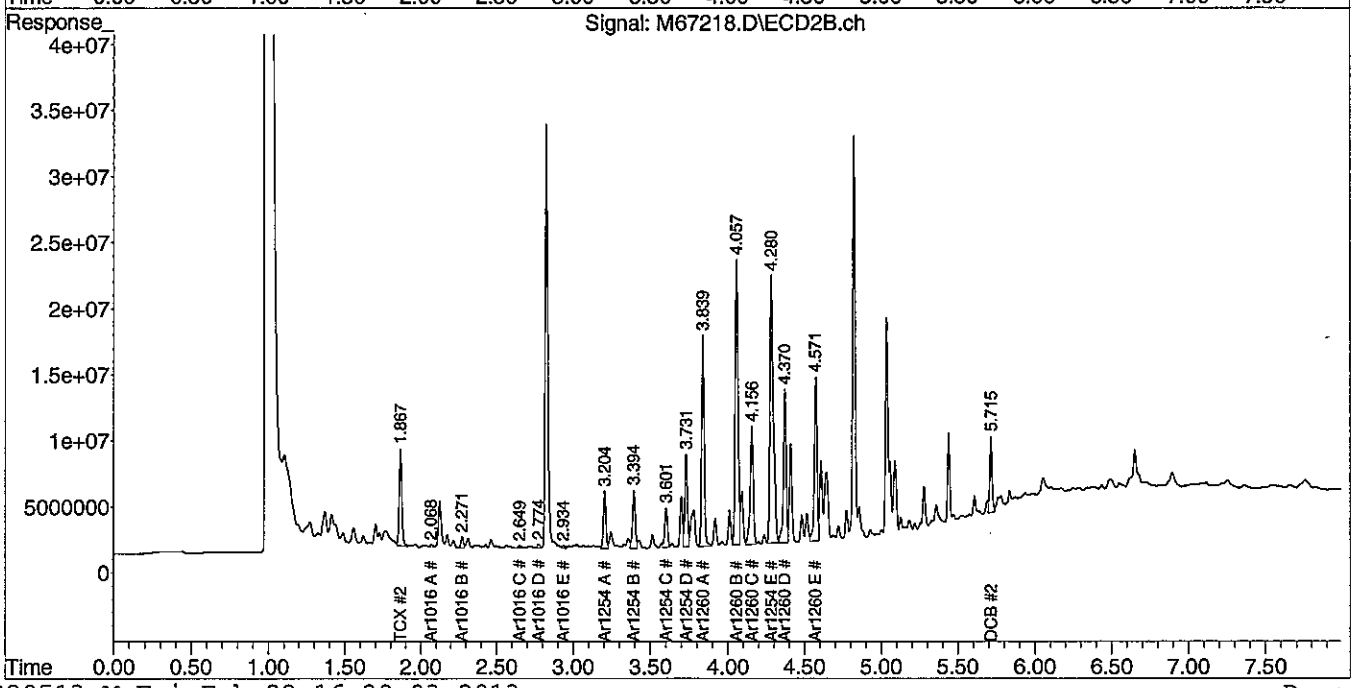
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022213-M\
Data File : M67218.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2013 11:57 am
Operator : JK
Sample : 74873-6,1:5,,A/C
Misc : SOIL
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 22 15:57:54 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 22 09:21:30 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 22, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74873-7 |
| **Matrix:** | Solid |
| **Percent Solid:** | 90 |
| **Dilution Factor:** | 5 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/20/13 |
| **Analysis Date:** | 02/22/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-215 (6-8') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 165 | U |
| PCB-1221 | 165 | U |
| PCB-1232 | 165 | U |
| PCB-1242 | 165 | U |
| PCB-1248 | 165 | U |
| PCB-1254 | 165 | U |
| PCB-1260 | 165 | **3220** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 87 | % |
| Decachlorobiphenyl | 59 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873
Sample: 74873-7,1:5,,A/C
Data File: M67219.D
Dilution Factor: 5.2

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 3220 | 2722 | 16.7 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

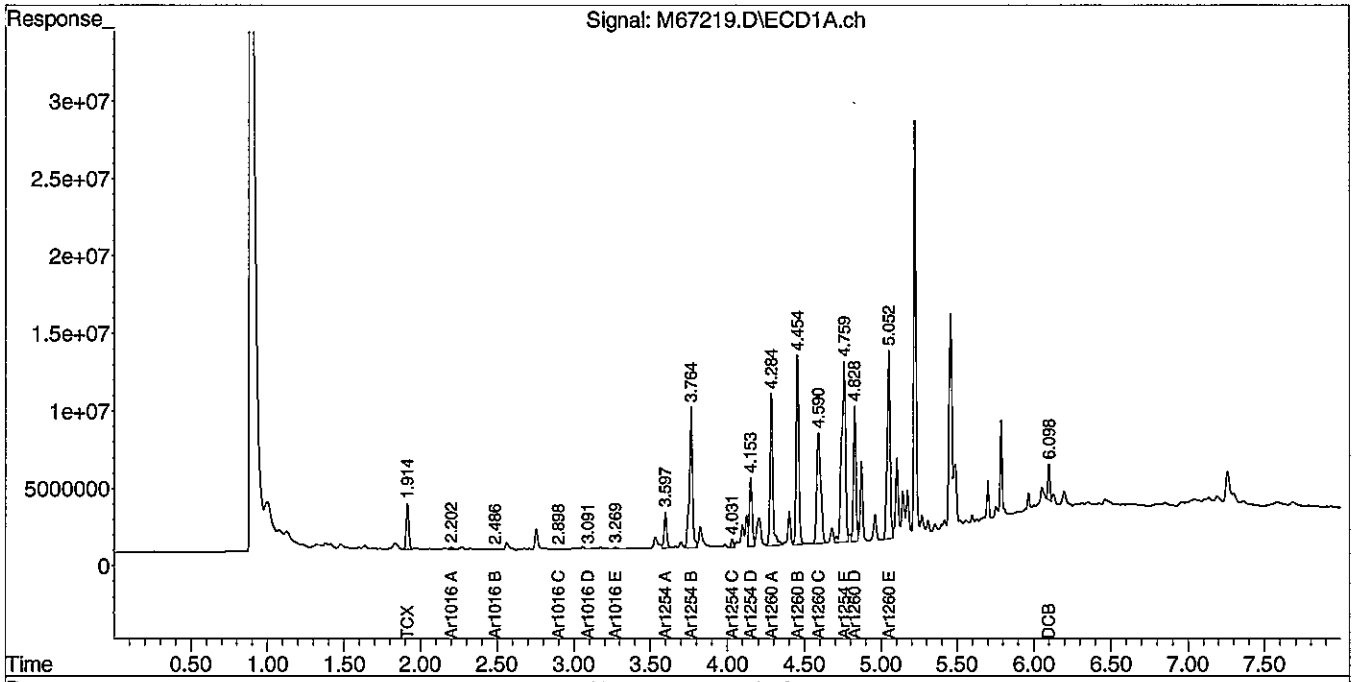
Comments: _____

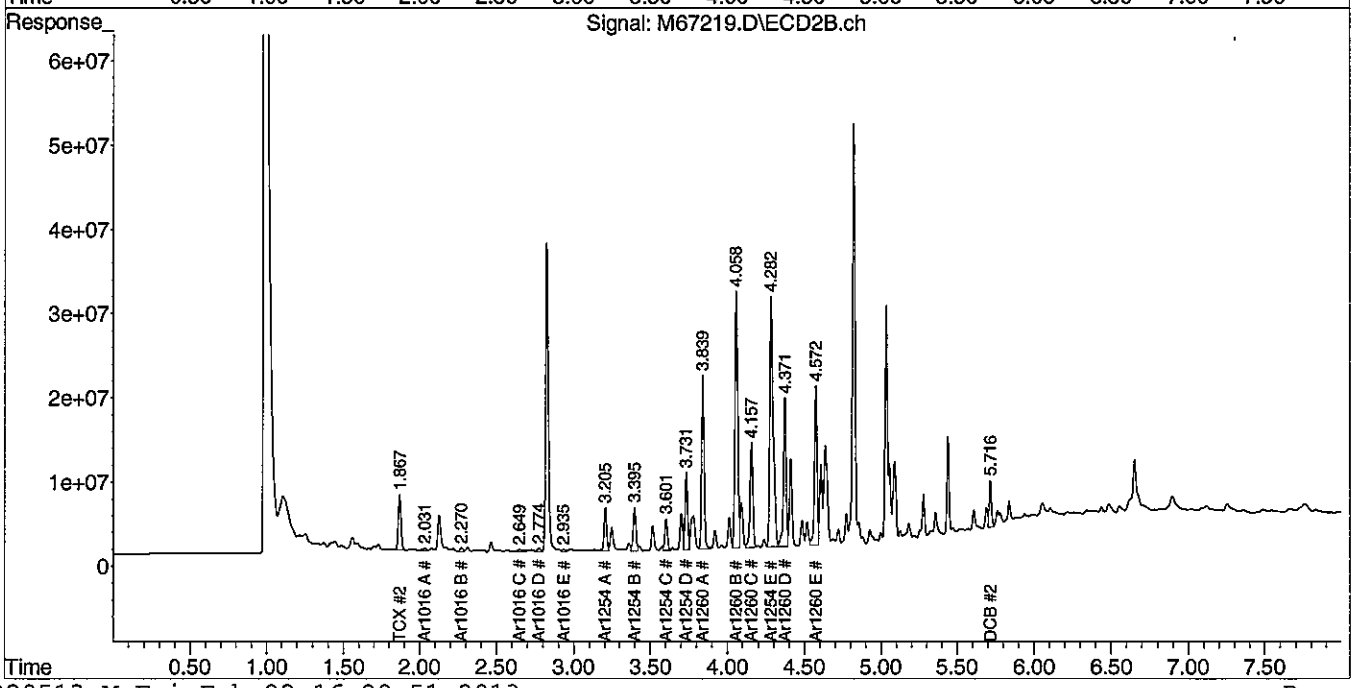
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022213-M\
Data File : M67219.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2013 12:07 pm
Operator : JK
Sample : 74873-7,1:5,,A/C
Misc : SOIL
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 22 15:57:56 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 22 09:21:30 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 22, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74873-8 |
| **Matrix:** | Solid |
| **Percent Solid:** | 88 |
| **Dilution Factor:** | 54 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/20/13 |
| **Analysis Date:** | 02/22/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-215 (8-10') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 1780 | U |
| PCB-1221 | 1780 | U |
| PCB-1232 | 1780 | U |
| PCB-1242 | 1780 | U |
| PCB-1248 | 1780 | U |
| PCB-1254 | 1780 | U |
| PCB-1260 | 1780 | **44600** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873
Sample: 74873-8,1:50,,A/C
Data File: M67220.D
Dilution Factor: 54.4

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 44645 | 40316 | 10.2 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

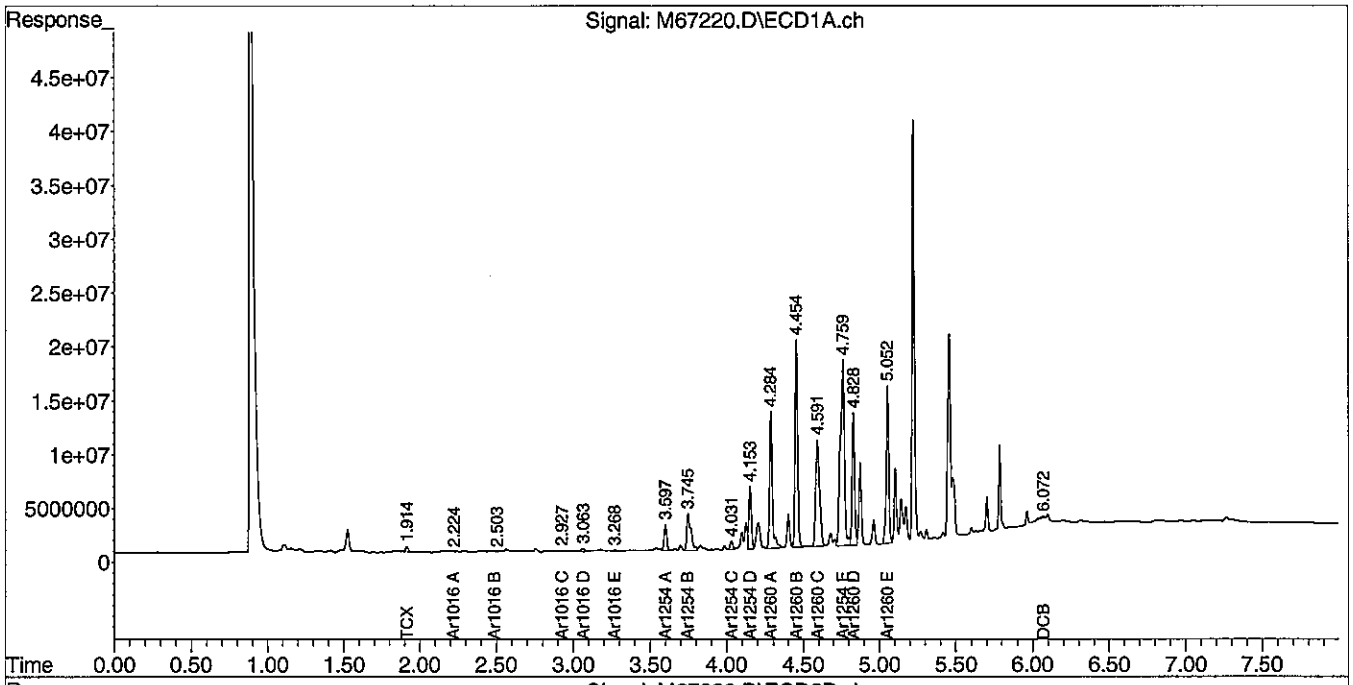
Comments: _____

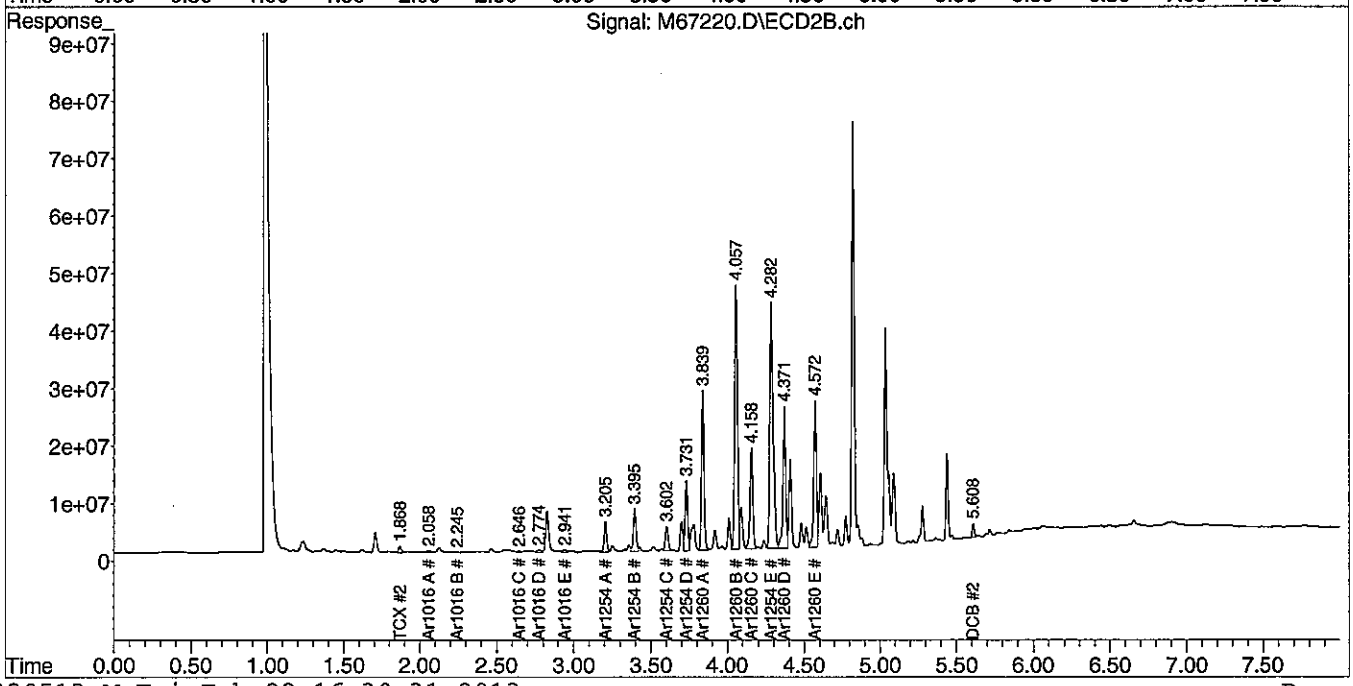
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022213-M\
Data File : M67220.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2013 12:17 pm
Operator : JK
Sample : 74873-8,1:50,,A/C
Misc : SOIL
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 22 15:57:58 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 22 09:21:30 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74873-9 RX |
| **Matrix:** | Solid |
| **Percent Solid:** | 88 |
| **Dilution Factor:** | 6 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 02/26/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-214 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 198 | U |
| PCB-1221 | 198 | U |
| PCB-1232 | 198 | U |
| PCB-1242 | 198 | U |
| PCB-1248 | 198 | U |
| PCB-1254 | 198 | U |
| PCB-1260 | 198 | **385** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 115 | % |
| Decachlorobiphenyl | 114 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873
Sample: 74873-9,RX,1:5
Data File: M67419.D
Dilution Factor: 5.5

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 385 | 343 | 11.6 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

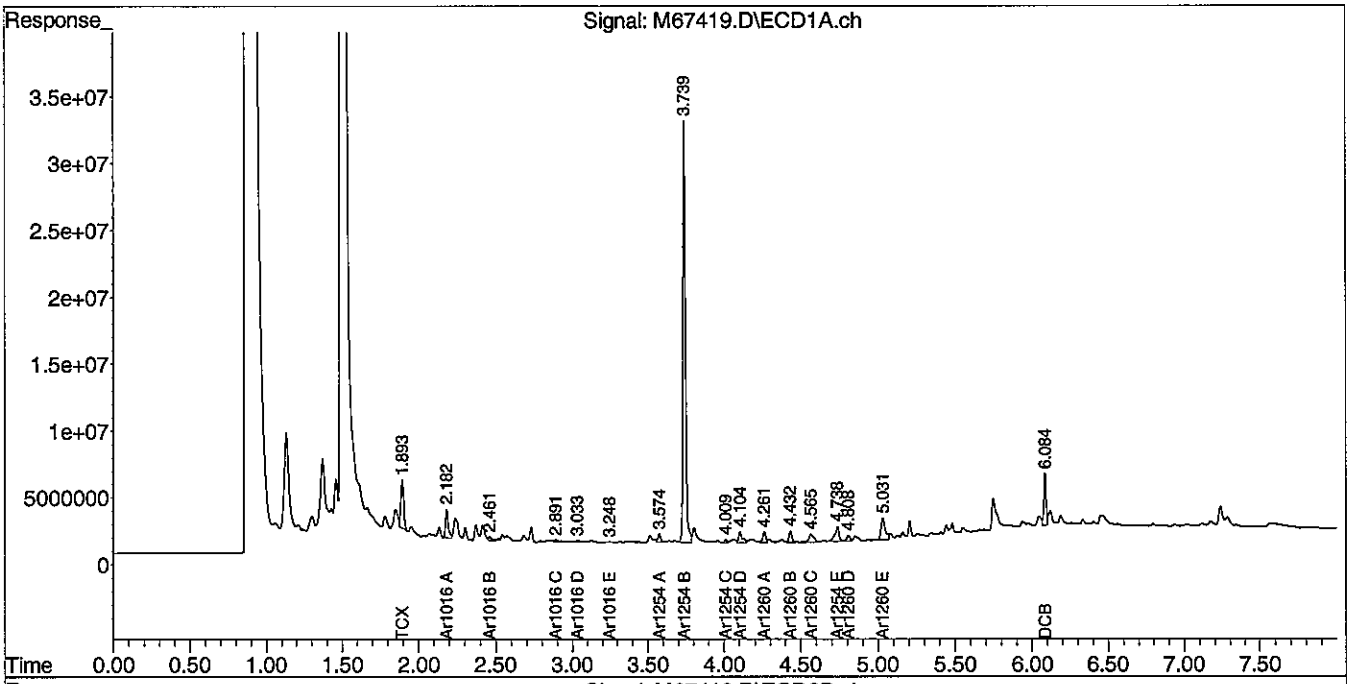
Comments: _____

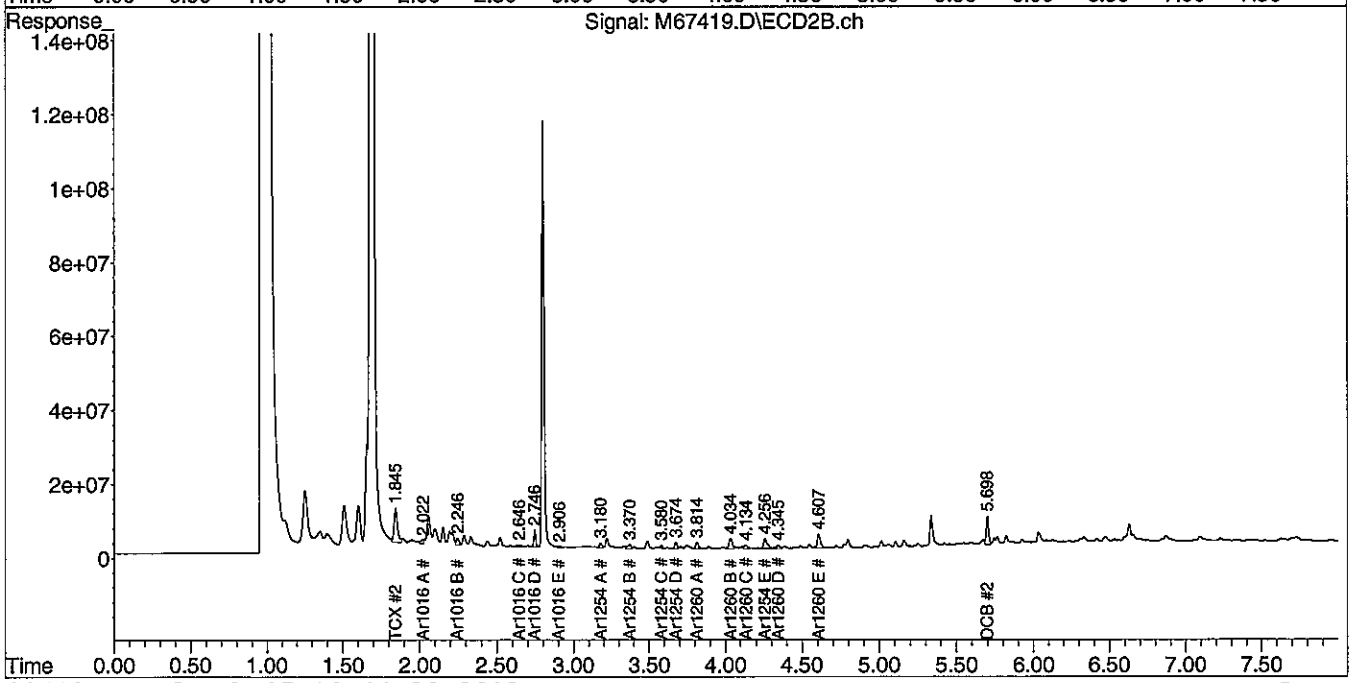
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67419.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2013 7:53 pm
Operator : JK
Sample : 74873-9,RX,1:5
Misc : SOIL
ALS Vial : 11 Sample Multiplier: 1

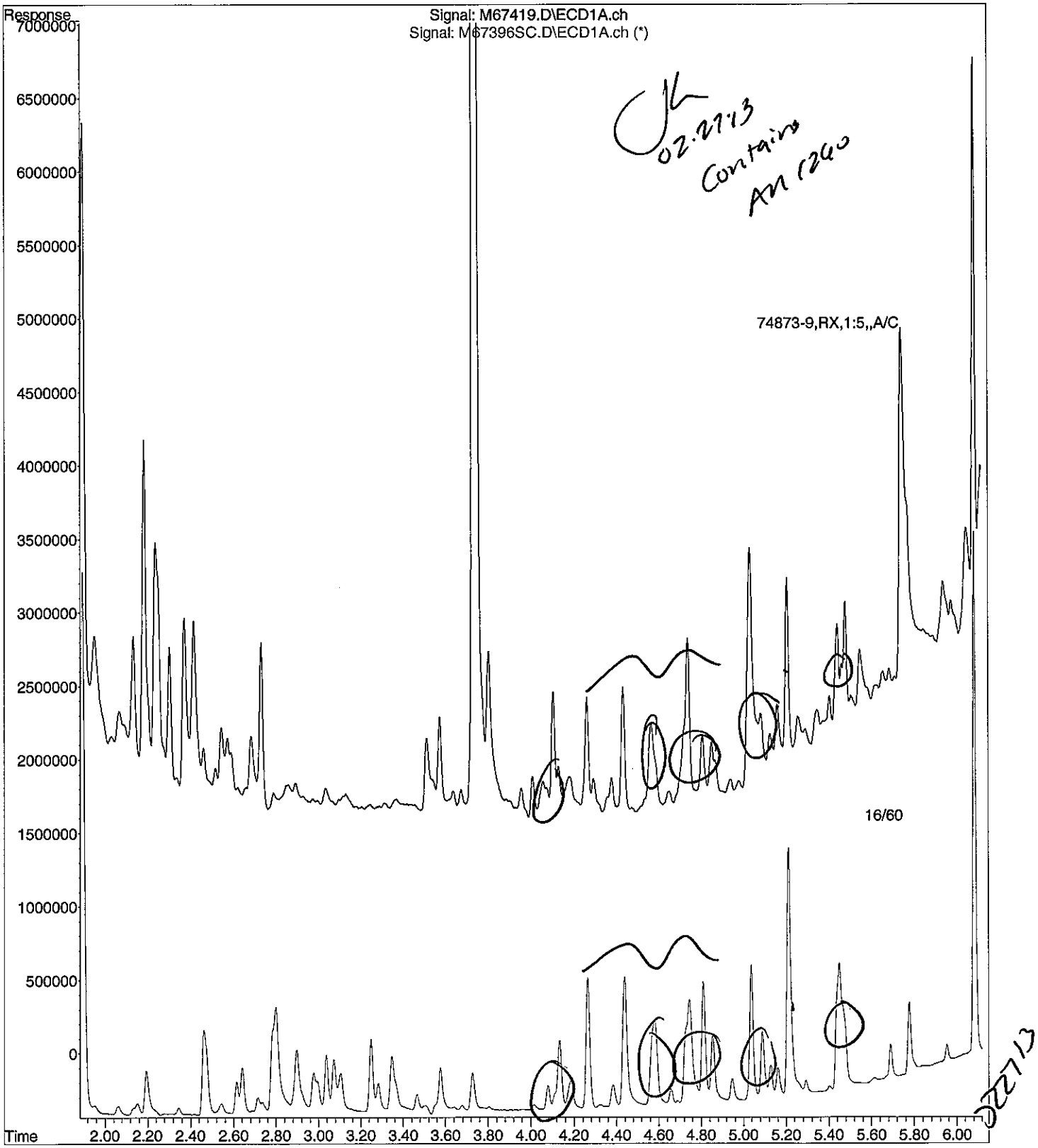
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 10:44:18 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\022613-M\M67419.D
Operator : JK
Acquired : 26 Feb 2013 7:53 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 74873-9,RX,1:5
Misc Info : SOIL
Vial Number: 11




JK 02.27.13 Contains AN 1260

022713

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74873-10 RX |
| **Matrix:** | Solid |
| **Percent Solid:** | 91 |
| **Dilution Factor:** | 5 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 02/26/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-214 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 165 | U |
| PCB-1221 | 165 | U |
| PCB-1232 | 165 | U |
| PCB-1242 | 165 | U |
| PCB-1248 | 165 | U |
| PCB-1254 | 165 | U |
| PCB-1260 | 165 | **1280** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 92 | % |
| Decachlorobiphenyl | 67 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873
Sample: 74873-10,RX,1:5
Data File: M67420.D
Dilution Factor: 5.4

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 1275 | 942 | 30.0 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

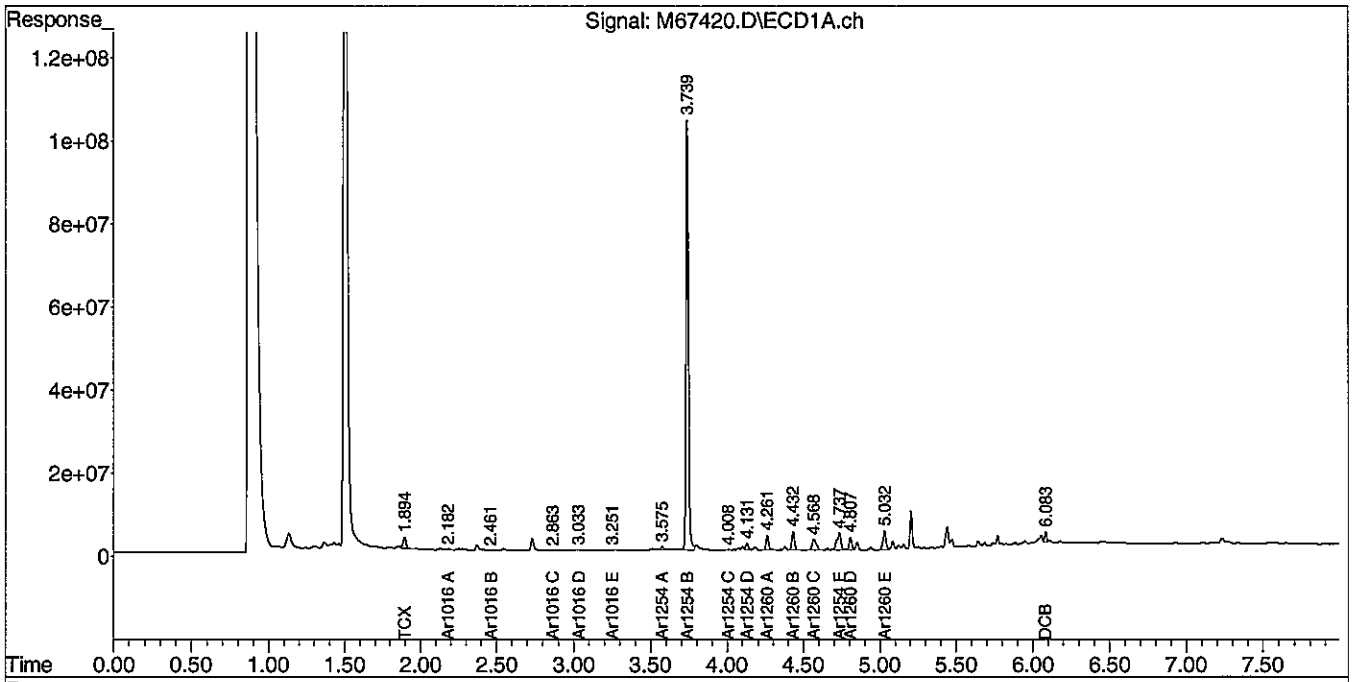
Comments: _____

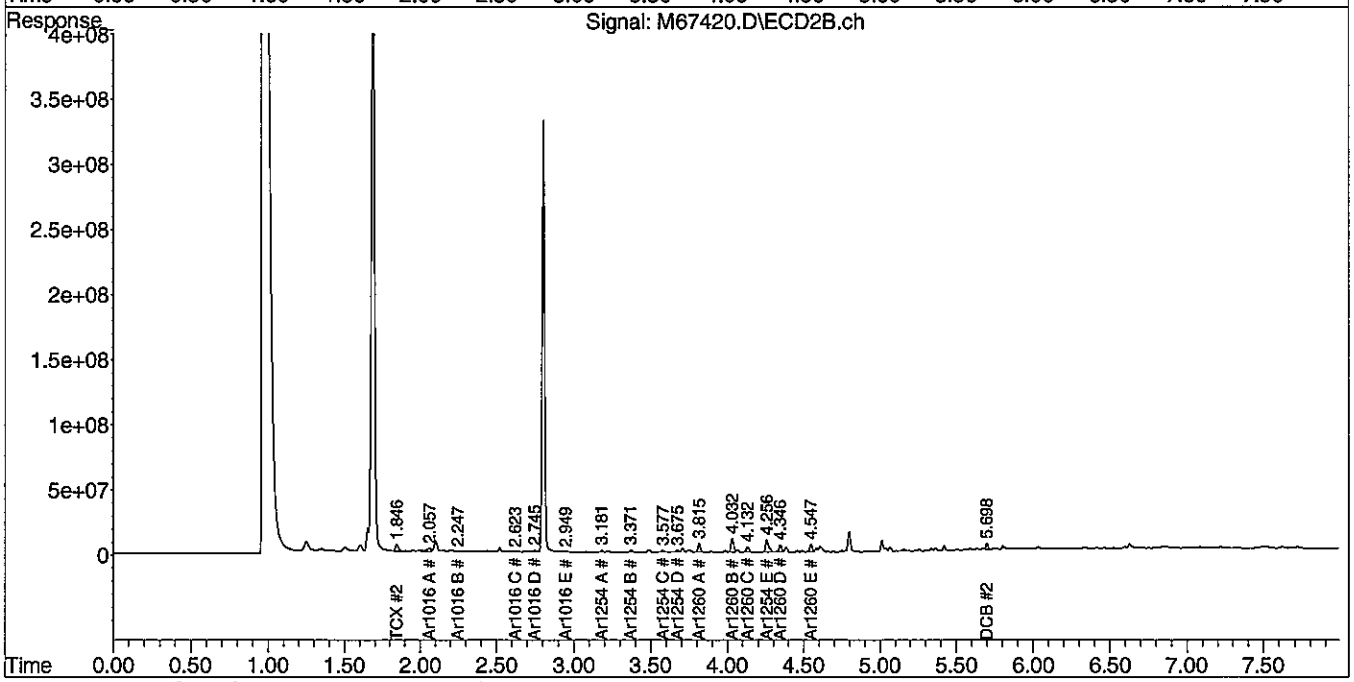
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67420.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2013 8:03 pm
Operator : JK
Sample : 74873-10,RX,1:5
Misc : SOIL
ALS Vial : 12 Sample Multiplier: 1

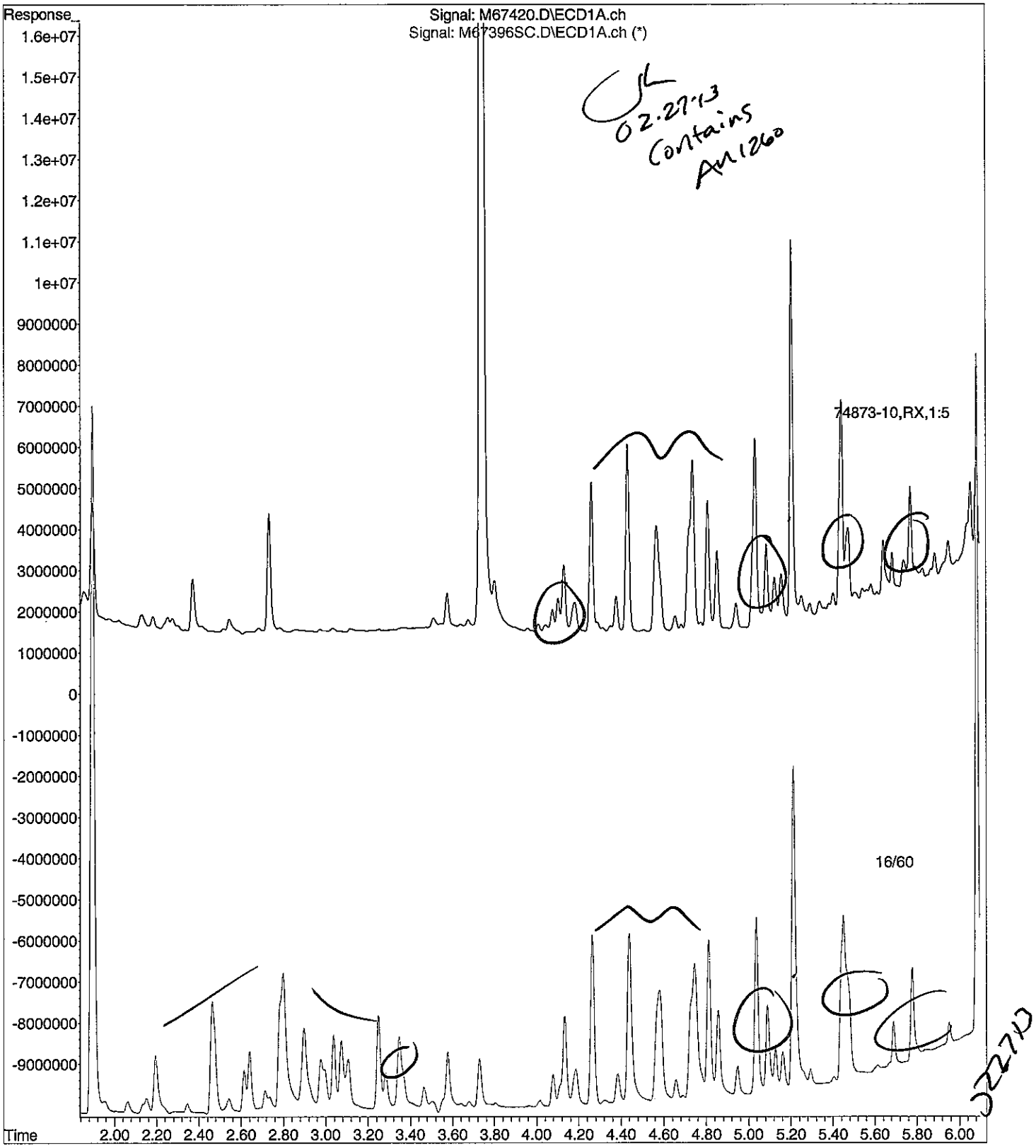
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 10:45:28 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\022613-M\M67420.D
Operator : JK
Acquired : 26 Feb 2013 8:03 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 74873-10,RX,1:5
Misc Info : SOIL
Vial Number: 12



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74873-11 |
| **Matrix:** | Solid |
| **Percent Solid:** | 88 |
| **Dilution Factor:** | 23 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/26/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-214 (4-6') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 759 | U |
| PCB-1221 | 759 | U |
| PCB-1232 | 759 | U |
| PCB-1242 | 759 | U |
| PCB-1248 | 759 | U |
| PCB-1254 | 759 | U |
| PCB-1260 | 759 | **17200** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873
Sample: 74873-11,1:20,,A/C
Data File: M67421.D
Dilution Factor: 22.6

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 17238 | 14457 | 17.5 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

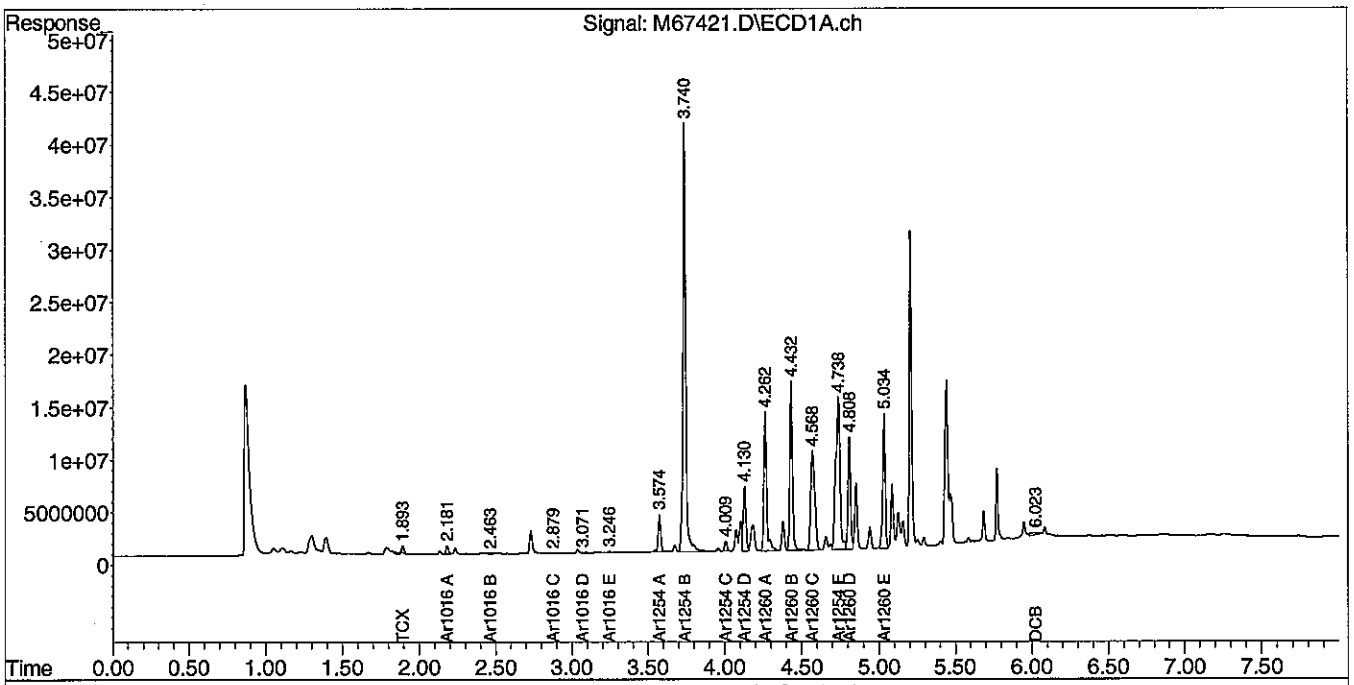
Comments: _____

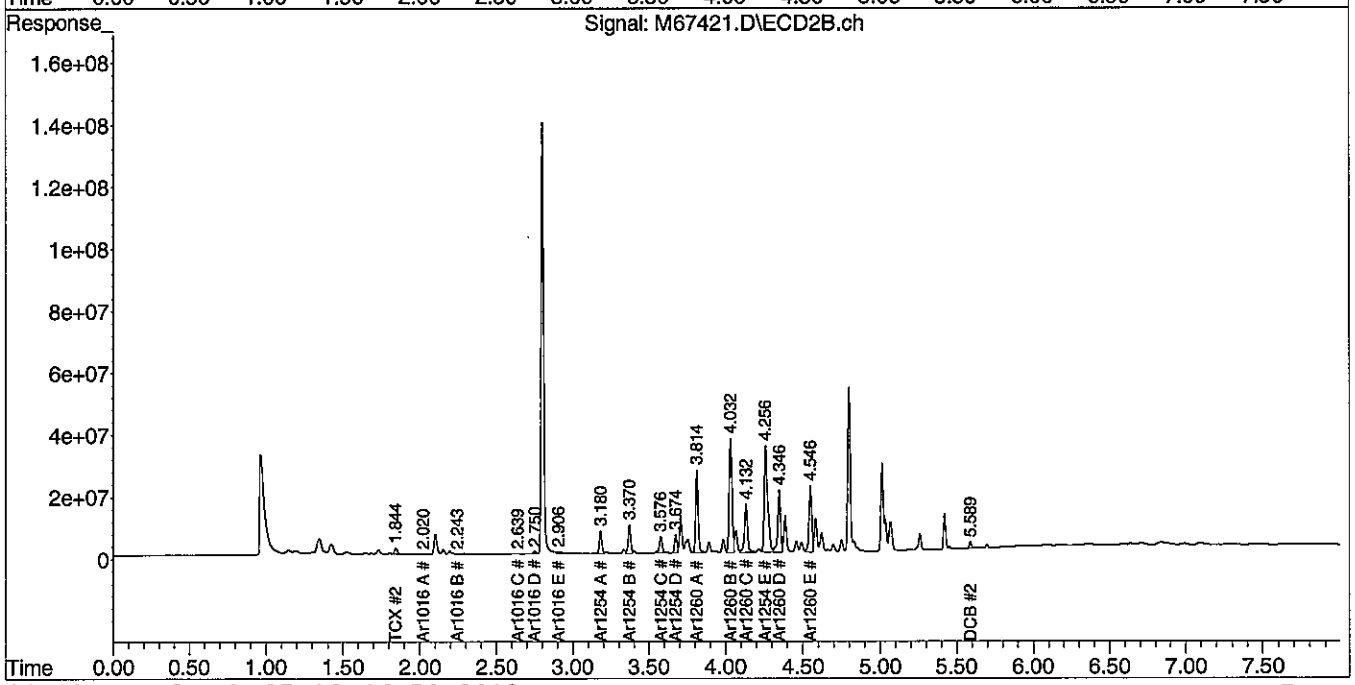
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67421.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2013 8:14 pm
Operator : JK
Sample : 74873-11,1:20,,A/C
Misc : SOIL
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 10:23:13 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74873-12 |
| **Matrix:** | Solid |
| **Percent Solid:** | 87 |
| **Dilution Factor:** | 11 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/26/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-214 (6-7') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 363 | U |
| PCB-1221 | 363 | U |
| PCB-1232 | 363 | U |
| PCB-1242 | 363 | U |
| PCB-1248 | 363 | U |
| PCB-1254 | 363 | U |
| PCB-1260 | 363 | **8160** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 100 | % |
| Decachlorobiphenyl | 93 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873
Sample: 74873-12,1:10,,A/C
Data File: M67422.D
Dilution Factor: 10.9

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 8161 | 6808 | 18.1 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

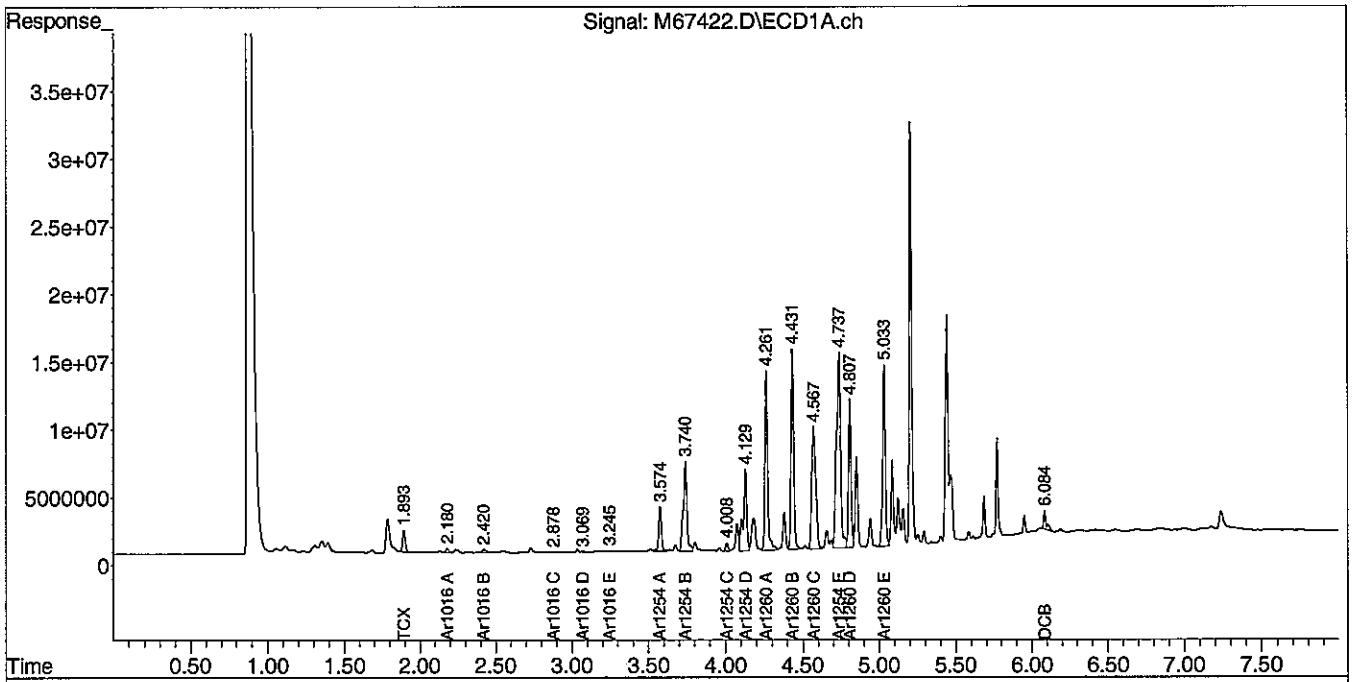
Comments: _____

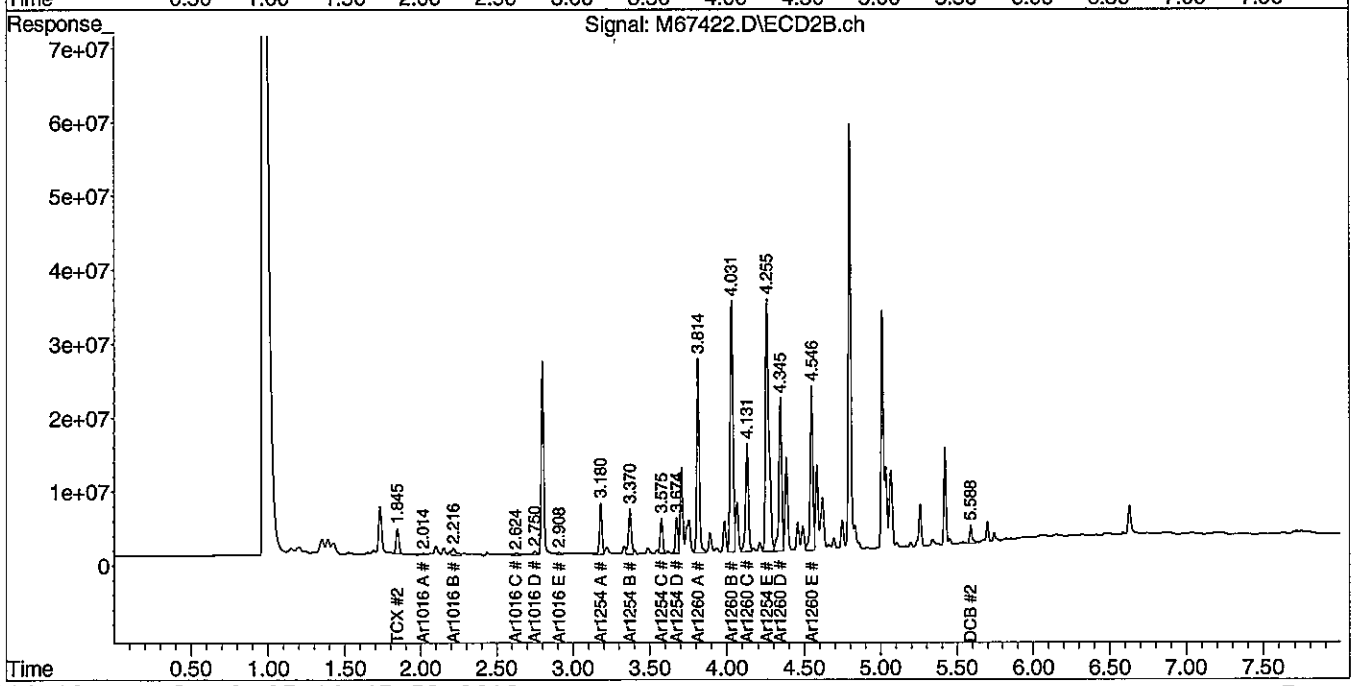
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67422.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2013 8:24 pm
Operator : JK
Sample : 74873-12,1:10,,A/C
Misc : SOIL
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 10:47:33 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 26, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74873-13 |
| **Matrix:** | Solid |
| **Percent Solid:** | 91 |
| **Dilution Factor:** | 5 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/22/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-213 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 165 | U |
| PCB-1221 | 165 | U |
| PCB-1232 | 165 | U |
| PCB-1242 | 165 | U |
| PCB-1248 | 165 | U |
| PCB-1254 | 165 | U |
| PCB-1260 | 165 | **707** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 111 | % |
| Decachlorobiphenyl | 80 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873
Sample: 74873-13,1:5,,A/C
Data File: M67264.D
Dilution Factor: 5.3

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 707 | 625 | 12.3 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

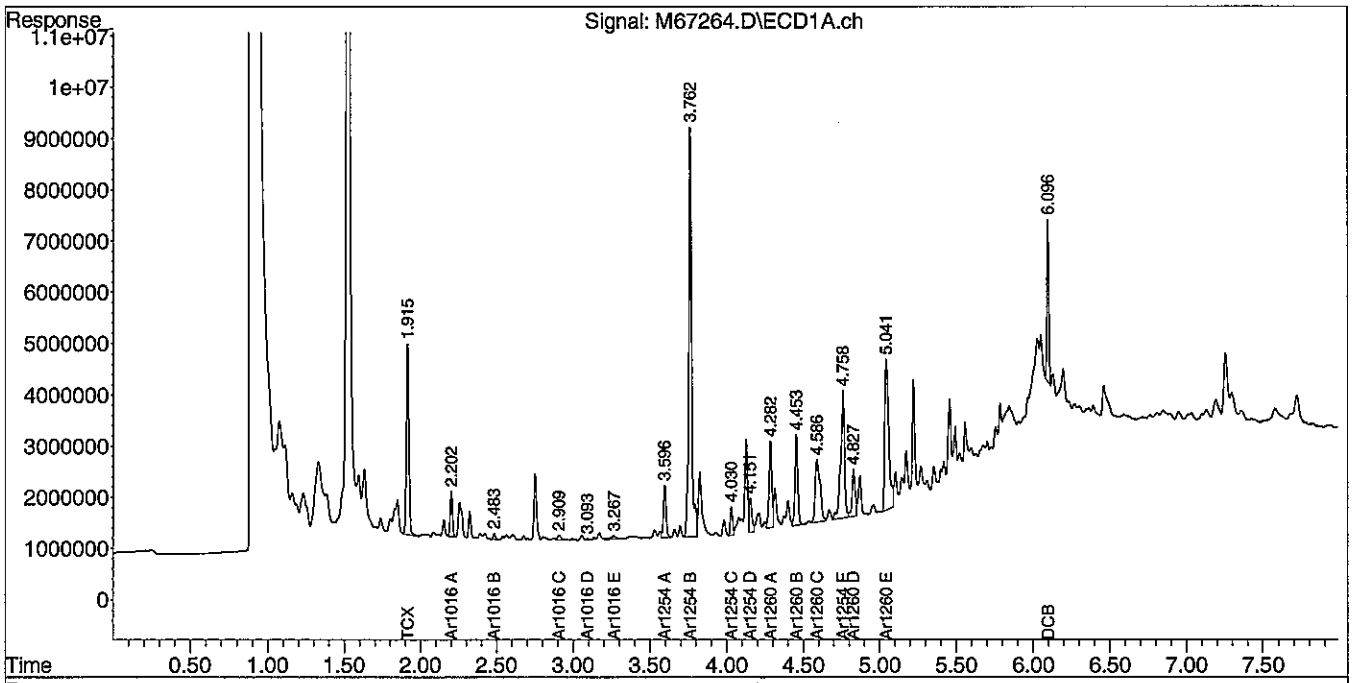
Comments: _____

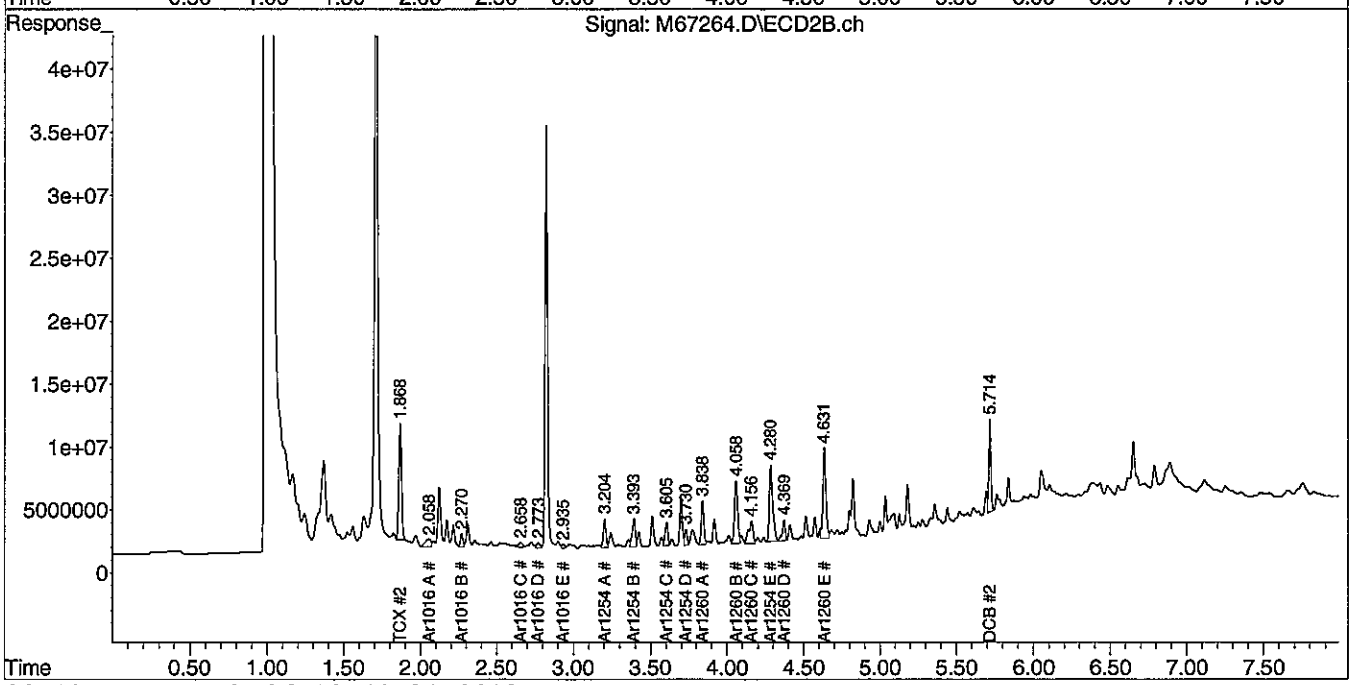
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022213-M\
Data File : M67264.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2013 9:00 pm
Operator : JK
Sample : 74873-13,1:5,,A/C
Misc : SOIL
ALS Vial : 17 Sample Multiplier: 1

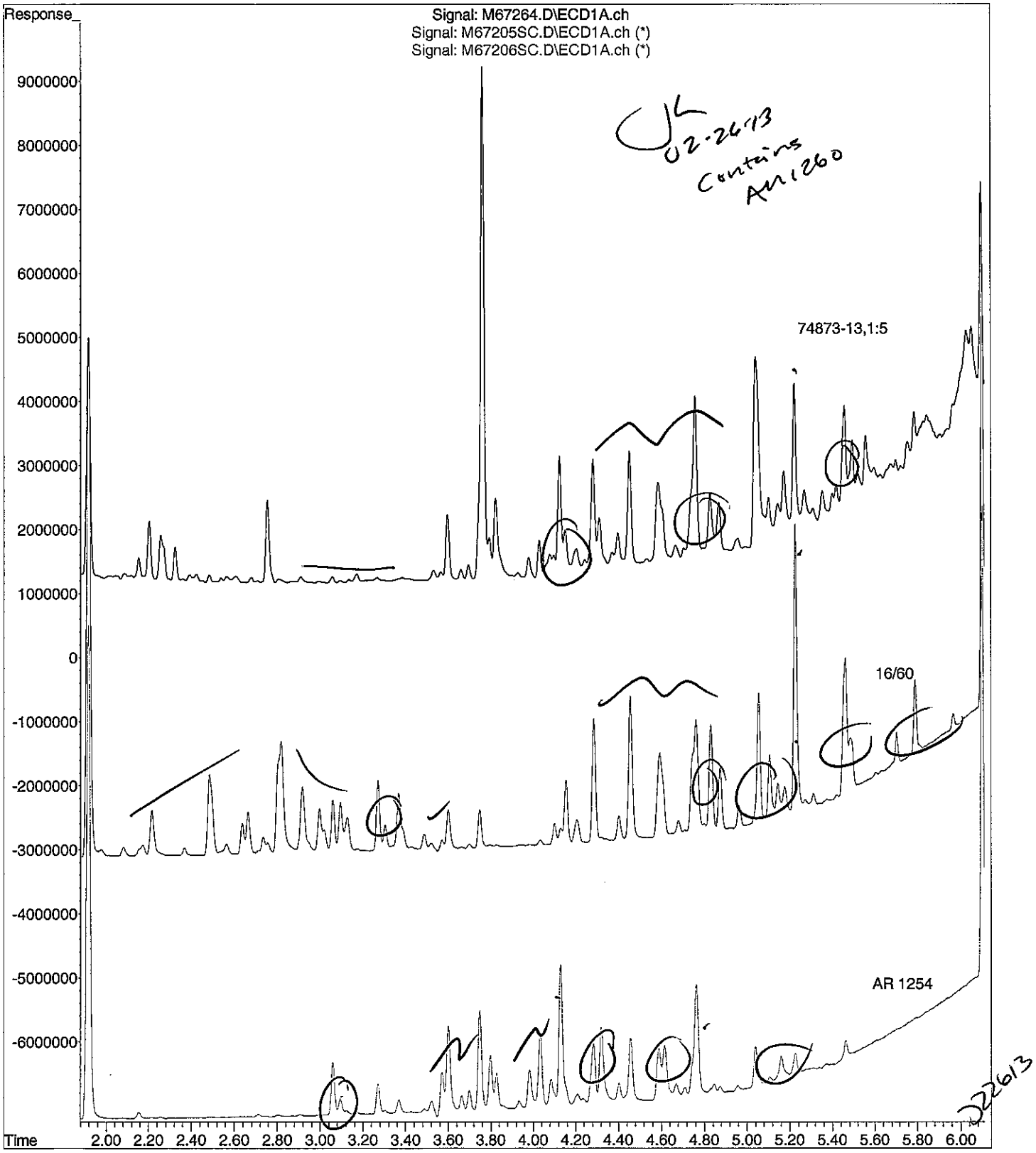
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 26 12:49:20 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 22 09:21:30 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\022213-M\M67264.D
Operator : JK
Acquired : 22 Feb 2013 9:00 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 74873-13,1:5,,A/C
Misc Info : SOIL
Vial Number: 17



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 26, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74873-14 |
| **Matrix:** | Solid |
| **Percent Solid:** | 94 |
| **Dilution Factor:** | 5 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/22/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-213 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 165 | U |
| PCB-1221 | 165 | U |
| PCB-1232 | 165 | U |
| PCB-1242 | 165 | U |
| PCB-1248 | 165 | U |
| PCB-1254 | 165 | U |
| PCB-1260 | 165 | **585** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 78 | % |
| Decachlorobiphenyl | 56 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873
Sample: 74873-14,1:5,,A/C
Data File: M67265.D
Dilution Factor: 5.1

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 585 | 548 | 6.4 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

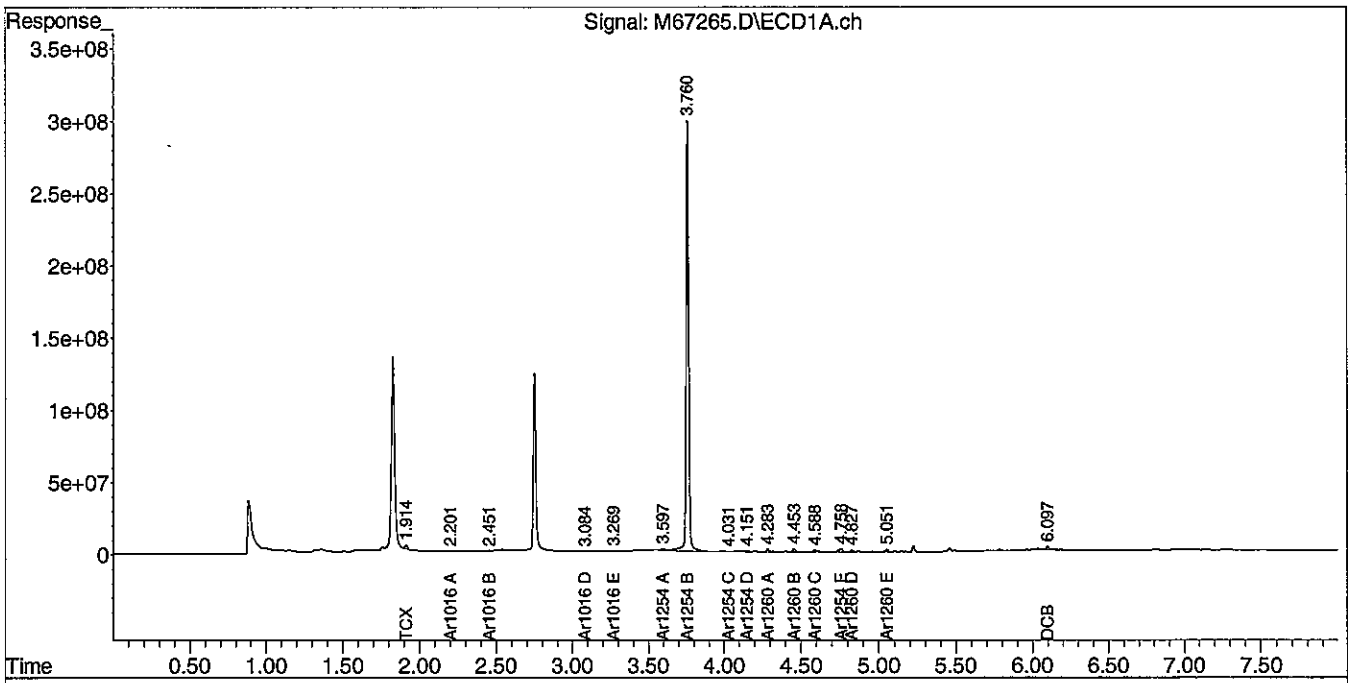
Comments: _____

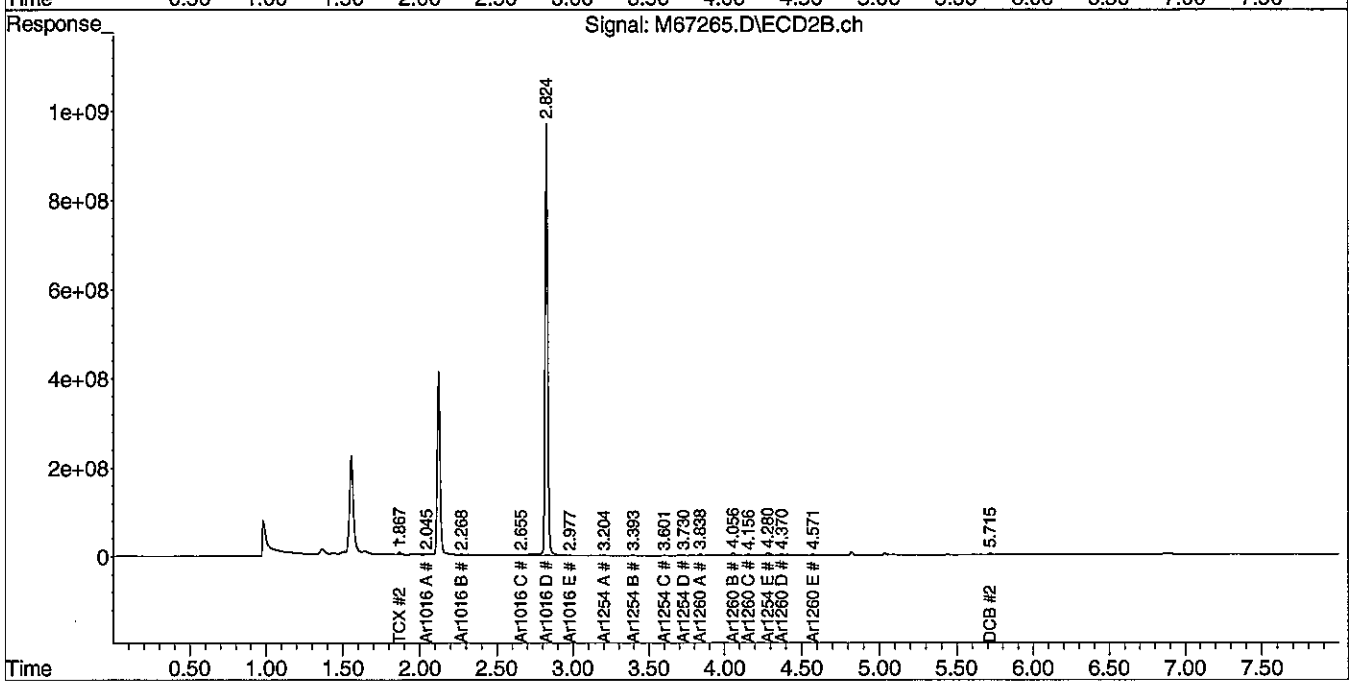
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022213-M\
Data File : M67265.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2013 9:10 pm
Operator : JK
Sample : 74873-14,1:5,,A/C
Misc : SOIL
ALS Vial : 18 Sample Multiplier: 1

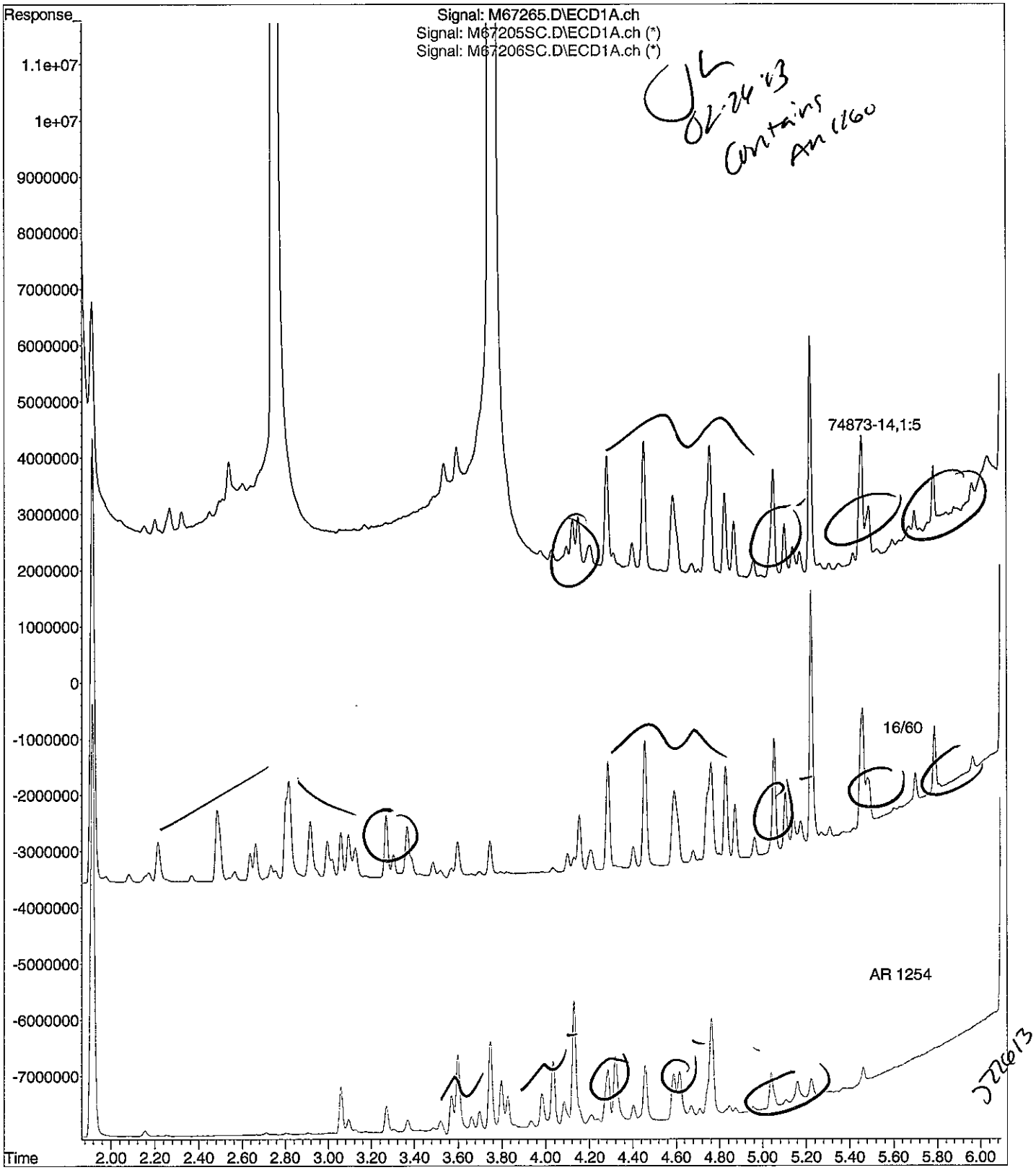
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 26 12:51:55 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 22 09:21:29 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\022213-M\M67265.D
Operator : JK
Acquired : 22 Feb 2013 9:10 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 74873-14,1:5,,A/C
Misc Info : SOIL
Vial Number: 18



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 26, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74873-15 |
| **Matrix:** | Solid |
| **Percent Solid:** | 91 |
| **Dilution Factor:** | 5 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/22/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-213 (4-6') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 165 | U |
| PCB-1221 | 165 | U |
| PCB-1232 | 165 | U |
| PCB-1242 | 165 | U |
| PCB-1248 | 165 | U |
| PCB-1254 | 165 | U |
| PCB-1260 | 165 | **1790** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 103 | % |
| Decachlorobiphenyl | 59 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873
Sample: 74873-15,1:5,,A/C
Data File: M67266.D
Dilution Factor: 5.2

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 1791 | 1562 | 13.7 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

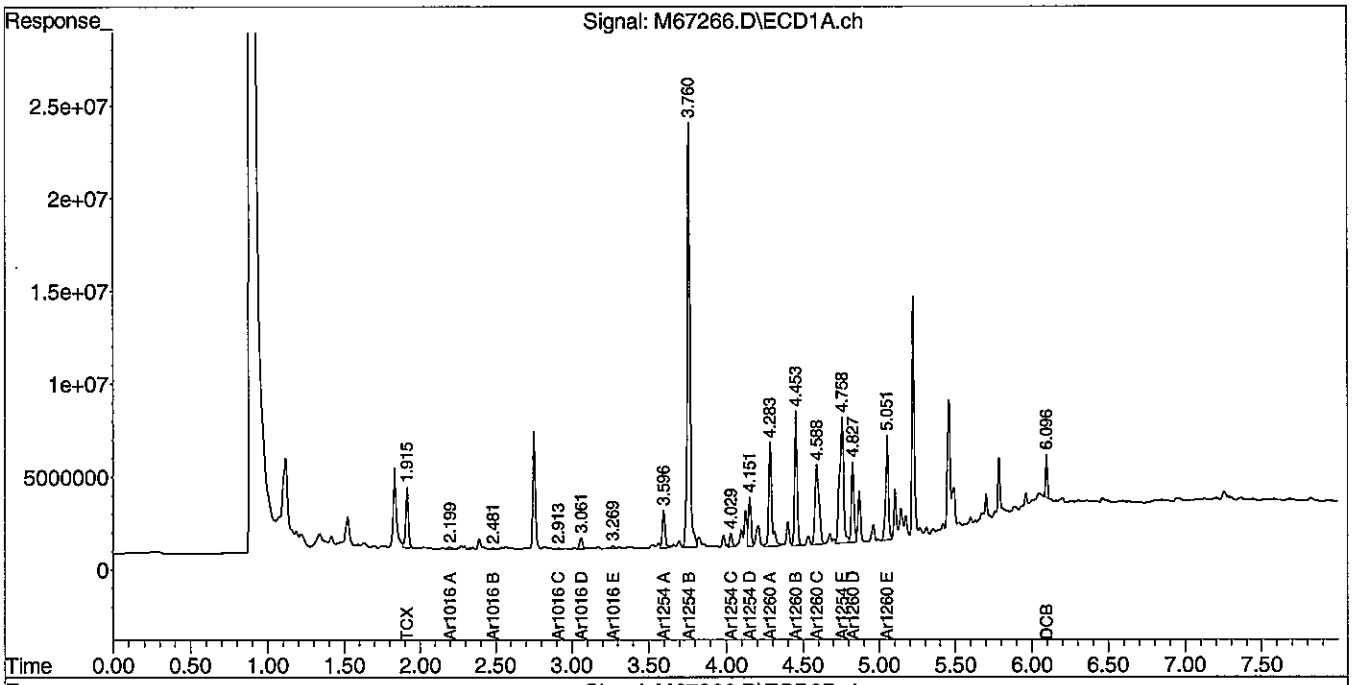
Comments: _____

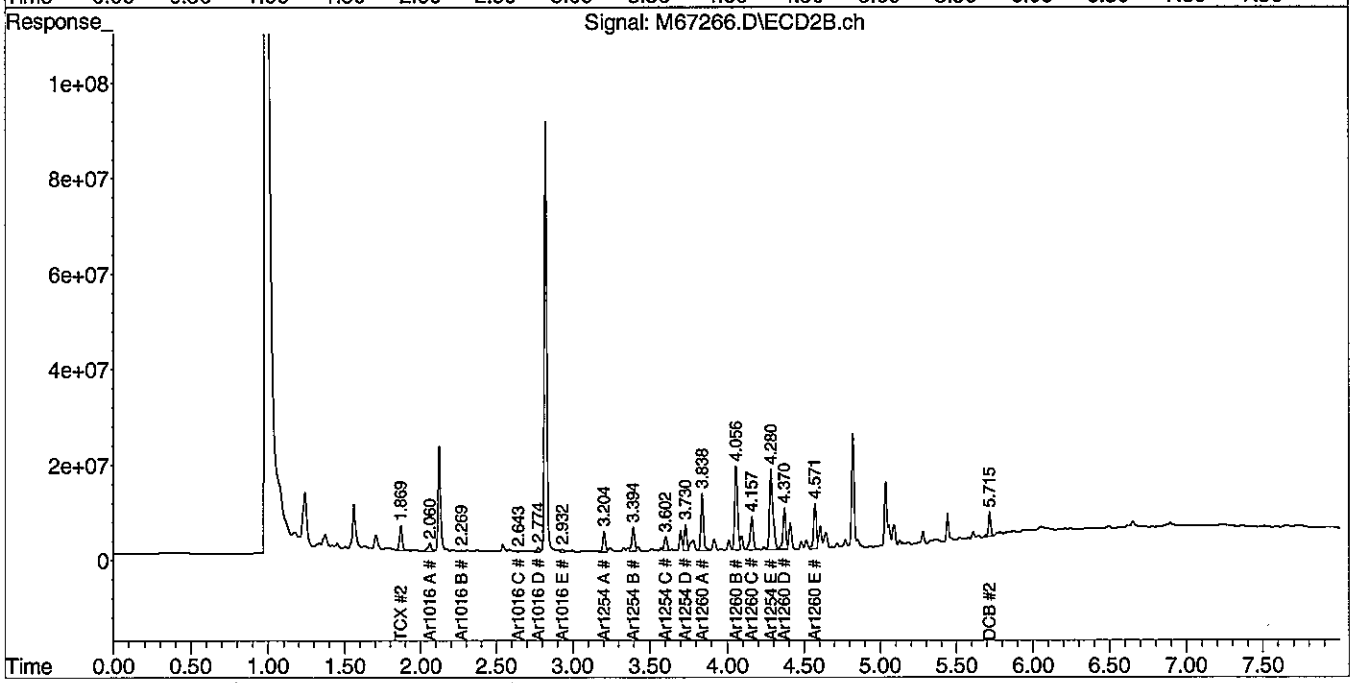
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022213-M\
Data File : M67266.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2013 9:20 pm
Operator : JK
Sample : 74873-15,1:5,,A/C
Misc : SOIL
ALS Vial : 19 Sample Multiplier: 1

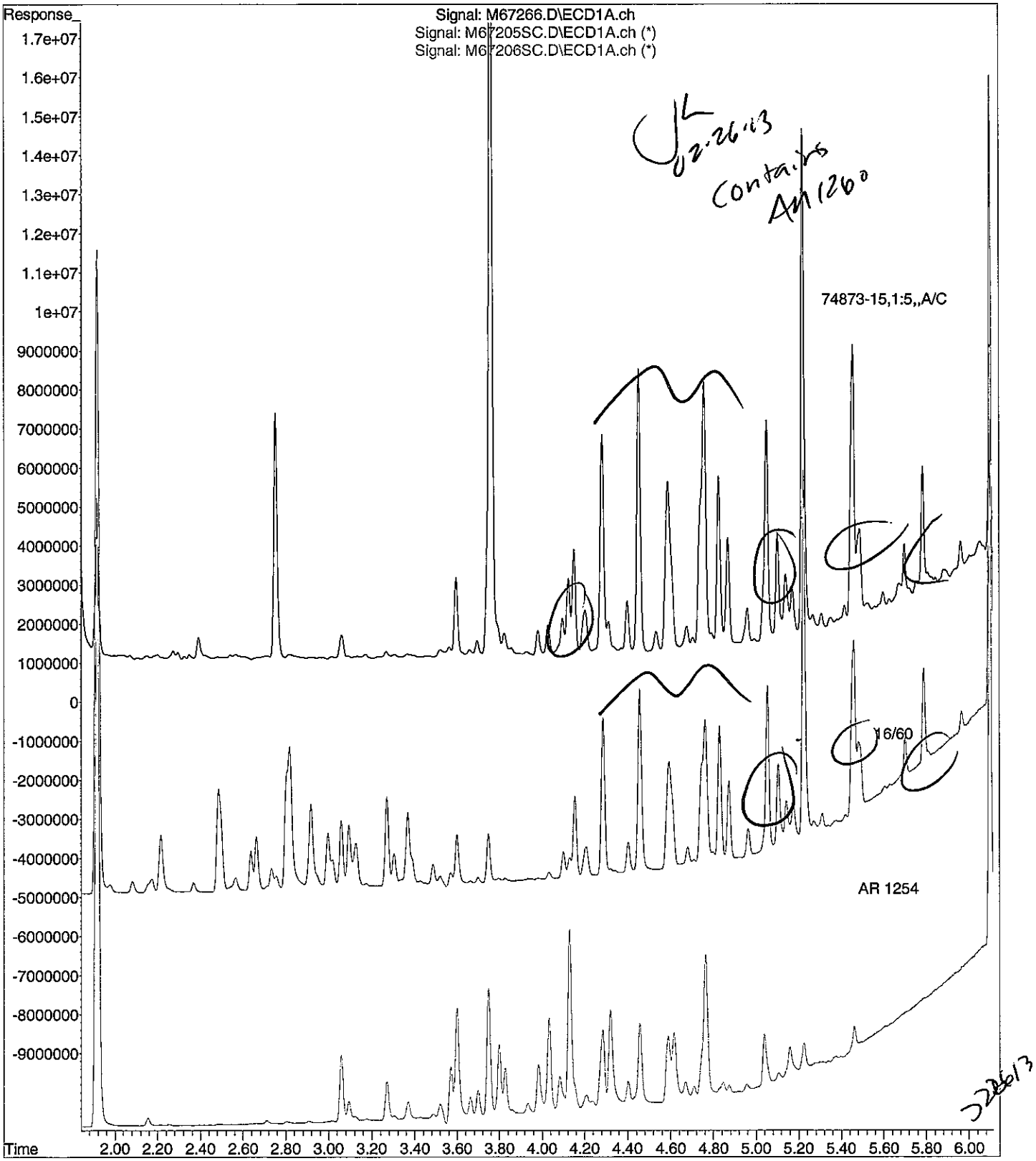
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 26 12:51:21 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 22 09:21:30 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\022213-M\M67266.D
Operator : JK
Acquired : 22 Feb 2013 9:20 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 74873-15,1:5,,A/C
Misc Info : SOIL
Vial Number: 19



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74873-16 |
| **Matrix:** | Solid |
| **Percent Solid:** | 90 |
| **Dilution Factor:** | 11 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/26/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-213 (6-7.5') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 363 | U |
| PCB-1221 | 363 | U |
| PCB-1232 | 363 | U |
| PCB-1242 | 363 | U |
| PCB-1248 | 363 | U |
| PCB-1254 | 363 | U |
| PCB-1260 | 363 | **9140** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 99 | % |
| Decachlorobiphenyl | 100 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873
Sample: 74873-16,1:10,,A/C
Data File: M67423.D
Dilution Factor: 10.7

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 9144 | 7785 | 16.0 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

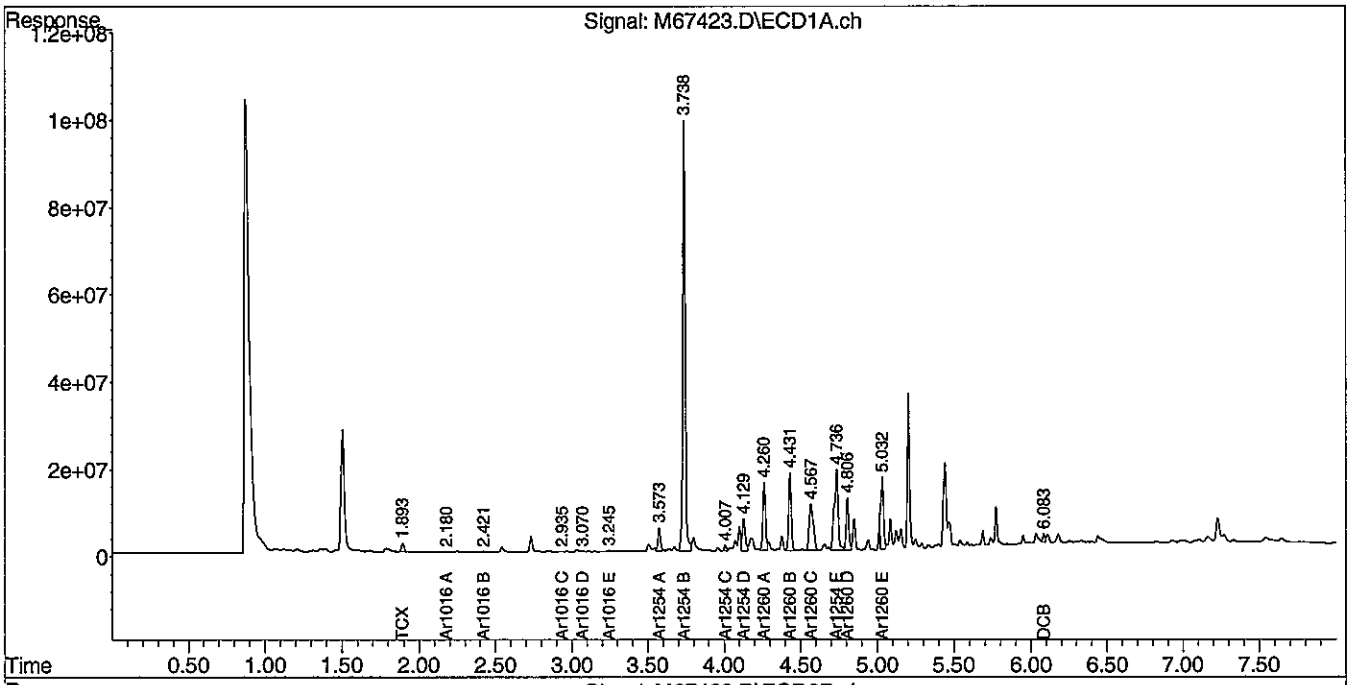
Comments: _____

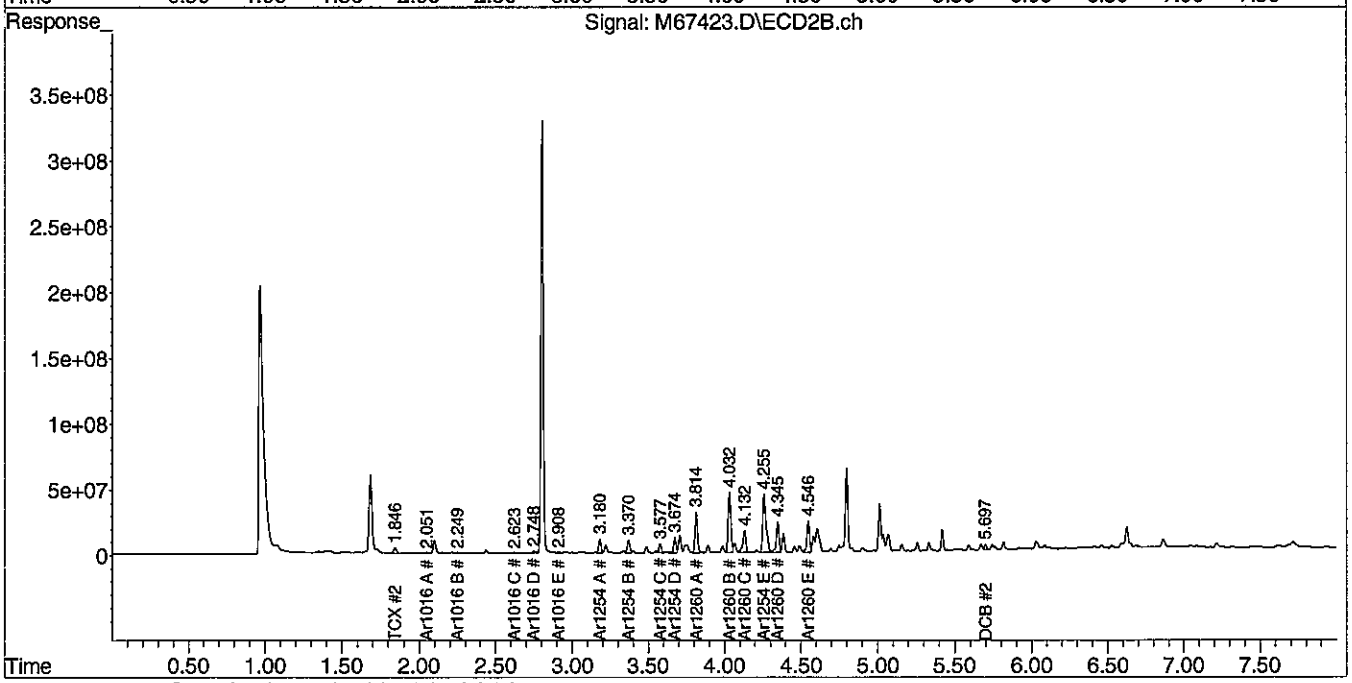
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67423.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2013 8:34 pm
Operator : JK
Sample : 74873-16,1:10,,A/C
Misc : SOIL
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 10:49:10 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 26, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74873-17 |
| **Matrix:** | Solid |
| **Percent Solid:** | 53 |
| **Dilution Factor:** | 9 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/22/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-217 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 297 | U |
| PCB-1221 | 297 | U |
| PCB-1232 | 297 | U |
| PCB-1242 | 297 | U |
| PCB-1248 | 297 | U |
| PCB-1254 | 297 | U |
| PCB-1260 | 297 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 87 | % |
| Decachlorobiphenyl | 80 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* Quantitation limits increased due to the sample matrix affect.

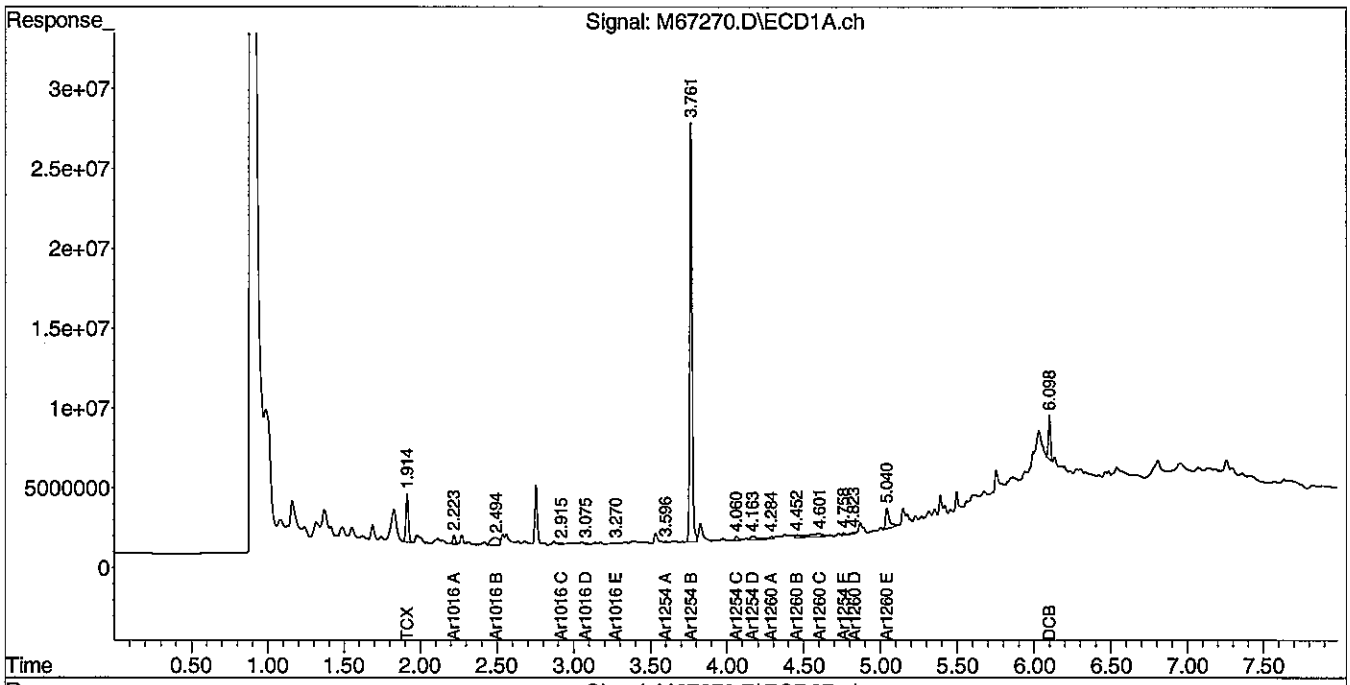
PCB Report

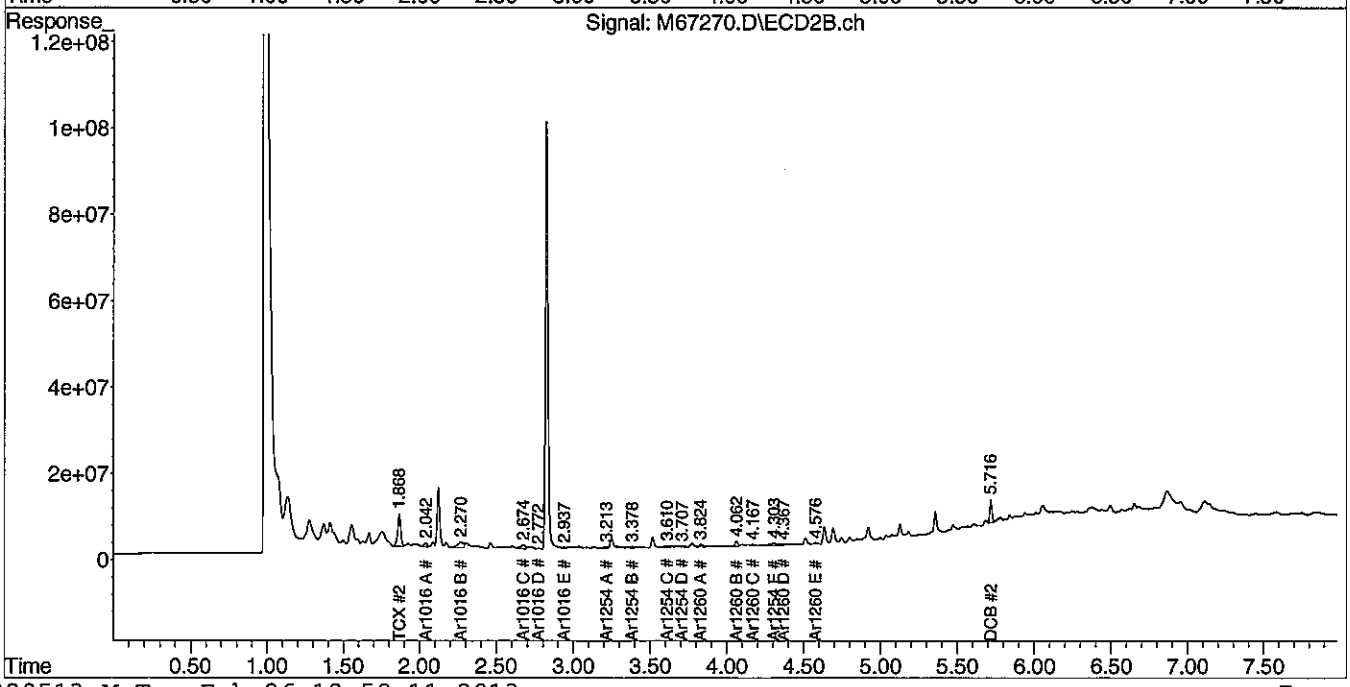
Authorized signature

Data Path : C:\msdchem\1\DATA\022213-M\
Data File : M67270.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2013 10:00 pm
Operator : JK
Sample : 74873-17,1:5,,A/C
Misc : SOIL
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 26 12:57:42 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 22 09:21:30 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74873-18 |
| **Matrix:** | Solid |
| **Percent Solid:** | 86 |
| **Dilution Factor:** | 6 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-217 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 198 | U |
| PCB-1221 | 198 | U |
| PCB-1232 | 198 | U |
| PCB-1242 | 198 | U |
| PCB-1248 | 198 | U |
| PCB-1254 | 198 | U |
| PCB-1260 | 198 | **1160** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 134* | % |
| Decachlorobiphenyl | 94 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* Surrogate recovery outside control limits. Secondary surrogate is in control.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873
Sample: 74873-18,1:5,,A/C
Data File: M67457.D
Dilution Factor: 5.6

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 1159 | 943 | 20.6 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

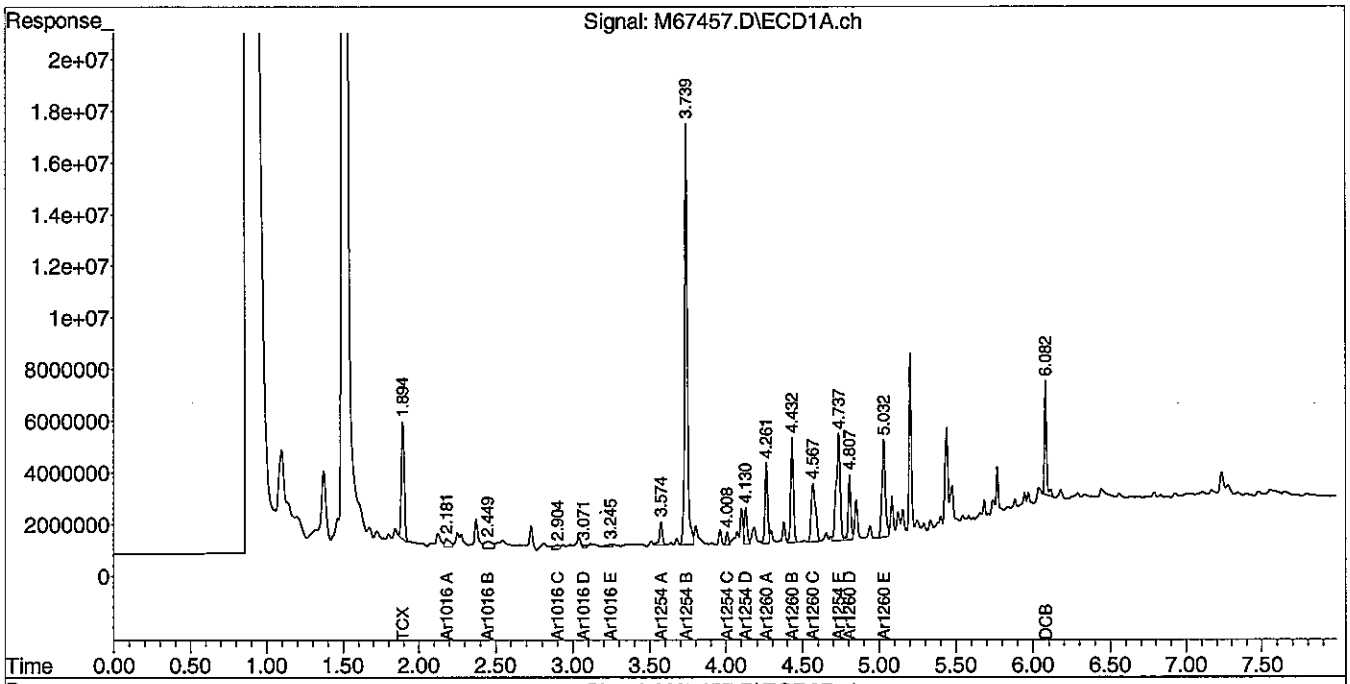
Comments: _____

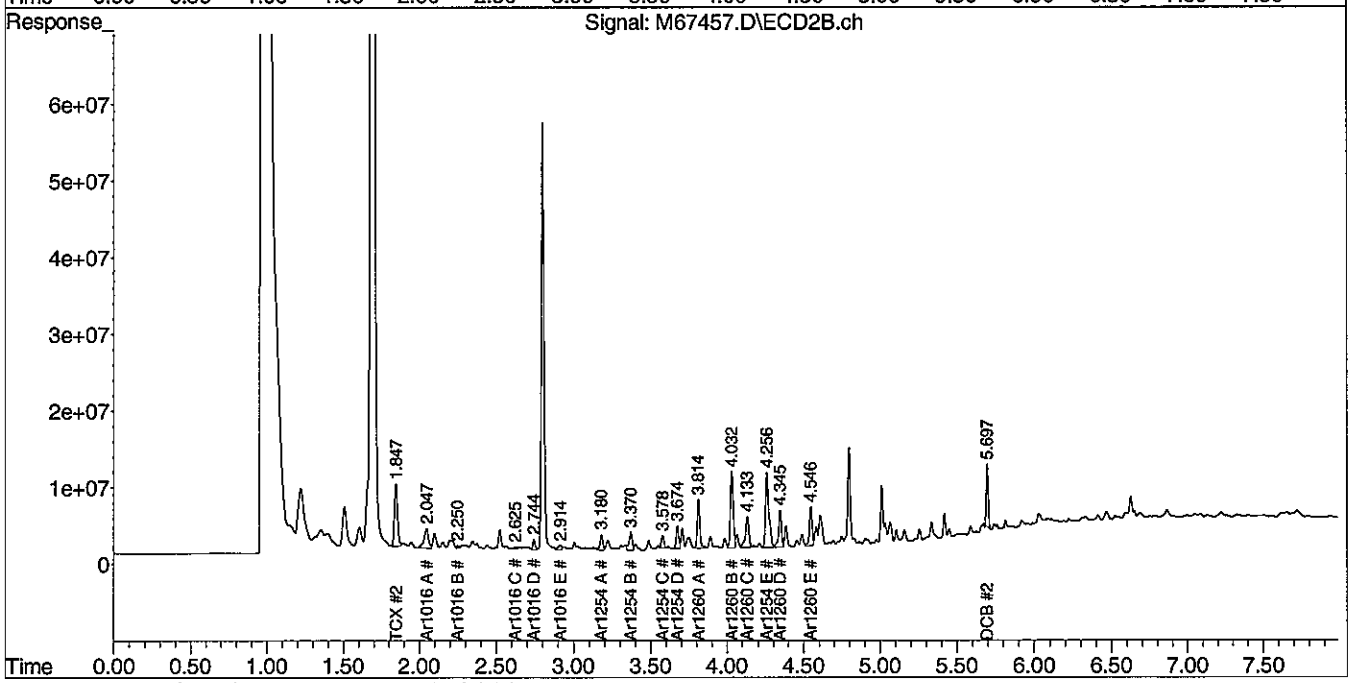
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67457.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 2:16 am
Operator : JK
Sample : 74873-18,1:5,,A/C
Misc : SOIL
ALS Vial : 41 Sample Multiplier: 1

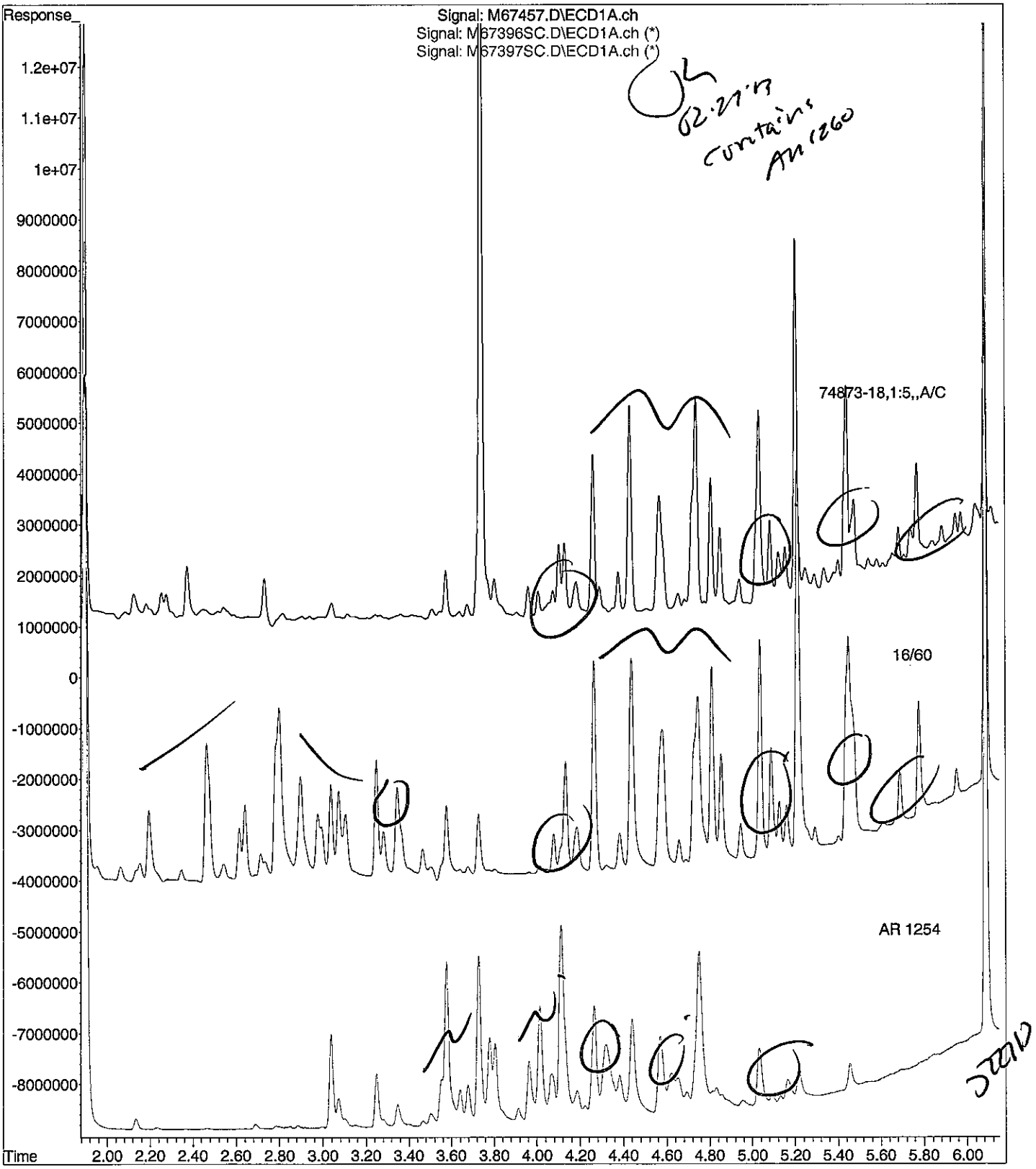
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 12:49:43 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\022613-M\M67457.D
Operator : JK
Acquired : 27 Feb 2013 2:16 am using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 74873-18,1:5,,A/C
Misc Info : SOIL
Vial Number: 41



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74873-19 |
| **Matrix:** | Solid |
| **Percent Solid:** | 93 |
| **Dilution Factor:** | 1.0 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-217 (4-6') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | **853** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 80 | % |
| Decachlorobiphenyl | 72 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873
Sample: 74873-19,,A/C
Data File: M67458.D
Dilution Factor: 1.0

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 853 | 726 | 16.1 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

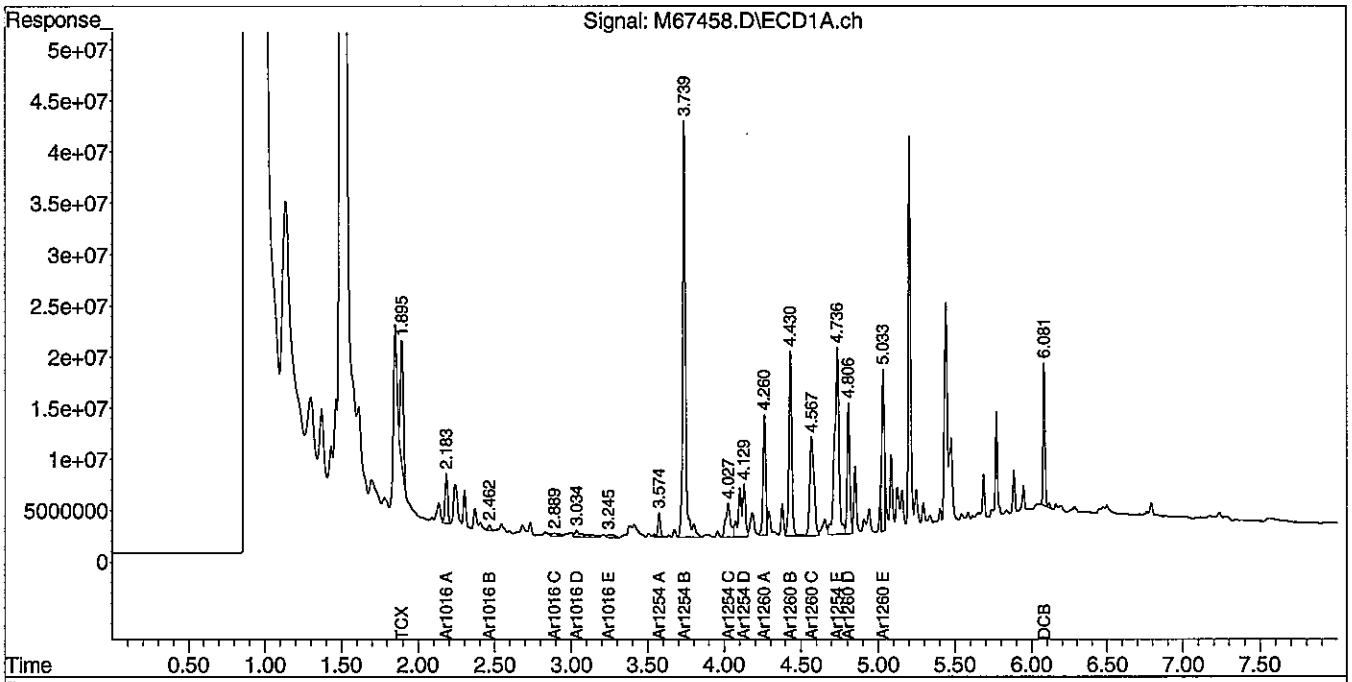
Comments: _____

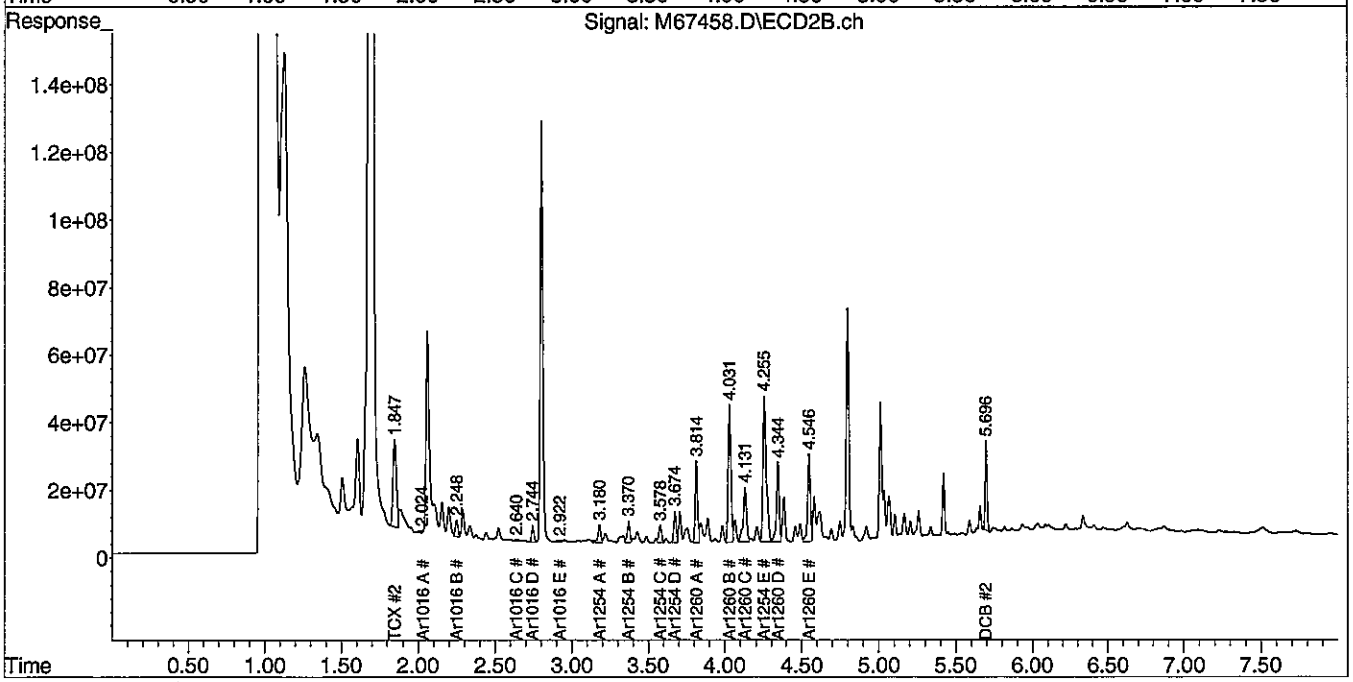
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67458.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 2:26 am
Operator : JK
Sample : 74873-19,,A/C
Misc : SOIL
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 12:51:35 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74873-20 |
| **Matrix:** | Solid |
| **Percent Solid:** | 89 |
| **Dilution Factor:** | 11 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-217 (8-10') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 363 | U |
| PCB-1221 | 363 | U |
| PCB-1232 | 363 | U |
| PCB-1242 | 363 | U |
| PCB-1248 | 363 | U |
| PCB-1254 | 363 | **7860** |
| PCB-1260 | 363 | **6680** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 115 | % |
| Decachlorobiphenyl | 89 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873
Sample: 74873-20,1:10,,A/C
Data File: M67504.D
Dilution Factor: 10.7

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 6684 | 5068 | 27.5 | |
| PCB 1254 | 7859 | 6730 | 15.5 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

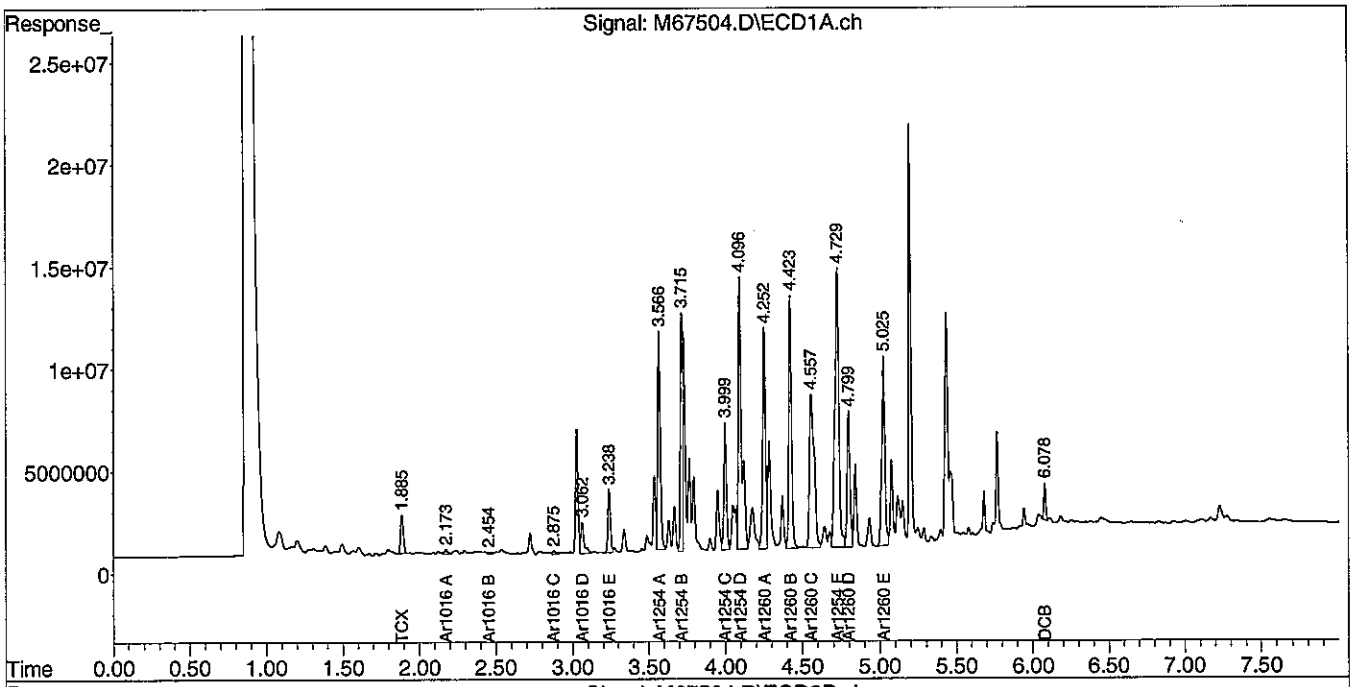
Comments: _____

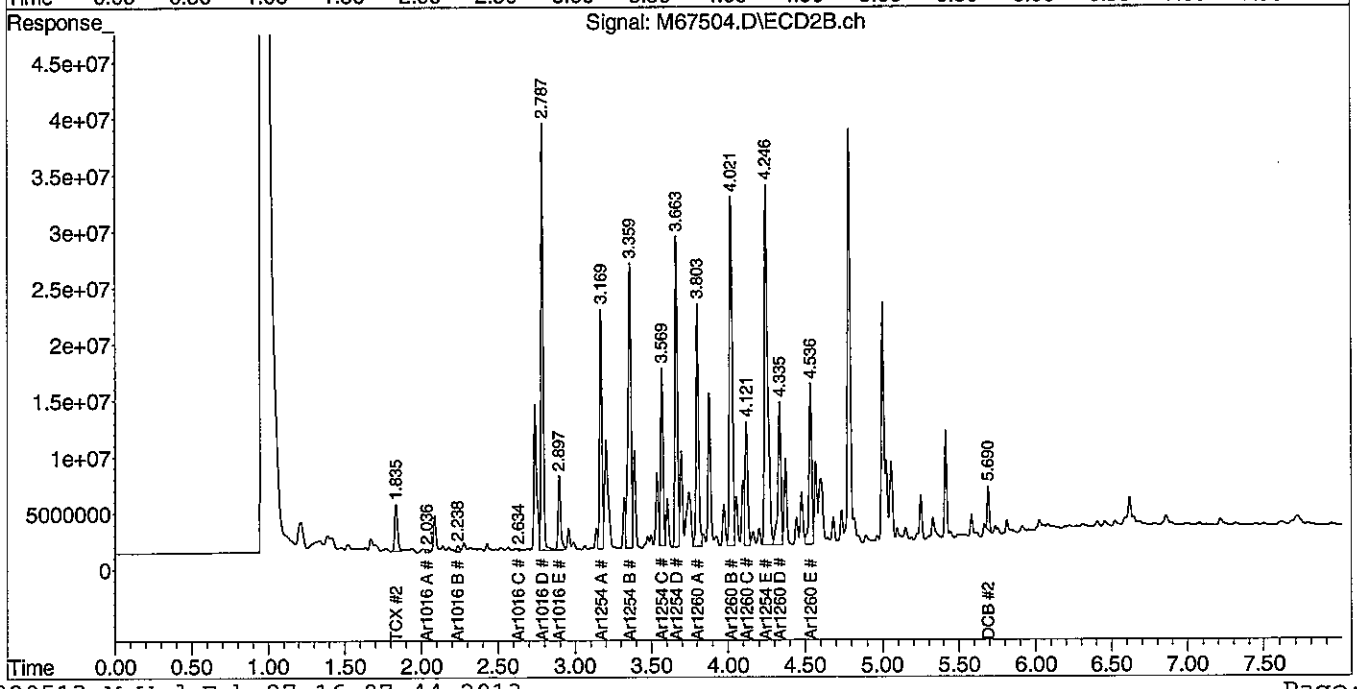
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022713-M\
Data File : M67504.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 1:29 pm
Operator : JK
Sample : 74873-20,1:10,,A/C
Misc : SOIL
ALS Vial : 7 Sample Multiplier: 1

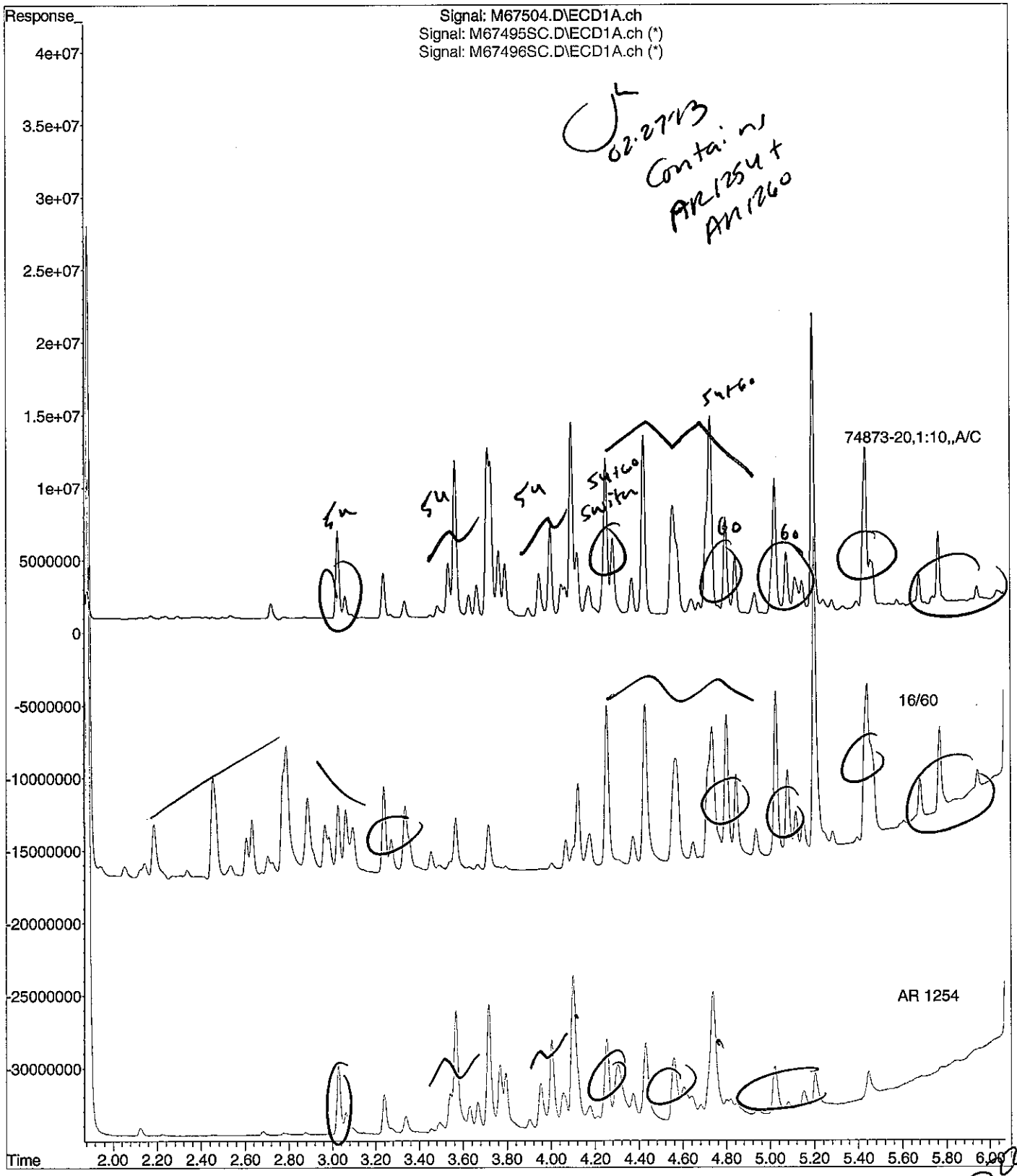
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 16:07:39 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\022713-M\M67504.D
Operator : JK
Acquired : 27 Feb 2013 1:29 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 74873-20,1:10,,A/C
Misc Info : SOIL
Vial Number: 7



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# PCB
# QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

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195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 22, 2013

**SAMPLE DATA**

**CLIENT SAMPLE ID**

**Project Name:** MAINE ENERGY

**Project Number:** 12-3259.1

**Field Sample ID:** Lab QC

**Lab Sample ID:** B022013PSOX2 RR
**Matrix:** Soil
**Percent Solid:** 100
**Dilution Factor:** 1.0
**Collection Date:**
**Lab Receipt Date:**
**Extraction Date:** 02/20/13
**Analysis Date:** 02/22/13

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 103 | % |
| Decachlorobiphenyl | 94 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

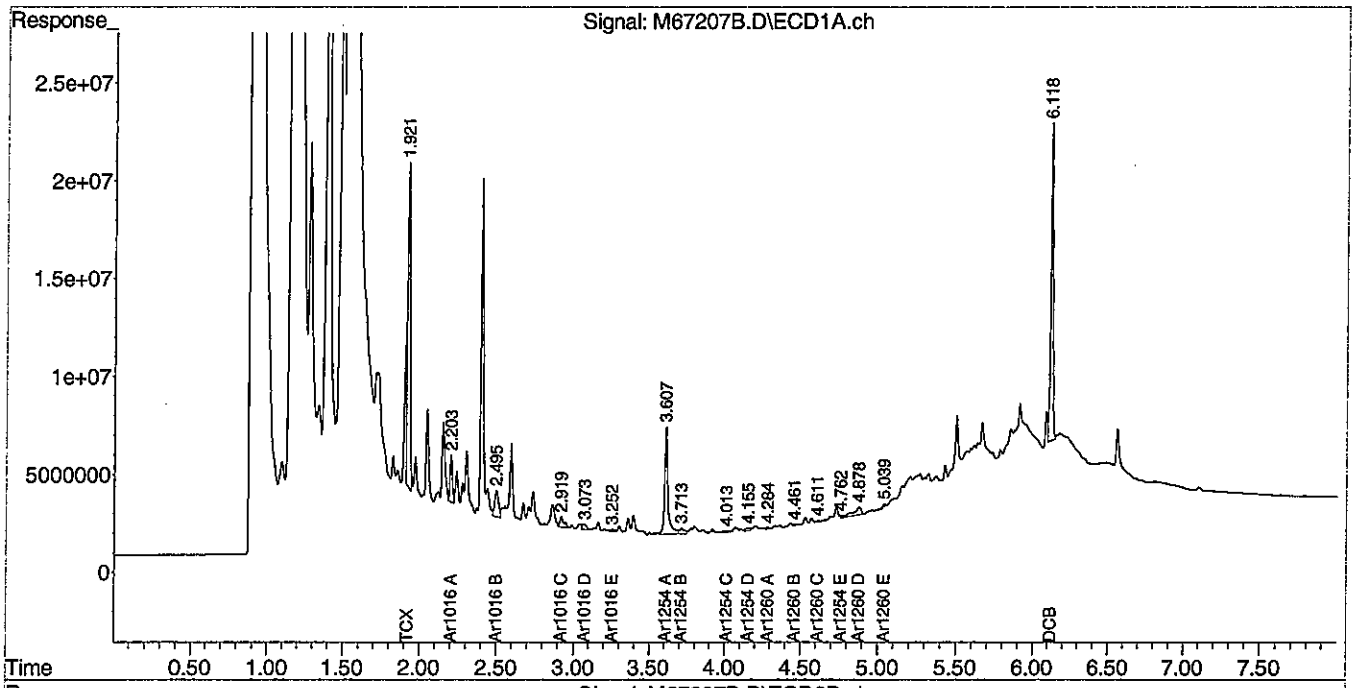
PCB Report

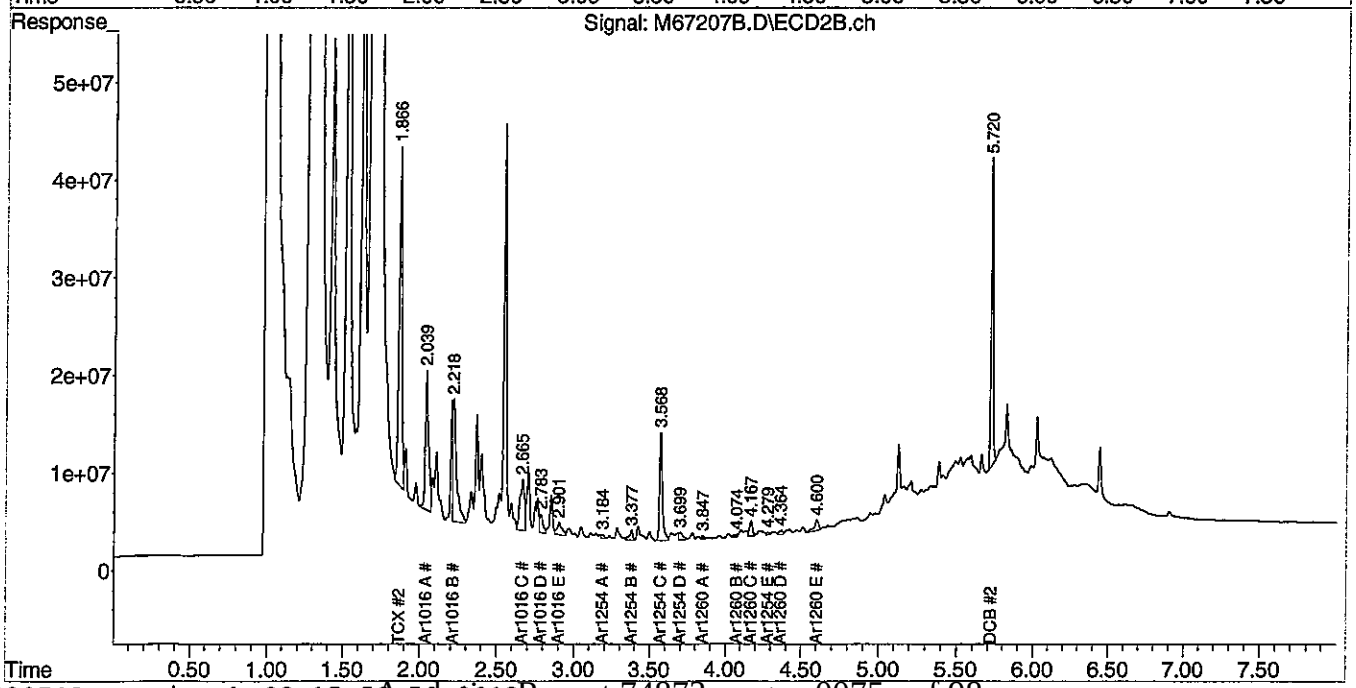
Authorized signature

Data Path : C:\msdchem\1\DATA\022213-M\
Data File : M67207B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2013 10:06 am
Operator : JK
Sample : B022013PSOX2,RR,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 22 15:58:42 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 22 09:21:30 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

**CLIENT SAMPLE ID**

**Project Name:** MAINE ENERGY

**Project Number:** 12-3259.1

**Field Sample ID:** Lab QC

**Lab Sample ID:** B022513PSOX
**Matrix:** Soil
**Percent Solid:** 100
**Dilution Factor:** 1.0
**Collection Date:**
**Lab Receipt Date:**
**Extraction Date:** 02/25/13
**Analysis Date:** 02/26/13

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 98 | % |
| Decachlorobiphenyl | 182* | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* Surrogate recovery outside control limits. Secondary surrogate is in control.

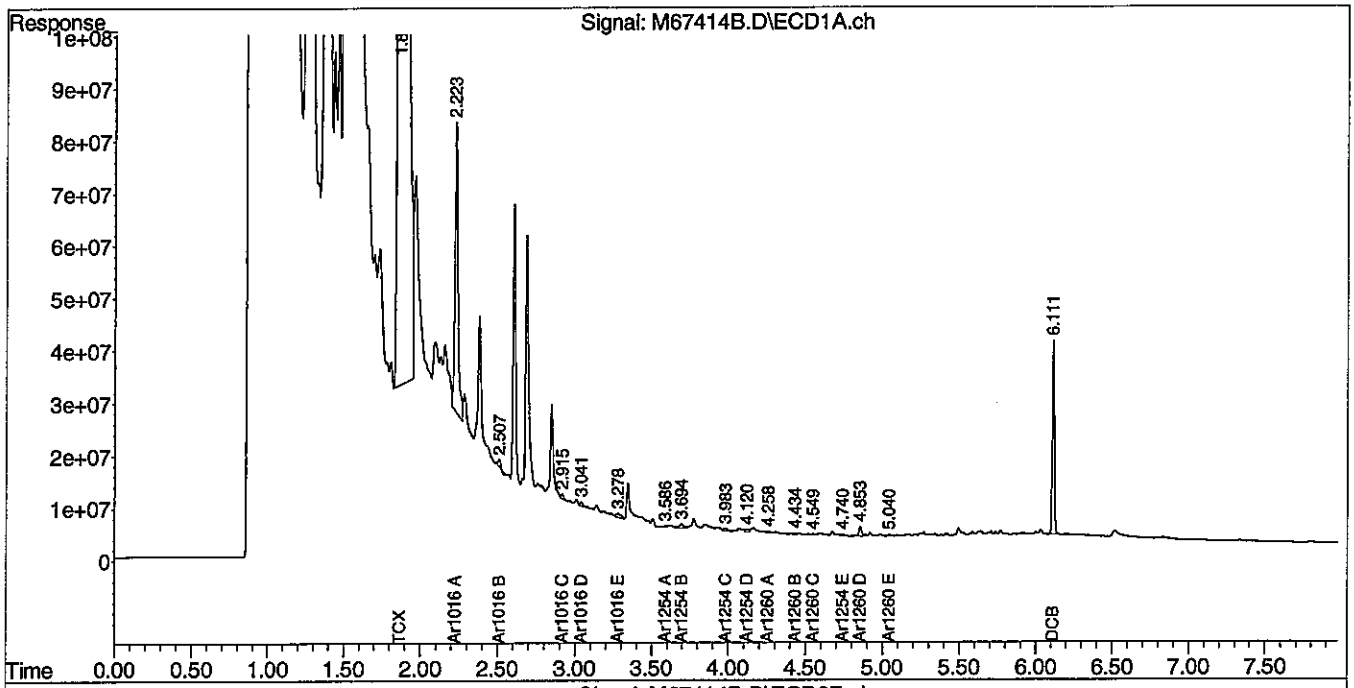
PCB Report

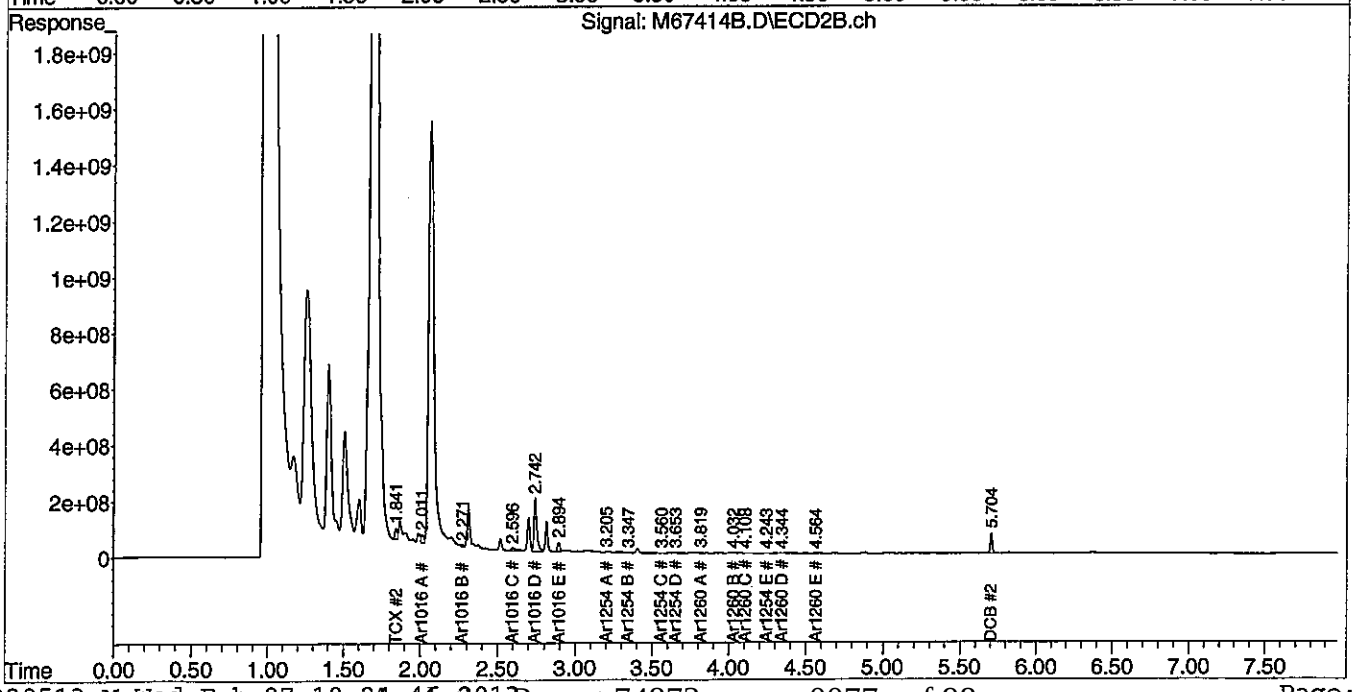
Authorized signature

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67414B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2013 7:03 pm
Operator : JK
Sample : B022513PSOX,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 10:22:59 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 26, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | B022113PSOX2 |
| **Matrix:** | Soil |
| **Percent Solid:** | 100 |
| **Dilution Factor:** | 1.0 |
| **Collection Date:** | |
| **Lab Receipt Date:** | |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/22/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | Lab QC |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 92 | % |
| Decachlorobiphenyl | 70 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

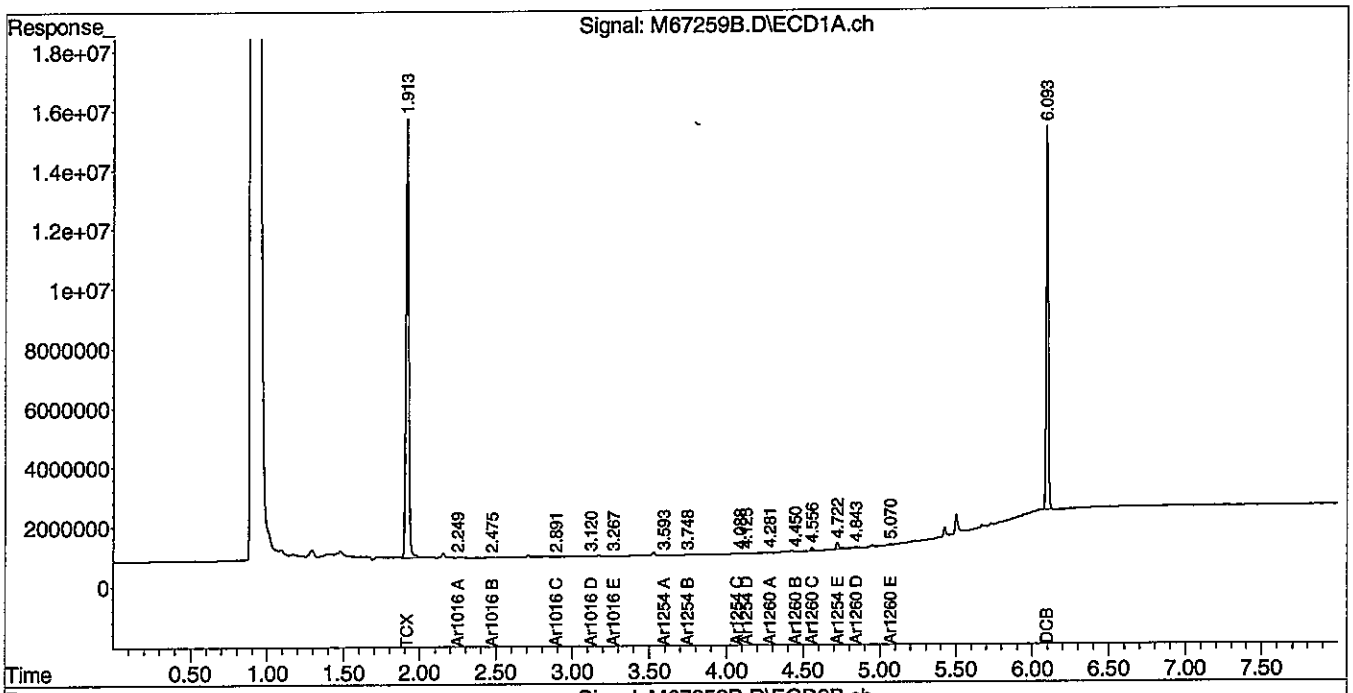
PCB Report

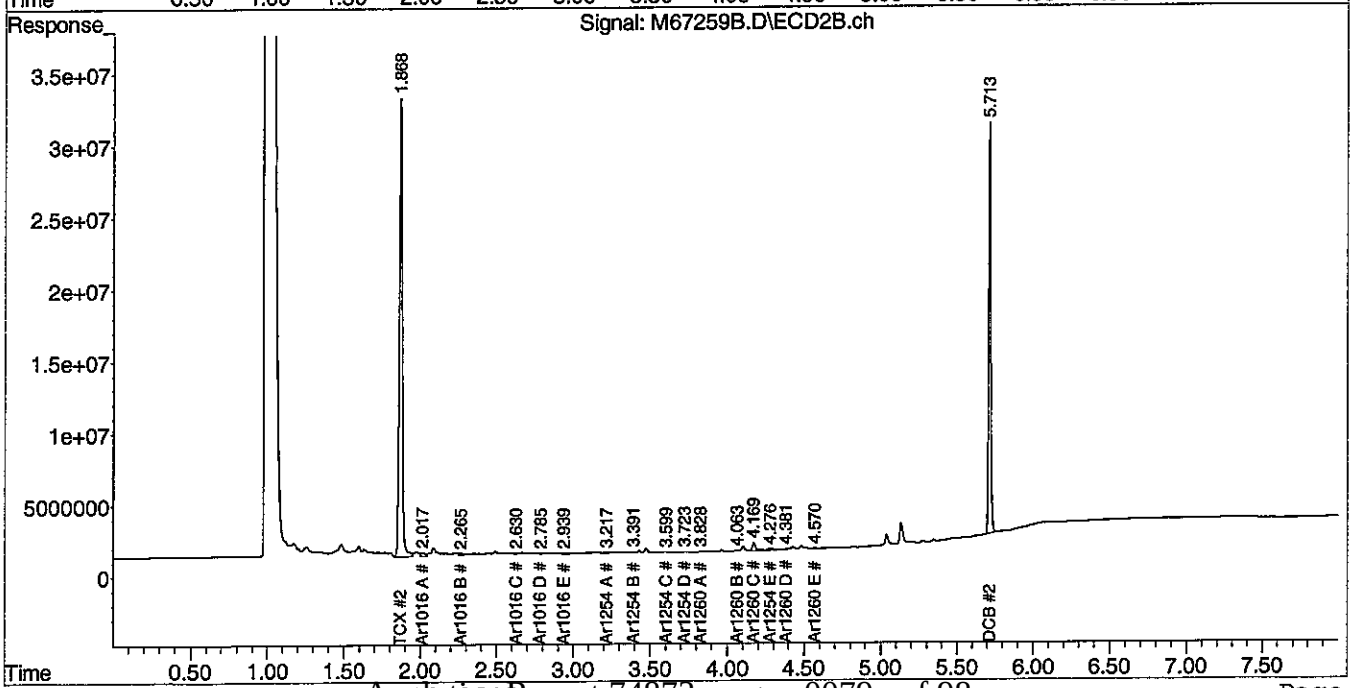
Authorized signature

Data Path : C:\msdchem\1\DATA\022213-M\
Data File : M67259B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2013 8:09 pm
Operator : JK
Sample : B022113PSOX2,,A/C
Misc : SOIL
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 26 11:43:01 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 22 09:21:30 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | B022213PSOX |
| **Matrix:** | Soil |
| **Percent Solid:** | 100 |
| **Dilution Factor:** | 1.0 |
| **Collection Date:** | |
| **Lab Receipt Date:** | |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | Lab QC |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 98 | % |
| Decachlorobiphenyl | 69 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

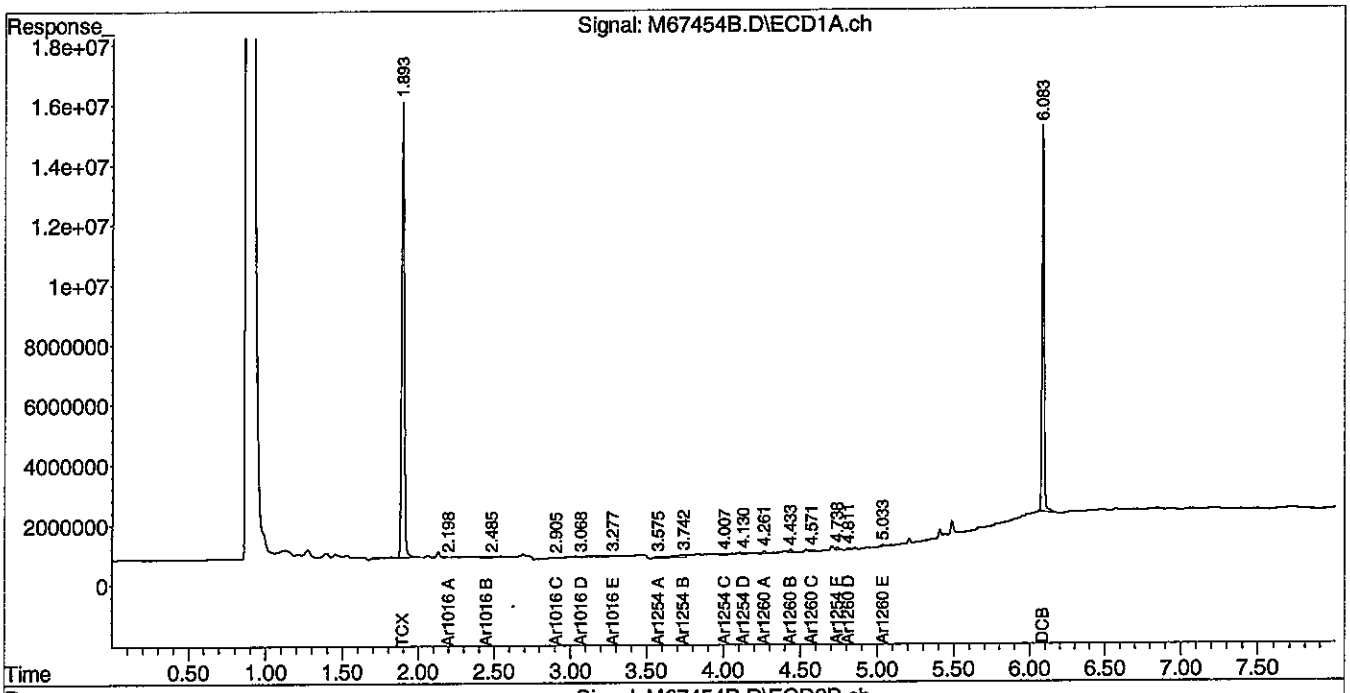
PCB Report

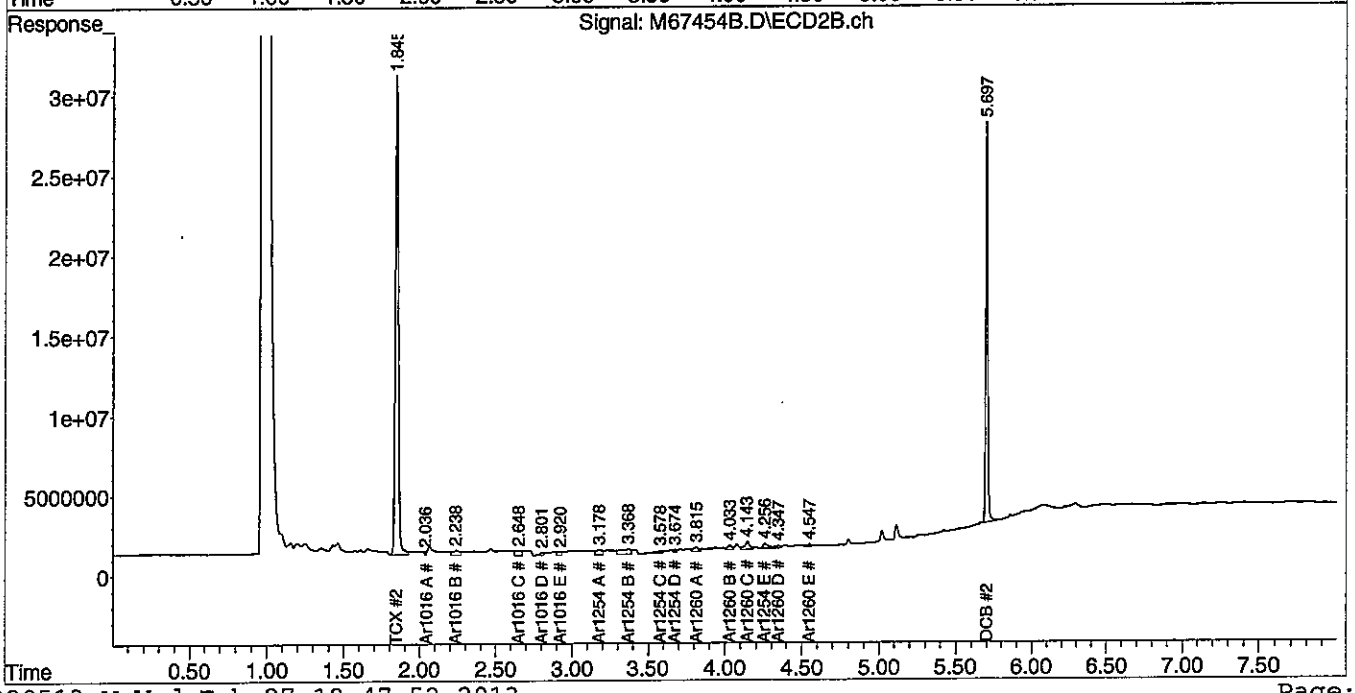
Authorized signature

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67454B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 1:46 am
Operator : JK JK 022713
Sample : B022213PSOX,,A/C ~~(Sig #1): B022113PSOX,,A/C (Sig #2)~~
Misc : SOIL
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 12:47:07 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

**CLIENT SAMPLE ID**

**Project Name:** MAINE ENERGY

**Project Number:** 12-3259.1

**Field Sample ID:** Lab QC

**Lab Sample ID:** B022213PSOX RR
**Matrix:** Soil
**Percent Solid:** 100
**Dilution Factor:** 1.0
**Collection Date:**
**Lab Receipt Date:**
**Extraction Date:** 02/21/13
**Analysis Date:** 02/27/13

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 100 | % |
| Decachlorobiphenyl | 75 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

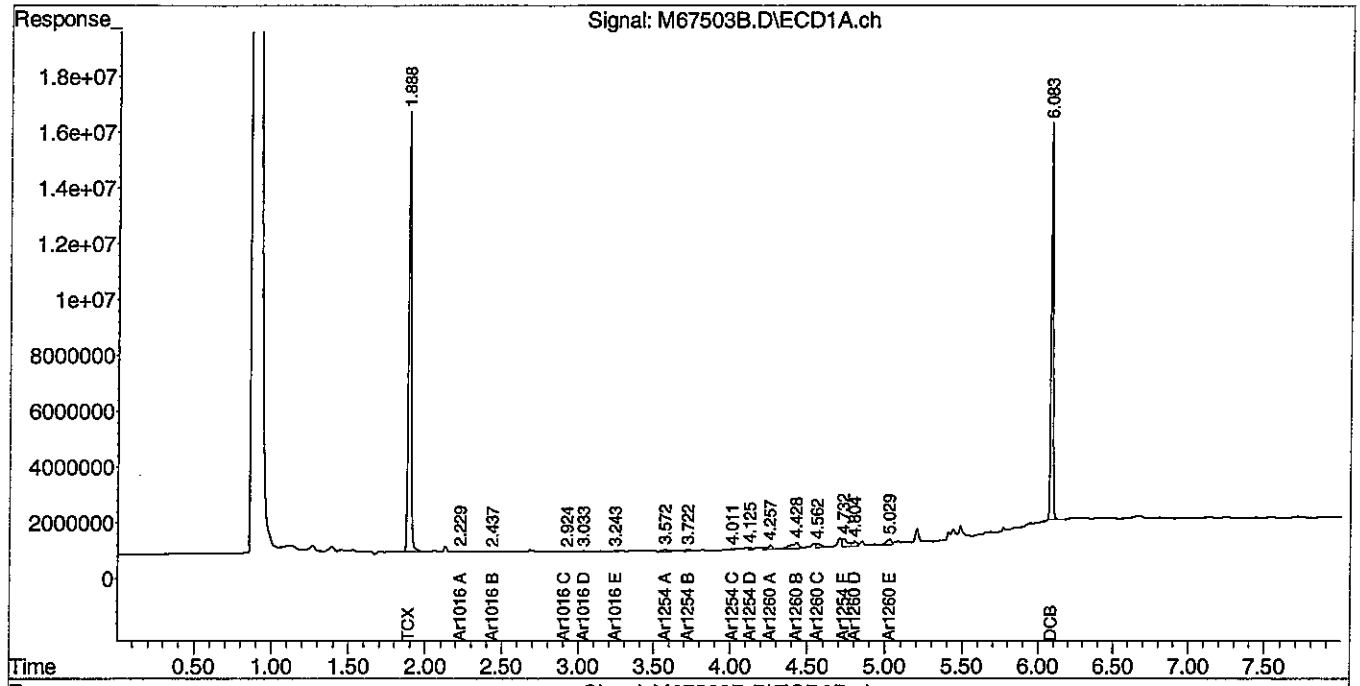
PCB Report

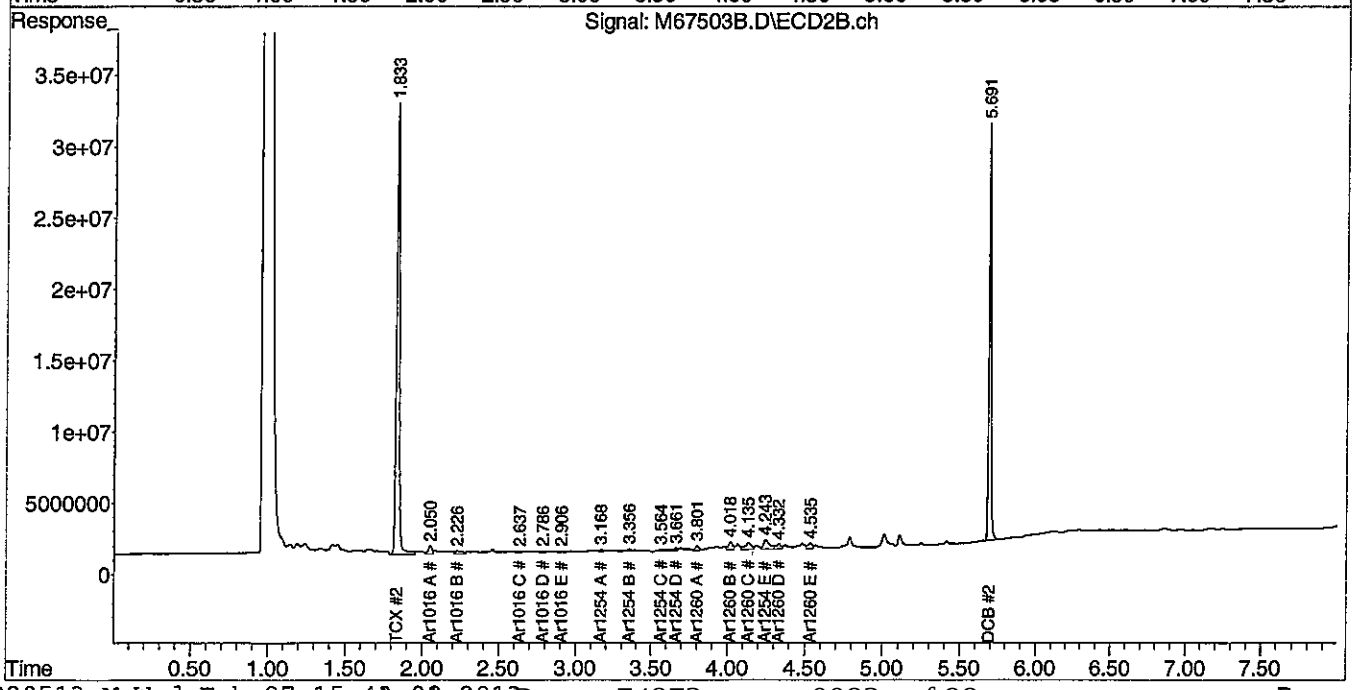
Authorized signature

Data Path : C:\msdchem\1\DATA\022713-M\
Data File : M67503B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 1:19 pm
Operator : JK
Sample : B022213PSOX,RR2,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:42:19 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873

| | Column #1 | | | | Column #2 | | | |
|---|---|---|---|---|---|---|---|---|
| SAMPLE ID | SMC 1 (%) | # | SMC 2 (%) | # | SMC 1 (%) | # | SMC 2 (%) | # |
| B022013PSOX2,RR,,A/C | 103 | | 94 | | 106 | | 79 | |
| L022013PSOX2,RR,,A/C | 89 | | 70 | | 90 | | 74 | |
| LD022013PSOX2,RR,,A/C | 86 | | 68 | | 88 | | 69 | |
| 74873-1,RR,,A/C | 90 | | 75 | | 99 | | 71 | |
| 74873-1,MS,RR,,A/C | 88 | | I | | 113 | | 64 | |
| 74873-1,MSD,RR,,A/C | 83 | | I | | I | | 104 | |
| 74873-2,1:20,,A/C | D | | D | | D | | D | |
| 74873-3,RR,,A/C | 112 | | 76 | | 105 | | 80 | |
| 74873-4,1:5,,A/C | 102 | | 102 | | 108 | | 102 | |
| 74873-5,1:5,,A/C | 84 | | 52 | | 85 | | 61 | |
| 74873-6,1:5,,A/C | 97 | | 61 | | 100 | | 81 | |
| 74873-7,1:5,,A/C | 87 | | 59 | | 92 | | 78 | |
| 74873-8,1:50,,A/C | D | | D | | D | | D | |

| | | Lower Limit | Upper Limit |
|---|---|---|---|
| SMC #1 = | TCX | 40 | 130 |
| SMC #2 = | DCB | 40 | 130 |

# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873

| | Column #1 | | | | Column #2 | | | |
|---|---|---|---|---|---|---|---|---|
| SAMPLE ID | SMC 1 (%) | # | SMC 2 (%) | # | SMC 1 (%) | # | SMC 2 (%) | # |
| B022113PSOX2,,A/C | 92 | | 70 | | 96 | | 72 | |
| L022113PSOX2,,A/C | 88 | | 68 | | 90 | | 70 | |
| LD022113PSOX2,,A/C | 86 | | 69 | | 88 | | 71 | |
| 74873-13,1:5,,A/C | 111 | | 80 | | 130 | | 94 | |
| 74873-14,1:5,,A/C | 78 | | 56 | | 85 | | 60 | |
| 74873-15,1:5,,A/C | 103 | | 59 | | 74 | | 73 | |
| 74873-17,1:5,,A/C | 87 | | 80 | | 121 | | 66 | |

| | | Lower Limit | Upper Limit |
|---|---|---|---|
| SMC #1 = | TCX | 40 | 130 |
| SMC #2 = | DCB | 40 | 130 |

# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873

| | Column #1 | | | | Column #2 | | | |
|---|---|---|---|---|---|---|---|---|
| SAMPLE ID | SMC 1 (%) | # | SMC 2 (%) | # | SMC 1 (%) | # | SMC 2 (%) | # |
| B022513PSOX,,A/C | I | | 203 | * | 98 | | 182 | * |
| L022513PSOX,,A/C | 101 | | 101 | | 114 | | 93 | |
| LD022513PSOX,,A/C | 104 | | 88 | | 92 | | 84 | |
| 74873-9,RX,1:5 | 115 | | 114 | | I | | 106 | |
| 74873-10,RX,1:5 | 92 | | 67 | | 93 | | 66 | |
| 74873-11,1:20,,A/C | D | | D | | D | | D | |
| 74873-12,1:10,,A/C | 100 | | 93 | | 101 | | 69 | |
| 74873-16,1:10,,A/C | 99 | | 100 | | 116 | | 116 | |
| 74873-16,MS,1:100,,A/C | D | | D | | D | | D | |
| 74873-16,MSD,1:100,,A/C | 104 | | 121 | | 113 | | 116 | |

| | | Lower Limit | Upper Limit |
|---|---|---|---|
| SMC #1 = | TCX | 40 | 130 |
| SMC #2 = | DCB | 40 | 130 |

# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873

| | Column #1 | | | | Column #2 | | | |
|---|---|---|---|---|---|---|---|---|
| SAMPLE ID | SMC 1 (%) | # | SMC 2 (%) | # | SMC 1 (%) | # | SMC 2 (%) | # |
| B022213PSOX,,A/C | 98 | | 69 | | 92 | | 64 | |
| L022213PSOX,,A/C | 97 | | 72 | | 90 | | 67 | |
| LD022213PSOX,,A/C | 98 | | 69 | | 91 | | 65 | |
| 74873-18,1:5,,A/C | 156 | * | 121 | | 134 | * | 94 | |
| 74873-19,,A/C | 80 | | 72 | | 92 | | 62 | |

| | Lower Limit | Upper Limit |
|---|---|---|
| SMC #1 = TCX | 40 | 130 |
| SMC #2 = DCB | 40 | 130 |

# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74873

| | Column #1 | | | | Column #2 | | | |
|---|---|---|---|---|---|---|---|---|
| SAMPLE ID | SMC 1 (%) | # | SMC 2 (%) | # | SMC 1 (%) | # | SMC 2 (%) | # |
| B022213PSOX,RR2,,A/C | 100 | | 75 | | 96 | | 77 | |
| 74873-20,1:10,,A/C | 115 | | 89 | | 125 | | 94 | |

| | | Lower Limit | Upper Limit |
|---|---|---|---|
| SMC #1 = | TCX | 40 | 130 |
| SMC #2 = | DCB | 40 | 130 |

# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG:

Non-spiked sample: B022013PSOX2,RR,,A/C

Spike: L022013PSOX2,RR,,A/C

Spike duplicate: LD022013PSOX2,RR,,A/C

| COMPOUND | LCS SPIKE ADDED (ug/kg) | LCSD SPIKE ADDED (ug/kg) | LOWER LIMIT | UPPER LIMIT | RPD LIMIT | NON-SPIKE RESULT (ug/kg) | SPIKE RESULT (ug/kg) | SPIKE % REC | # | SPIKE DUP RESULT (ug/kg) | SPIKE DUP % REC | # | RPD | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 200 | 200 | 65 | 140 | 30 | 0 | 157 | 78 | | 155 | 78 | | 0.8 | |
| PCB 1260 | 200 | 200 | 60 | 130 | 30 | 0 | 184 | 92 | | 149 | 74 | | 21.3 | |
| PCB 1016 #2 | 200 | 200 | 65 | 140 | 30 | 0 | 163 | 81 | | 165 | 83 | | 1.4 | |
| PCB 1260 #2 | 200 | 200 | 60 | 130 | 30 | 0 | 194 | 97 | | 147 | 74 | | 27.5 | |

# Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB SOIL
MATRIX SPIKE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG:

Non-spiked sample: 74873-1,RR,,A/C

Spike: 74873-1,MS,RR,,A/C

Spike duplicate: 74873-1,MSD,RR,,A/C

| COMPOUND | MS SPIKE ADDED (ug/kg) | MSD SPIKE ADDED (ug/kg) | LOWER LIMIT | UPPER LIMIT | RPD LIMIT | NON-SPIKE RESULT (ug/kg) | SPIKE RESULT (ug/kg) | SPIKE % REC | # | SPIKE DUP RESULT (ug/kg) | SPIKE DUP % REC | # | RPD | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 209 | 202 | 60 | 140 | 30 | 0 | 180 | 86 | | 170 | 84 | | 5.6 | |
| PCB 1260 | 209 | 202 | 60 | 140 | 30 | 65 | 241 | 84 | | 338 | 135 | | 33.6 | * |
| PCB 1016 #2 | 209 | 202 | 60 | 140 | 30 | 0 | 153 | 73 | | 253 | 125 | | 49.2 | * |
| PCB 1260 #2 | 209 | 202 | 60 | 140 | 30 | 64 | 333 | 129 | | 252 | 93 | | 27.7 | |

# Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

MS/MSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG:

Non-spiked sample: B022113PSOX2,,A/C

Spike: L022113PSOX2,,A/C

Spike duplicate: LD022113PSOX2,,A/C

| COMPOUND | LCS SPIKE ADDED (ug/kg) | LCSD SPIKE ADDED (ug/kg) | LOWER LIMIT | UPPER LIMIT | RPD LIMIT | NON-SPIKE RESULT (ug/kg) | SPIKE RESULT (ug/kg) | SPIKE % REC | # | SPIKE DUP RESULT (ug/kg) | SPIKE DUP % REC | # | RPD | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 200 | 200 | 65 | 140 | 30 | 0 | 169 | 84 | | 166 | 83 | | 1.5 | |
| PCB 1260 | 200 | 200 | 60 | 130 | 30 | 0 | 162 | 81 | | 160 | 80 | | 1.5 | |
| PCB 1016 #2 | 200 | 200 | 65 | 140 | 30 | 0 | 166 | 83 | | 164 | 82 | | 1.0 | |
| PCB 1260 #2 | 200 | 200 | 60 | 130 | 30 | 0 | 160 | 80 | | 161 | 80 | | 0.4 | |

# Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG:

Non-spiked sample: B022513PSOX,,A/C

Spike: L022513PSOX,,A/C

Spike duplicate: LD022513PSOX,,A/C

| COMPOUND | LCS SPIKE ADDED (ug/kg) | LCSD SPIKE ADDED (ug/kg) | LOWER LIMIT | UPPER LIMIT | RPD LIMIT | NON-SPIKE RESULT (ug/kg) | SPIKE RESULT (ug/kg) | SPIKE % REC | # | SPIKE DUP RESULT (ug/kg) | SPIKE DUP % REC | # | RPD | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 200 | 200 | 65 | 140 | 30 | 0 | 179 | 90 | | 192 | 96 | | 7.0 | |
| PCB 1260 | 200 | 200 | 60 | 130 | 30 | 0 | 207 | 103 | | 200 | 100 | | 3.6 | |
| PCB 1016 #2 | 200 | 200 | 65 | 140 | 30 | 0 | 171 | 86 | | 169 | 85 | | 1.0 | |
| PCB 1260 #2 | 200 | 200 | 60 | 130 | 30 | 0 | 197 | 99 | | 186 | 93 | | 5.9 | |

# Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

PCB SOIL
MATRIX SPIKE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG:

Non-spiked sample: 74873-16,1:10,,A/C

Spike: 74873-16,MS,1:100,,A/C

Spike duplicate: 74873-16,MSD,1:100,,A/C

| COMPOUND | MS SPIKE ADDED (ug/kg) | MSD SPIKE ADDED (ug/kg) | LOWER LIMIT | UPPER LIMIT | RPD LIMIT | NON-SPIKE RESULT (ug/kg) | SPIKE RESULT (ug/kg) | SPIKE % REC | # | SPIKE DUP RESULT (ug/kg) | SPIKE DUP % REC | # | RPD | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 221 | 210 | 65 | 140 | 30 | 0 | D | D | | D | D | | | |
| PCB 1260 | 221 | 210 | 60 | 130 | 30 | 9144 | 68555 | 26827 | * | 8979 | -79 | * | 153.7 | * |
| PCB 1016 #2 | 221 | 210 | 65 | 140 | 30 | 0 | D | D | | D | D | | | |
| PCB 1260 #2 | 221 | 210 | 60 | 130 | 30 | 7785 | 57720 | 22547 | * | 7607 | -85 | * | 153.4 | * |

# Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

MS/MSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG:

Non-spiked sample: B022213PSOX,,A/C

Spike: L022213PSOX,,A/C

Spike duplicate: LD022213PSOX,,A/C

| COMPOUND | LCS SPIKE ADDED (ug/kg) | LCSD SPIKE ADDED (ug/kg) | LOWER LIMIT | UPPER LIMIT | RPD LIMIT | NON-SPIKE RESULT (ug/kg) | SPIKE RESULT (ug/kg) | SPIKE % REC | # | SPIKE DUP RESULT (ug/kg) | SPIKE DUP % REC | # | RPD | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 200 | 200 | 65 | 140 | 30 | 0 | 178 | 89 | | 175 | 87 | | 2.0 | |
| PCB 1260 | 200 | 200 | 60 | 130 | 30 | 0 | 179 | 90 | | 173 | 87 | | 3.3 | |
| PCB 1016 #2 | 200 | 200 | 65 | 140 | 30 | 0 | 173 | 86 | | 166 | 83 | | 4.0 | |
| PCB 1260 #2 | 200 | 200 | 60 | 130 | 30 | 0 | 172 | 86 | | 166 | 83 | | 3.7 | |

# Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

analytics environmental laboratory LLC

# CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

# Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 0.3-0.7°
3) Received in good condition: (Y) or N
4) pH checked by: N/A
5) Labels checked by: JB 2/20/13

Project Name: MAINE ENERGY
Project#: 12-3259.1
Company: SUMMIT
Report to: JOHN GREESEY
Address: 640 MAIN ST.
LEWISTON, ME 04240
Phone: (207) 795-6609
Quote #:
PO# (if required): 12-3259.1

Preservation Code:
Preseravtion Key:
A= HCL
B= 4°C
C= Unpres
D = MeOH
E = HNO3
F = H2SO4
G = Hexane
H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please fill in preservation code here

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

| Sample Identification | Sample Date | Sample Time | Field Filtered? Y or N | VOC: 8260 524.2 624 | SVOC: 8270 625 PAH only SIM | Pesticides: 8081 608 | PCB: (8082) 608 Soxhlet? (Y) or N | TPH: 8015 (Gas Range) ME4217 | TPH: 8015 (Diesel Range) 8100M ME4125 | EPH: Full or Ranges only TETPH | VPH: Full or Ranges only | Metals: RCRA8 PP13 TAL23 Other** | Matrix | No. of Containers | pH checked | Analytics Sample # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SE-SB-216 (2.5'-24") | 2-19 | 1058 | N | | | | X | | | | | | S | 1 | | 74873-1 |
| SE-SB-216 (2-4') | | 1120 | N | | | | X | | | | | | | | | -2 |
| SE-SB-216 (4-6') | | 1125 | N | | | | X | | | | | | | | | -3 |
| SE-SB-215 (0-2') | | 1136 | N | | | | X | | | | | | | | | -4 |
| SE-SB-215 (2-4') | | 1145 | N | | | | X | | | | | | | | | -5 |
| SE-SB-215 (4-6') | | 1154 | N | | | | X | | | | | | | | | -6 |
| SE-SB-215 (6-8') | | 1200 | N | | | | X | | | | | | | | | -7 |
| SE-SB-215 (8-10') | | 1205 | N | | | | X | | | | | | | | | -8 |
| SE-SB-214 (0-2') | | 1220 | N | | | | X | | | | | | | | | -9 |
| SE-SB-214 (2-4') | | 1228 | N | | | | X | | | | | | | | | -10 |

Email Results to: JGREESEY@SUMMITENV.COM

Comments, Additional Analyses, or Special Instructions: ** List requested metals here

Turnaround Time (TAT)
- [ ] 1 Day*
- [ ] 2 Days*
- [ ] 3 Days*
- [ ] 4 Days*
- [ ] 5 Days
- [x] Standard (8-10 business days)

*Fee may apply; lab approval required

*Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.*

Project Requirements:
*Fee may apply

Report Type:
- [ ] MCP*
- [ ] Level II*
- [ ] CTRCP*
- [ ] Level III*
- [ ] DOD*
- [ ] Level IV*
- [x] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI

Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y* (N)

Type:

Sampler Name (Print): JOHN GREESEY

| | | | | |
|---|---|---|---|---|
| Relinquished By Sampler: | Date: 2-20 | Time: 1131 | Received By: | |
| Relinquished By: | Date: | Time: | Received By: | |
| Relinquished By: | Date: | Time: | Received By: | |

# Chain Of Custody Form

**analytics** environmental laboratory LLC

195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906

(603) 436-5111
(603) 430-2151 Fax

Project Name: MAINE ENERGY
Project#: 12-3259.1
Company: SUMMIT
Report to: JOHN CRESSY
Address: 640 MAIN ST.
LEWISTON, ME 04240
Phone: (207) 795-6009
Quote #:
PO# (if required): 12-3259.1

Preservation Code:

Preseravtion Key:
A= HCL
B= 4°C
C= Unpres
D = MeOH
E = HNO3
F = H2SO4
G = Hexane
H = Other

Circle and/or Write Required Analysis Followed by Preservation Code

Please fill in preservation code here B

| Sample Identification | Sample Date | Sample Time | Field Filtered? Y or N | VOC: 8260 524.2 624 | SVOC: 8270 625 PAH only SIM | Pesticides: 8081 608 | PCB: 8082 608 Soxhlet? Y or N | TPH: 8015 (Gas Range) ME4217 | TPH: 8015 (Diesel Range) 8100M ME4125 | EPH: Full or Ranges only TETPH | VPH: Full or Ranges only | Metals: RCRA8 PP13 TAL23 Other** | Matrix | No. of Containers | pH checked | Analytics Sample # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SE-SB-214 (4-6') | 2-19 | 1234 | N | | | | X | | | | | | S | 1 | | -11 |
| SE-SB-214 (6-7') | | 1237 | N | | | | X | | | | | | S | 1 | | -12 |
| SE-SB-213 (0-2') | | 1247 | N | | | | X | | | | | | S | 1 | | -13 |
| SE-SB-213 (2-4') | | 1310 | N | | | | X | | | | | | S | 1 | | -14 |
| SE-SB-213 (4-6') | | 1318 | N | | | | X | | | | | | S | 1 | | -15 |
| SE-SB-213 (6-7.5') | | 1324 | N | | | | X | | | | | | S | 1 | | -16 |
| SE-SB-217 (0-2') | | 1335 | N | | | | X | | | | | | S | 1 | | -17 |
| SE-SB-217 (2-4') | | 1343 | N | | | | X | | | | | | S | 1 | | -18 |
| SE-SB-217 (4-6') | | 1346 | N | | | | X | | | | | | S | 1 | | -19 |
| SE-SB-217 (8-10') | | 1400 | N | | | | X | | | | | | S | 1 | | -20 |

For Analytics Use Only

Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 0.3-0.70
3) Received in good condition: Y or N
4) pH checked by: NA
5) Labels checked by: 2/20/13

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

Email Results to: JCRESSY@SUMMITINV.COM

Turnaround Time (TAT)
- [ ] 1 Day*
- [ ] 2 Days*
- [ ] 3 Days*
- [ ] 4 Days*
- [ ] 5 Days
- [x] Standard (8-10 business days)

*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions:

** List requested metals here

*Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.*

Project Requirements:
*Fee may apply

Report Type:
- [ ] MCP*
- [ ] Level II*
- [ ] CTRCP*
- [ ] Level III*
- [ ] DOD*
- [ ] Level IV*
- [x] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI

Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y N

Type:

Sampler Name (Print): JOHN CRESSY

| | | | | |
|---|---|---|---|---|
| Relinquished By Sampler: | Date: 2-20 | Time: 1131 | Received By: | KSteinen |
| Relinquished By: | Date: | Time: | Received By: | |
| Relinquished By: | Date: | Time: | Received By: | |

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: ~~74783~~ 74873

COOLER NUMBER: 74, 223

CLIENT: Summit

NUMBER OF COOLERS: 2

PROJECT: Maine Energy

**A: PRELIMINARY EXAMINATION:**

1. Cooler received by(initials): KG

DATE COOLER RECEIVED/OPENED: 02/20/13

2. Circle one: Hand delivered ~~(If so, skip 3)~~ Shipped

3. Did cooler come with a shipping slip? Y (N)

3a. Enter carrier name and airbill number here: _____

4. Were custody seals on the outside of cooler? Y (N)
How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y N/A

6. COC#: _____

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? (Y) N

8. Were custody papers sealed in a plastic bag? Y (N)

9. Did you sign the COC in the appropriate place? (Y) N

10. Was enough ice used to chill the cooler? (Y) N Temp. of cooler: 0.3°C, 0.7°C

**B. Log-In:** Date samples were logged in: KG By: 02/20/13

11. Were all bottles sealed in separate plastic bags? Y (N)

12. Did all bottles arrive unbroken and were labels in good condition? (Y) N

13. Were all bottle labels complete(ID,Date,time,etc.) Y (N) -14' missing part of IC and time on labs ID on cap.

14. Did all bottle labels agree with custody papers? (Y) N

15. Were the correct containers used for the tests indicated: (Y) N

16. Were samples received at the correct pH? Y N/A

17. Was sufficient amount of sample sent for the tests indicated? (Y) N

18. Were all samples submitted within holding time? (Y) N

19. Were all containers used within AEL 's expiration date?** Y N/A

20. Were VOA samples absent of greater than pea-sized bubbles? Y N*/A
(Note:Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatiles data.)

*If NO, List Sample ID's, Lab #s: _____

When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): JB Date: 2/20/13

**The expiration date is recommended by Analytics Environmental Laboratory and not the method. Therefore this does not mean that the results are non-compliant.

C:ANLYTICS LLC\AEL DOCUMENTS\FORMS\SMPL CHKLST\Edit 4908

Rev. 6, 8/27/12

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

February 27, 2013

Mr. John Cressey
Summit Environmental
640 Main Street
Lewiston ME 04240

**RE: Analytical Results Case Narrative**
**Analytics # 74874**
**Maine Energy**
**Project No: 12-3259.1**

Dear Mr. Cressey;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082A.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples
PCB Form 3 MS/MSD (LCS) Recoveries and Blanks
Chromatograms
Chain of Custody (COC) Forms

## QC NON CONFORMANCE SUMMARY

**Sample Receipt:**
Sample SE-SB-219 (74874-10) was listed on the chain of custody (COC) but was not present in the cooler. The client was contacted and informed the laboratory that the sample was not collected.

**PCBs by EPA Method 8082:**
No results were reported below the quantitation limit.

Samples 74874-6 thru 74874-20 required dilution due to concentrations of PCBs that exceeded the calibration range of the instrument.

Sample 74873-18 had high recoveries for surrogate Tetrachloro-m-xylene. Decachlorobiphenyl surrogate recoveries were in control. Results were reported with a comment to this affect. Some samples had interference that prevented the determination of a surrogate recovery. Results were reported off the column without interferences when possible, or the sample was reported with a comment to this affect.

The MS/MSD analyzed on sample 74874-2 had low recoveries for PCB 1260. The parent sample had PCB 1260 detected. The laboratory control samples (L022113PSOX,RR/LD022113PSOX, RR) were in control. Results were reported without qualification.

If you have any questions on this data submittal, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen Knollmeyer
Laboratory Director

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

**Report Number: 74874**

**Revision: Rev. 0**

**Re: MAINE ENERGY (Project No: 12-3259.1)**

Enclosed are the results of the analyses on your sample(s). Samples were received on 20 February 2013 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

**Sample Analysis:** The attached pages detail the Client Sample IDs, Lab Sample IDs, and Analyses requested

**Sample Receipt Exceptions:** None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date _____

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195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

**CLIENT: Summit Environmental Consultants Inc.** **REPORT NUMBER: 74874** **REV: Rev. 0**

**PROJECT: MAINE ENERGY (Project No: 12-3259.1)**

| Lab Number | Sample Date | Station Location | Analysis | Comments |
|---|---|---|---|---|
| 74874-1 | 02/19/13 | SE-SB-221 (0-2') | EPA 8082 (PCBs only) | |
| 74874-2 | 02/19/13 | SE-SB-221 (2-4') | EPA 8082 (PCBs only) | |
| 74874-3 | 02/19/13 | SE-SB-221 (4-5') | EPA 8082 (PCBs only) | |
| 74874-4 | 02/19/13 | SE-SB-220 (0-2') | EPA 8082 (PCBs only) | |
| 74874-5 | 02/19/13 | SE-SB-220 (2-4') | EPA 8082 (PCBs only) | |
| 74874-6 | 02/19/13 | SE-SB-220 (4-6') | EPA 8082 (PCBs only) | |
| 74874-7 | 02/19/13 | SE-SB-220 (6-8') | EPA 8082 (PCBs only) | |
| 74874-8 | 02/19/13 | SE-SB-220 (8-10') | EPA 8082 (PCBs only) | |
| 74874-9 | 02/19/13 | SE-SB-220 (10-11') | EPA 8082 (PCBs only) | |
| 74874-11 | 02/19/13 | SE-SB-219 (0-2') | EPA 8082 (PCBs only) | |
| 74874-12 | 02/19/13 | SE-SB-219 (2-4') | EPA 8082 (PCBs only) | |
| 74874-13 | 02/19/13 | SE-SB-219 (4-6') | EPA 8082 (PCBs only) | |
| 74874-14 | 02/19/13 | SE-SB-219 (6-8') | EPA 8082 (PCBs only) | |
| 74874-15 | 02/19/13 | SE-SB-219 (8-10') | EPA 8082 (PCBs only) | |
| 74874-16 | 02/19/13 | SE-SB-224 (0-2') | EPA 8082 (PCBs only) | |
| 74874-17 | 02/19/13 | SE-SB-224 (2-4') | EPA 8082 (PCBs only) | |
| 74874-18 | 02/19/13 | SE-SB-224 (6-8') | EPA 8082 (PCBs only) | |
| 74874-19 | 02/19/13 | SE-SB-225 (0-2') | EPA 8082 (PCBs only) | |
| 74874-20 | 02/19/13 | SE-SB-225 (2-4') | EPA 8082 (PCBs only) | |

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## Surrogate Compound Limits

| Matrix: | Aqueous | Solid | |
|---|---|---|---|
| Units: | % Recovery | % Recovery | Method |
| **Volatile Organic Compounds - Drinking Water** | | | |
| 1,4-Difluorobenzene | 70-130 | | EPA 524.2 |
| Bromofluorobenzene | 70-130 | | |
| 1,2-Dichlorobenzene-d4 | 70-130 | | |
| **Volatile Organic Compounds** | | | |
| 1,2-Dichloroethane-d4 | 70-120 | 70-120 | EPA 624/8260B |
| Toluene-d8 | 85-120 | 85-120 | |
| Bromofluorobenzene | 75-120 | 75-120 | |
| **Semi-Volatile Organic Compounds** | | | |
| 2-Fluorophenol | 20-110 | 35-105 | EPA 625/8270C |
| d5-Phenol | 15-110 | 40-100 | |
| d5-nitrobenzene | 40-110 | 35-100 | |
| 2-Fluorobiphenyl | 50-110 | 45-105 | |
| 2,4,6-Tribromophenol | 40-110 | 40-125 | |
| d14-p-terphenyl | 50-130 | 30-125 | |
| **PAH's by SIM** | | | |
| d5-nitrobenzene | 21-110 | 35-110 | EPA 8270C |
| 2-Fluorobiphenyl | 36-121 | 45-105 | |
| d14-p-terphenyl | 33-141 | 30-125 | |
| **Pesticides and PCBs** | | | |
| 2,4,5,6-Tetrachloro-m-xylene (TCX) | 46-122 | 40-130 | EPA 608/8082 |
| Decachlorobiphenyl (DCB) | 40-135 | 40-130 | |
| **Herbicides** | | | |
| Dichloroacetic acid (DCAA) | 30-150 | 30-150 | |
| **Gasoline Range Organics/TPH Gasoline** | | | |
| Trifluorotoluene TFT (FID) | 60-140 | 60-140 | MEDEP 4217/EPA 8015 |
| Bromofluorobenzene (BFB) (FID) | 60-140 | 60-140 | |
| Trifluorotoluene TFT (PID) | 60-140 | 60-140 | |
| Bromofluorobenzene (BFB) (PID) | 60-140 | 60-140 | |
| **Diesel Range Organics/TPH Diesel** | | | |
| m-terphenyl | 60-140 | 60-140 | MEDEP 4125/EPA 8015/CT ETPH |
| **Volatile Petroleum Hydrocarbons** | | | |
| 2,5-Dibromotoluene (PID) | 70-130 | 70-130 | MADEP VPH May 2004 Rev1.1 |
| 2,5-Dibromotoluene (FID) | 70-130 | 70-130 | |
| **Extracatable Petroleum Hydrocarbons** | | | |
| 1-chloro-octadecane (aliphatic) | 40-140 | 40-140 | MADEP EPH May 2004 Rev1.1 |
| o-Terphenyl (aromatic) | 40-140 | 40-140 | |
| 2-Fluorobiphenyl (Fractionation) | 40-140 | 40-140 | |
| 2-Bromonaphthalene (fractionation) | 40-140 | 40-140 | |

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# PCB
# DATA SUMMARIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCB.doc

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195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74874-1 |
| **Matrix:** | Solid |
| **Percent Solid:** | 73 |
| **Dilution Factor:** | 1.4 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/26/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-221 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 46 | U |
| PCB-1221 | 46 | U |
| PCB-1232 | 46 | U |
| PCB-1242 | 46 | U |
| PCB-1248 | 46 | U |
| PCB-1254 | 46 | U |
| PCB-1260 | 46 | **47** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 102 | % |
| Decachlorobiphenyl | 81 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG:
Sample: 74874-1,,A/C
Data File: M67433.D
Dilution Factor: 1.4

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 47 | 34 | 32.2 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

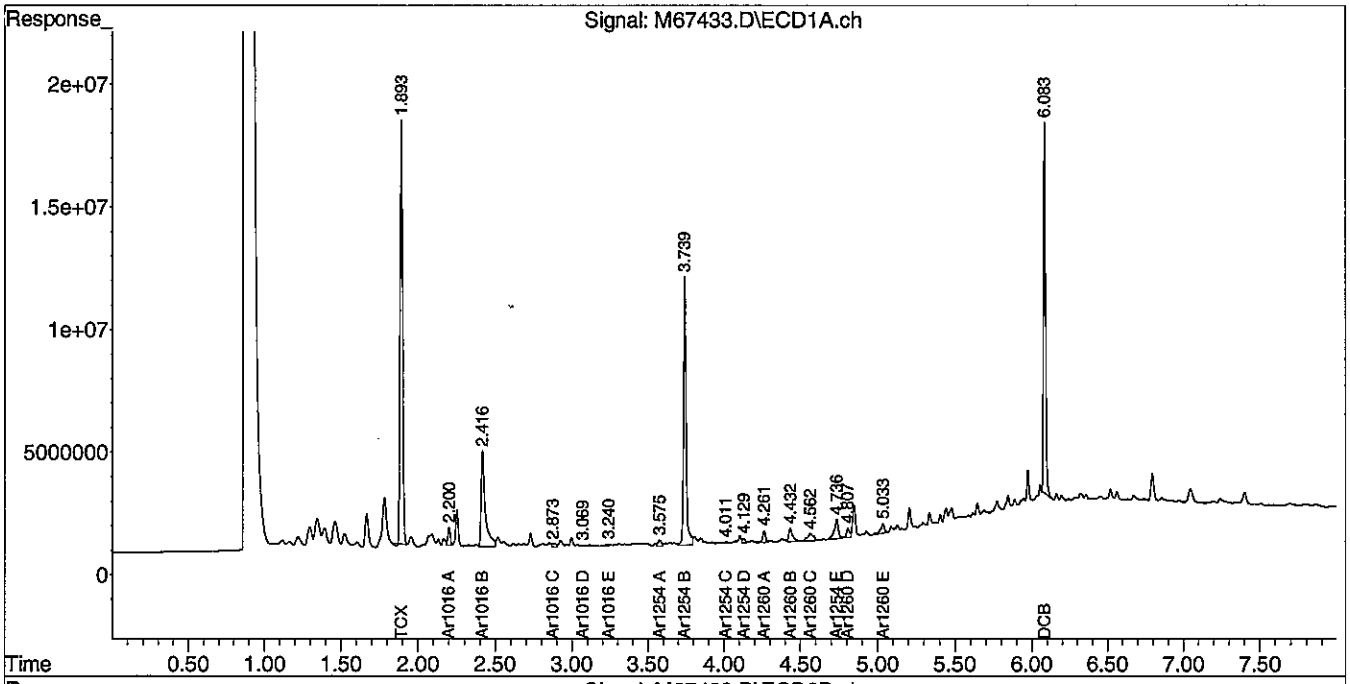
Comments: _____

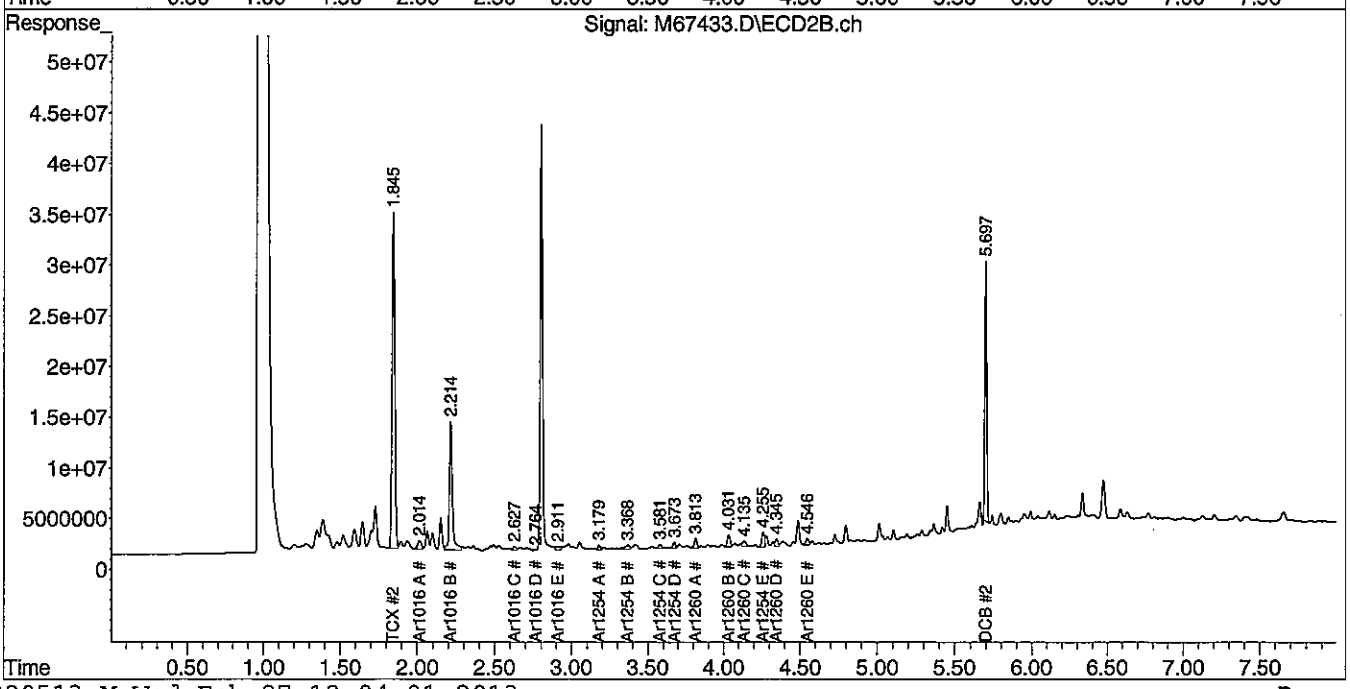
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67433.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2013 10:14 pm
Operator : JK
Sample : 74874-1,,A/C
Misc : SOIL
ALS Vial : 21 Sample Multiplier: 1

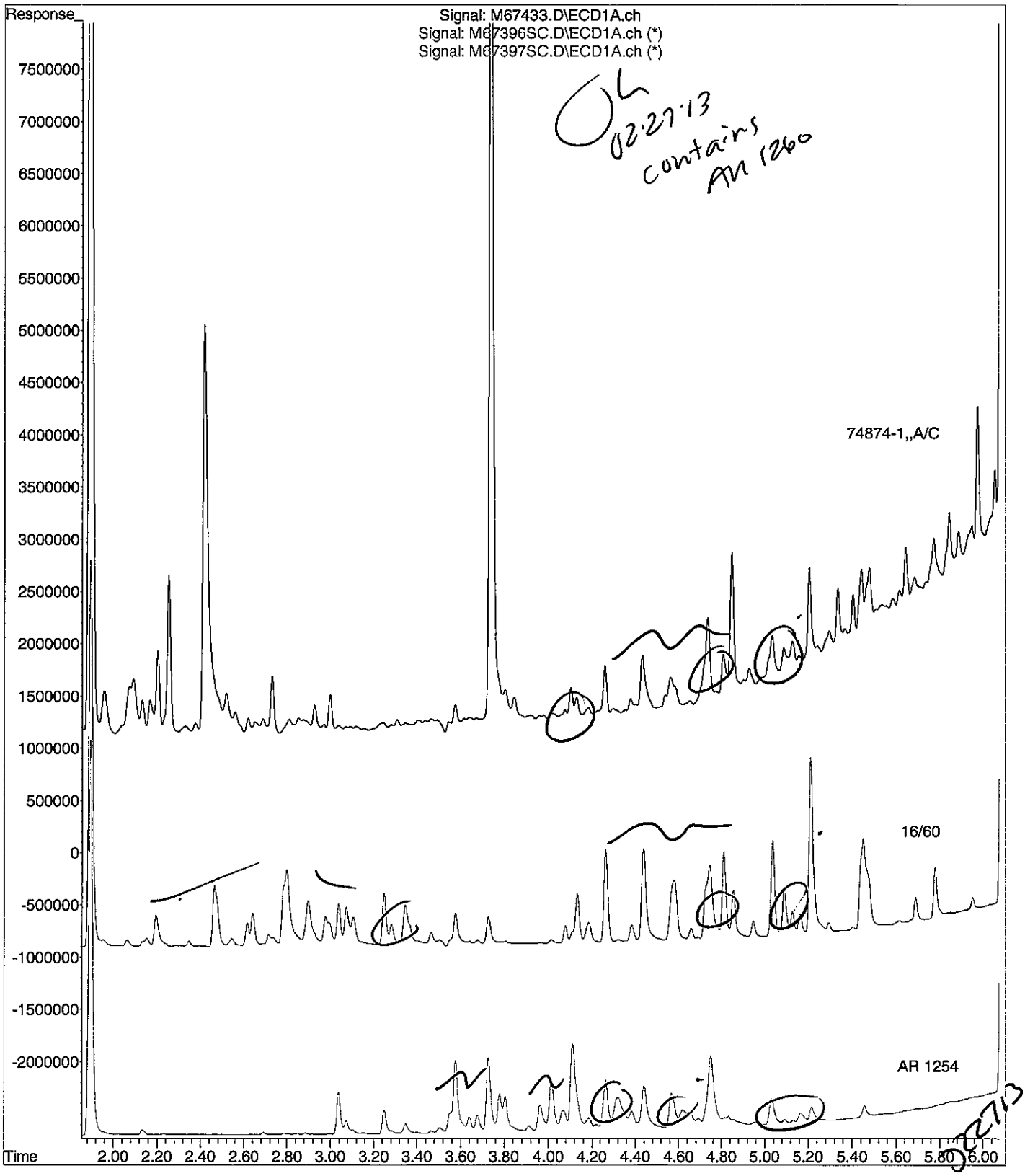
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 12:03:50 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\022613-M\M67433.D
Operator : JK
Acquired : 26 Feb 2013 10:14 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 74874-1,,A/C
Misc Info : SOIL
Vial Number: 21



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74874-2 |
| **Matrix:** | Solid |
| **Percent Solid:** | 88 |
| **Dilution Factor:** | 1.1 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/26/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-221 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 36 | U |
| PCB-1221 | 36 | U |
| PCB-1232 | 36 | U |
| PCB-1242 | 36 | U |
| PCB-1248 | 36 | U |
| PCB-1254 | 36 | U |
| PCB-1260 | 36 | **308** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 102 | % |
| Decachlorobiphenyl | 71 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74874
Sample: 74874-2,,A/C
Data File: M67434.D
Dilution Factor: 1.1

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 308 | 268 | 13.9 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

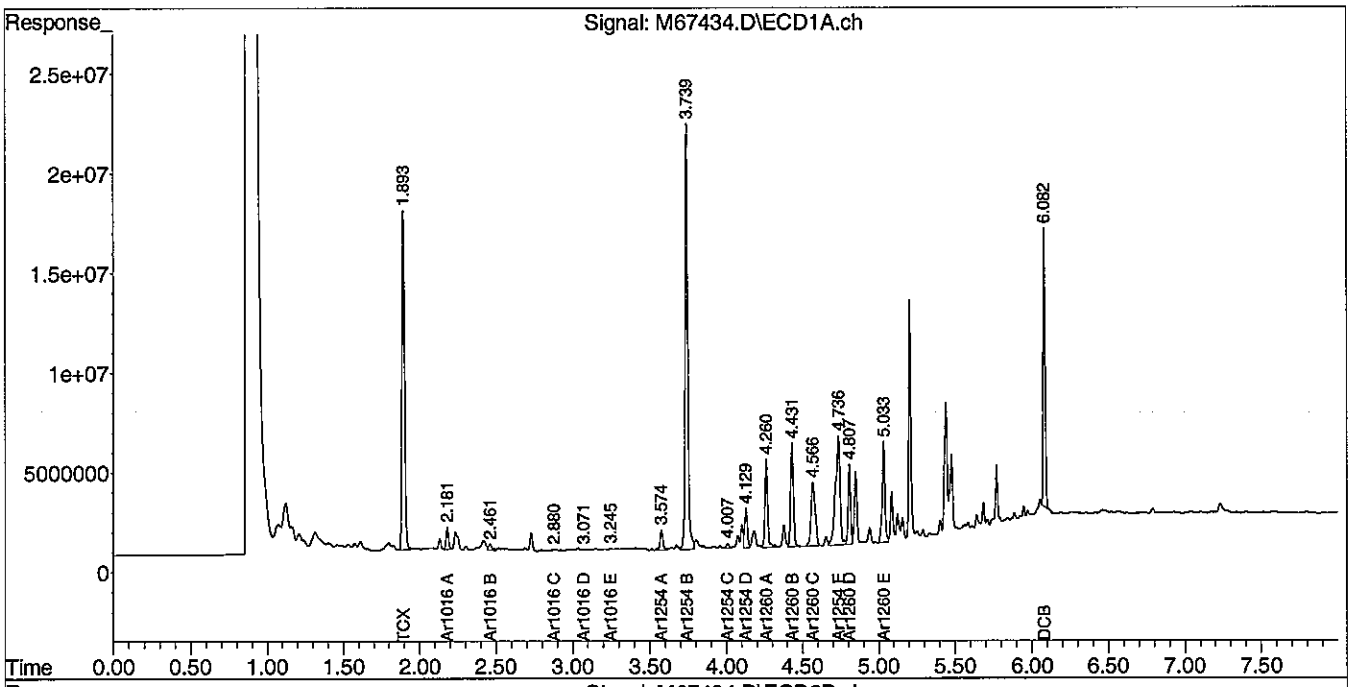
Comments: _____

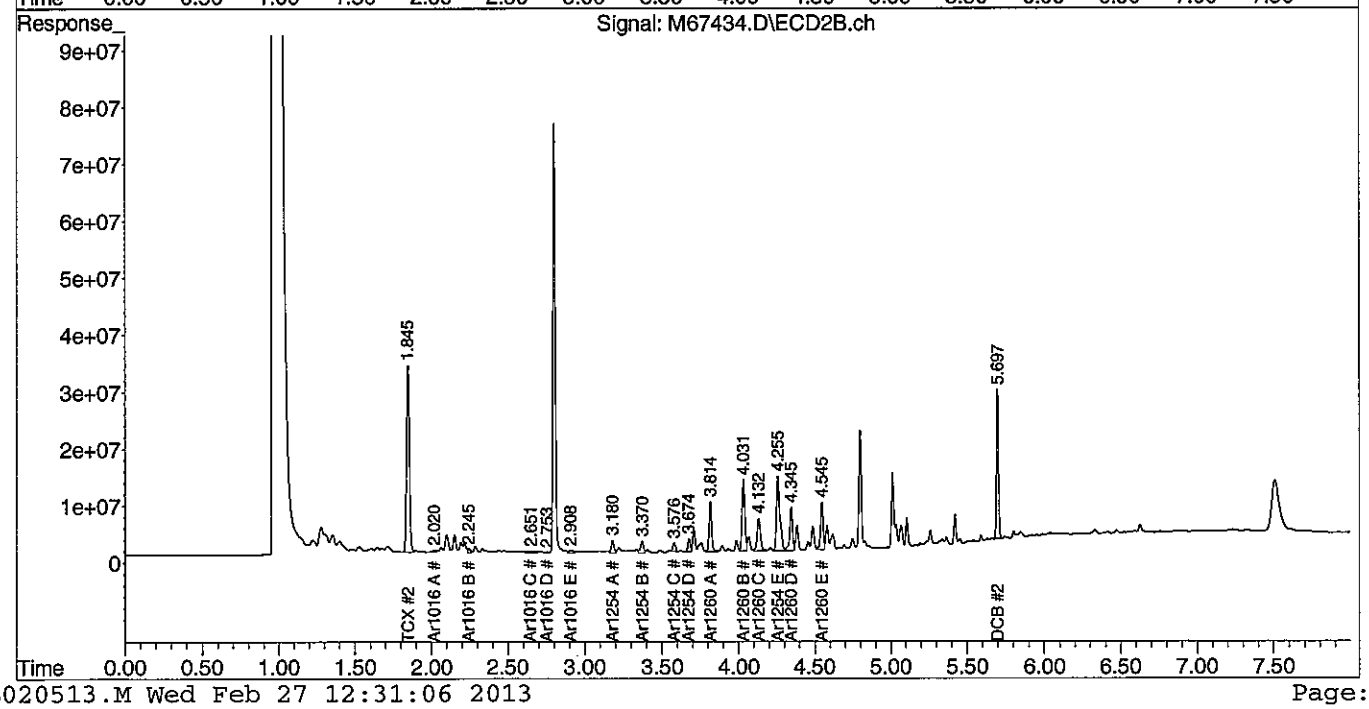
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67434.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2013 10:24 pm
Operator : JK
Sample : 74874-2,,A/C
Misc : SOIL
ALS Vial : 22 Sample Multiplier: 1

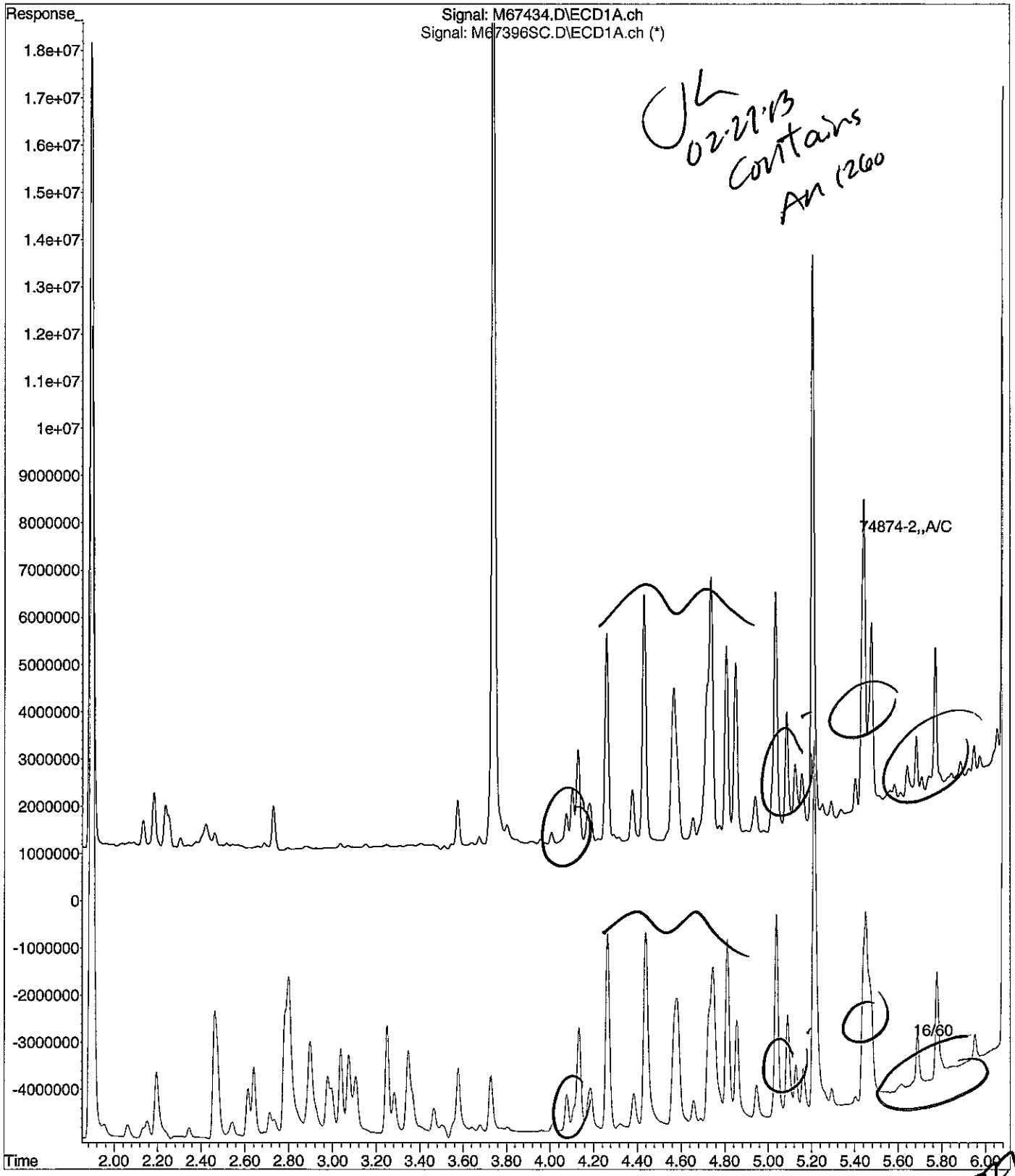
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 11:47:30 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\022613-M\M67434.D
Operator : JK
Acquired : 26 Feb 2013 10:24 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 74874-2,,A/C
Misc Info : SOIL
Vial Number: 22



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74874-3 |
| **Matrix:** | Solid |
| **Percent Solid:** | 85 |
| **Dilution Factor:** | 1.2 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/26/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-221 (4-5') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 40 | U |
| PCB-1221 | 40 | U |
| PCB-1232 | 40 | U |
| PCB-1242 | 40 | U |
| PCB-1248 | 40 | U |
| PCB-1254 | 40 | U |
| PCB-1260 | 40 | **68** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 106 | % |
| Decachlorobiphenyl | 71 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74874
Sample: 74874-3,,A/C
Data File: M67437.D
Dilution Factor: 1.2

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 64 | 68 | 6.7 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

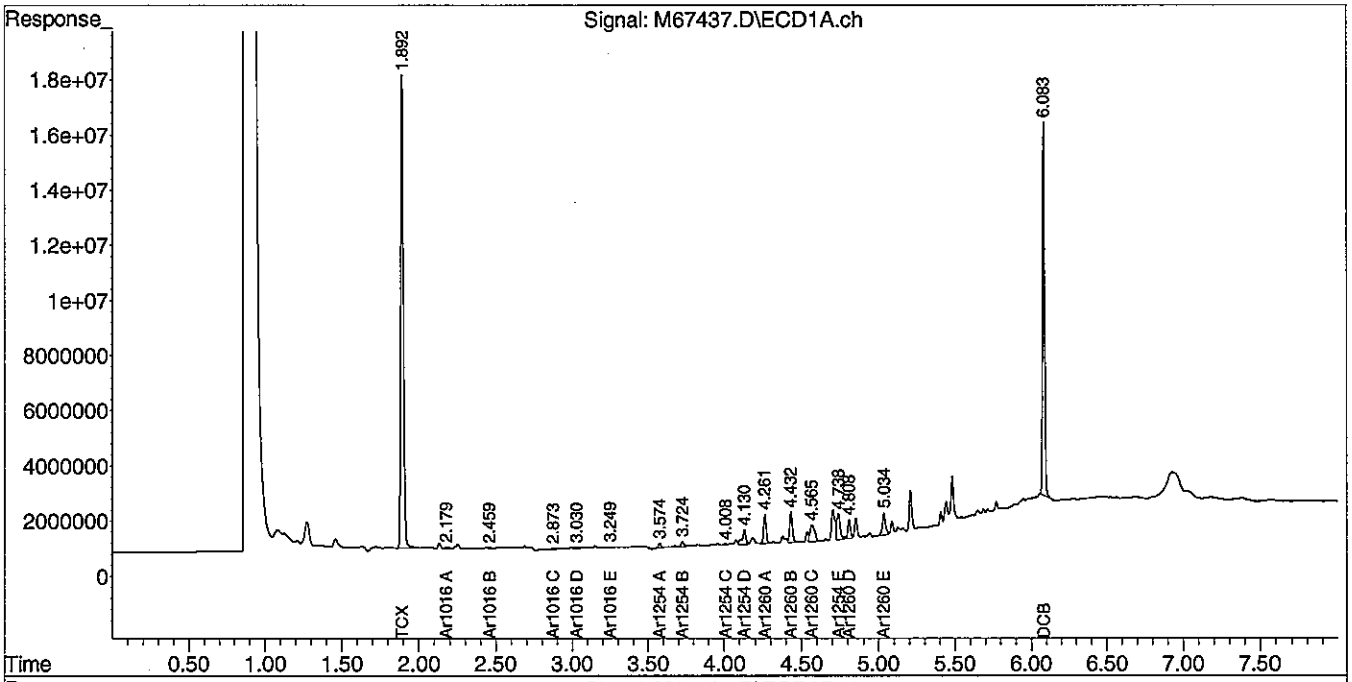
Comments: _____

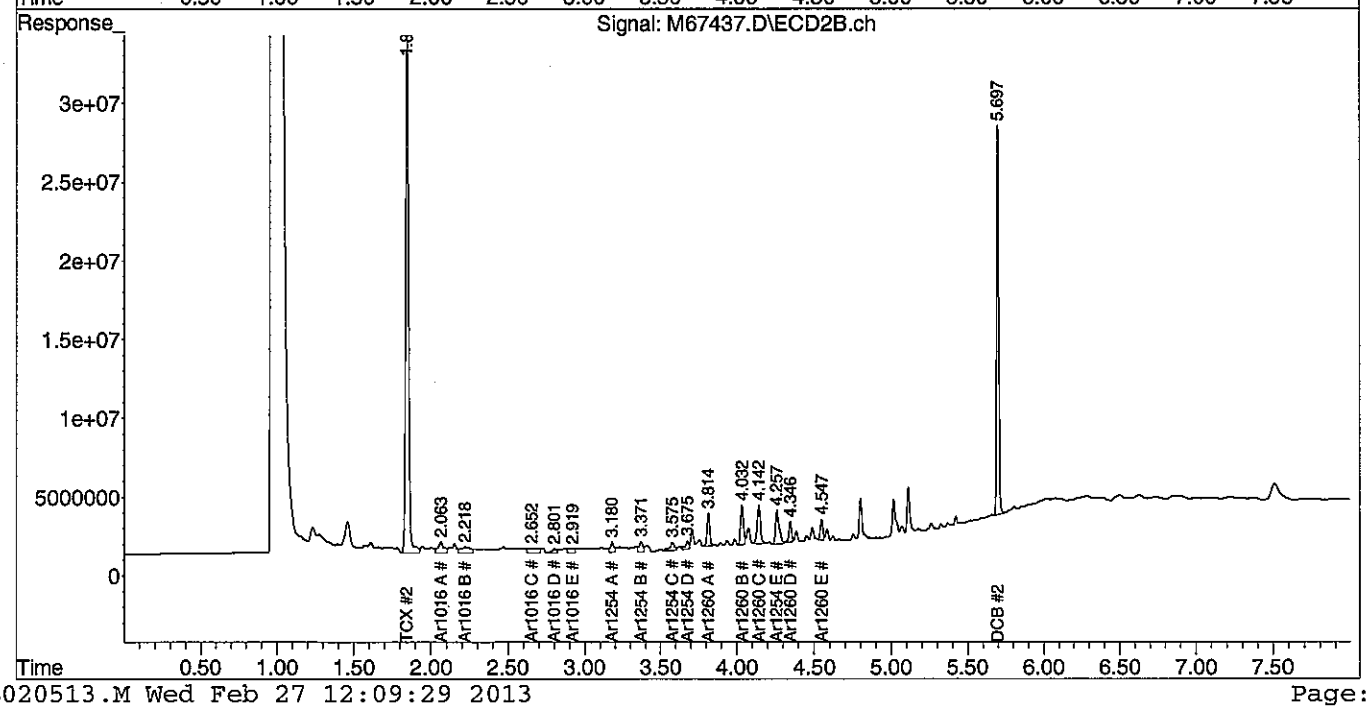
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67437.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2013 10:54 pm
Operator : JK
Sample : 74874-3,,A/C
Misc : SOIL
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 12:09:17 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
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640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74874-4 |
| **Matrix:** | Solid |
| **Percent Solid:** | 73 |
| **Dilution Factor:** | 1.3 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/26/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-220 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 43 | U |
| PCB-1221 | 43 | U |
| PCB-1232 | 43 | U |
| PCB-1242 | 43 | U |
| PCB-1248 | 43 | U |
| PCB-1254 | 43 | U |
| PCB-1260 | 43 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 98 | % |
| Decachlorobiphenyl | 105 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

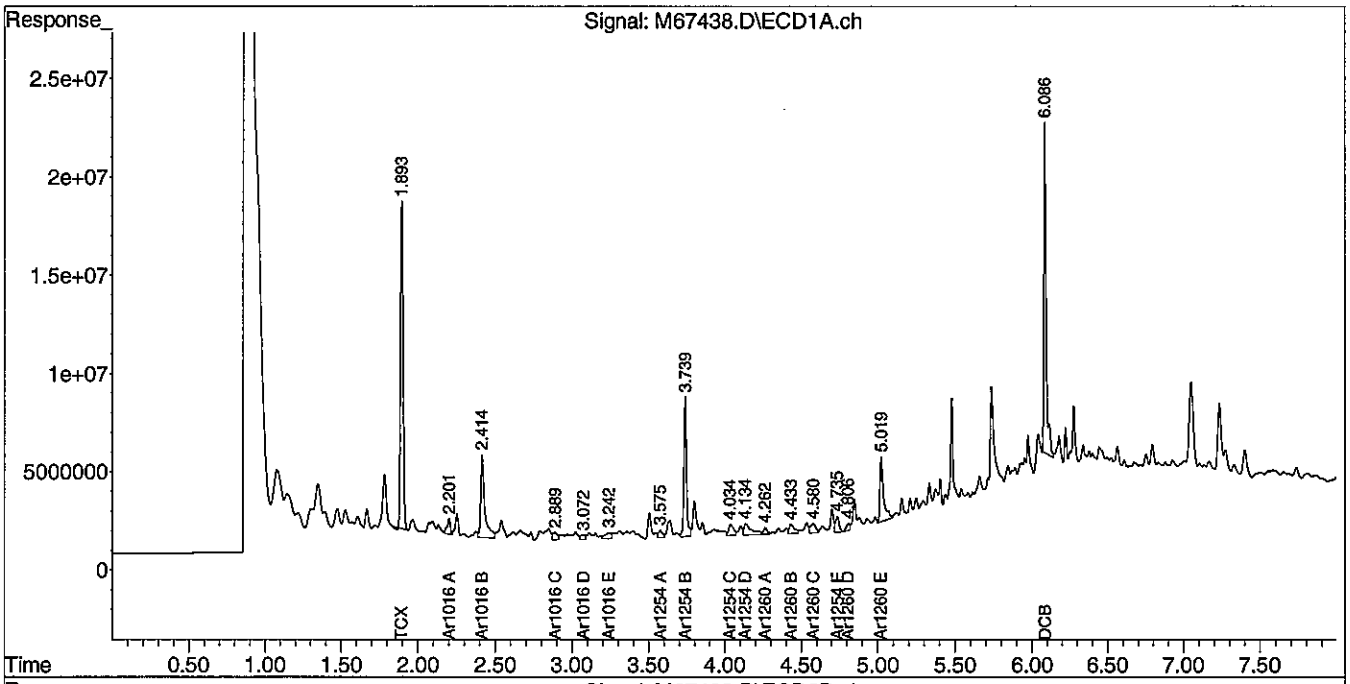
PCB Report

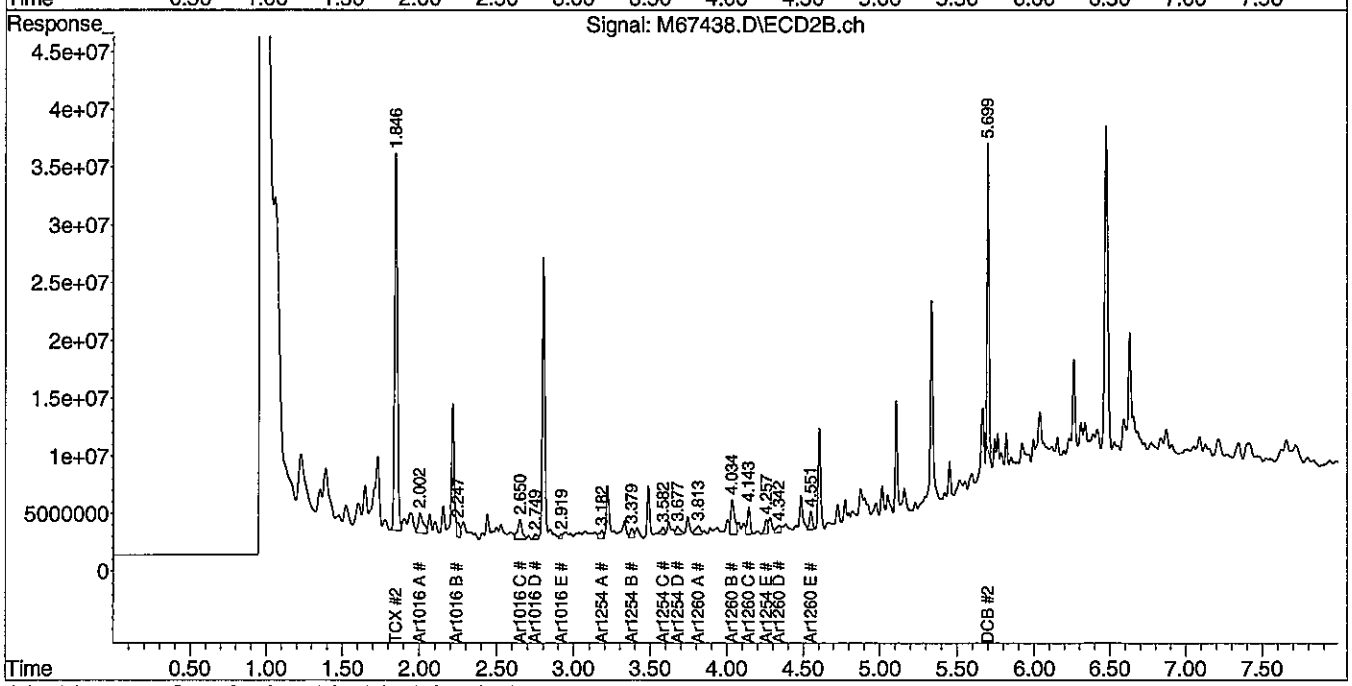
Authorized signature

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67438.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2013 11:04 pm
Operator : JK
Sample : 74874-4,,A/C
Misc : SOIL
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 11:47:38 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

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800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74874-5 |
| **Matrix:** | Solid |
| **Percent Solid:** | 88 |
| **Dilution Factor:** | 1.0 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/26/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-220 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | **284** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 99 | % |
| Decachlorobiphenyl | 78 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74874
Sample: 74874-5,,A/C
Data File: M67439.D
Dilution Factor: 1.0

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 284 | 248 | 13.5 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

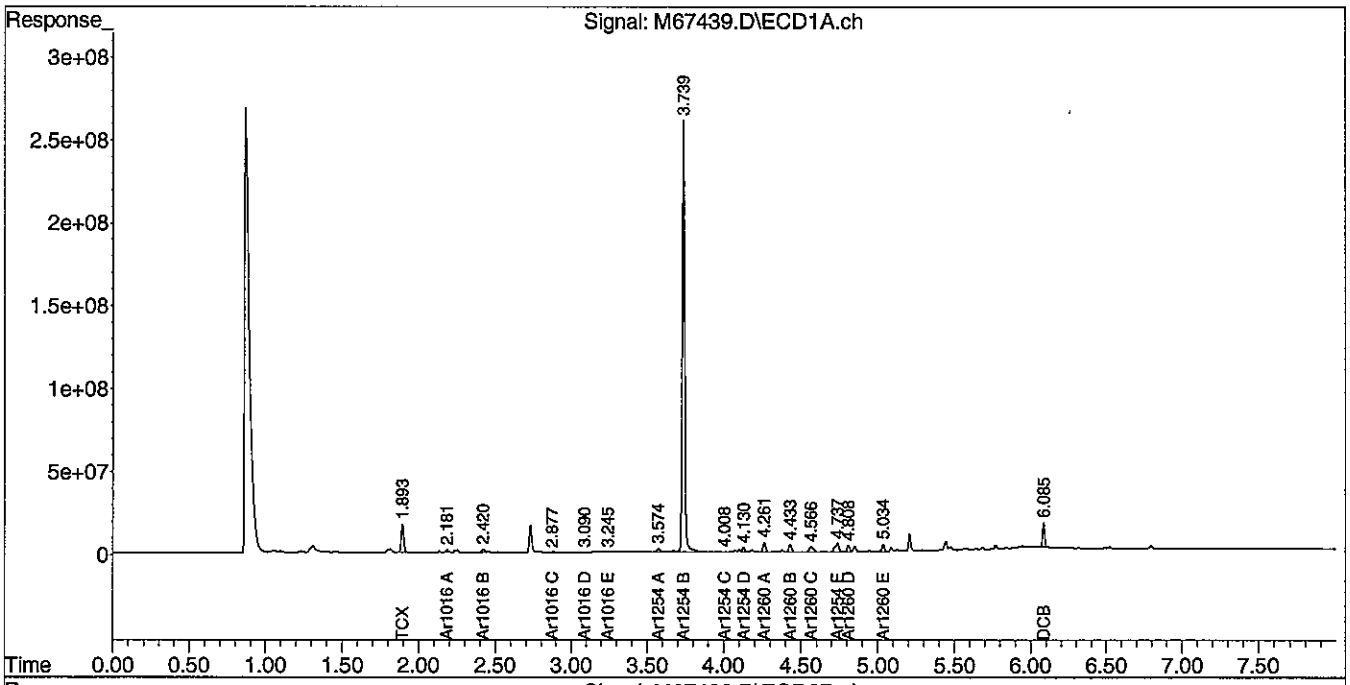
Comments: _____

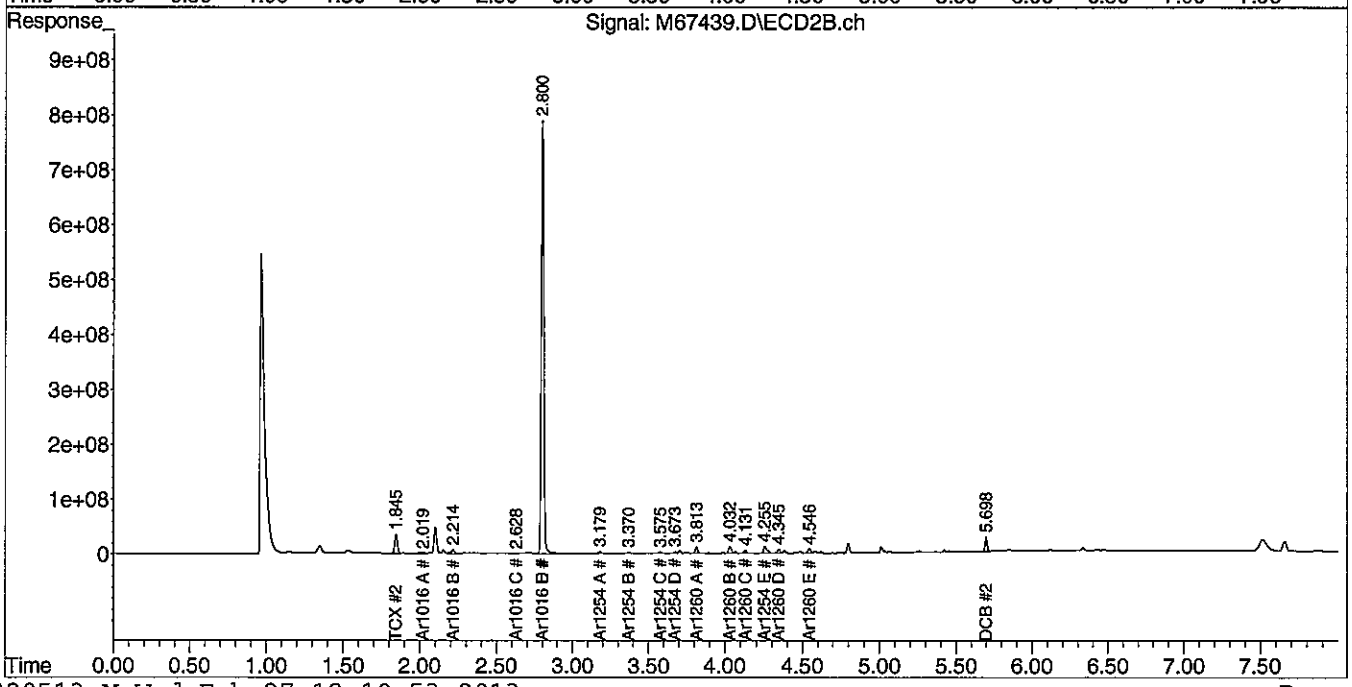
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67439.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2013 11:15 pm
Operator : JK
Sample : 74874-5,,A/C
Misc : SOIL
ALS Vial : 27 Sample Multiplier: 1

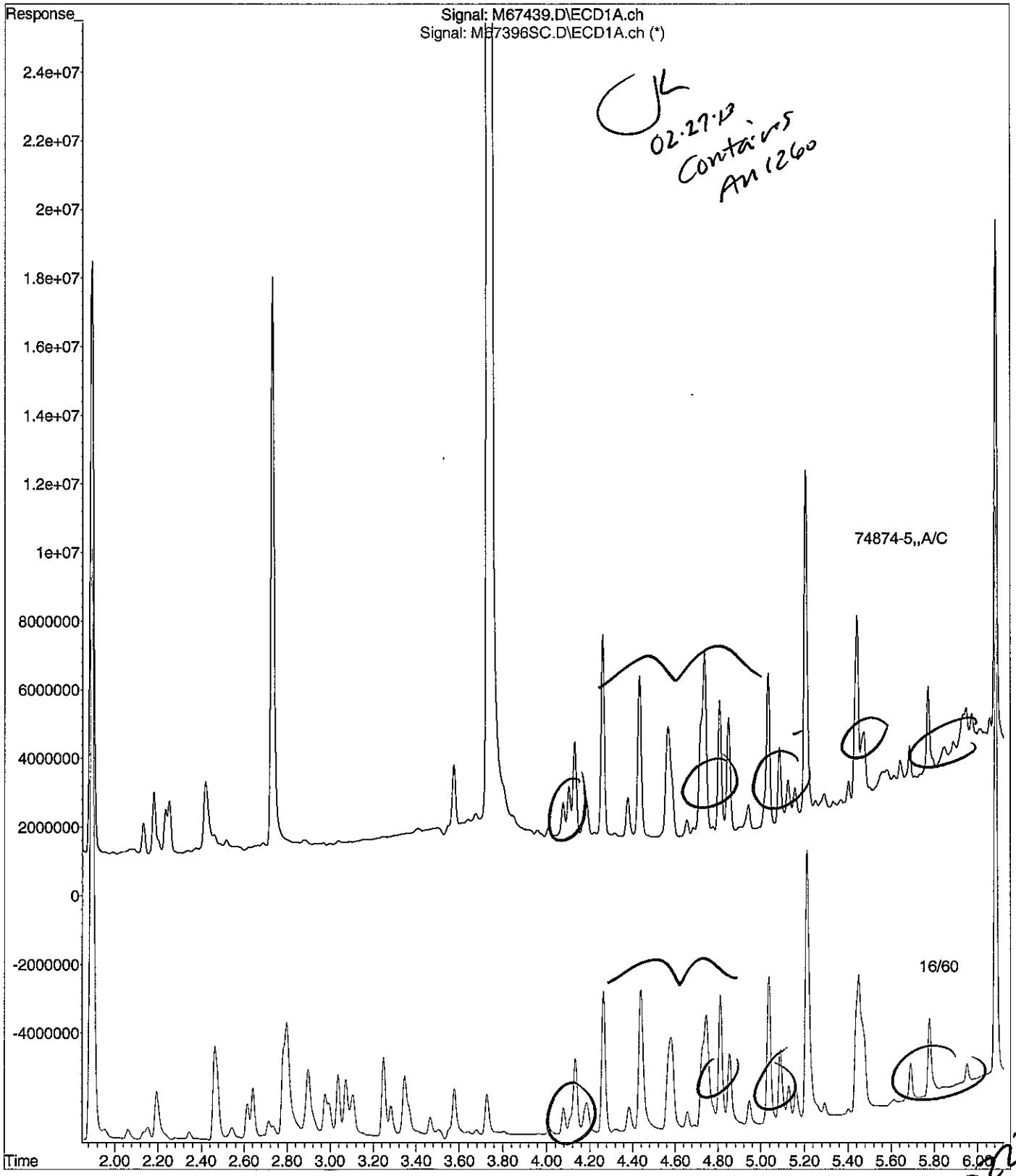
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 11:47:40 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\022613-M\M67439.D
Operator : JK
Acquired : 26 Feb 2013 11:15 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 74874-5,,A/C
Misc Info : SOIL
Vial Number: 27



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74874-6 |
| **Matrix:** | Solid |
| **Percent Solid:** | 90 |
| **Dilution Factor:** | 5 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/26/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-220 (4-6') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 165 | U |
| PCB-1221 | 165 | U |
| PCB-1232 | 165 | U |
| PCB-1242 | 165 | U |
| PCB-1248 | 165 | U |
| PCB-1254 | 165 | U |
| PCB-1260 | 165 | **2610** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 87 | % |
| Decachlorobiphenyl | 71 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74874
Sample: 74874-6,1:5,,A/C
Data File: M67440.D
Dilution Factor: 5.4

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 2611 | 2183 | 17.9 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

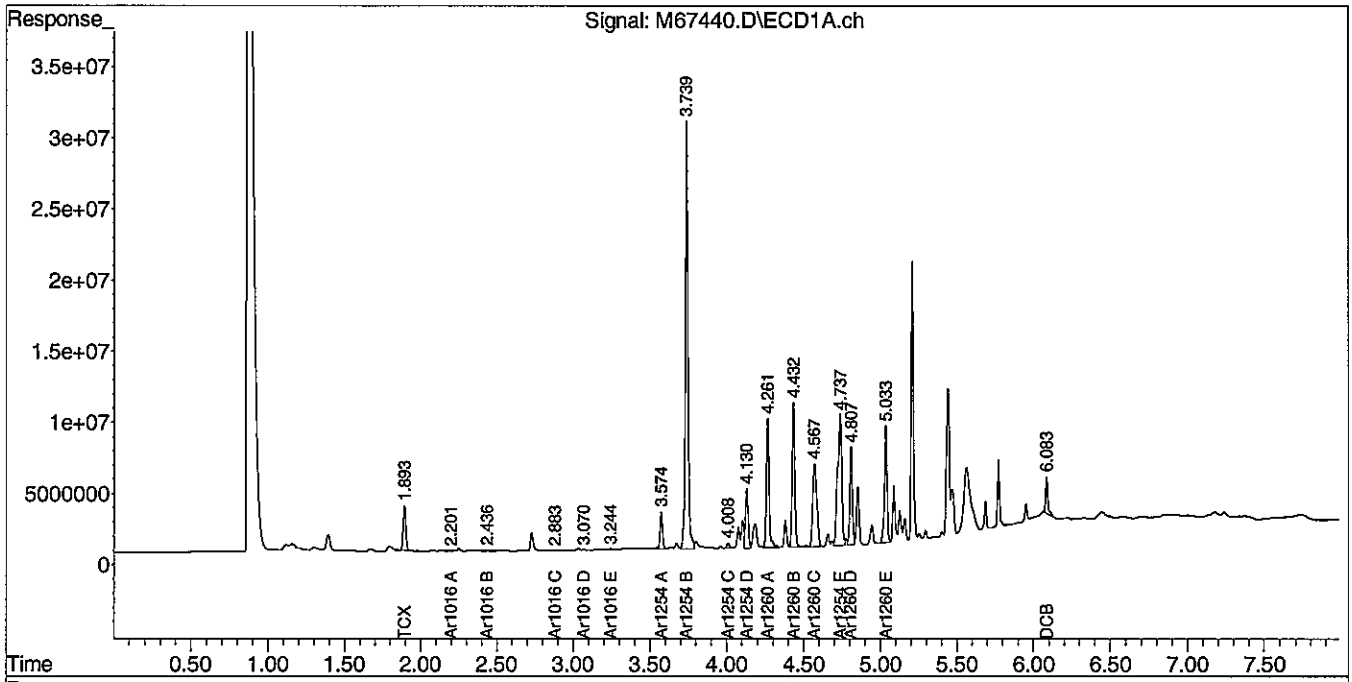
Comments: _____

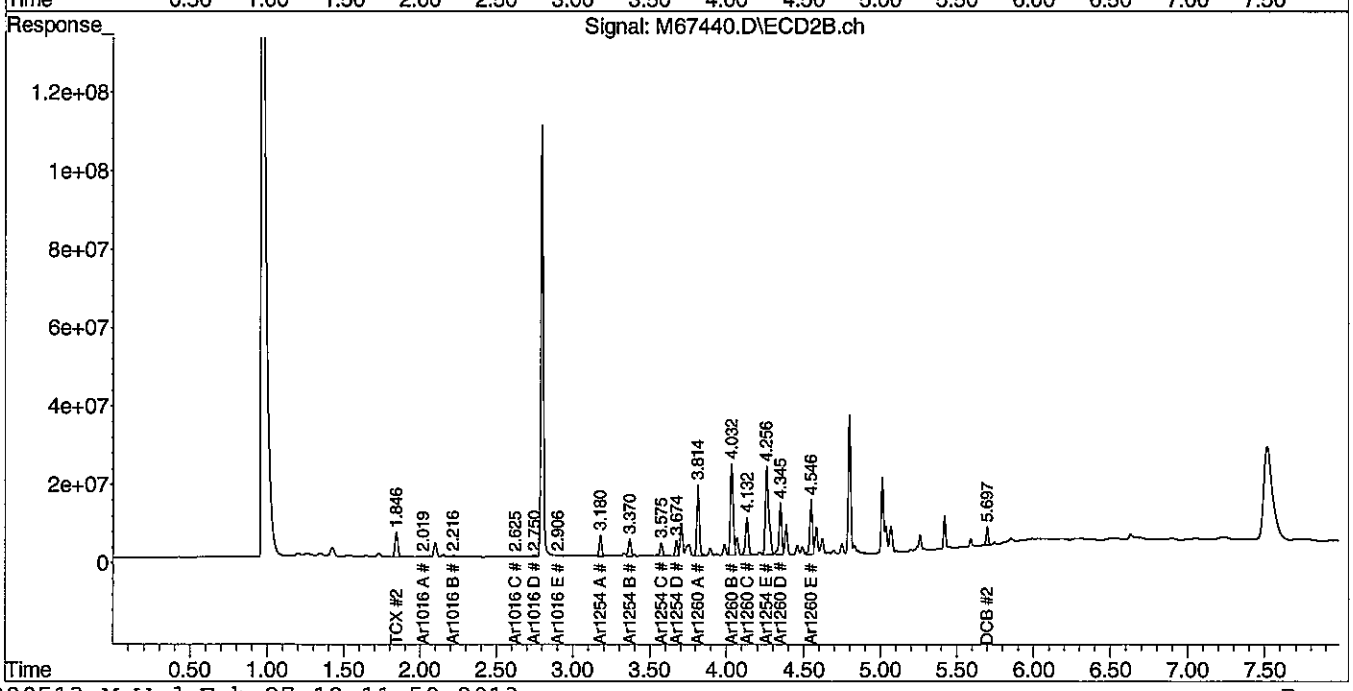
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67440.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2013 11:25 pm
Operator : JK
Sample : 74874-6,1:5,,A/C
Misc : SOIL
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 11:47:42 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74874-7 |
| **Matrix:** | Solid |
| **Percent Solid:** | 92 |
| **Dilution Factor:** | 22 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/26/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-220 (6-8') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 726 | U |
| PCB-1221 | 726 | U |
| PCB-1232 | 726 | U |
| PCB-1242 | 726 | U |
| PCB-1248 | 726 | U |
| PCB-1254 | 726 | U |
| PCB-1260 | 726 | **13900** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74874
Sample: 74874-7,1:20,,A/C
Data File: M67441.D
Dilution Factor: 21.7

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 13895 | 11507 | 18.8 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

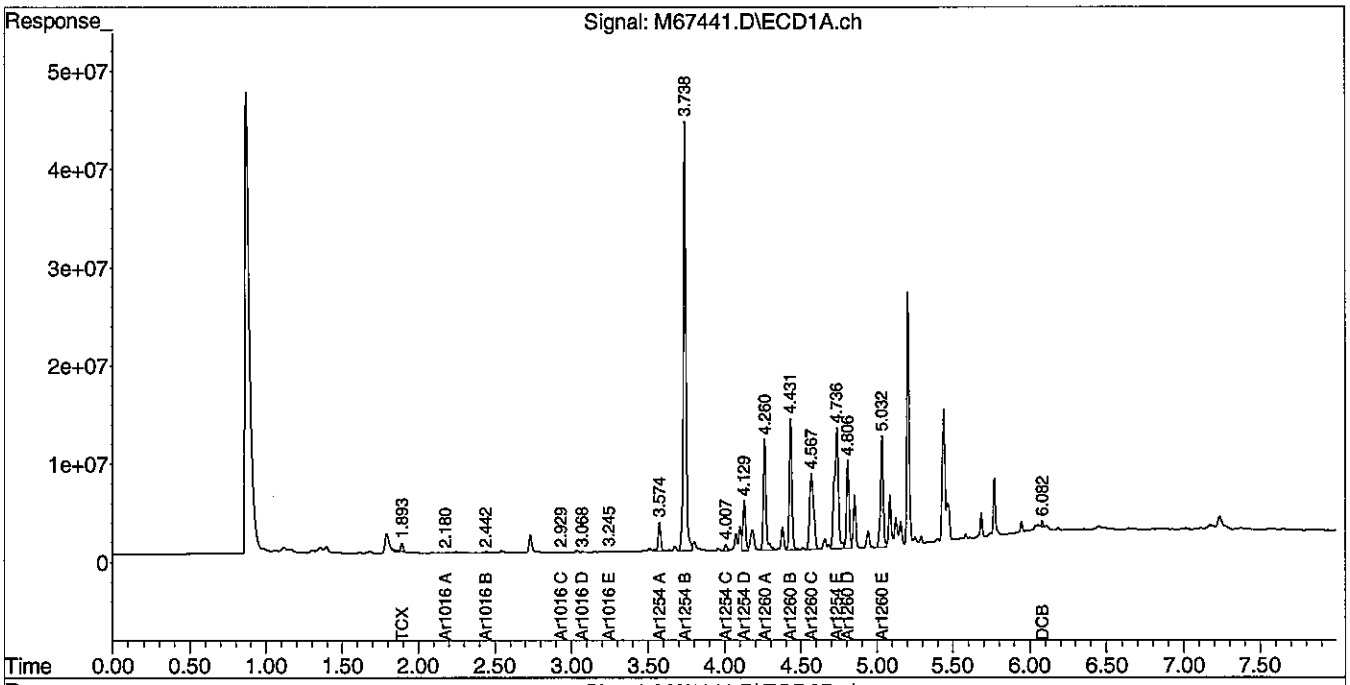
Comments: _____

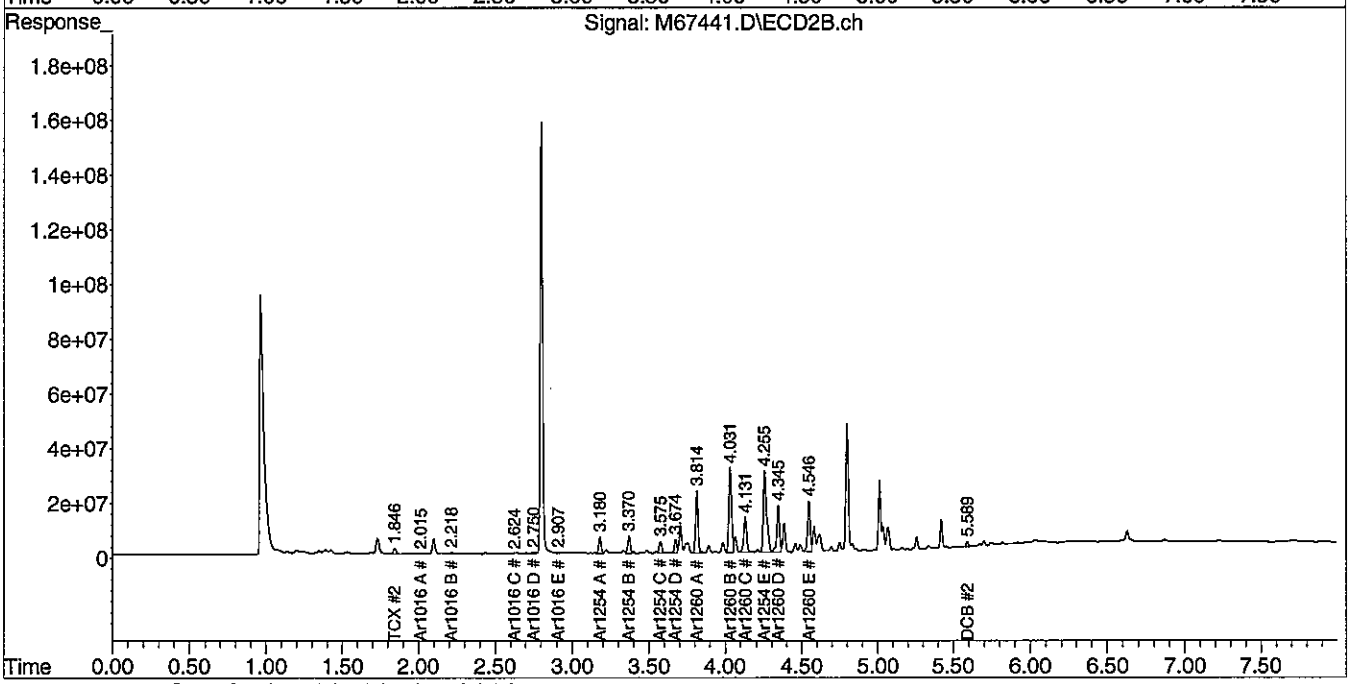
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67441.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2013 11:35 pm
Operator : JK
Sample : 74874-7,1:20,,A/C
Misc : SOIL
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 11:47:44 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74874-8 |
| **Matrix:** | Solid |
| **Percent Solid:** | 86 |
| **Dilution Factor:** | 27 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/26/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-220 (8-10') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 891 | U |
| PCB-1221 | 891 | U |
| PCB-1232 | 891 | U |
| PCB-1242 | 891 | U |
| PCB-1248 | 891 | U |
| PCB-1254 | 891 | U |
| PCB-1260 | 891 | **19800** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG:
Sample: 74874-8,1:25,,A/C
Data File: M67442.D
Dilution Factor: 27.0

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 19812 | 16914 | 15.8 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

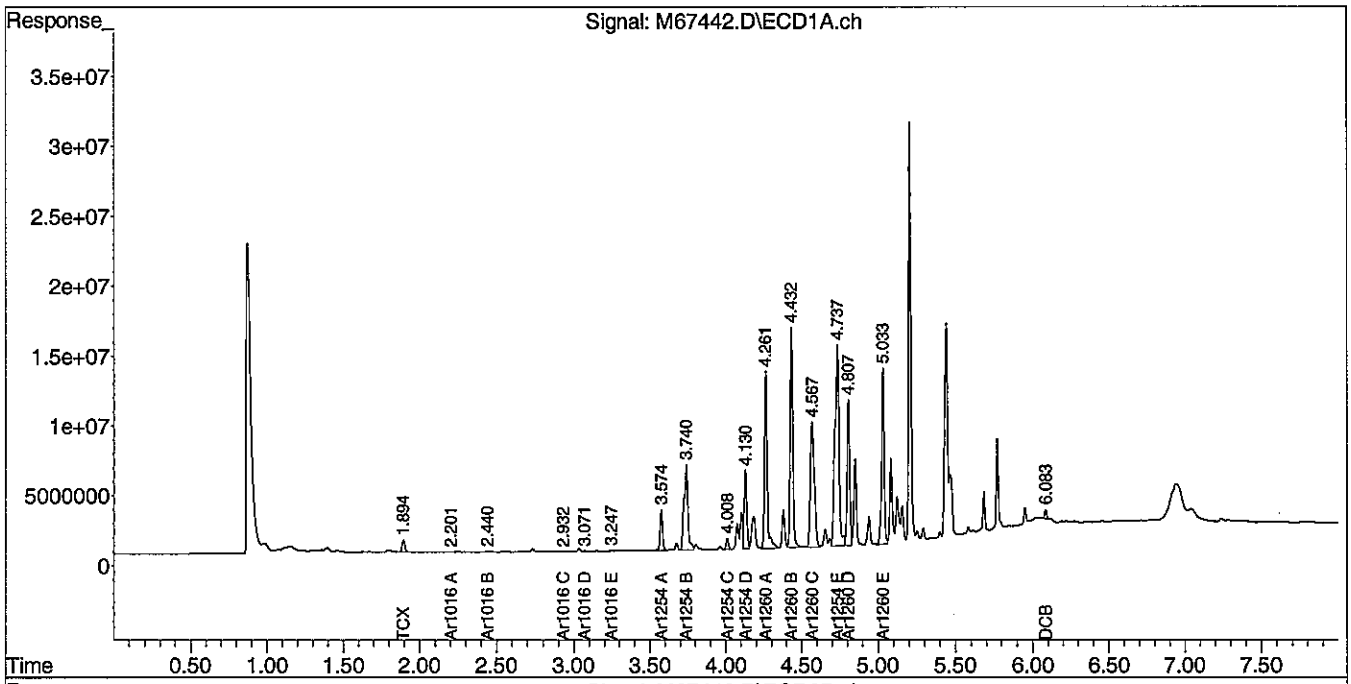
Comments: _____

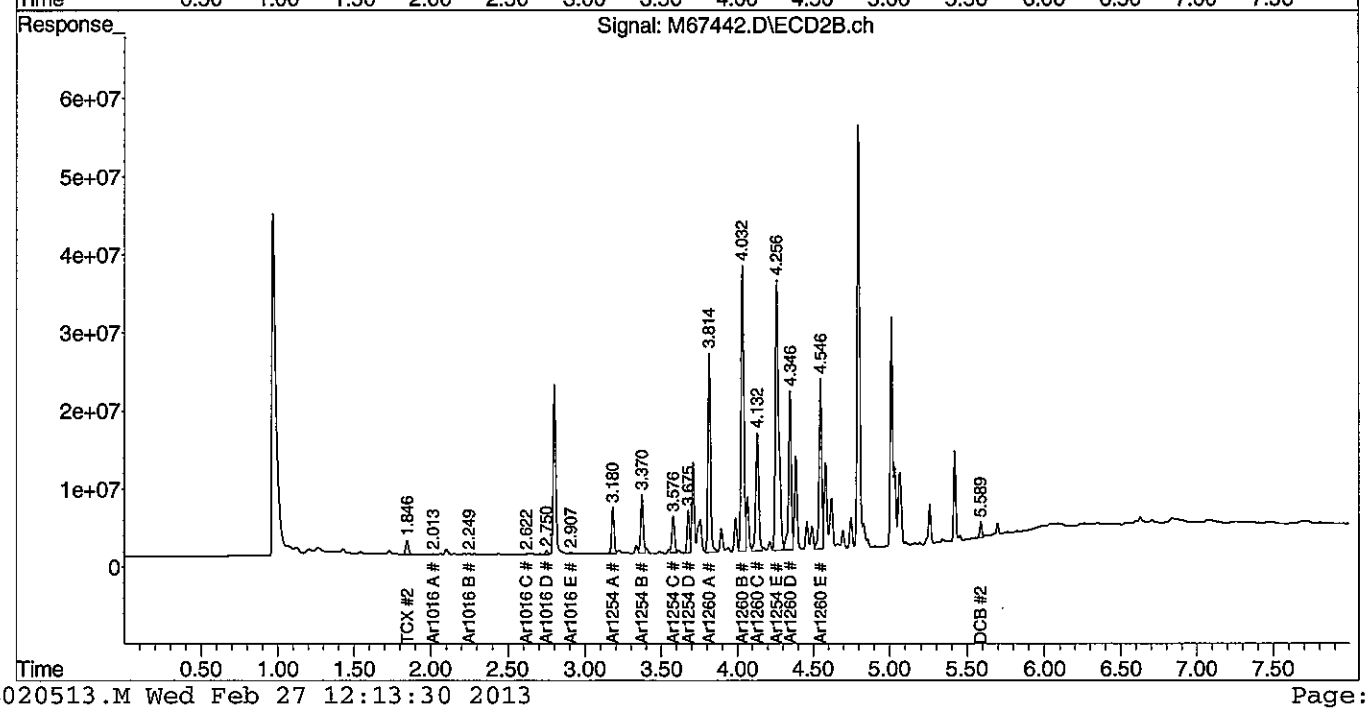
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67442.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2013 11:45 pm
Operator : JK
Sample : 74874-8,1:25,,A/C
Misc : SOIL
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 11:47:46 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74874-9 |
| **Matrix:** | Solid |
| **Percent Solid:** | 82 |
| **Dilution Factor:** | 609 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/26/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-220 (10-11') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 20100 | U |
| PCB-1221 | 20100 | U |
| PCB-1232 | 20100 | U |
| PCB-1242 | 20100 | U |
| PCB-1248 | 20100 | U |
| PCB-1254 | 20100 | U |
| PCB-1260 | 20100 | **489000** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74874
Sample: 74874-9,1:500,,A/C
Data File: M67443.D
Dilution Factor: 609.0

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 489243 | 420718 | 15.1 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

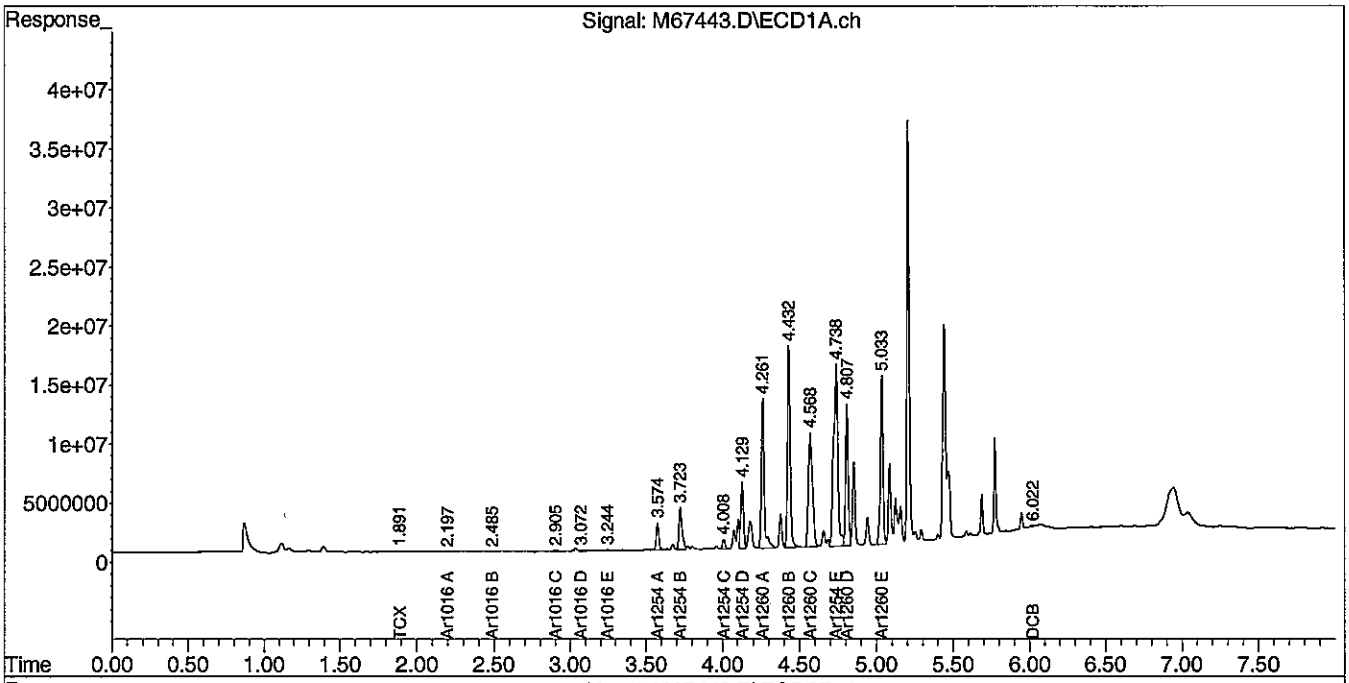
Comments: _____

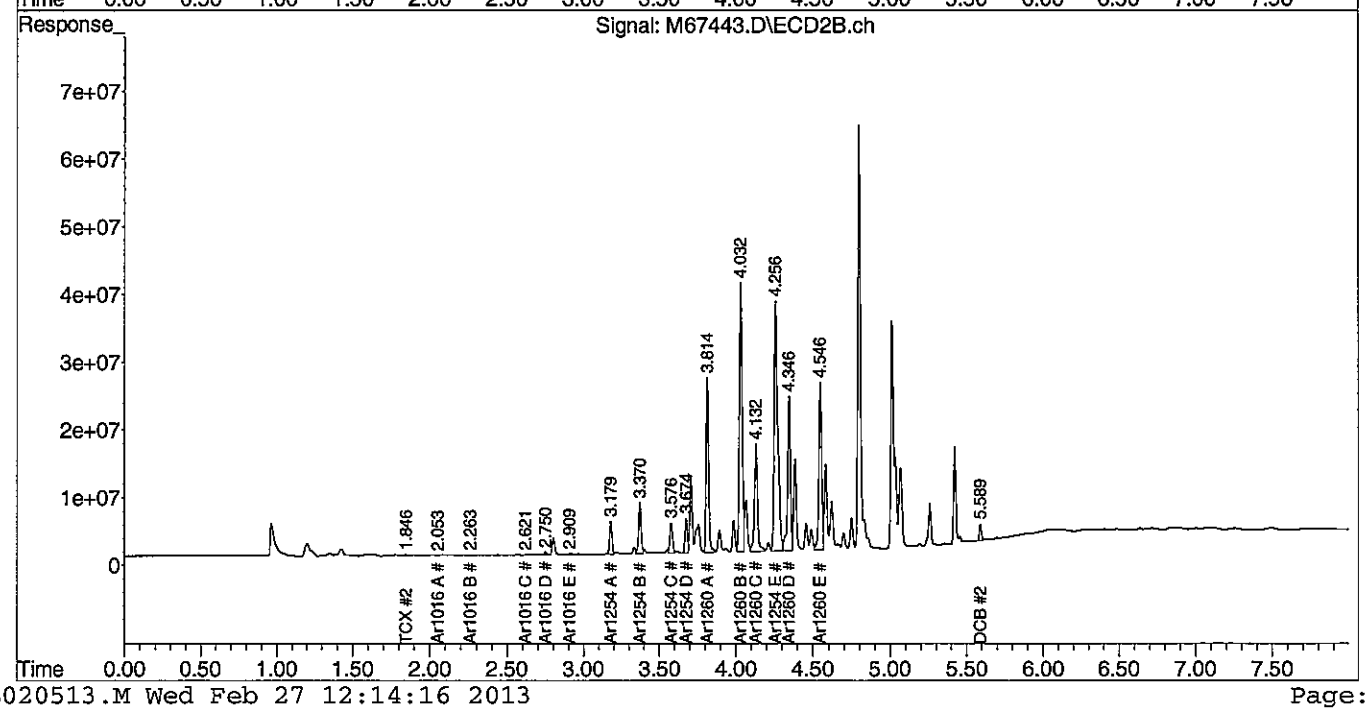
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67443.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2013 11:55 pm
Operator : JK
Sample : 74874-9,1:500,,A/C
Misc : SOIL
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 11:47:48 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 26, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74874-11 |
| **Matrix:** | Solid |
| **Percent Solid:** | 92 |
| **Dilution Factor:** | 5 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/23/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-219 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 165 | U |
| PCB-1221 | 165 | U |
| PCB-1232 | 165 | U |
| PCB-1242 | 165 | U |
| PCB-1248 | 165 | U |
| PCB-1254 | 165 | U |
| PCB-1260 | 165 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 118 | % |
| Decachlorobiphenyl | 107 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* Quantitation limits increased due to the sample matrix affect.

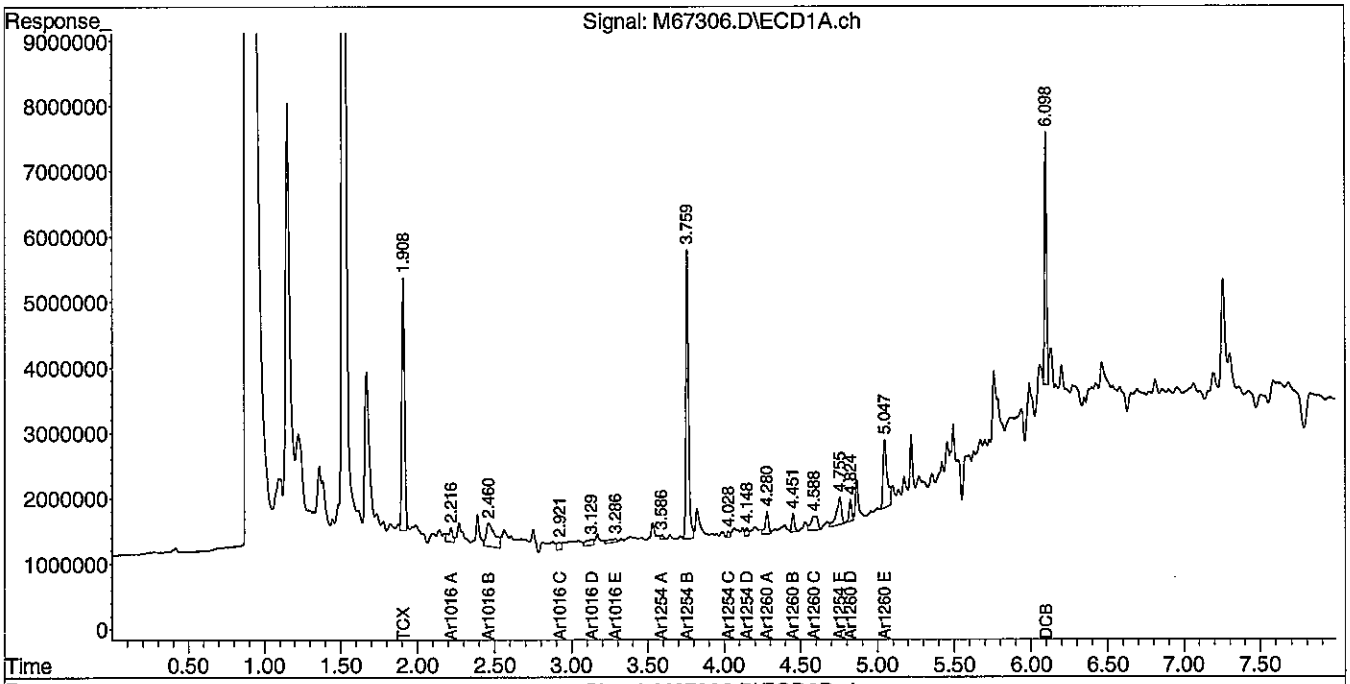
PCB Report

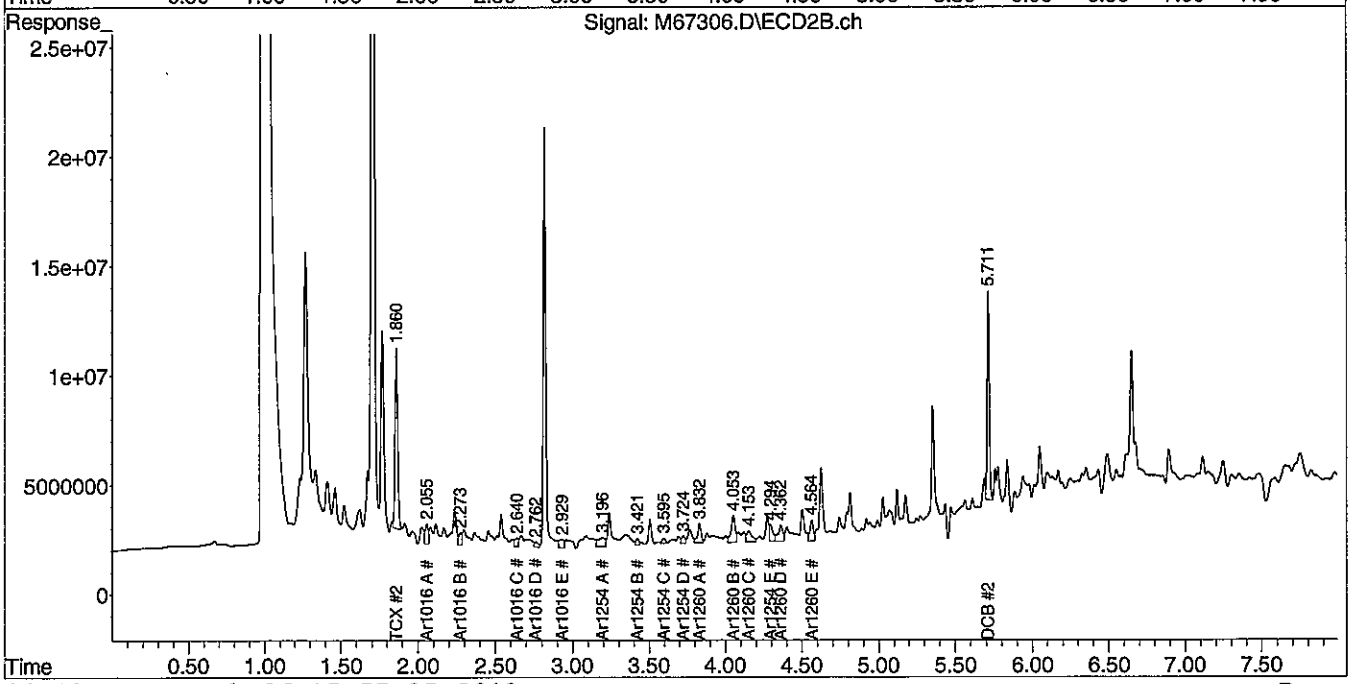
Authorized signature

Data Path : C:\msdchem\1\DATA\022213-M\
Data File : M67306.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Feb 2013 6:36 am
Operator : JK
Sample : 74874-11,1:5,,A/C
Misc : SOIL
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 26 15:57:17 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 22 09:21:30 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 26, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74874-12 |
| **Matrix:** | Solid |
| **Percent Solid:** | 92 |
| **Dilution Factor:** | 5 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/23/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-219 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 165 | U |
| PCB-1221 | 165 | U |
| PCB-1232 | 165 | U |
| PCB-1242 | 165 | U |
| PCB-1248 | 165 | U |
| PCB-1254 | 165 | U |
| PCB-1260 | 165 | **380** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 125 | % |
| Decachlorobiphenyl | 115 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74874
Sample: 74874-12,1:5,,A/C
Data File: M67307.D
Dilution Factor: 5.1

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 380 | 372 | 2.0 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

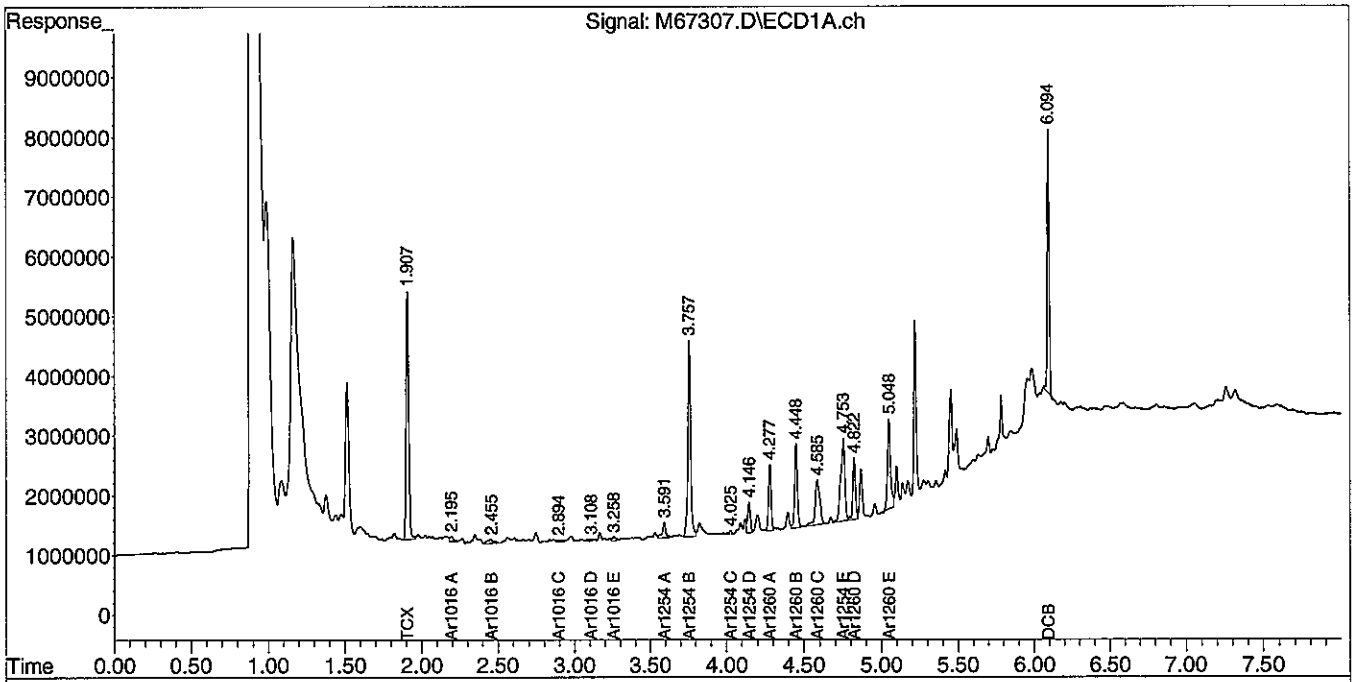
Comments: _____

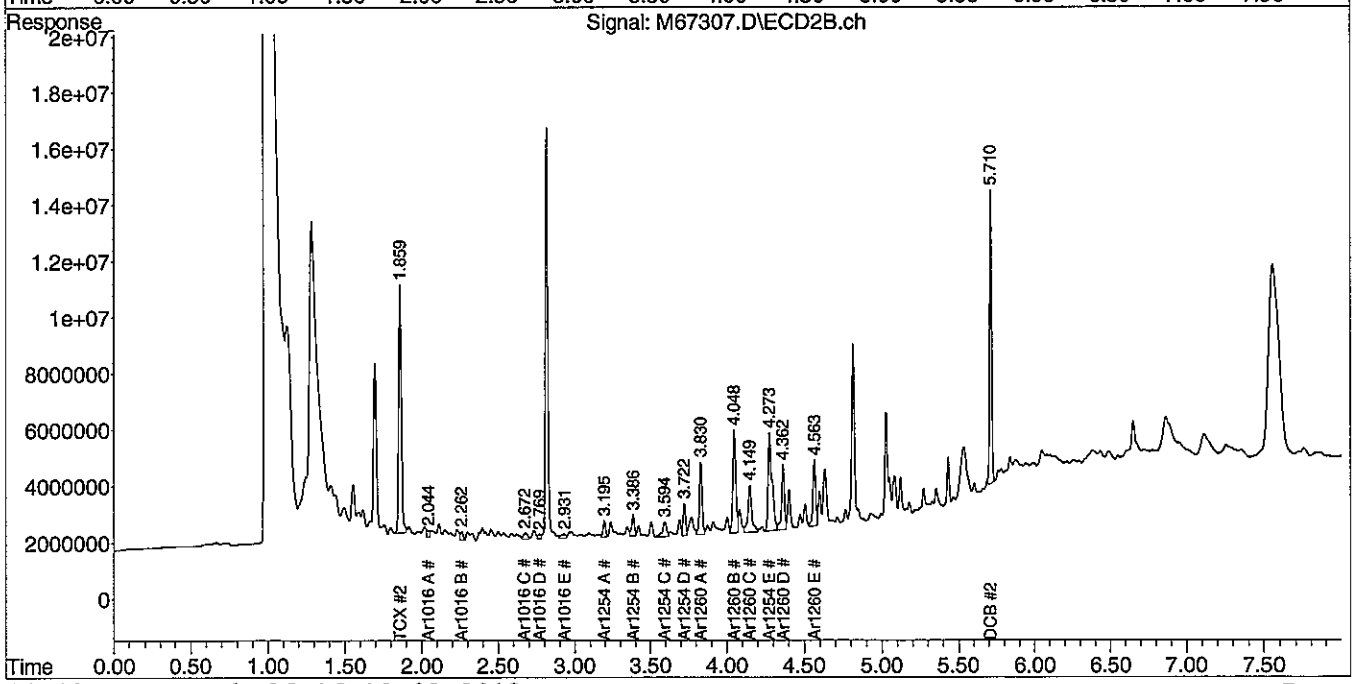
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022213-M\
Data File : M67307.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Feb 2013 6:47 am
Operator : JK
Sample : 74874-12,1:5,,A/C
Misc : SOIL
ALS Vial : 43 Sample Multiplier: 1

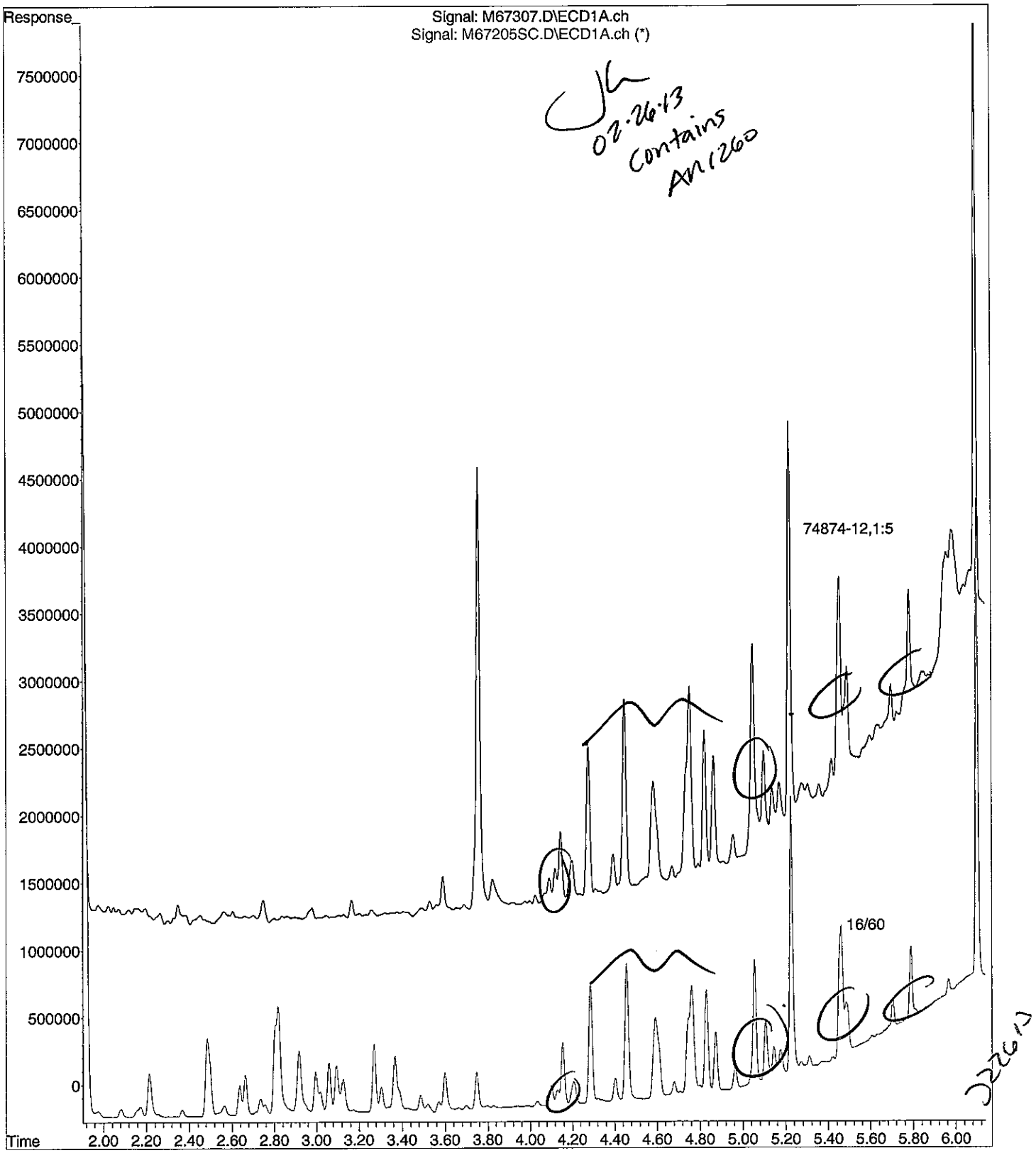
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 26 16:09:56 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 22 09:21:30 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\022213-M\M67307.D
Operator : JK
Acquired : 23 Feb 2013 6:47 am using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 74874-12,1:5,,A/C
Misc Info : SOIL
Vial Number: 43



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74874-13 |
| **Matrix:** | Solid |
| **Percent Solid:** | 66 |
| **Dilution Factor:** | 15 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-219 (4-6') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 495 | U |
| PCB-1221 | 495 | U |
| PCB-1232 | 495 | U |
| PCB-1242 | 495 | U |
| PCB-1248 | 495 | U |
| PCB-1254 | 495 | U |
| PCB-1260 | 495 | **11000** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 94 | % |
| Decachlorobiphenyl | 95 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74874
Sample: 74874-13,1:10,,A/C
Data File: M67444.D
Dilution Factor: 15.1

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 10955 | 8644 | 23.6 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

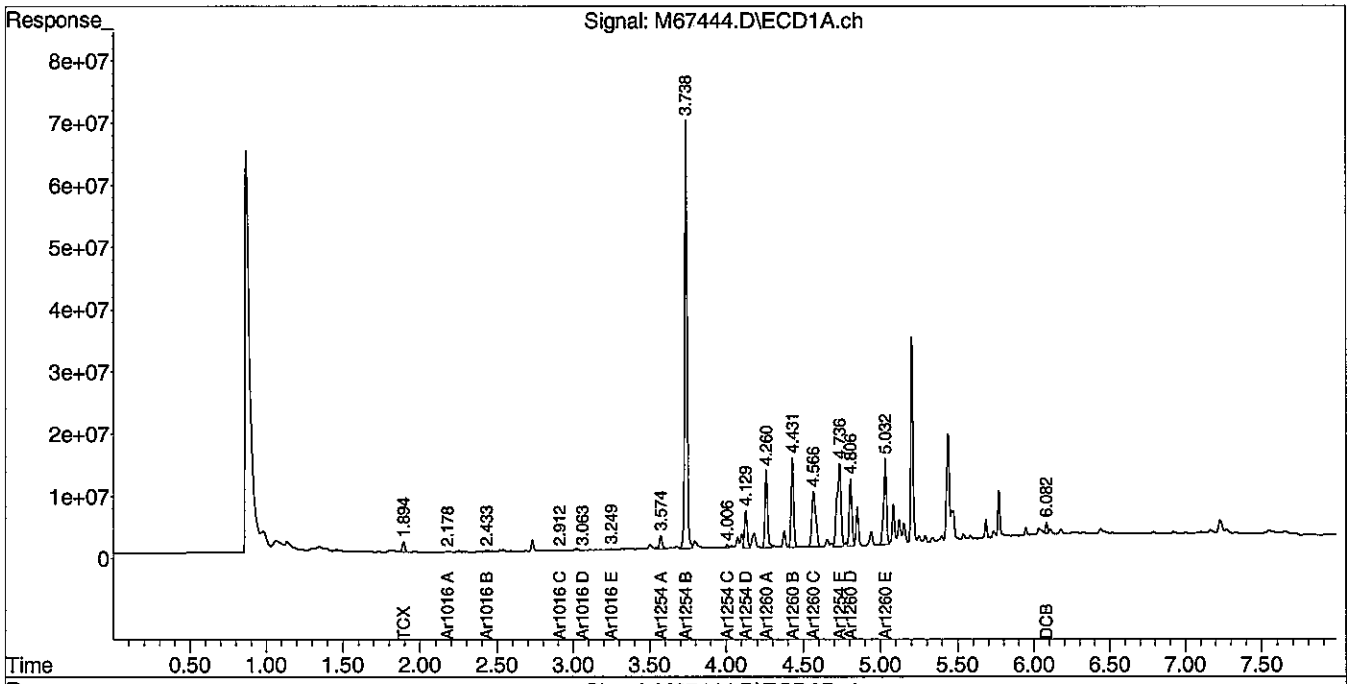
Comments: _____

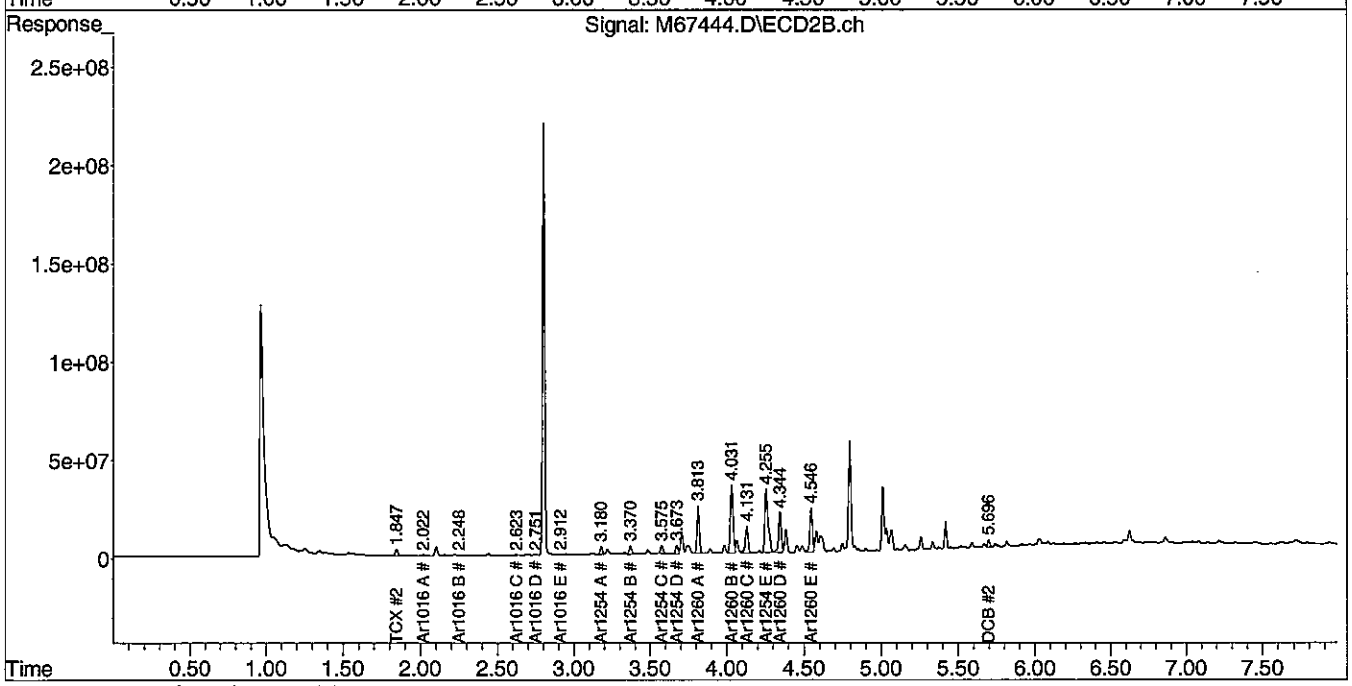
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67444.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 12:05 am
Operator : JK
Sample : 74874-13,1:10,,A/C
Misc : SOIL
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 12:15:11 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74874-14 |
| **Matrix:** | Solid |
| **Percent Solid:** | 87 |
| **Dilution Factor:** | 54 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-219 (6-8') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 1780 | U |
| PCB-1221 | 1780 | U |
| PCB-1232 | 1780 | U |
| PCB-1242 | 1780 | U |
| PCB-1248 | 1780 | U |
| PCB-1254 | 1780 | U |
| PCB-1260 | 1780 | **39800** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG:
Sample: 74874-14,1:50,,A/C
Data File: M67445.D
Dilution Factor: 53.5

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 39845 | 34549 | 14.2 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

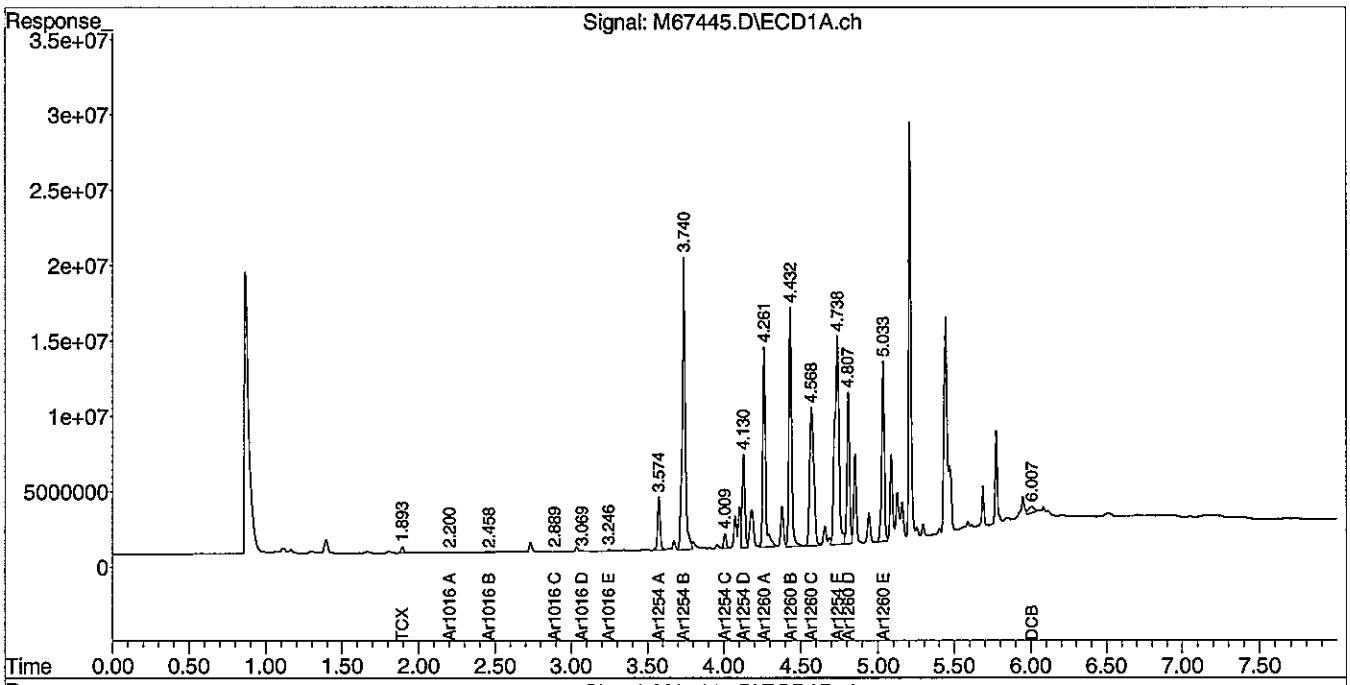
Comments: _____

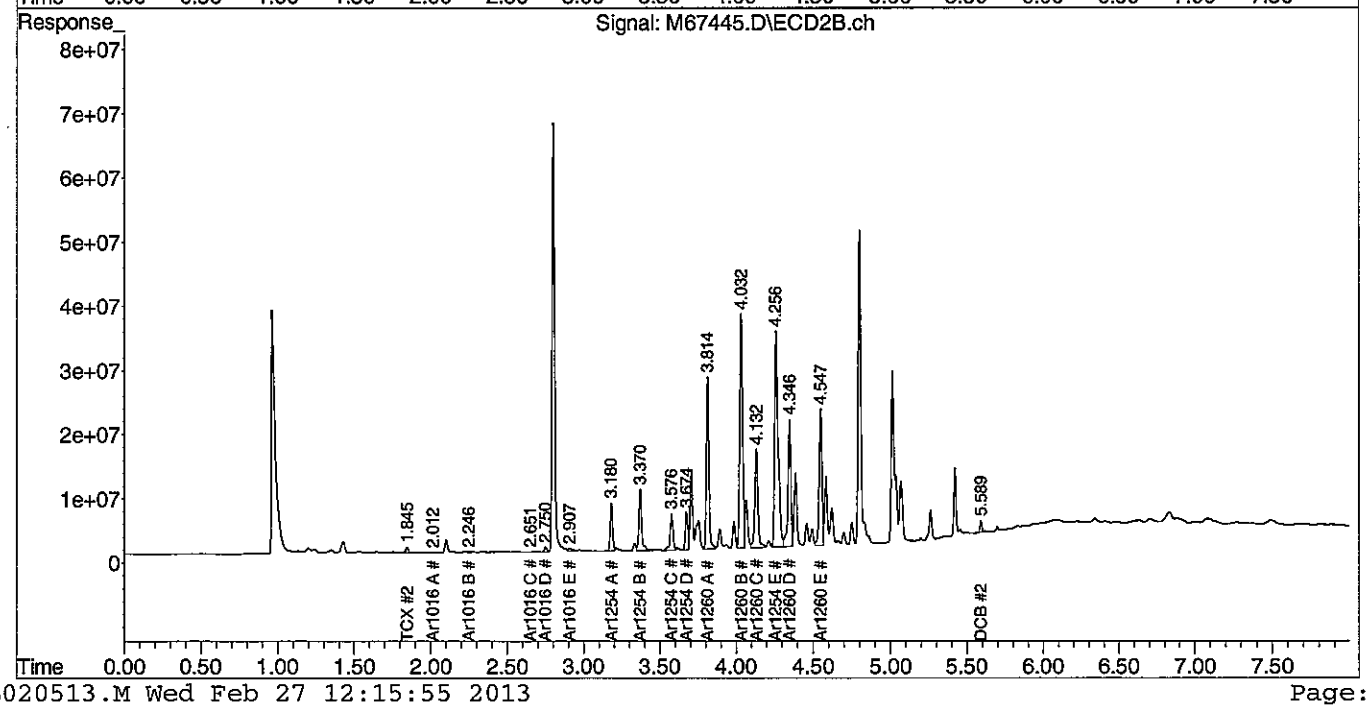
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67445.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 12:15 am
Operator : JK
Sample : 74874-14,1:50,,A/C
Misc : SOIL
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 11:47:52 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74874-15 |
| **Matrix:** | Solid |
| **Percent Solid:** | 91 |
| **Dilution Factor:** | 109 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-219 (8-10') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 3600 | U |
| PCB-1221 | 3600 | U |
| PCB-1232 | 3600 | U |
| PCB-1242 | 3600 | U |
| PCB-1248 | 3600 | U |
| PCB-1254 | 3600 | U |
| PCB-1260 | 3600 | **54100** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74874
Sample: 74874-15,1:100,,A/C
Data File: M67446.D
Dilution Factor: 108.9

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 54112 | 47749 | 12.5 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

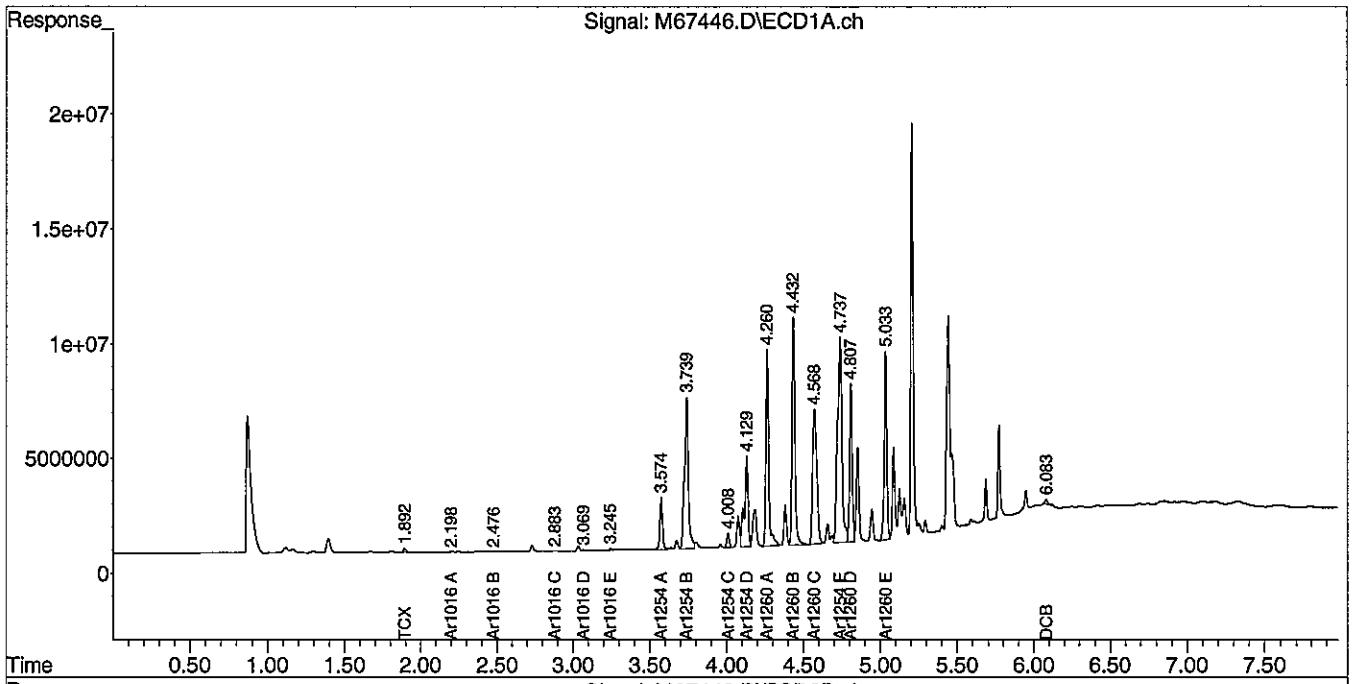
Comments: _____

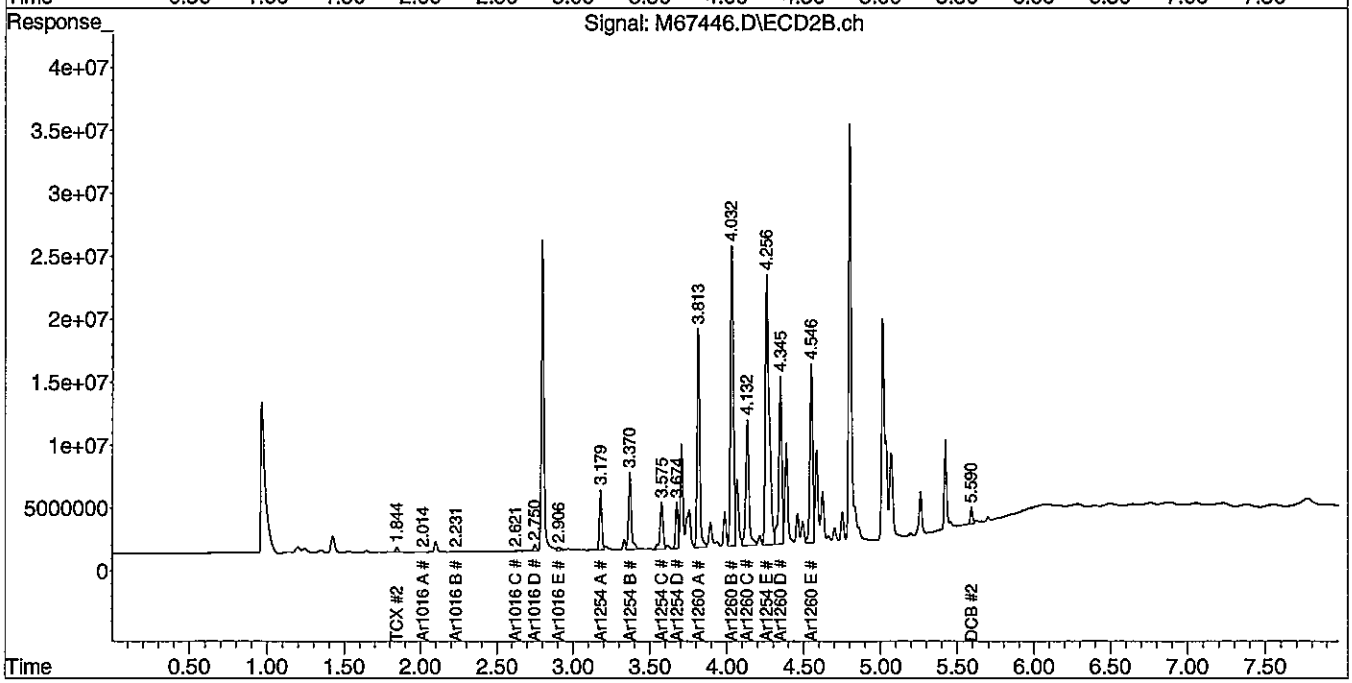
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67446.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 12:25 am
Operator : JK
Sample : 74874-15,1:100,,A/C
Misc : SOIL
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 11:47:54 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74874-16 |
| **Matrix:** | Solid |
| **Percent Solid:** | 89 |
| **Dilution Factor:** | 11 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-224 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 363 | U |
| PCB-1221 | 363 | U |
| PCB-1232 | 363 | U |
| PCB-1242 | 363 | U |
| PCB-1248 | 363 | U |
| PCB-1254 | 363 | U |
| PCB-1260 | 363 | **9550** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 117 | % |
| Decachlorobiphenyl | 74 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74874
Sample: 74874-16,1:10,,A/C
Data File: M67447.D
Dilution Factor: 10.8

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 9550 | 8315 | 13.8 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

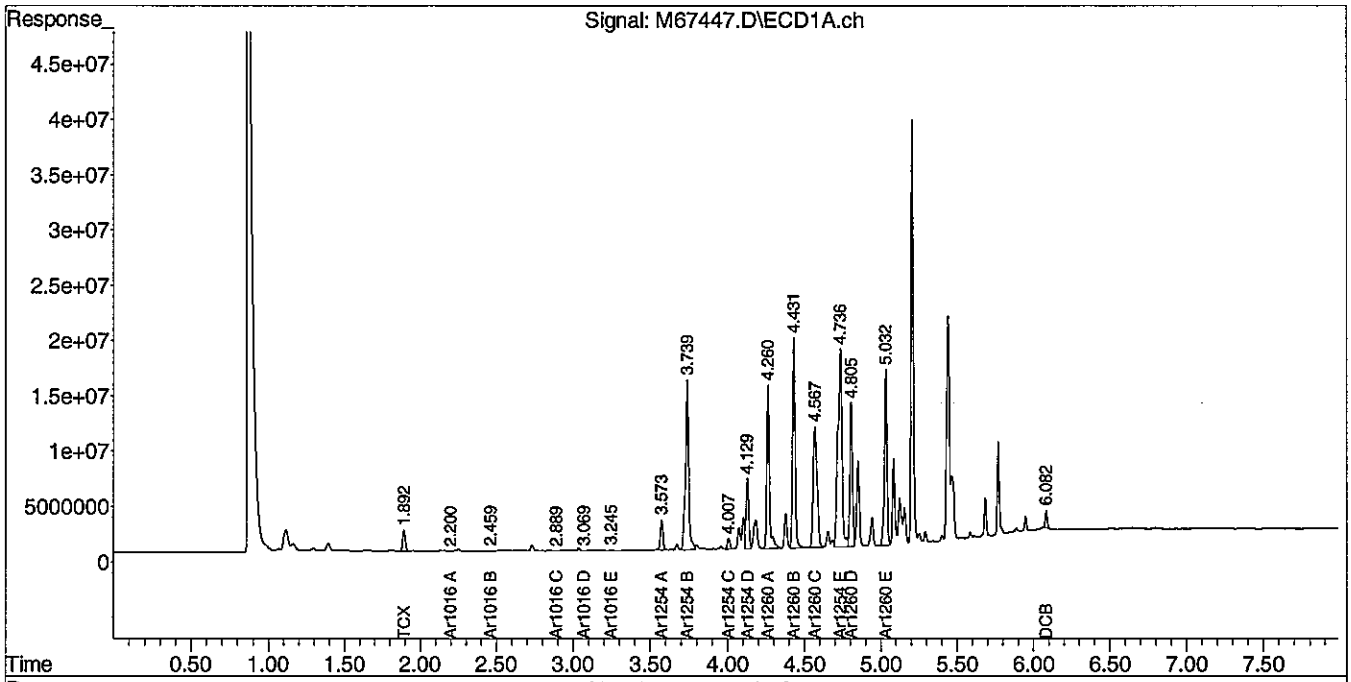
Comments: _____

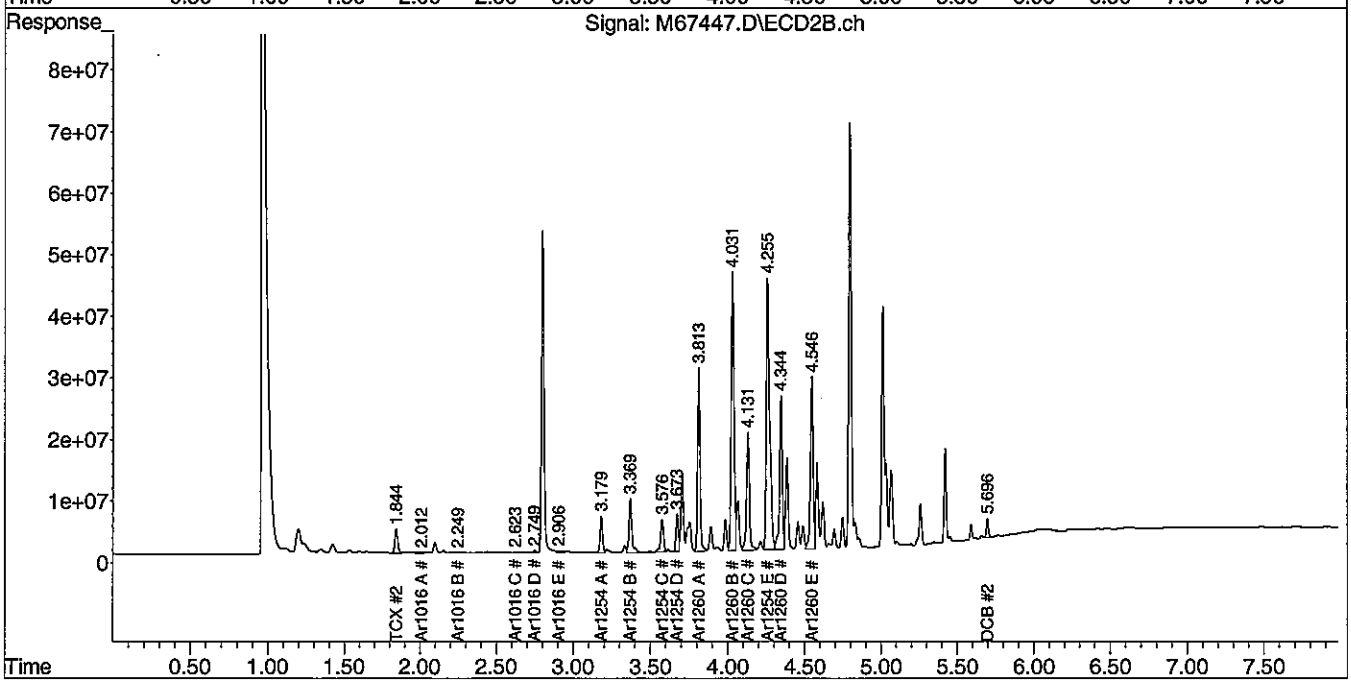
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67447.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 12:35 am
Operator : JK
Sample : 74874-16,1:10,,A/C
Misc : SOIL
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 11:47:56 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 26, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74874-17 |
| **Matrix:** | Solid |
| **Percent Solid:** | 84 |
| **Dilution Factor:** | 1.2 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/23/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-224 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 40 | U |
| PCB-1221 | 40 | U |
| PCB-1232 | 40 | U |
| PCB-1242 | 40 | U |
| PCB-1248 | 40 | U |
| PCB-1254 | 40 | U |
| PCB-1260 | 40 | **229** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 94 | % |
| Decachlorobiphenyl | 67 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74874
Sample: 74874-17,,A/C
Data File: M67312.D
Dilution Factor: 1.2

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 229 | 211 | 8.3 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

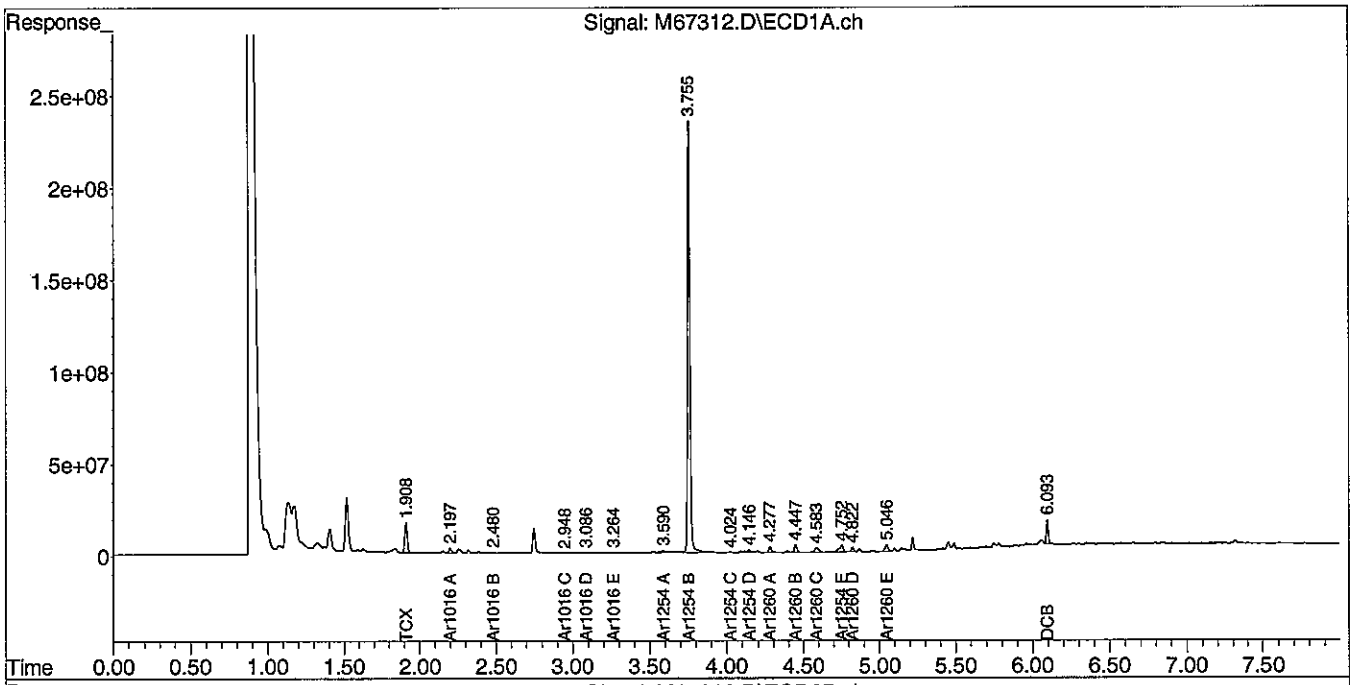
Comments: _____

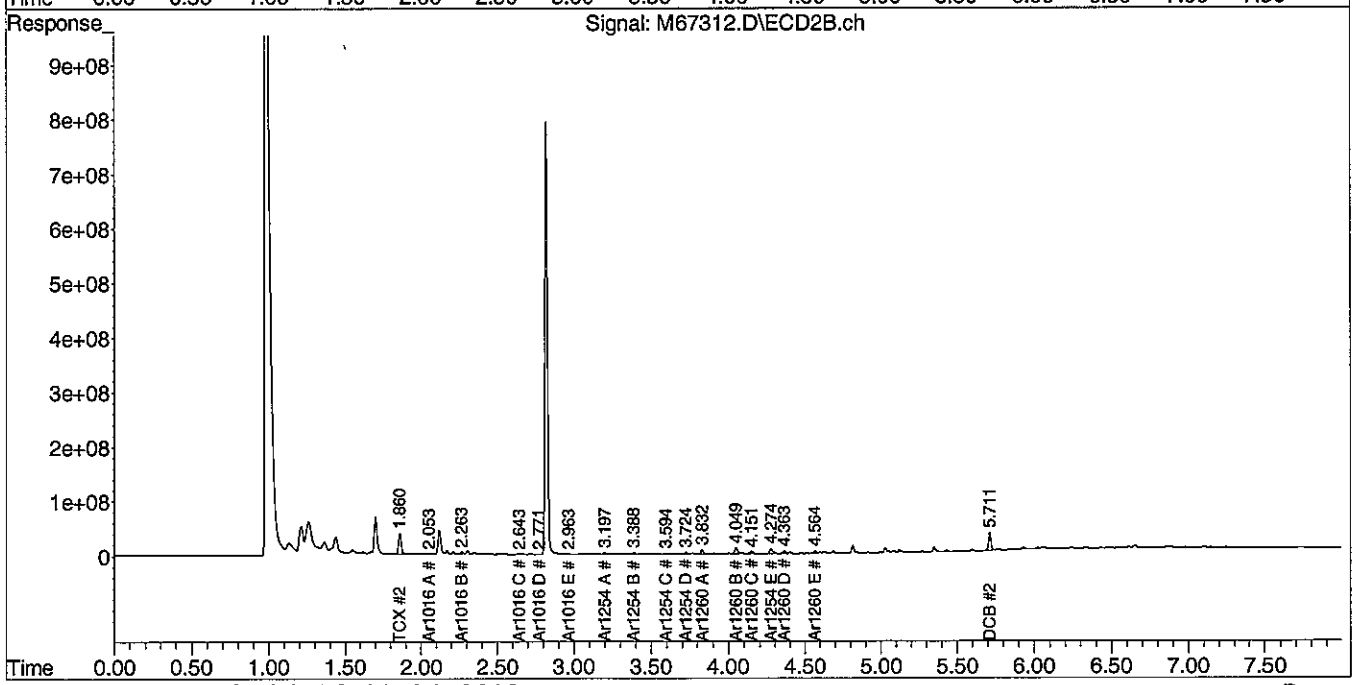
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022213-M\
Data File : M67312.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Feb 2013 7:37 am
Operator : JK
Sample : 74874-17,,A/C
Misc : SOIL
ALS Vial : 48 Sample Multiplier: 1

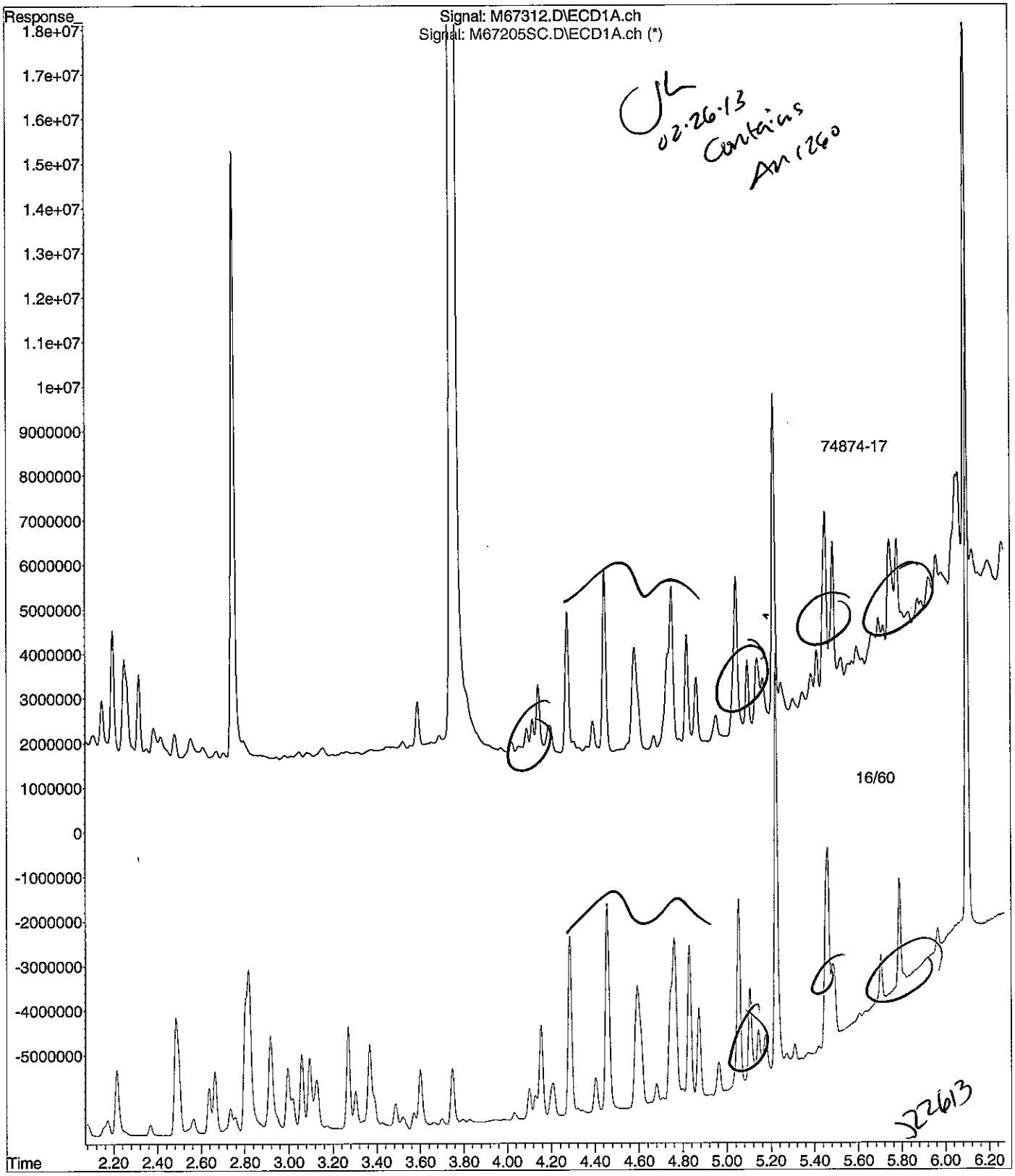
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 26 16:01:28 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 22 09:21:30 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\022213-M\M67312.D
Operator : JK
Acquired : 23 Feb 2013 7:37 am using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 74874-17,,A/C
Misc Info : SOIL
Vial Number: 48



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74874-18 |
| **Matrix:** | Solid |
| **Percent Solid:** | 96 |
| **Dilution Factor:** | 20 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-224 (6-8') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 660 | U |
| PCB-1221 | 660 | U |
| PCB-1232 | 660 | U |
| PCB-1242 | 660 | U |
| PCB-1248 | 660 | U |
| PCB-1254 | 660 | U |
| PCB-1260 | 660 | **9260** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74874
Sample: 74874-18,1:20,,A/C
Data File: M67448.D
Dilution Factor: 19.6

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 9265 | 8097 | 13.5 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

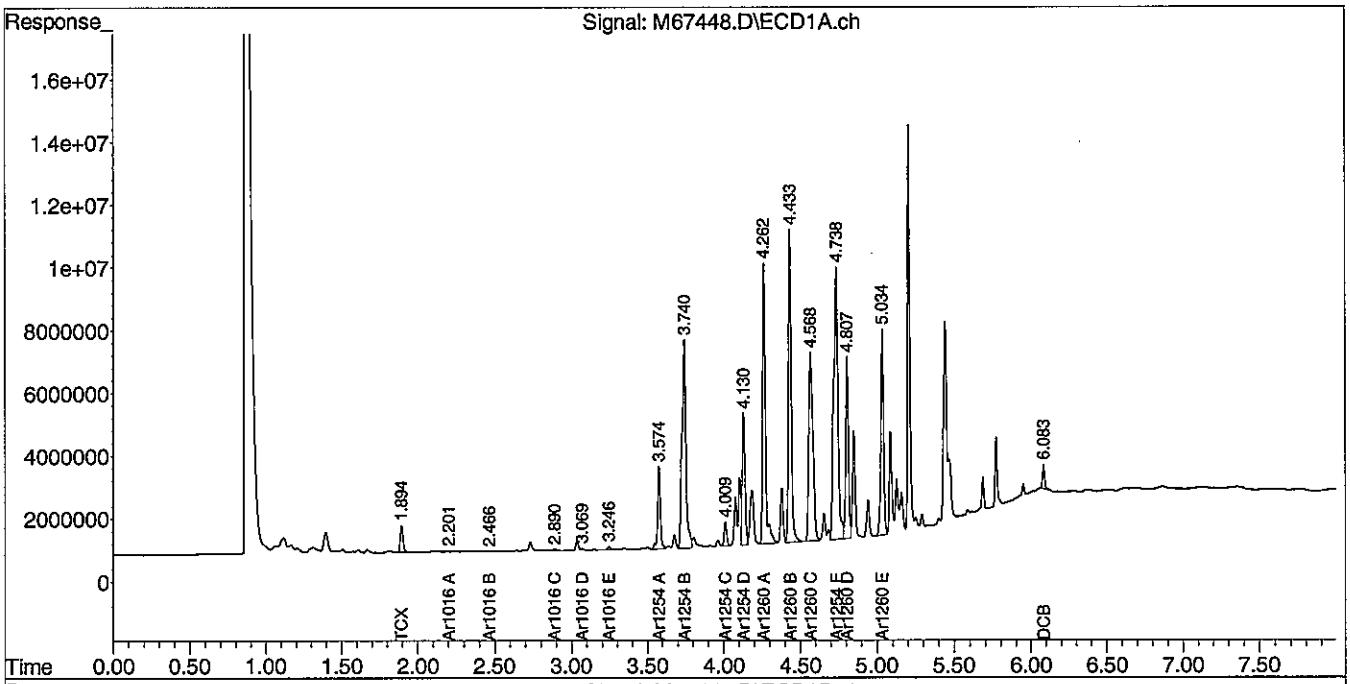
Comments: _____

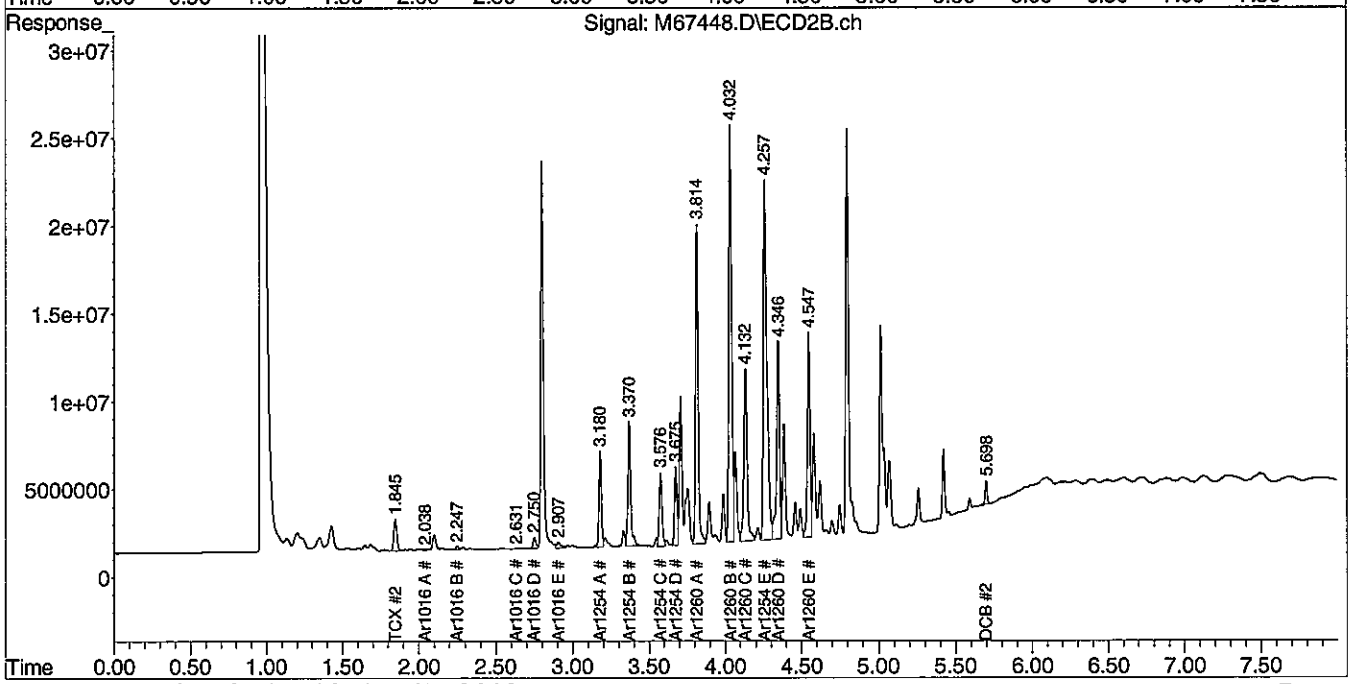
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67448.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 12:45 am
Operator : JK
Sample : 74874-18,1:20,,A/C
Misc : SOIL
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 11:47:58 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 26, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74874-19 |
| **Matrix:** | Solid |
| **Percent Solid:** | 86 |
| **Dilution Factor:** | 1.1 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/23/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-225 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 36 | U |
| PCB-1221 | 36 | U |
| PCB-1232 | 36 | U |
| PCB-1242 | 36 | U |
| PCB-1248 | 36 | U |
| PCB-1254 | 36 | U |
| PCB-1260 | 36 | **310** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 92 | % |
| Decachlorobiphenyl | 68 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74874
Sample: 74874-19,,A/C
Data File: M67314.D
Dilution Factor: 1.1

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 297 | 310 | 4.0 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

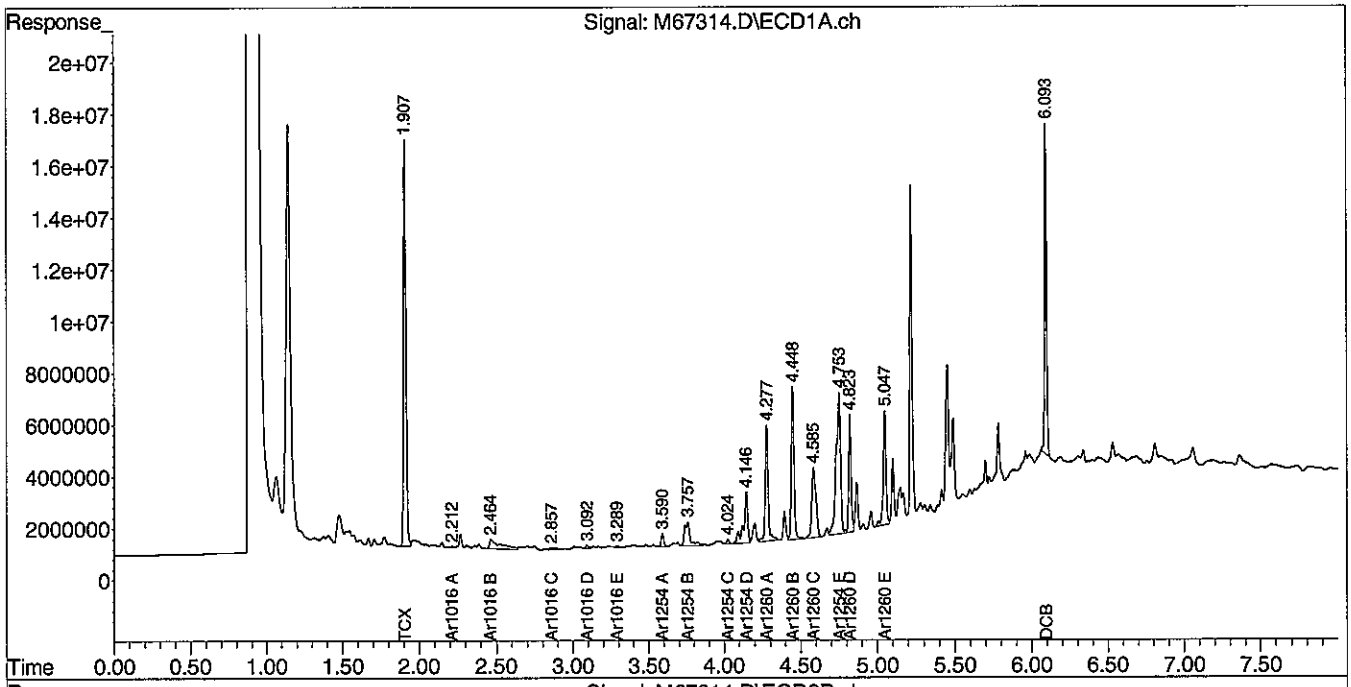
Comments: _____

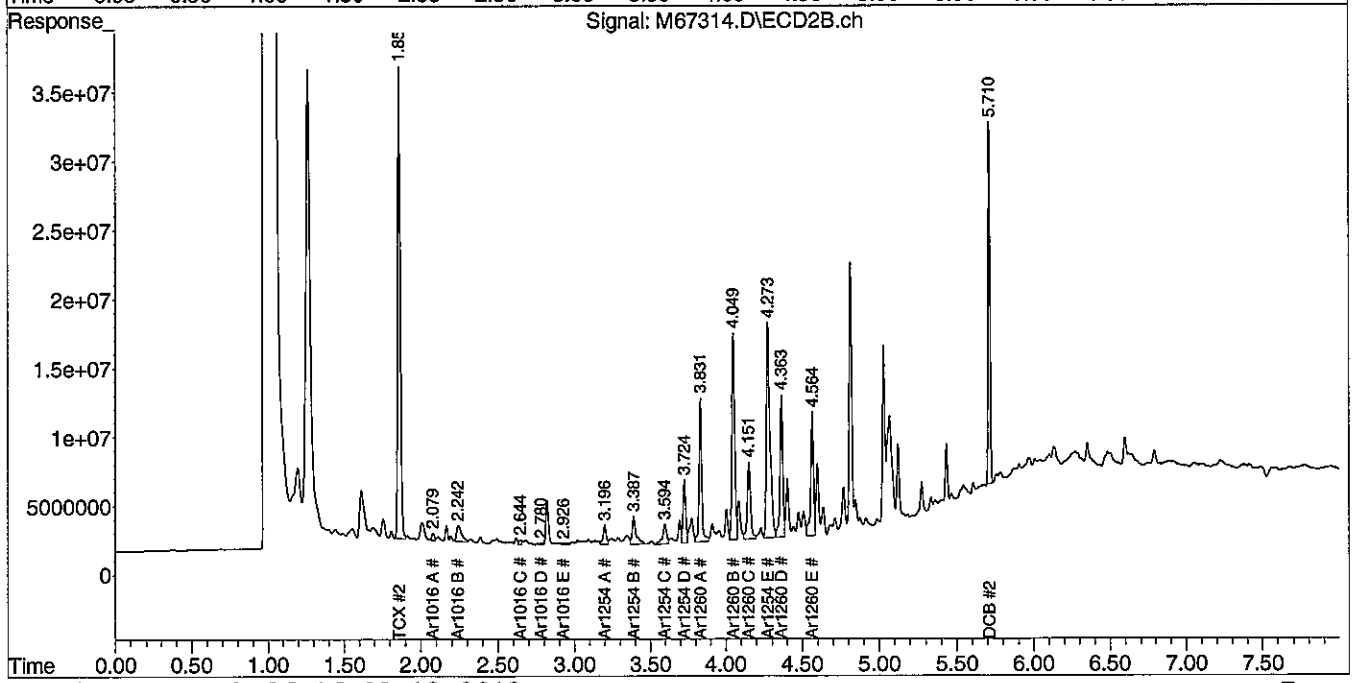
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022213-M\
Data File : M67314.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Feb 2013 7:57 am
Operator : JK
Sample : 74874-19,,A/C
Misc : SOIL
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 26 15:56:03 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 22 09:21:30 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

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Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74874-20 |
| **Matrix:** | Solid |
| **Percent Solid:** | 90 |
| **Dilution Factor:** | 27 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-225 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 891 | U |
| PCB-1221 | 891 | U |
| PCB-1232 | 891 | U |
| PCB-1242 | 891 | U |
| PCB-1248 | 891 | U |
| PCB-1254 | 891 | U |
| PCB-1260 | 891 | **15800** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74874
Sample: 74874-20,1:25,,A/C
Data File: M67449.D
Dilution Factor: 27.4

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 15750 | 13908 | 12.4 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

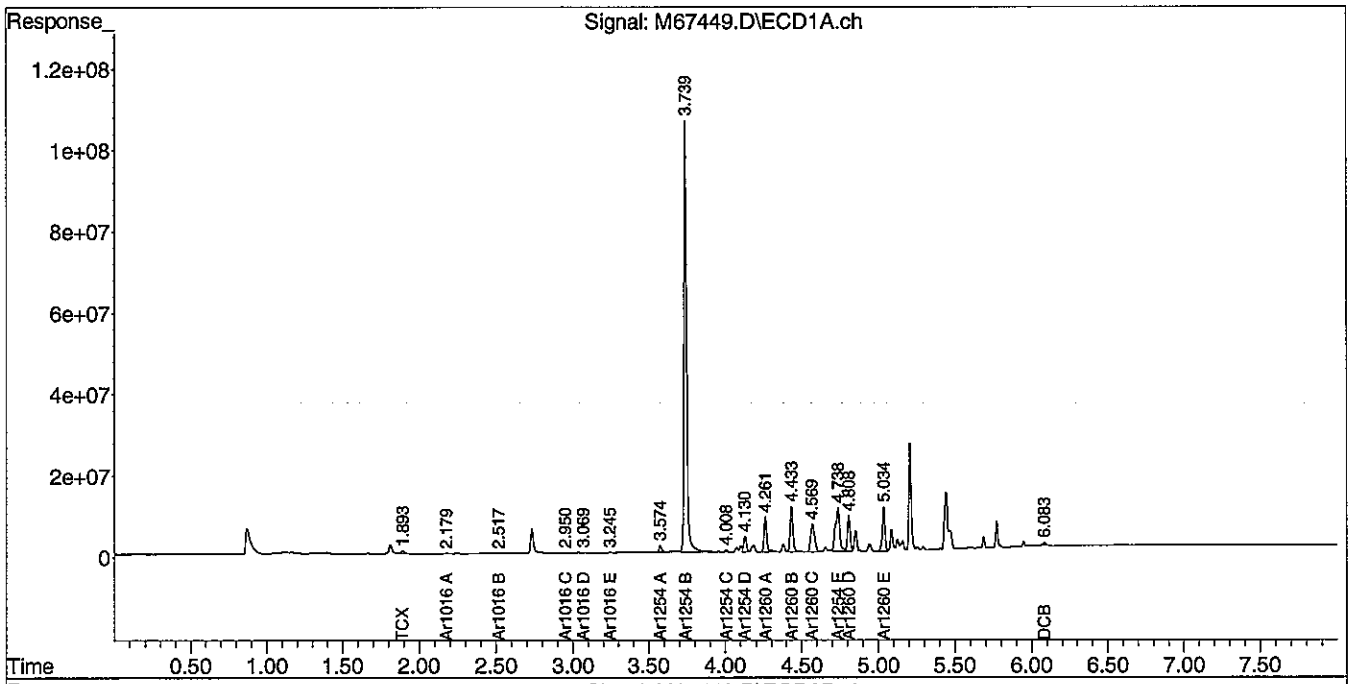
Comments: _____

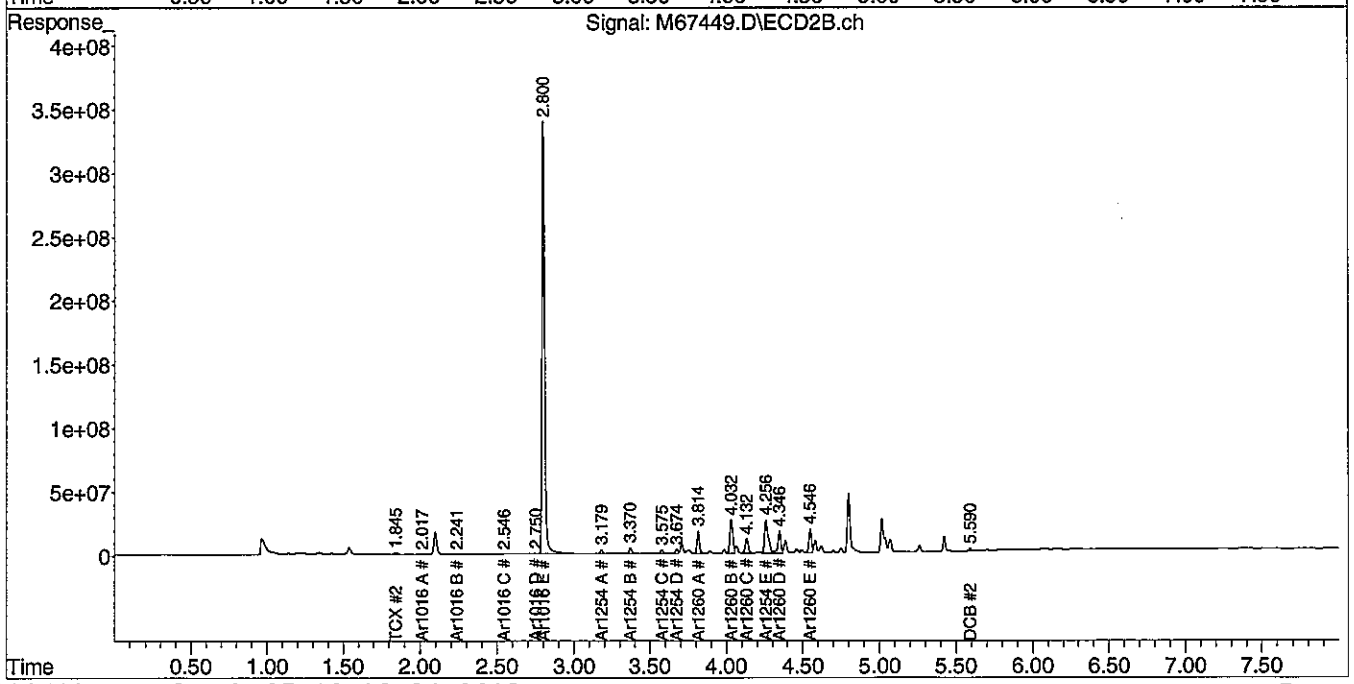
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67449.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 12:55 am
Operator : JK
Sample : 74874-20,1:25,,A/C
Misc : SOIL
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 11:48:00 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



# PCB
# QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 26, 2013

**SAMPLE DATA**

**CLIENT SAMPLE ID**

**Project Name:** MAINE ENERGY

**Project Number:** 12-3259.1

**Field Sample ID:** Lab QC

**Lab Sample ID:** B022113PSOX RR
**Matrix:** Soil
**Percent Solid:** 100
**Dilution Factor:** 1.0
**Collection Date:**
**Lab Receipt Date:**
**Extraction Date:** 02/21/13
**Analysis Date:** 02/23/13

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 112 | % |
| Decachlorobiphenyl | 113 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

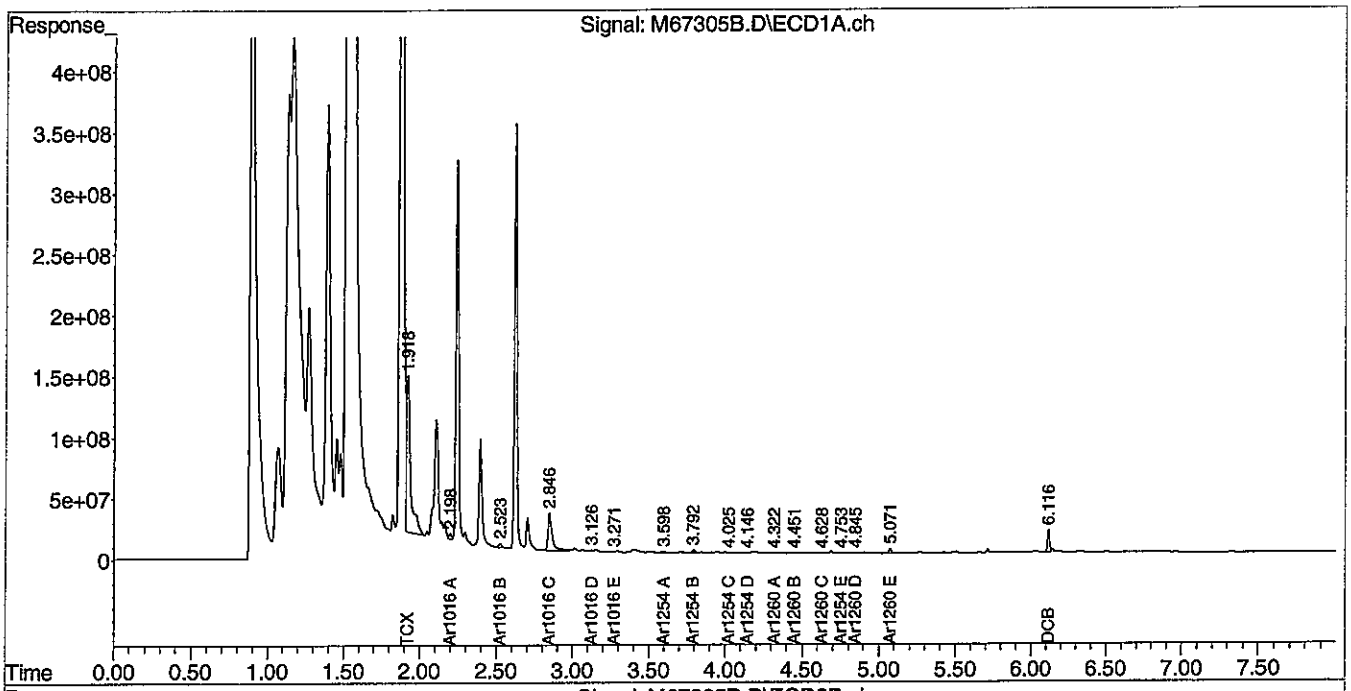
PCB Report

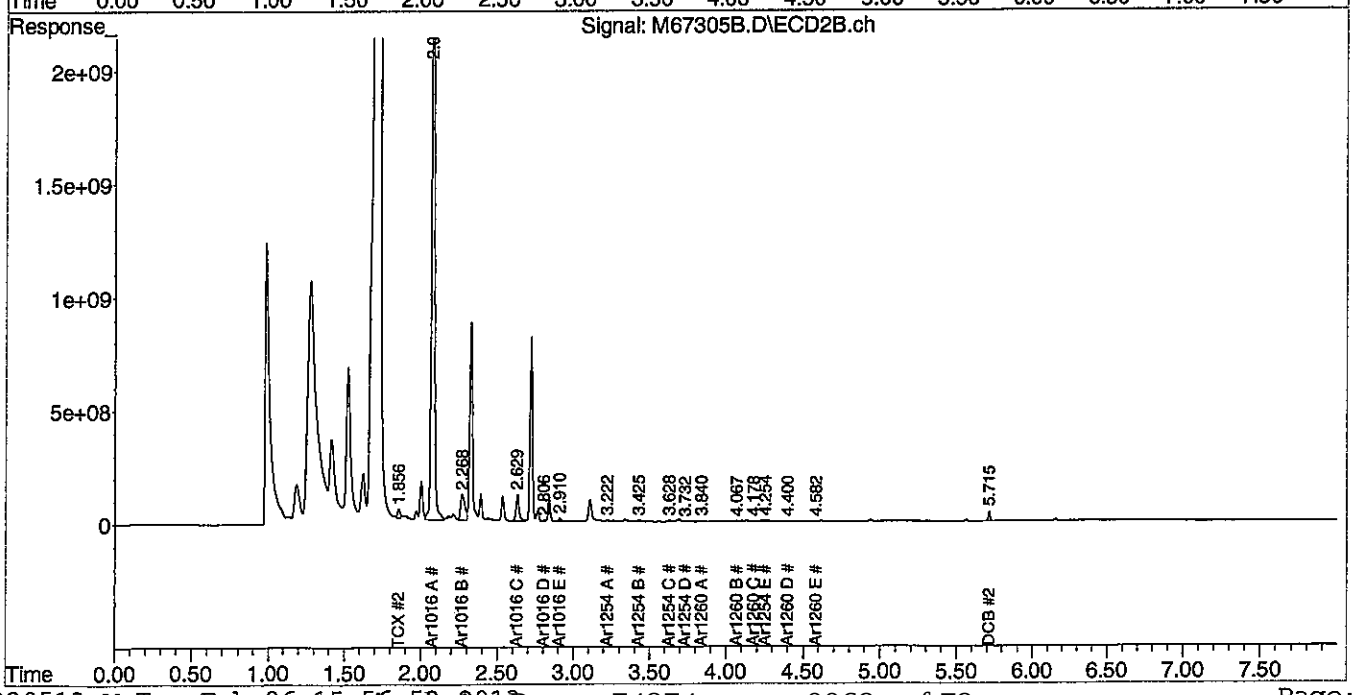
Authorized signature

Data Path : C:\msdchem\1\DATA\022213-M\
Data File : M67305B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Feb 2013 6:26 am
Operator : JK
Sample : B022113PSOX,RR,,A/C
Misc : SOIL
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 26 15:56:46 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 22 09:21:29 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

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640 Main Street
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February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | B022113PSOX |
| **Matrix:** | Soil |
| **Percent Solid:** | 100 |
| **Dilution Factor:** | 1.0 |
| **Collection Date:** | |
| **Lab Receipt Date:** | |
| **Extraction Date:** | 02/21/13 |
| **Analysis Date:** | 02/26/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | Lab QC |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 119 | % |
| Decachlorobiphenyl | 104 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

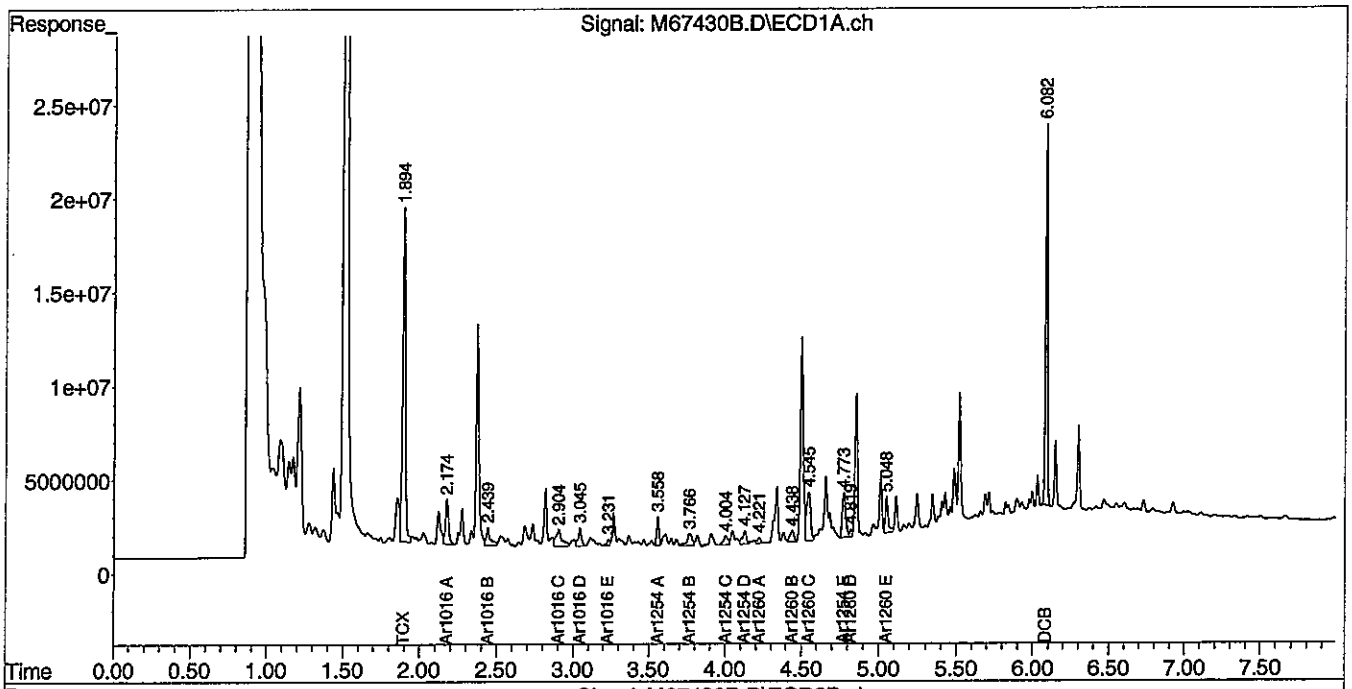
PCB Report

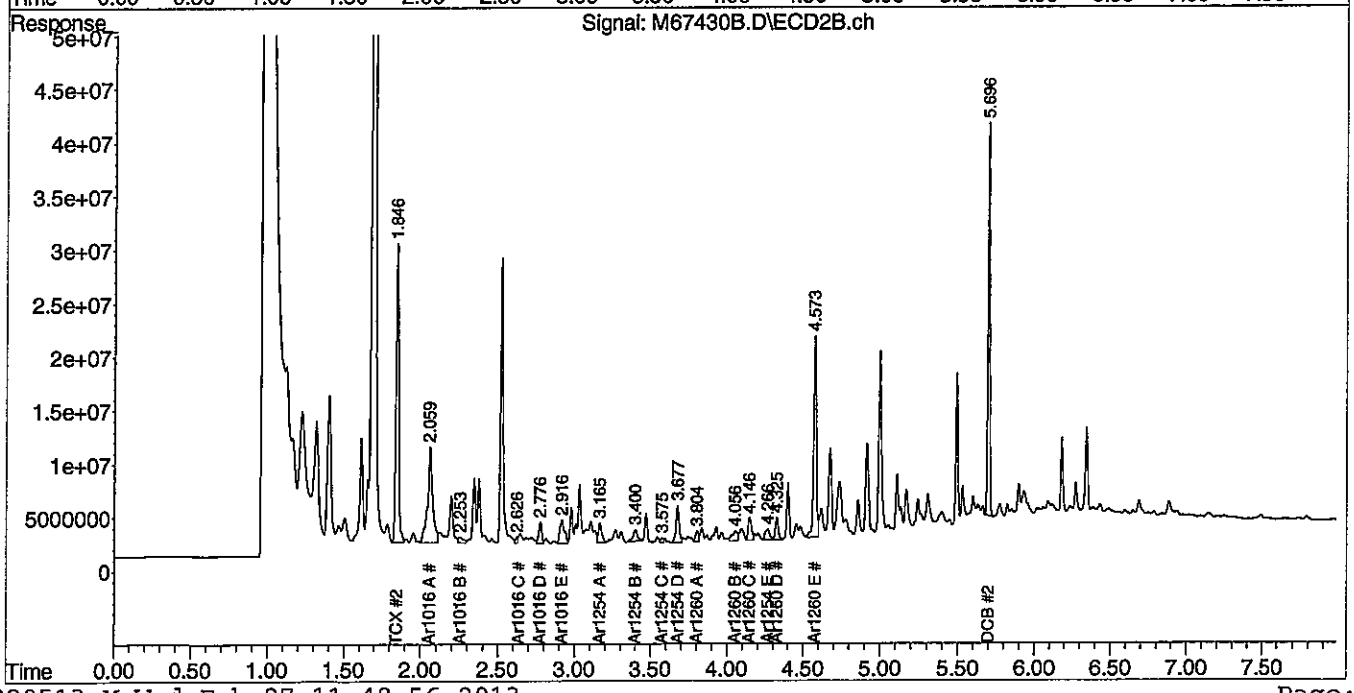
Authorized signature

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67430B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2013 9:44 pm
Operator : JK
Sample : B022113PSOX,,A/C
Misc : SOIL
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 11:47:22 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74874

| | Column #1 | | | | Column #2 | | | |
|---|---|---|---|---|---|---|---|---|
| SAMPLE ID | SMC 1 (%) | # | SMC 2 (%) | # | SMC 1 (%) | # | SMC 2 (%) | # |
| B022113PSOX,RR,,A/C | I | | 99 | | 112 | | 113 | |
| 74874-11,1:5,,A/C | 118 | | 107 | | 113 | | 120 | |
| 74874-12,1:5,,A/C | 125 | | 115 | | 125 | | 127 | |
| 74874-17,,A/C | 94 | | 67 | | 106 | | 97 | |
| 74874-19,,A/C | 92 | | 68 | | 94 | | 62 | |

| | | Lower Limit | Upper Limit |
|---|---|---|---|
| SMC #1 = | TCX | 40 | 130 |
| SMC #2 = | DCB | 40 | 130 |

# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74874

| | Column #1 | | | | Column #2 | | | |
|---|---|---|---|---|---|---|---|---|
| SAMPLE ID | SMC 1 (%) | # | SMC 2 (%) | # | SMC 1 (%) | # | SMC 2 (%) | # |
| B022113PSOX,,A/C | 119 | | 104 | | 80 | | 89 | |
| L022113PSOX,,A/C | 103 | | 92 | | 89 | | 82 | |
| LD022113PSOX,,A/C | 119 | | 81 | | 66 | | 66 | |
| 74874-1,,A/C | 102 | | 81 | | 95 | | 59 | |
| 74874-2,,A/C | 102 | | 71 | | 94 | | 62 | |
| 74874-2,MS,,A/C | 100 | | 67 | | 92 | | 58 | |
| 74874-2,MSD,,A/C | 103 | | 70 | | 95 | | 60 | |
| 74874-3,,A/C | 106 | | 71 | | 100 | | 61 | |
| 74874-4,,A/C | 98 | | 105 | | 96 | | 56 | |
| 74874-5,,A/C | 99 | | 78 | | 94 | | 63 | |
| 74874-6,1:5,,A/C | 87 | | 71 | | 91 | | 57 | |
| 74874-7,1:20,,A/C | D | | D | | D | | D | |
| 74874-8,1:25,,A/C | D | | D | | D | | D | |
| 74874-9,1:500,,A/C | D | | D | | D | | D | |
| 74874-13,1:10,,A/C | 94 | | 95 | | 84 | | 101 | |
| 74874-14,1:50,,A/C | D | | D | | D | | D | |
| 74874-15,1:100,,A/C | D | | D | | D | | D | |
| 74874-16,1:10,,A/C | 117 | | 74 | | 115 | | 73 | |
| 74874-18,1:20,,A/C | D | | D | | D | | D | |
| 74874-20,1:25,,A/C | D | | D | | D | | D | |

| | | Lower Limit | Upper Limit |
|---|---|---|---|
| SMC #1 = | TCX | 40 | 130 |
| SMC #2 = | DCB | 40 | 130 |

# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG:

Non-spiked sample: B022113PSOX,,A/C

Spike: L022113PSOX,,A/C

Spike duplicate: LD022113PSOX,,A/C

| COMPOUND | LCS SPIKE ADDED (ug/kg) | LCSD SPIKE ADDED (ug/kg) | LOWER LIMIT | UPPER LIMIT | RPD LIMIT | NON-SPIKE RESULT (ug/kg) | SPIKE RESULT (ug/kg) | SPIKE % REC | # | SPIKE DUP RESULT (ug/kg) | SPIKE DUP % REC | # | RPD | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 200 | 200 | 65 | 140 | 30 | 0 | 230 | 115 | | 242 | 121 | | 4.9 | |
| PCB 1260 | 200 | 200 | 60 | 130 | 30 | 0 | 211 | 105 | | 239 | 119 | | 12.6 | |
| PCB 1016 #2 | 200 | 200 | 65 | 140 | 30 | 0 | 190 | 95 | | 229 | 115 | | 19.0 | |
| PCB 1260 #2 | 200 | 200 | 60 | 130 | 30 | 0 | 171 | 85 | | 193 | 97 | | 12.4 | |

# Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

PCB SOIL
MATRIX SPIKE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG:

Non-spiked sample: 74874-2,,A/C

Spike: 74874-2,MS,,A/C

Spike duplicate: 74874-2,MSD,,A/C

| COMPOUND | MS SPIKE ADDED (ug/kg) | MSD SPIKE ADDED (ug/kg) | LOWER LIMIT | UPPER LIMIT | RPD LIMIT | NON-SPIKE RESULT (ug/kg) | SPIKE RESULT (ug/kg) | SPIKE % REC | # | SPIKE DUP RESULT (ug/kg) | SPIKE DUP % REC | # | RPD | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 223 | 211 | 65 | 140 | 30 | 0 | 242 | 108 | | 249 | 118 | | 3.0 | |
| PCB 1260 | 223 | 211 | 60 | 130 | 30 | 308 | 439 | 59 | * | 447 | 65 | | 1.7 | |
| PCB 1016 #2 | 223 | 211 | 65 | 140 | 30 | 0 | 193 | 87 | | 190 | 90 | | 1.7 | |
| PCB 1260 #2 | 223 | 211 | 60 | 130 | 30 | 268 | 372 | 46 | * | 388 | 57 | * | 4.3 | |

# Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

MS/MSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

analytics environmental laboratory LLC

# CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

# Chain Of Custody Form

**analytics** environmental laboratory LLC

195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906

(603) 436-5111
(603) 430-2151 Fax

**For Analytics Use Only**

Samples were:
1) Shipped or hand delivered
2) Temperature (°C): 0.3-0.7°
3) Received in good condition: Y or N
4) pH checked by: N/A
5) Labels checked by: JB 2/20/13

Project Name: MAINE ENERGY
Project#: 12-3259.1
Company: SUMMIT
Report to: JOHN CRESSEY
Address: 640 MAIN ST.
LEWISTON, ME 04240
Phone: (207) 795-6009
Quote #:
PO# (if required): 12-3259.1

Preservation Code:

Preseravtion Key:
A= HCL
B= 4°C
C= Unpres
D = MeOH
E = HNO3
F = H2SO4
G = Hexane
H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please fill in preservation code here

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

| Sample Identification | Sample Date | Sample Time | Field Filtered? Y or N | VOC: 8260 524.2 624 | SVOC: 8270 625 PAH only SIM | Pesticides: 8081 608 | PCB: 8082 608 Soxhlet? Y or N | TPH: 8015 (Gas Range) ME4217 | TPH: 8015 (Diesel Range) 8100M ME4125 | EPH: Full or Ranges only TETPH | VPH: Full or Ranges only | Metals: RCRA8 PP13 TAL23 Other** | Matrix | No. of Containers | pH checked | Analytics Sample # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SE-SB-221 (0-2') | 2-19 | 1422 | N | | | | X | | | | | | | | | 74874-1 |
| SE-SB-221 (2-4') | | 1432 | N | | | | X | | | | | | | | | -2 |
| SE-SB-221 (4-5') | | 1441 | N | | | | X | | | | | | | | | -3 |
| SE-SB-220 (0-2') | | 1515 | N | | | | X | | | | | | | | | -4 |
| SE-SB-220 (2-4') | | 1524 | N | | | | X | | | | | | | | | -5 |
| SE-SB-220 (4-6') | | 1530 | N | | | | X | | | | | | | | | -6 |
| SE-SB-220 (6-8') | | 1535 | N | | | | X | | | | | | | | | -7 |
| SE-SB-220 (8-10') | | 1545 | N | | | | X | | | | | | | | | -8 |
| SE-SB-220 (10-11') | | 1550 | N | | | | X | | | | | | | | | -9 |
| ~~SE-SB-219 (0-2')~~ * | | 1557 | N | | | | X | | | | | | | | | -10 |

Email Results to: JCRESSEY@SUMMITENV.COM

Turnaround Time (TAT)
- [ ] 1 Day*
- [ ] 2 Days*
- [ ] 3 Days*
- [ ] 4 Days*
- [ ] 5 Days
- [x] Standard (8-10 business days)

*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: ** List requested metals here

* missing sample SE-SB-219 (0-2') @15:57
↳ No sample collected per client. 02/20/13 KEZ

*Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.*

Project Requirements:
*Fee may apply

Report Type:
- [ ] MCP*
- [ ] Level II*
- [ ] CTRCP*
- [ ] Level III*
- [ ] DOD*
- [ ] Level IV*
- [x] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI
- Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y* N
Type:

Sampler Name (Print): John Cressey

| | | | | |
|---|---|---|---|---|
| Relinquished By Sampler: | Date: 2-20 | Time: 1131 | Received By: | |
| Relinquished By: | Date: | Time: | Received By: | |
| Relinquished By: | Date: | Time: | Received By: | |

Page 3 of 6

# Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 0.3-0.7°
3) Received in good condition: Y or N
4) pH checked by: N/A
5) Labels checked by: JB 2/20/13

Project Name: MAINE ENERGY
Project#: 12-3259.1
Company: SUMMIT
Report to: JOHN CRESSEY
Address: 640 MAIN ST. LEWISTON, ME 04240
Phone: (207) 795-6009
Quote #:
PO# (if required): 12-3259.1

Preservation Code:
Preservation Key: A= HCL, B= 4°C, C= Unpres, D = MeOH, E = HNO3, F = H2SO4, G = Hexane, H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please ☒ in preservation code here

Matrix Key: C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

| Sample Identification | Sample Date | Sample Time | Field Filtered? Y or N | VOC: 8260 524.2 624 | SVOC: 8270 625 PAH only SIM | Pesticides: 8081 608 | PCB: 8082 608 | Soxhlet Y or N | TPH: 8015 (Gas Range) ME4217 | TPH: 8015 (Diesel Range) 8100M ME4125 | EPH: Full or Ranges only TETPH | VPH: Full or Ranges only | Metals: RCRA8 PP13 TAL23 Other** | Matrix | No. of Containers | pH checked | Analytics Sample # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SE-SB-219 (0-2') | 2-19 | 1602 | N | | | | X | | | | | | | S | 1 | | -11 |
| SE-SB-219 (2-4') | 2-19 | 1605 | N | | | | X | | | | | | | S/O | 1 | | -12 |
| SE-SB-219 (4-6') | 2-19 | 1620 | N | | | | X | | | | | | | S | 1 | | -13 |
| SE-SB-219 (6-8') | 2-19 | 1622 | N | | | | X | | | | | | | S | 1 | | -14 |
| SE-SB-219 (8-10') | 2-19 | 1638 | N | | | | X | | | | | | | S | 1 | | -15 |
| SE-SB-224 (0-2') | 2-19 | 1650 | N | | | | X | | | | | | | S | 1 | | -16 |
| SE-SB-224 (2-4') | 2-19 | 1700 | N | | | | X | | | | | | | S | 1 | | -17 |
| SE-SB-224 (6-8') | 2-19 | 1717 | N | | | | X | | | | | | | S | 1 | | -18 |
| SE-SB-225 (0-2') | 2-19 | 1734 | N | | | | X | | | | | | | S | 1 | | -19 |
| SE-SB-225 (2-4') | 2-19 | 1736 | N | | | | X | | | | | | | S | 1 | | -20 |

Email Results to: JCRESSEY@SUMMITENV.COM

Turnaround Time (TAT): ☐ 1 Day* ☐ 2 Days* ☐ 3 Days* ☐ 4 Days* ☐ 5 Days ☒ Standard (8-10 business days)
*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions:
** List requested metals here

*Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.*

Project Requirements: *Fee may apply
Report Type: ☐ MCP* ☐ Level II* ☐ CTRCP* ☐ Level III* ☐ DOD* ☐ Level IV* ☒ Standard
State: ☐ NH ☐ MA ☒ ME ☐ CT ☐ RI Other:
State Standard: (eg. S-1 or GW-1)
EDD Required: Y* N
Type:

Sampler Name (Print): JOHN CRESSEY
Relinquished By Sampler: Date: 2-20 Time: 1310 Received By: K Stevens
Relinquished By: Date: Time: Received By:
Relinquished By: Date: Time: Received By:

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 74874

CLIENT: Summit

PROJECT: Maine Energy

COOLER NUMBER: 74,223

NUMBER OF COOLERS: 2

**A: PRELIMINARY EXAMINATION:**

1. Cooler received by(initials): KGZ

DATE COOLER RECEIVED/OPENED: 02/20/13

2. Circle one: Hand delivered ~~(If so, skip 3)~~ Shipped

3. Did cooler come with a shipping slip? Y (N)

3a. Enter carrier name and airbill number here: _____

4. Were custody seals on the outside of cooler? Y (N)
How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y N/A

6. COC#: _____

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? (Y) N

8. Were custody papers sealed in a plastic bag? Y (N)

9. Did you sign the COC in the appropriate place? (Y) N

10. Was enough ice used to chill the cooler? (Y) N Temp. of cooler: 0.3°C, 0.7°C

**B. Log-In:** Date samples were logged in: KGZ By: 02/20/13

11. Were all bottles sealed in separate plastic bags? Y (N)

12. Did all bottles arrive unbroken and were labels in good condition? (Y) N

13. Were all bottle labels complete(ID,Date,time,etc.) (Y) N

14. Did all bottle labels agree with custody papers? ~~(Y)~~ KGZ (N) Did Not receive sample -10

15. Were the correct containers used for the tests indicated: (Y) N

16. Were samples received at the correct pH? Y N/A

17. Was sufficient amount of sample sent for the tests indicated? (Y) N

18. Were all samples submitted within holding time? (Y) N

19. Were all containers used within AEL 's expiration date?** Y N/A

20. Were VOA samples absent of greater than pea-sized bubbles? Y N*/A
(Note:Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatiles data.)

*If NO, List Sample ID's, Lab #s: _____

When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): VB Date: 2/20/13

**The expiration date is recommended by Analytics Environmental Laboratory and not the method. Therefore this does not mean that the results are non-compliant.

C:ANLYTICS LLC\AEL DOCUMENTS\FORMS\SMPL CHKLST\Edit 4908

Rev. 6, 8/27/12

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

February 27, 2013

Mr. John Cressey
Summit Environmental
640 Main Street
Lewiston ME 04240

**RE: Analytical Results Case Narrative**
**Analytics # 74875**
**Maine Energy**
**Project No: 12-3259.1**

Dear Mr. Cressey;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082A.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples
PCB Form 3 MS/MSD (LCS) Recoveries and Blanks
Chromatograms
Chain of Custody (COC) Forms

## QC NON CONFORMANCE SUMMARY

**Sample Receipt:**
No exceptions.

**PCBs by EPA Method 8082:**
No results were reported below the quantitation limit.

All samples except 74875-10 and 74875-12 thru 74875-14 required dilution due to concentrations of PCBs that exceeded the calibration range of the instrument.

The MS/MSD analyzed on sample 74875-7 was only assessed for precision of PCB 1260 due to the parent sample having concentrations of PCB 1260 that exceeded the calibration range of the instrument. The RPDs for the MS/MSD did not meet acceptance criteria. The laboratory control samples (L022213PSOX/LD022213PSOX) were in control for all recoveries and RPDs. Results were reported without qualification.

If you have any questions on this data submittal, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen Knollmeyer
Laboratory Director

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

**Report Number: 74875**

**Revision: Rev. 0**

**Re: MAINE ENERGY (Project No: 12-3259.1)**

Enclosed are the results of the analyses on your sample(s). Samples were received on 20 February 2013 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

**Sample Analysis:** The attached pages detail the Client Sample IDs, Lab Sample IDs, and Analyses requested

**Sample Receipt Exceptions:** None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 02/28/2013

**This report shall not be reproduced, except in full, without the written consent of Analytics Environmental Laboratory, LLC.**

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

**CLIENT: Summit Environmental Consultants Inc.** **REPORT NUMBER: 74875** **REV: Rev. 0**

**PROJECT: MAINE ENERGY (Project No: 12-3259.1)**

| Lab Number | Sample Date | Station Location | Analysis | Comments |
|---|---|---|---|---|
| 74875-1 | 02/19/13 | SE-SB-225 (4-6') | EPA 8082 (PCBs only) | |
| 74875-2 | 02/19/13 | SE-SB-225 (6-7.5') | EPA 8082 (PCBs only) | |
| 74875-3 | 02/20/13 | SE-SB-226 (0-2') | EPA 8082 (PCBs only) | |
| 74875-4 | 02/20/13 | SE-SB-226 (2-4') | EPA 8082 (PCBs only) | |
| 74875-5 | 02/20/13 | SE-SB-226 (4-5') | EPA 8082 (PCBs only) | |
| 74875-6 | 02/20/13 | SE-SB-232 (0-2') | EPA 8082 (PCBs only) | |
| 74875-7 | 02/20/13 | SE-SB-232A (2-4') | EPA 8082 (PCBs only) | |
| 74875-8 | 02/20/13 | SE-SB-232A (4-6') | EPA 8082 (PCBs only) | |
| 74875-9 | 02/20/13 | SE-SB-232A (6-8') | EPA 8082 (PCBs only) | |
| 74875-10 | 02/20/13 | SE-SB-232A (8-10') | EPA 8082 (PCBs only) | |
| 74875-11 | 02/20/13 | SE-SB-233 (0-2') | EPA 8082 (PCBs only) | |
| 74875-12 | 02/20/13 | SE-SB-233 (2-4') | EPA 8082 (PCBs only) | |
| 74875-13 | 02/20/13 | SE-SB-233 (4-6') | EPA 8082 (PCBs only) | |
| 74875-14 | 02/20/13 | SE-SB-233 (6-8') | EPA 8082 (PCBs only) | |
| 74875-15 | 02/20/13 | SE-SB-234 (0-2') | EPA 8082 (PCBs only) | |

## Surrogate Compound Limits

| Matrix: | Aqueous | Solid | |
|---|---|---|---|
| Units: | % Recovery | % Recovery | Method |
| **Volatile Organic Compounds - Drinking Water** | | | |
| 1,4-Difluorobenzene | 70-130 | | EPA 524.2 |
| Bromofluorobenzene | 70-130 | | |
| 1,2-Dichlorobenzene-d4 | 70-130 | | |
| **Volatile Organic Compounds** | | | |
| 1,2-Dichloroethane-d4 | 70-120 | 70-120 | EPA 624/8260B |
| Toluene-d8 | 85-120 | 85-120 | |
| Bromofluorobenzene | 75-120 | 75-120 | |
| **Semi-Volatile Organic Compounds** | | | |
| 2-Fluorophenol | 20-110 | 35-105 | EPA 625/8270C |
| d5-Phenol | 15-110 | 40-100 | |
| d5-nitrobenzene | 40-110 | 35-100 | |
| 2-Fluorobiphenyl | 50-110 | 45-105 | |
| 2,4,6-Tribromophenol | 40-110 | 40-125 | |
| d14-p-terphenyl | 50-130 | 30-125 | |
| **PAH's by SIM** | | | |
| d5-nitrobenzene | 21-110 | 35-110 | EPA 8270C |
| 2-Fluorobiphenyl | 36-121 | 45-105 | |
| d14-p-terphenyl | 33-141 | 30-125 | |
| **Pesticides and PCBs** | | | |
| 2,4,5,6-Tetrachloro-m-xylene (TCX) | 46-122 | 40-130 | EPA 608/8082 |
| Decachlorobiphenyl (DCB) | 40-135 | 40-130 | |
| **Herbicides** | | | |
| Dichloroacetic acid (DCAA) | 30-150 | 30-150 | |
| **Gasoline Range Organics/TPH Gasoline** | | | |
| Trifluorotoluene TFT (FID) | 60-140 | 60-140 | MEDEP 4217/EPA 8015 |
| Bromofluorobenzene (BFB) (FID) | 60-140 | 60-140 | |
| Trifluorotoluene TFT (PID) | 60-140 | 60-140 | |
| Bromofluorobenzene (BFB) (PID) | 60-140 | 60-140 | |
| **Diesel Range Organics/TPH Diesel** | | | |
| m-terphenyl | 60-140 | 60-140 | MEDEP 4125/EPA 8015/CT ETPH |
| **Volatile Petroleum Hydrocarbons** | | | |
| 2,5-Dibromotoluene (PID) | 70-130 | 70-130 | MADEP VPH May 2004 Rev1.1 |
| 2,5-Dibromotoluene (FID) | 70-130 | 70-130 | |
| **Extracatable Petroleum Hydrocarbons** | | | |
| 1-chloro-octadecane (aliphatic) | 40-140 | 40-140 | MADEP EPH May 2004 Rev1.1 |
| o-Terphenyl (aromatic) | 40-140 | 40-140 | |
| 2-Fluorobiphenyl (Fractionation) | 40-140 | 40-140 | |
| 2-Bromonaphthalene (fractionation) | 40-140 | 40-140 | |

analytics environmental laboratory LLC

# PCB
# DATA SUMMARIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCB.doc

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74875-1 |
| **Matrix:** | Solid |
| **Percent Solid:** | 79 |
| **Dilution Factor:** | 24 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-225 (4-6') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 792 | U |
| PCB-1221 | 792 | U |
| PCB-1232 | 792 | U |
| PCB-1242 | 792 | U |
| PCB-1248 | 792 | U |
| PCB-1254 | 792 | U |
| PCB-1260 | 792 | **17600** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74875
Sample: 74875-1,1:20,,A/C
Data File: M67505.D
Dilution Factor: 24.2

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 17595 | 15559 | 12.3 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

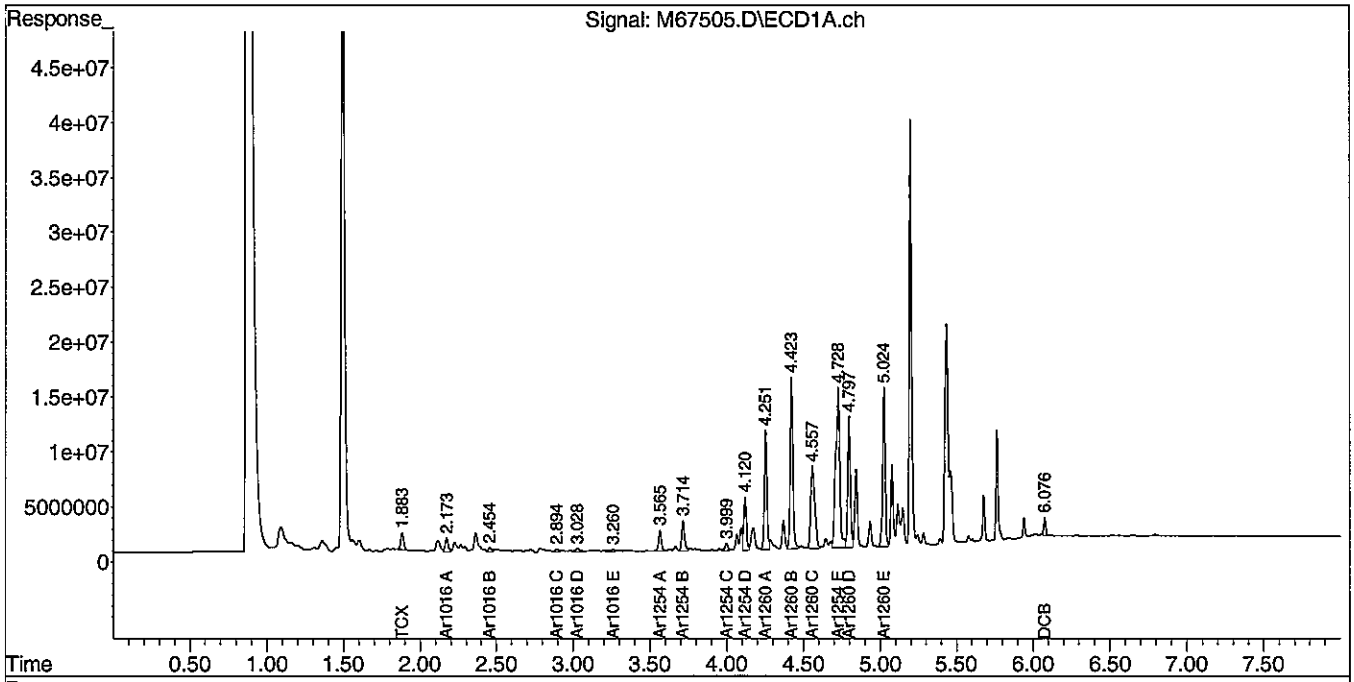
Comments: _____

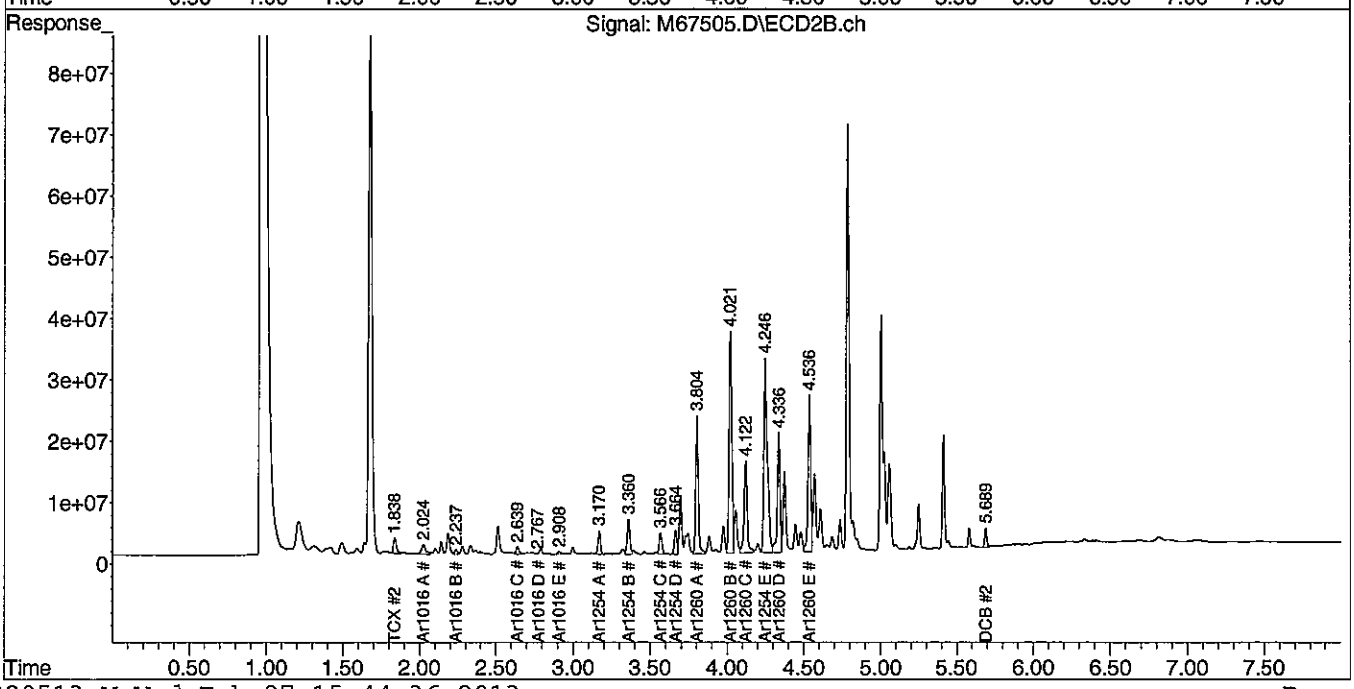
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022713-M\
Data File : M67505.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 1:39 pm
Operator : JK
Sample : 74875-1,1:20,,A/C
Misc : SOIL
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:44:29 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

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603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74875-2 |
| **Matrix:** | Solid |
| **Percent Solid:** | 94 |
| **Dilution Factor:** | 21 |
| **Collection Date:** | 02/19/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-225 (6-7.5') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 693 | U |
| PCB-1221 | 693 | U |
| PCB-1232 | 693 | U |
| PCB-1242 | 693 | U |
| PCB-1248 | 693 | U |
| PCB-1254 | 693 | U |
| PCB-1260 | 693 | **10900** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74875
Sample: 74875-2,1:20,,A/C
Data File: M67506.D
Dilution Factor: 21.2

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 10891 | 9752 | 11.0 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

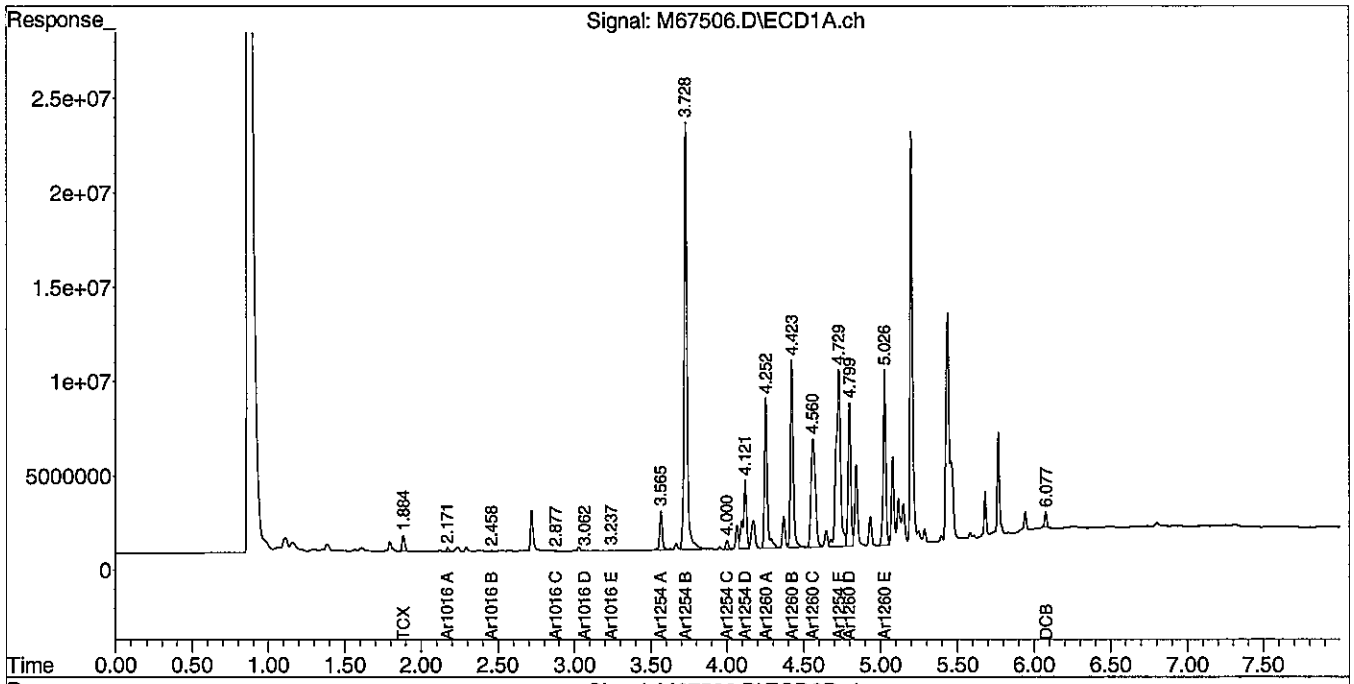
Comments: _____

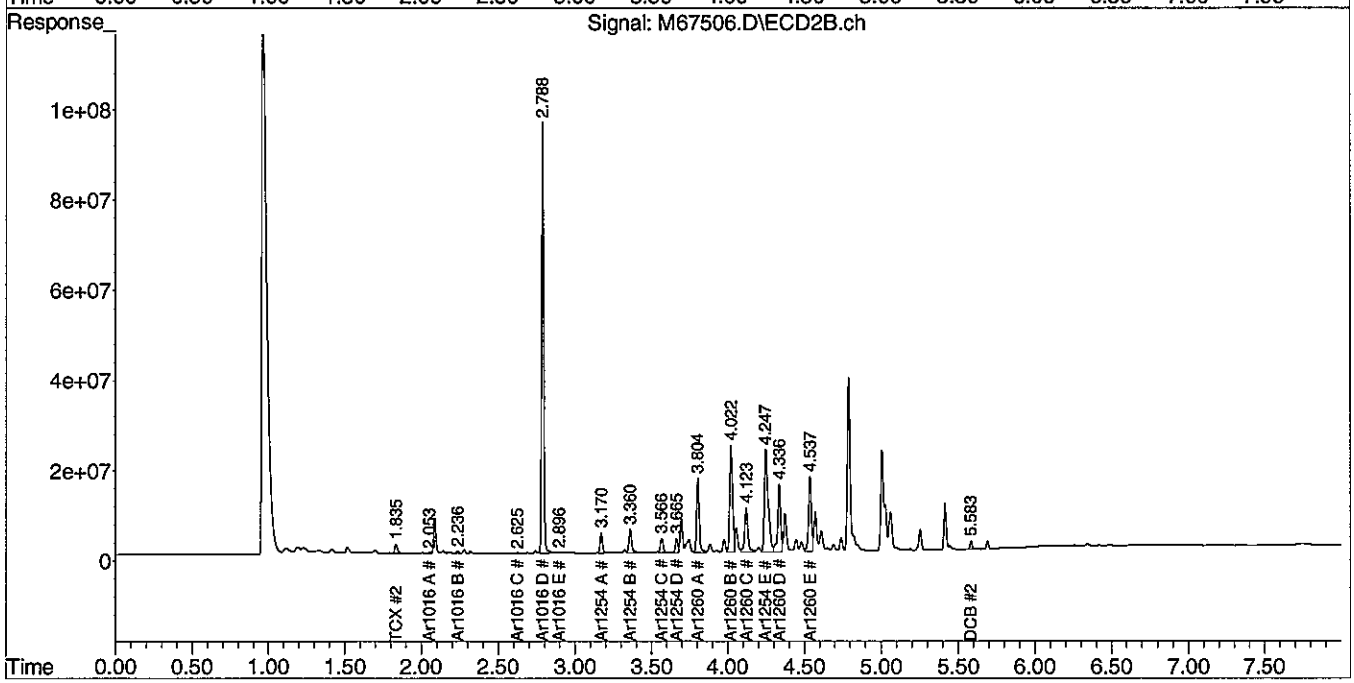
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022713-M\
Data File : M67506.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 1:49 pm
Operator : JK
Sample : 74875-2,1:20,,A/C
Misc : SOIL
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:42:25 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74875-3 |
| **Matrix:** | Solid |
| **Percent Solid:** | 81 |
| **Dilution Factor:** | 1230 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-226 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 40600 | U |
| PCB-1221 | 40600 | U |
| PCB-1232 | 40600 | U |
| PCB-1242 | 40600 | U |
| PCB-1248 | 40600 | U |
| PCB-1254 | 40600 | U |
| PCB-1260 | 40600 | **631000** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74875
Sample: 74875-3,1:1000,,A/C
Data File: M67526.D
Dilution Factor: 1228.1

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 631090 | 577563 | 8.9 | |

# Column to be used to flag RPD values greater than QC limit of 40%
* Values outside QC limits

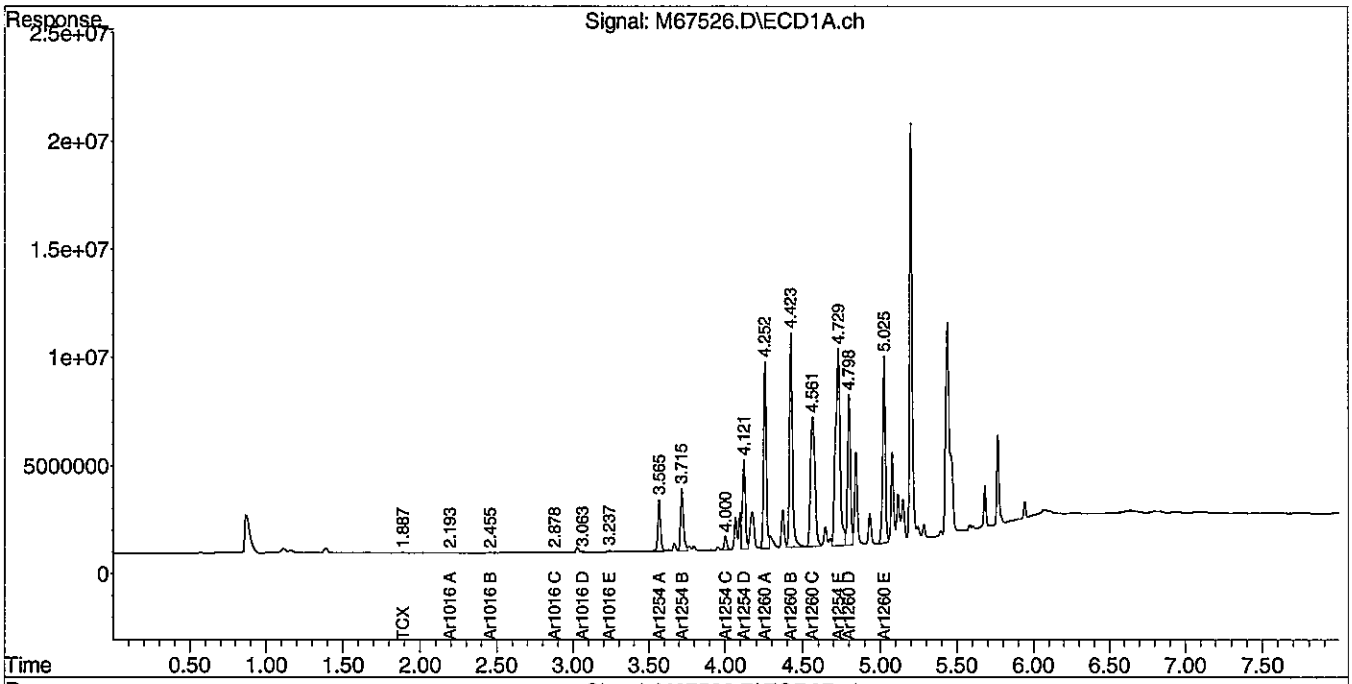
Comments: _____

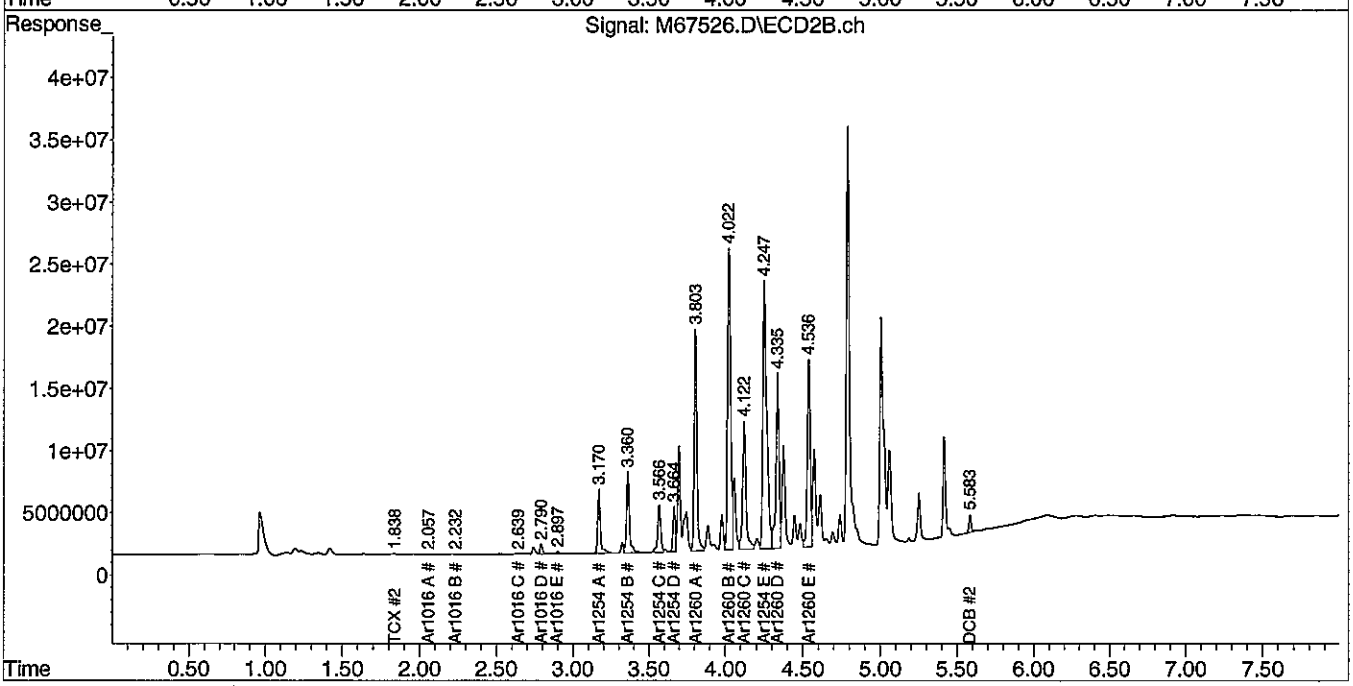
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022713-M\
Data File : M67526.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 5:11 pm
Operator : JK
Sample : 74875-3,1:1000,,A/C
Misc : SOIL
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 17:31:03 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74875-4 |
| **Matrix:** | Solid |
| **Percent Solid:** | 85 |
| **Dilution Factor:** | 23600 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-226 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 779000 | U |
| PCB-1221 | 779000 | U |
| PCB-1232 | 779000 | U |
| PCB-1242 | 779000 | U |
| PCB-1248 | 779000 | U |
| PCB-1254 | 779000 | U |
| PCB-1260 | 779000 | **9660000** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74875
Sample: 74875-4,1:20000,,A/C
Data File: M67527.D
Dilution Factor: 23589.2

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 9662352 | 8687004 | 10.6 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

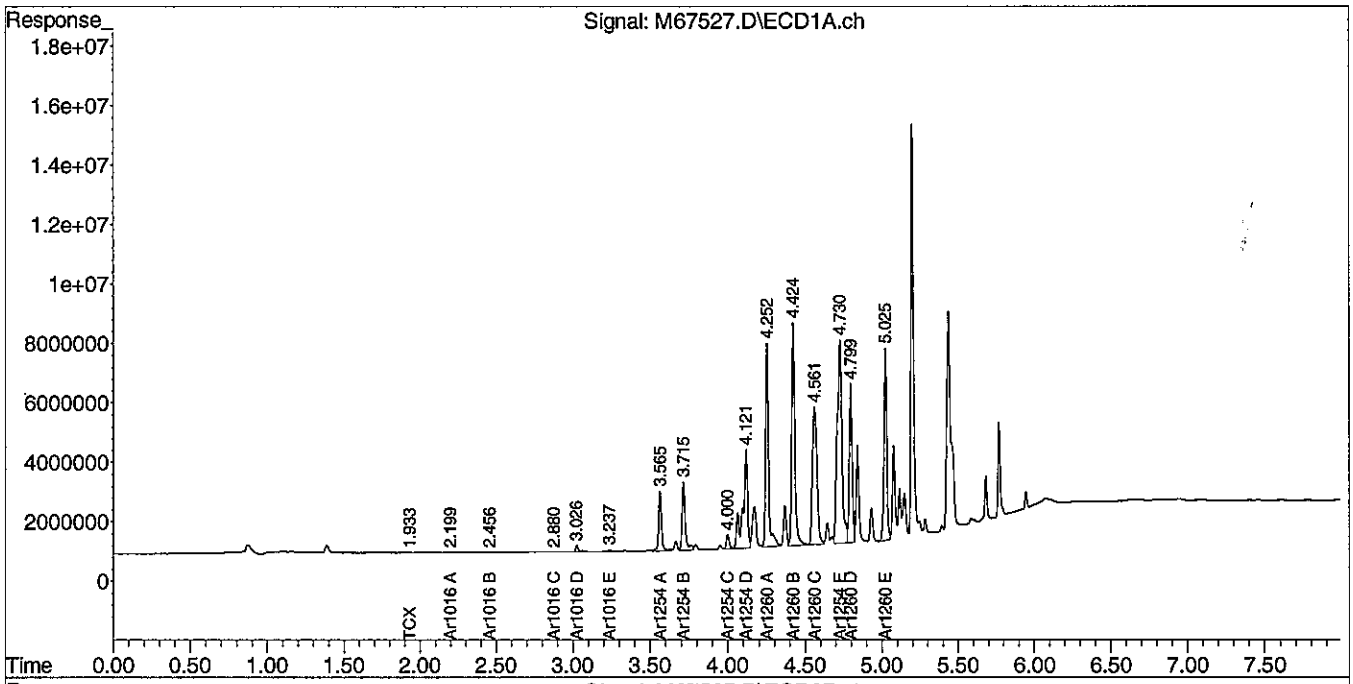
Comments: _____

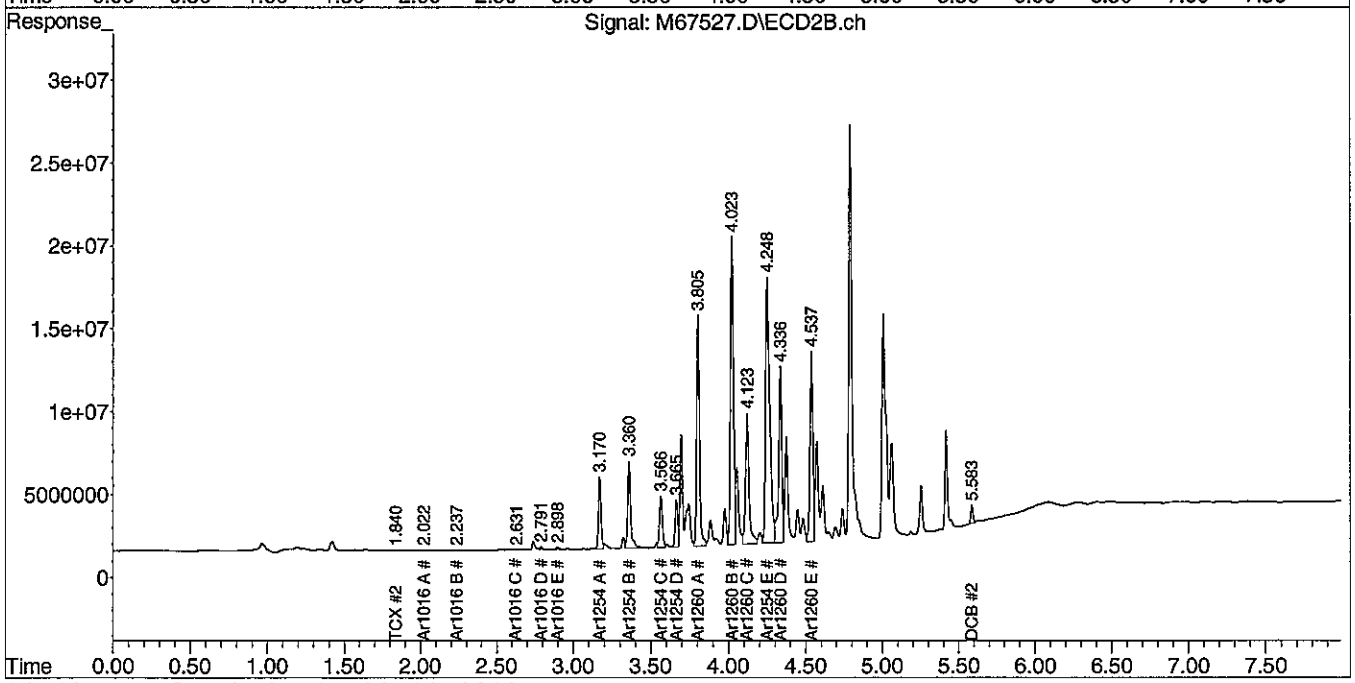
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022713-M\
Data File : M67527.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 5:21 pm
Operator : JK
Sample : 74875-4,1:20000,,A/C
Misc : SOIL
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 17:32:03 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74875-5 |
| **Matrix:** | Solid |
| **Percent Solid:** | 84 |
| **Dilution Factor:** | 5900 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-226 (4-5') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 195000 | U |
| PCB-1221 | 195000 | U |
| PCB-1232 | 195000 | U |
| PCB-1242 | 195000 | U |
| PCB-1248 | 195000 | U |
| PCB-1254 | 195000 | U |
| PCB-1260 | 195000 | **3650000** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74875
Sample: 74875-5,1:5000,,A/C
Data File: M67528.D
Dilution Factor: 5902.7

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 3645900 | 3288138 | 10.3 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

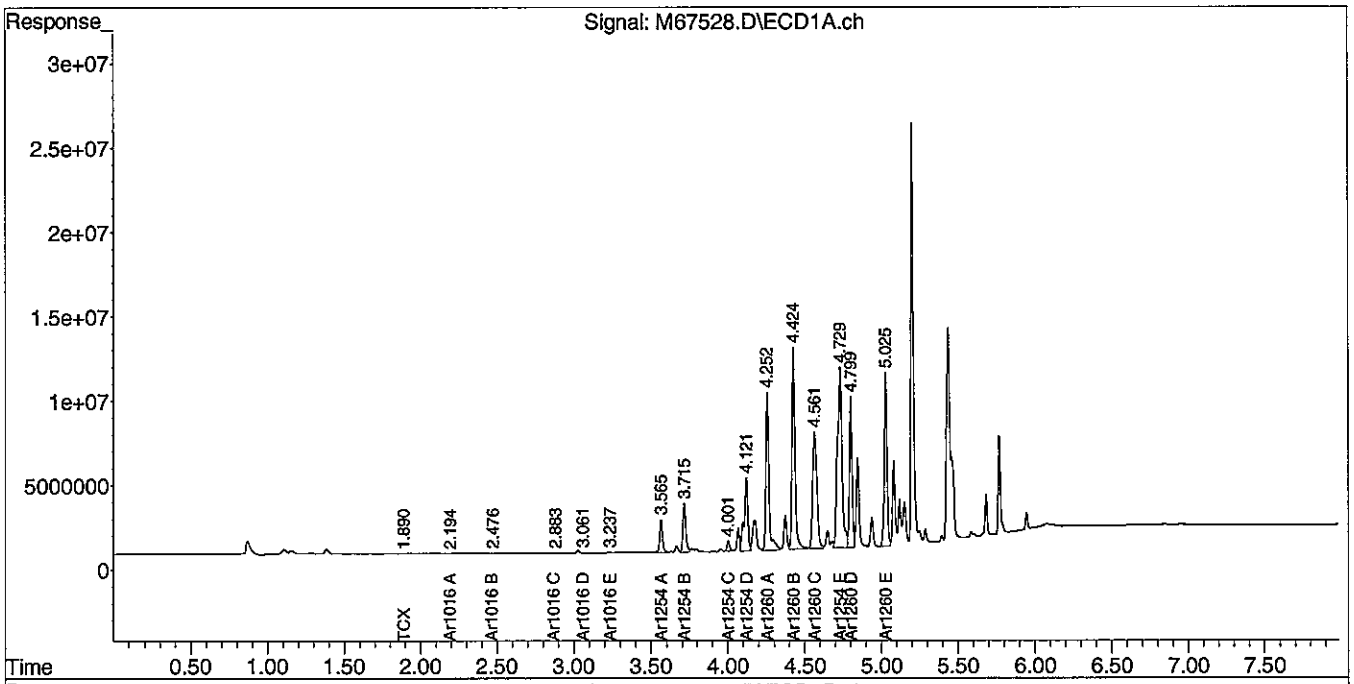
Comments: _____

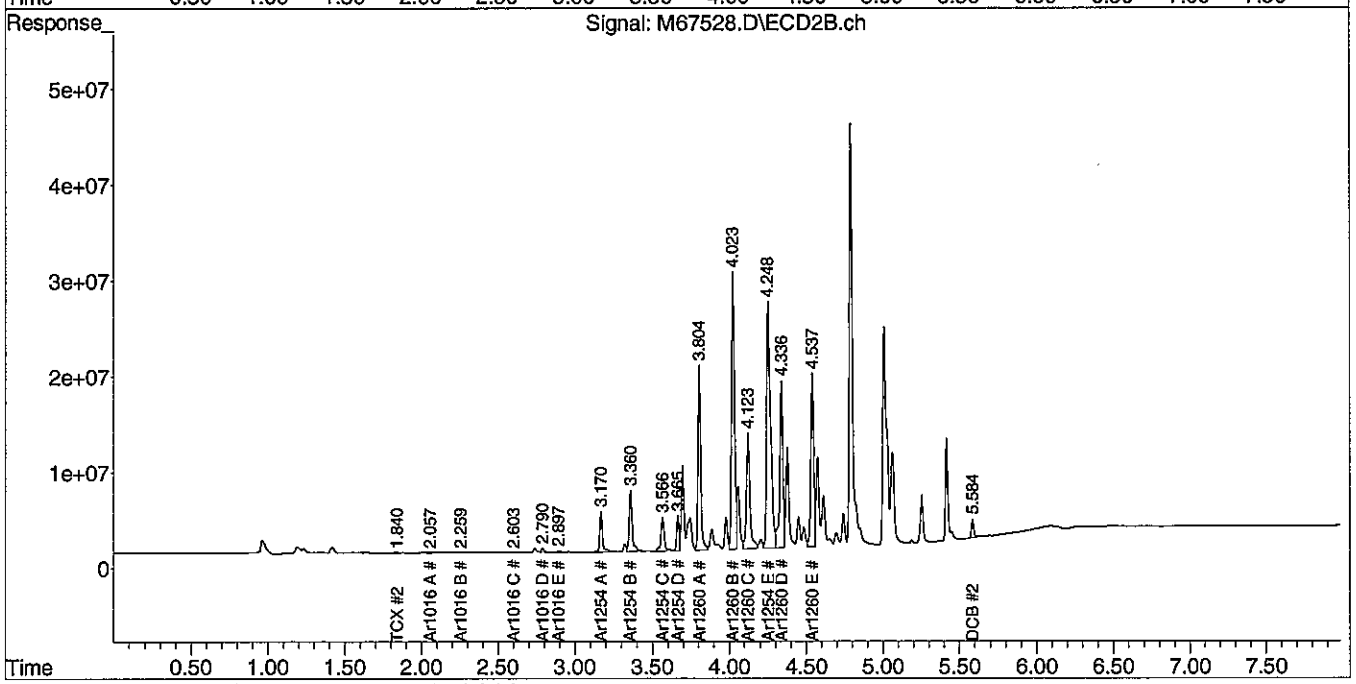
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022713-M\
Data File : M67528.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 5:31 pm
Operator : JK
Sample : 74875-5,1:5000,,A/C
Misc : SOIL
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 17:40:39 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74875-6 |
| **Matrix:** | Solid |
| **Percent Solid:** | 87 |
| **Dilution Factor:** | 108 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-232 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 3560 | U |
| PCB-1221 | 3560 | U |
| PCB-1232 | 3560 | U |
| PCB-1242 | 3560 | U |
| PCB-1248 | 3560 | U |
| PCB-1254 | 3560 | U |
| PCB-1260 | 3560 | **55300** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74875
Sample: 74875-6,1:100,,A/C
Data File: M67510.D
Dilution Factor: 108.1

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 55298 | 50450 | 9.2 | |

# Column to be used to flag RPD values greater than QC limit of 40%

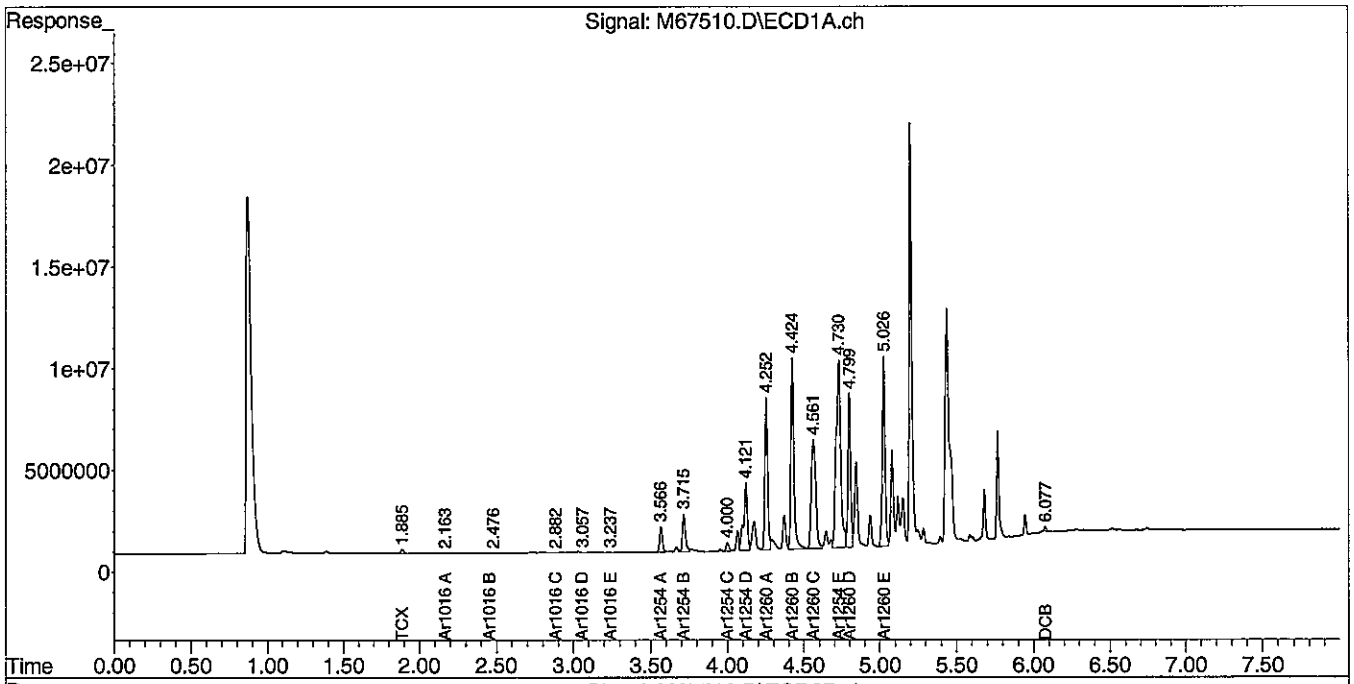
* Values outside QC limits

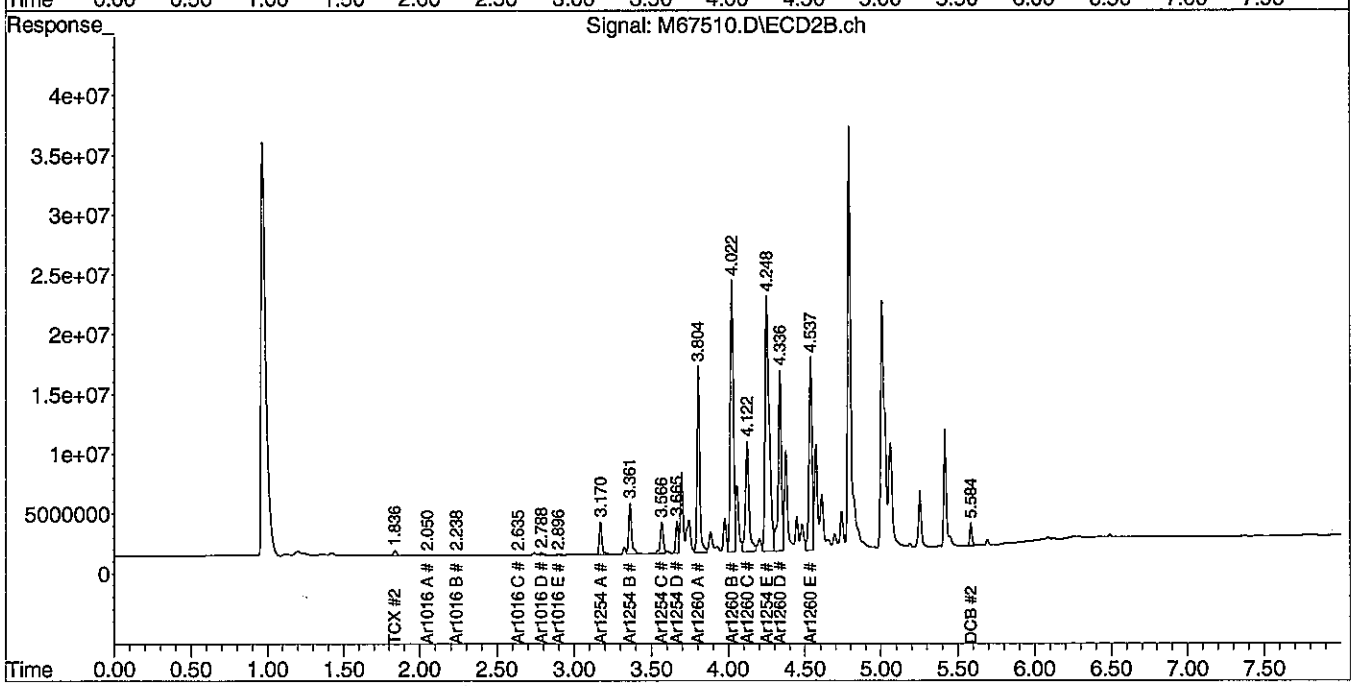
Comments: _____

Data Path : C:\msdchem\1\DATA\022713-M\
Data File : M67510.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 2:29 pm
Operator : JK
Sample : 74875-6,1:100,,A/C
Misc : SOIL
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:42:33 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74875-7 |
| **Matrix:** | Solid |
| **Percent Solid:** | 86 |
| **Dilution Factor:** | 6 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-232A (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 198 | U |
| PCB-1221 | 198 | U |
| PCB-1232 | 198 | U |
| PCB-1242 | 198 | U |
| PCB-1248 | 198 | U |
| PCB-1254 | 198 | U |
| PCB-1260 | 198 | **4490** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 123 | % |
| Decachlorobiphenyl | 102 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74875
Sample: 74875-7,1:5,,A/C
Data File: M67511.D
Dilution Factor: 5.8

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 4486 | 3825 | 15.9 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

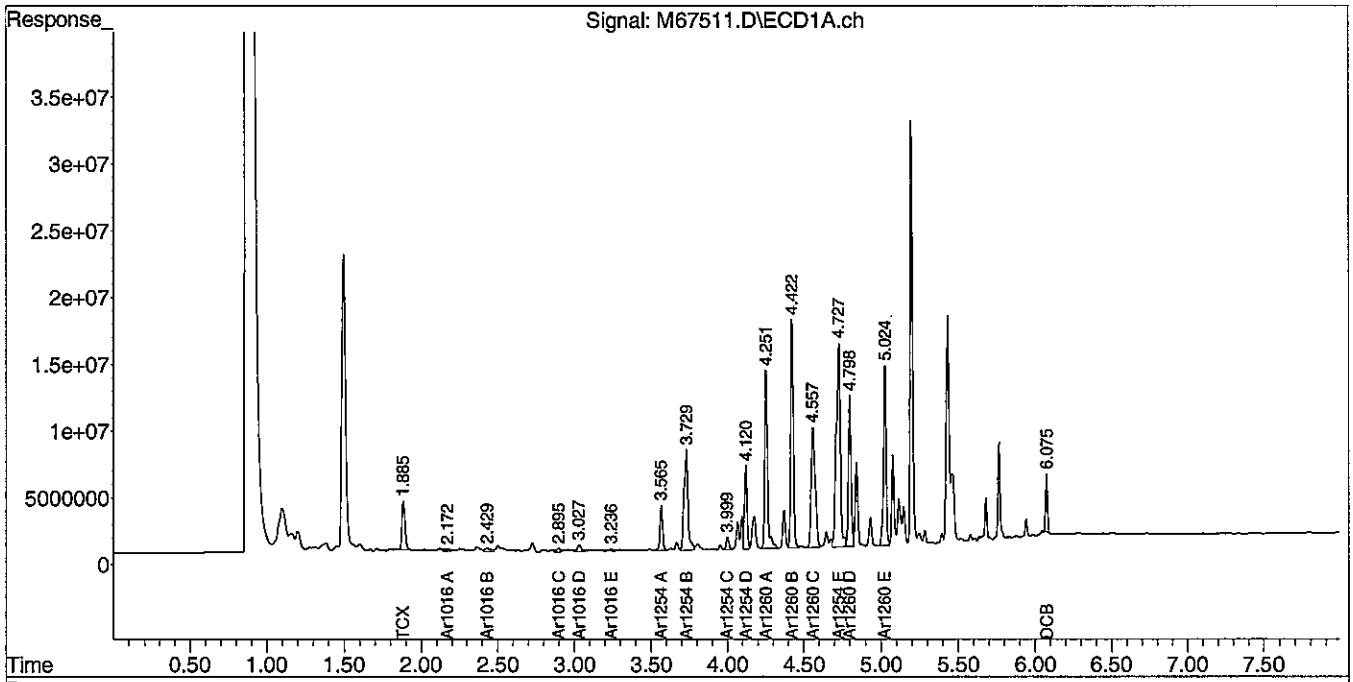
Comments: _____

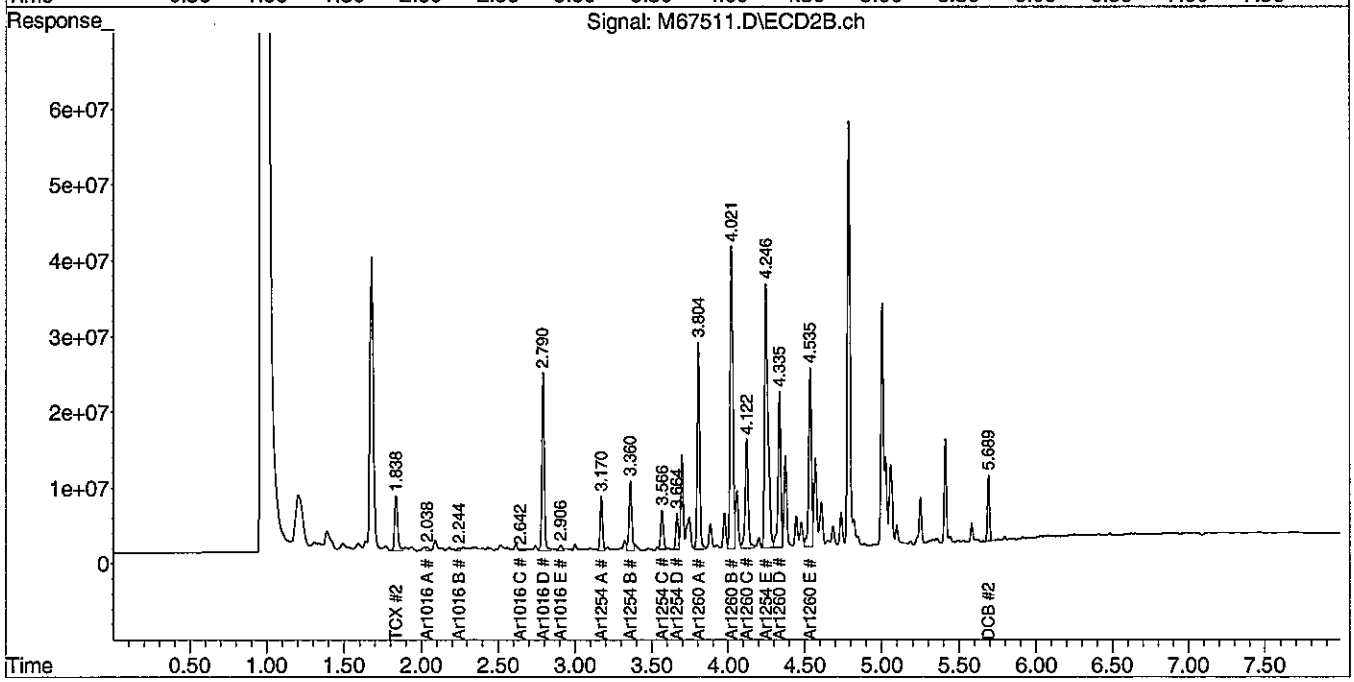
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022713-M\
Data File : M67511.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 2:39 pm
Operator : JK
Sample : 74875-7,1:5,,A/C
Misc : SOIL
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 16:24:35 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74875-8 |
| **Matrix:** | Solid |
| **Percent Solid:** | 81 |
| **Dilution Factor:** | 6 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-232A (4-6') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 198 | U |
| PCB-1221 | 198 | U |
| PCB-1232 | 198 | U |
| PCB-1242 | 198 | U |
| PCB-1248 | 198 | U |
| PCB-1254 | 198 | U |
| PCB-1260 | 198 | **4340** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 98 | % |
| Decachlorobiphenyl | 62 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74875
Sample: 74875-8,1:5,,A/C
Data File: M67514.D
Dilution Factor: 6.1

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 4343 | 3695 | 16.1 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

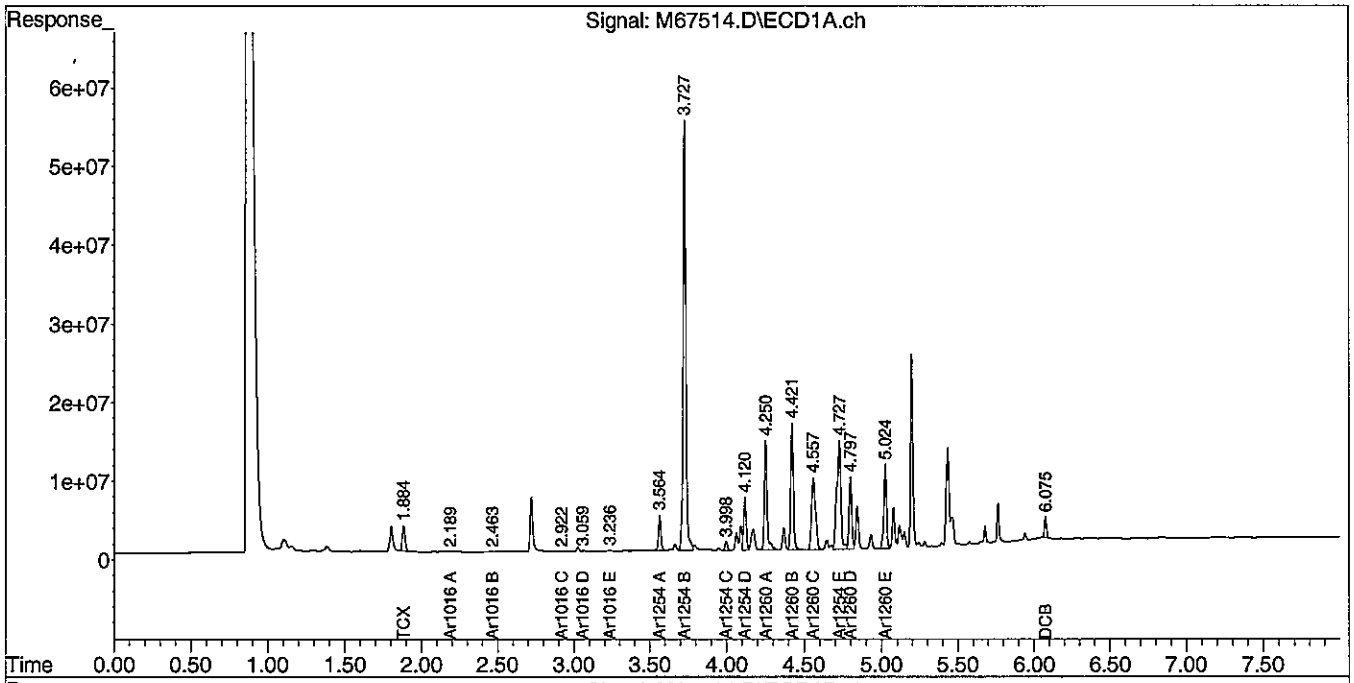
Comments: _____

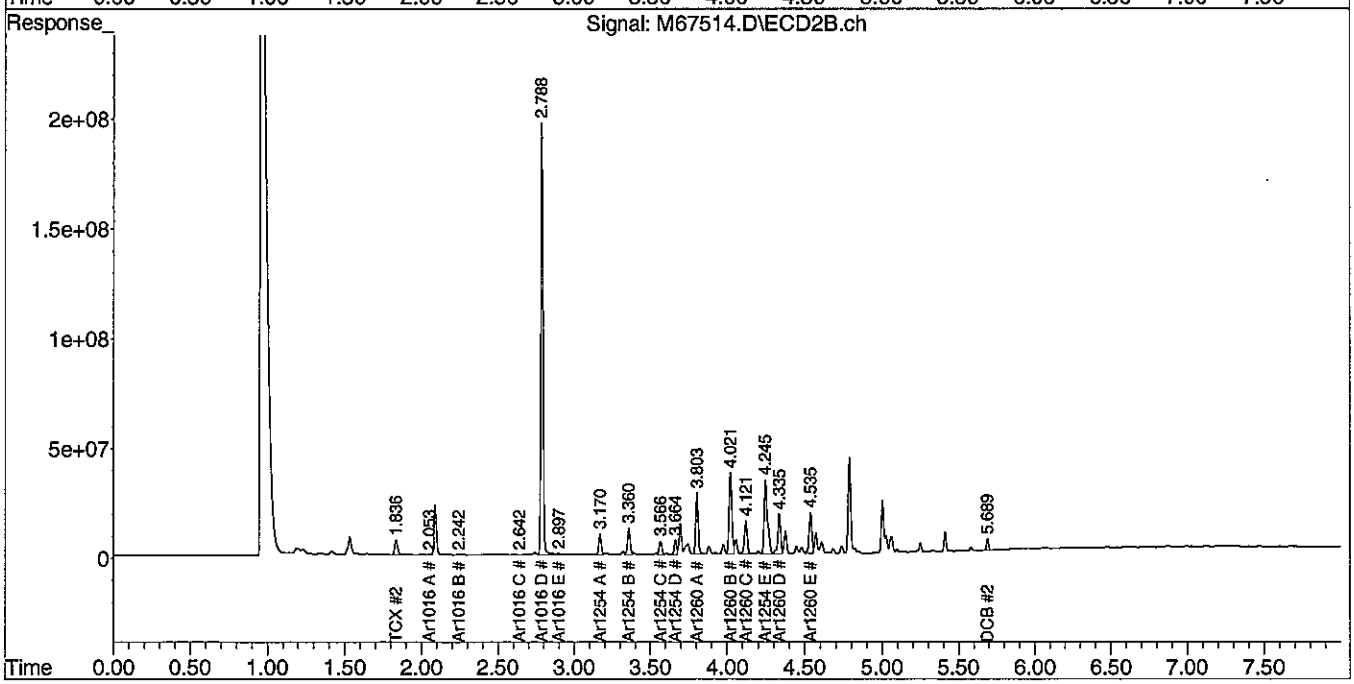
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022713-M\
Data File : M67514.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 3:09 pm
Operator : JK
Sample : 74875-8,1:5,,A/C
Misc : SOIL
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:42:41 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74875-9 |
| **Matrix:** | Solid |
| **Percent Solid:** | 78 |
| **Dilution Factor:** | 6 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-232A (6-8') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 198 | U |
| PCB-1221 | 198 | U |
| PCB-1232 | 198 | U |
| PCB-1242 | 198 | U |
| PCB-1248 | 198 | U |
| PCB-1254 | 198 | U |
| PCB-1260 | 198 | **5090** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 99 | % |
| Decachlorobiphenyl | 67 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74875
Sample: 74875-9,1:5,,A/C
Data File: M67515.D
Dilution Factor: 6.2

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 5091 | 4104 | 21.5 | |

# Column to be used to flag RPD values greater than QC limit of 40%

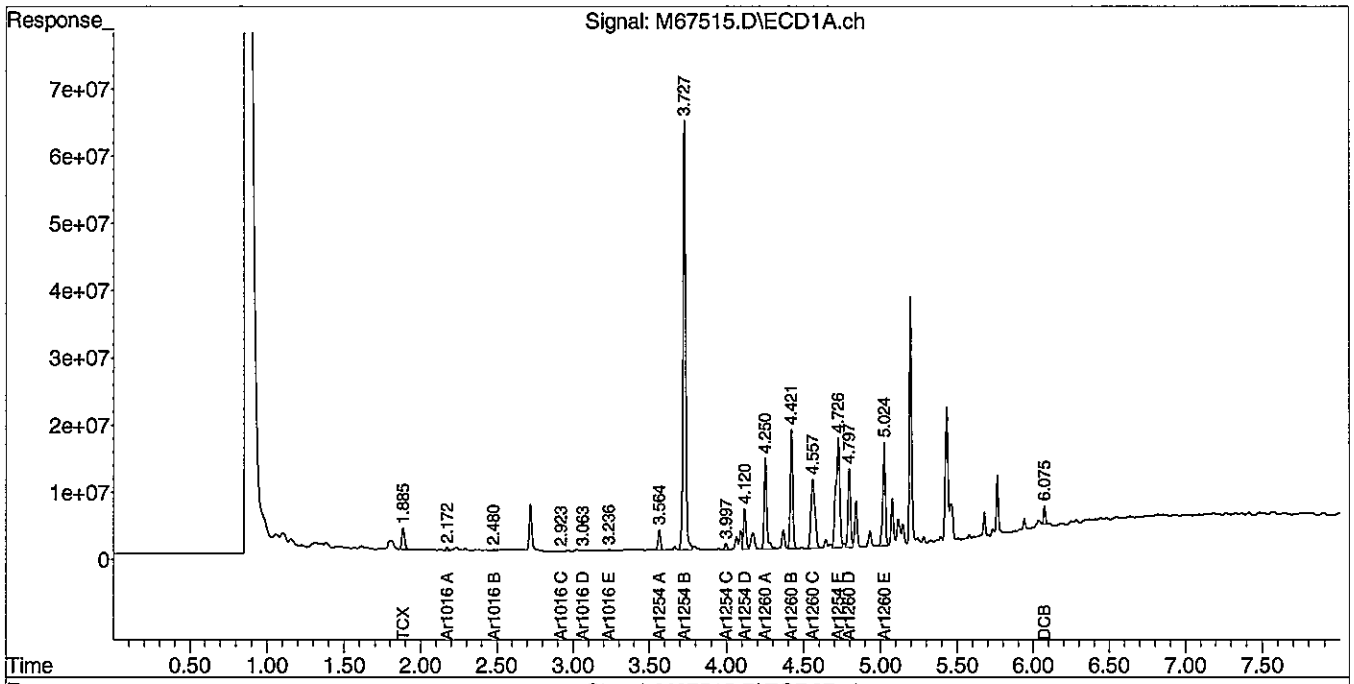
* Values outside QC limits

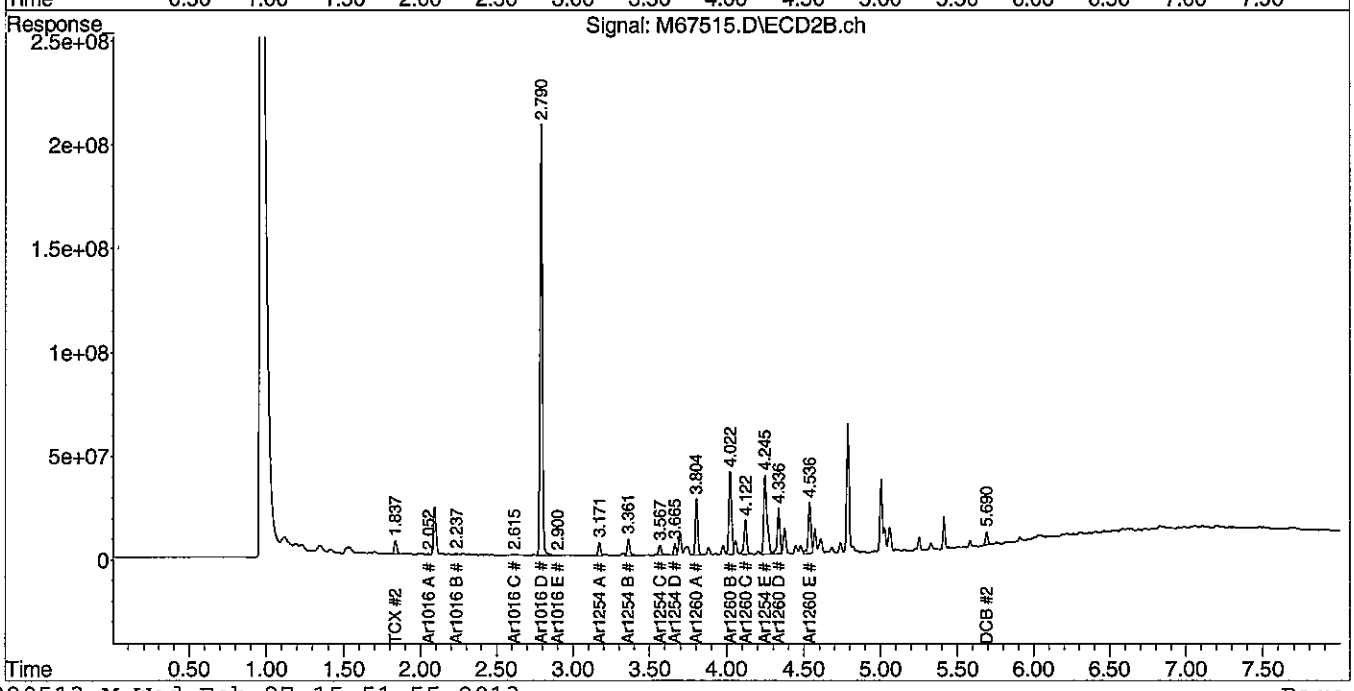
Comments: _____

Data Path : C:\msdchem\1\DATA\022713-M\
Data File : M67515.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 3:19 pm
Operator : JK
Sample : 74875-9,1:5,,A/C
Misc : SOIL
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:42:43 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74875-10 |
| **Matrix:** | Solid |
| **Percent Solid:** | 89 |
| **Dilution Factor:** | 1.1 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-232A (8-10') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 36 | U |
| PCB-1221 | 36 | U |
| PCB-1232 | 36 | U |
| PCB-1242 | 36 | U |
| PCB-1248 | 36 | U |
| PCB-1254 | 36 | U |
| PCB-1260 | 36 | **241** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 101 | % |
| Decachlorobiphenyl | 76 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74875
Sample: 74875-10,,A/C
Data File: M67516.D
Dilution Factor: 1.1

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 241 | 202 | 17.8 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

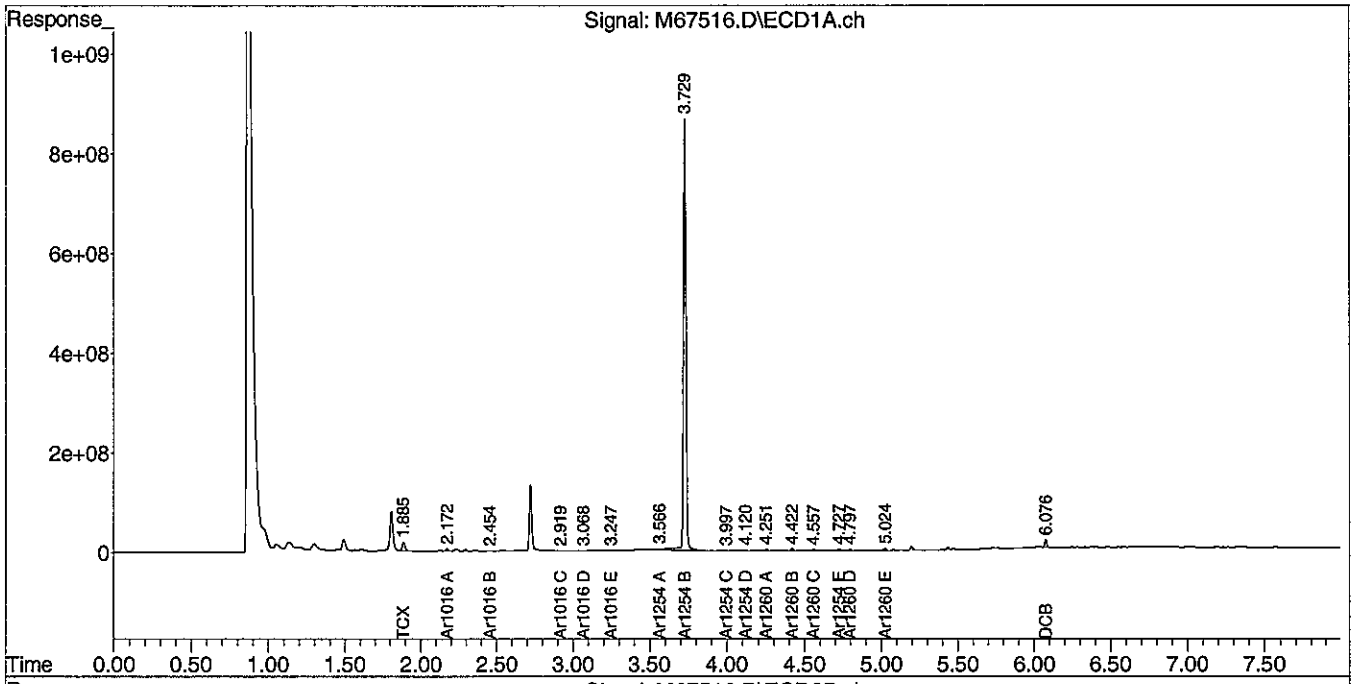
Comments: _____

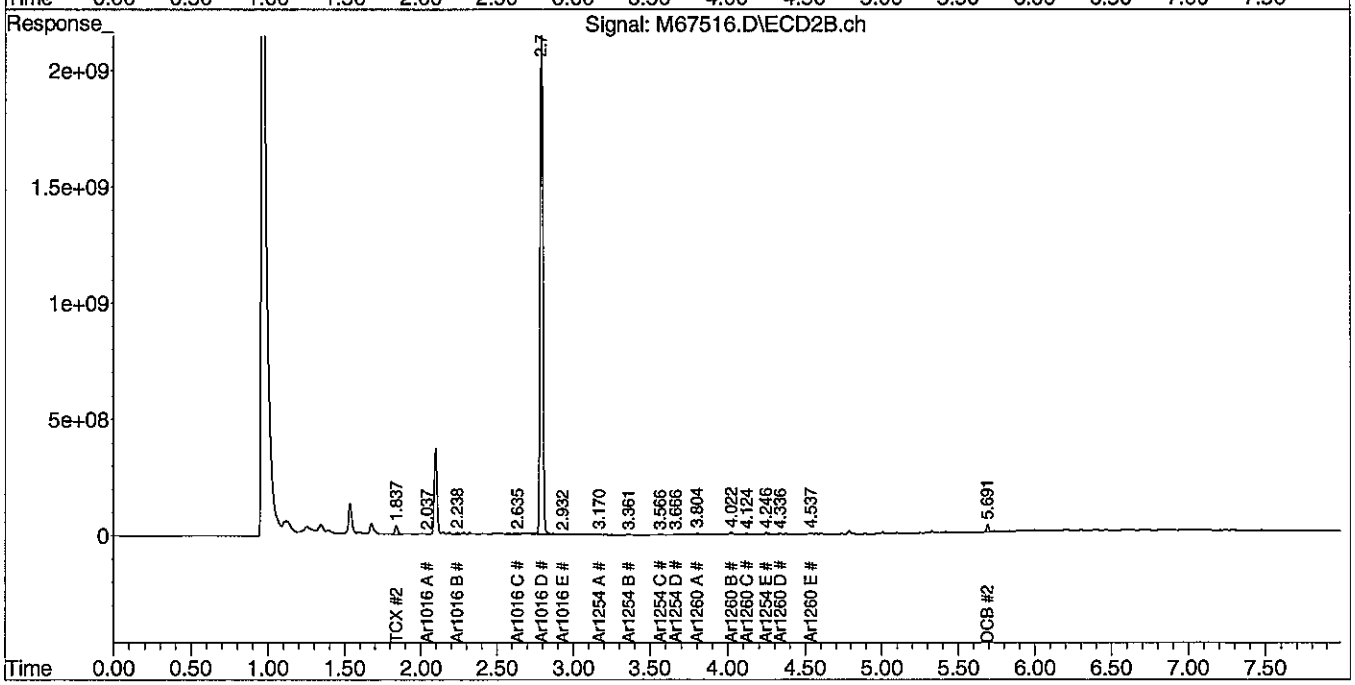
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022713-M\
Data File : M67516.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 3:30 pm
Operator : JK
Sample : 74875-10,,A/C
Misc : SOIL
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:42:45 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74875-11 |
| **Matrix:** | Solid |
| **Percent Solid:** | 80 |
| **Dilution Factor:** | 12 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-233 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 396 | U |
| PCB-1221 | 396 | U |
| PCB-1232 | 396 | U |
| PCB-1242 | 396 | U |
| PCB-1248 | 396 | U |
| PCB-1254 | 396 | U |
| PCB-1260 | 396 | **6300** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 98 | % |
| Decachlorobiphenyl | 108 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74875
Sample: 74875-11,1:10,,A/C
Data File: M67517.D
Dilution Factor: 12.2

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 6304 | 5298 | 17.3 | |

# Column to be used to flag RPD values greater than QC limit of 40%

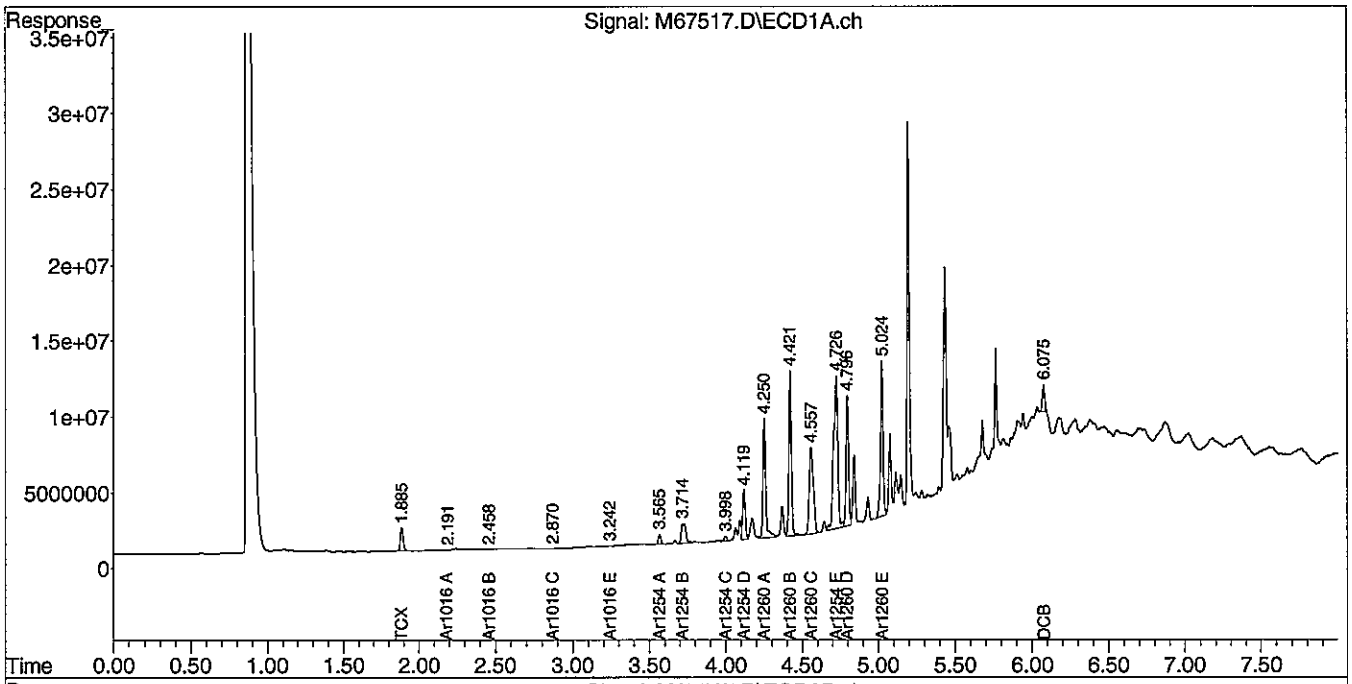
* Values outside QC limits

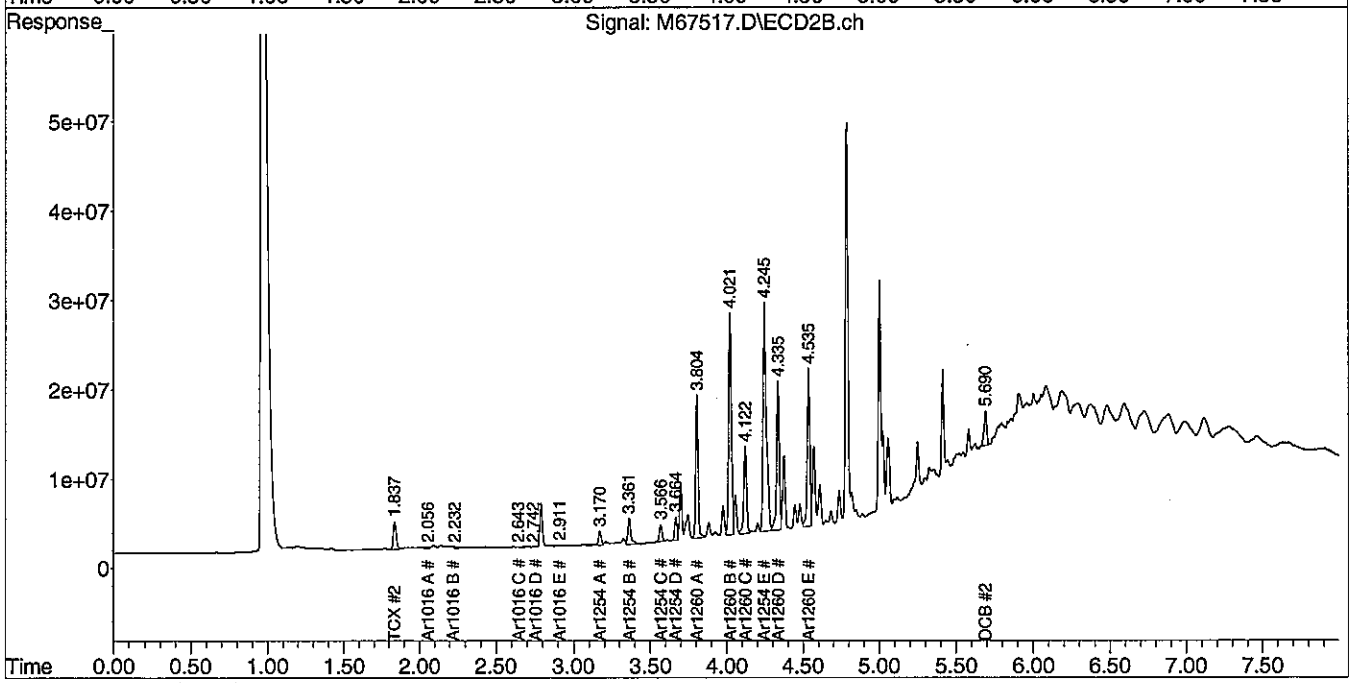
Comments: _____

Data Path : C:\msdchem\1\DATA\022713-M\
Data File : M67517.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 3:40 pm
Operator : JK
Sample : 74875-11,1:10,,A/C
Misc : SOIL
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 16:32:50 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74875-12 |
| **Matrix:** | Solid |
| **Percent Solid:** | 90 |
| **Dilution Factor:** | 1.0 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-233 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | **1020** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 96 | % |
| Decachlorobiphenyl | 100 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74875
Sample: 74875-12,,A/C
Data File: M67518.D
Dilution Factor: 1.0

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 1022 | 865 | 16.6 | |

# Column to be used to flag RPD values greater than QC limit of 40%

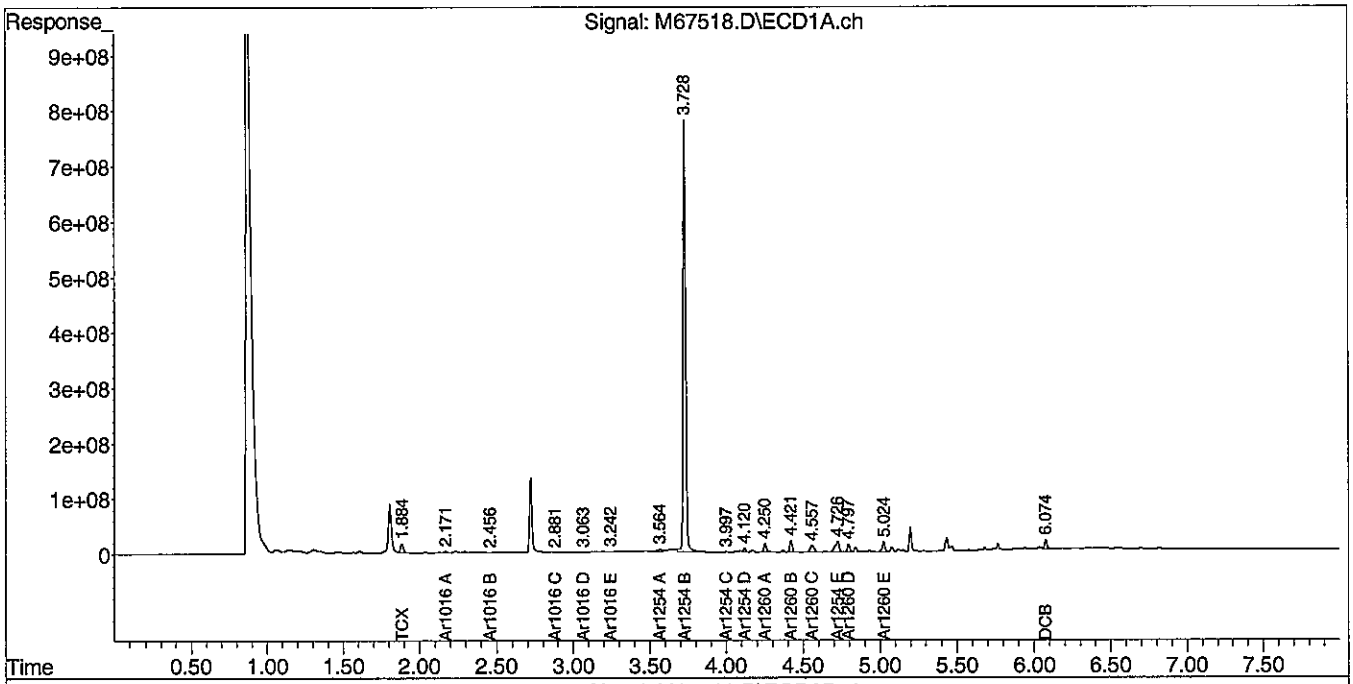
* Values outside QC limits

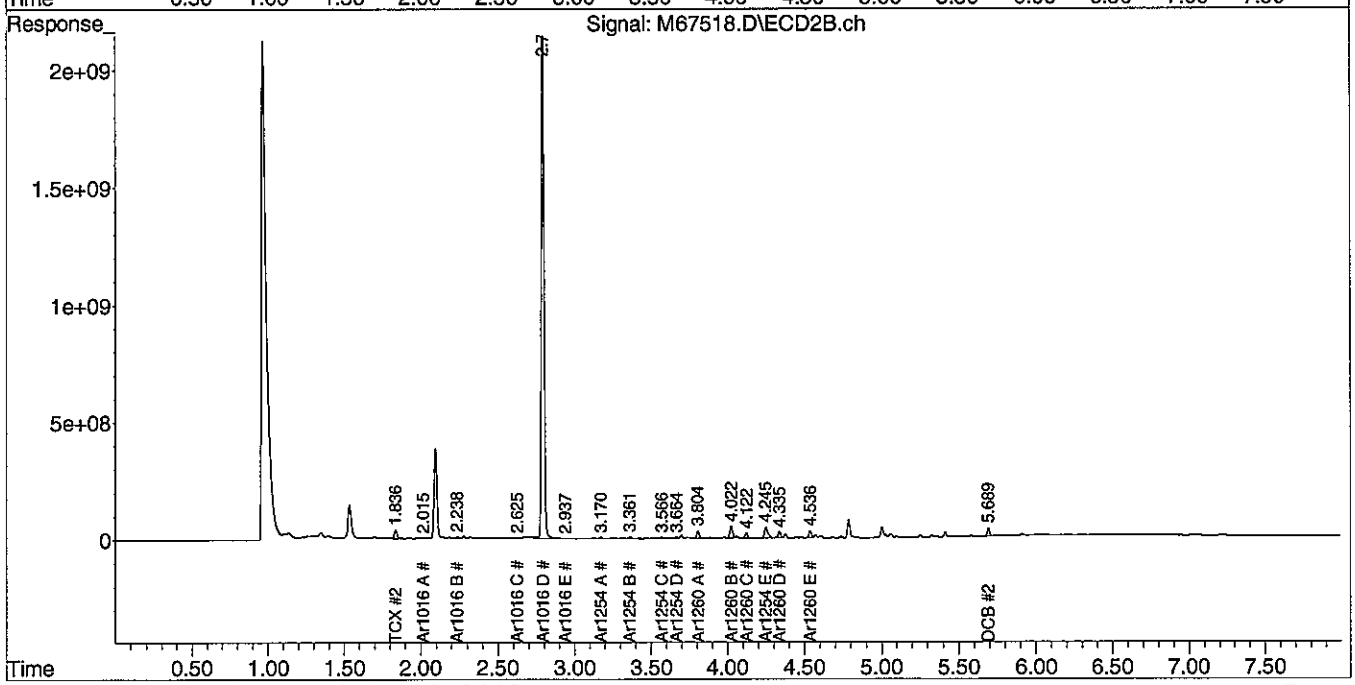
Comments: _____

Data Path : C:\msdchem\1\DATA\022713-M\
Data File : M67518.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 3:50 pm
Operator : JK
Sample : 74875-12,,A/C
Misc : SOIL
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 16:02:02 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74875-13 |
| **Matrix:** | Solid |
| **Percent Solid:** | 91 |
| **Dilution Factor:** | 1.0 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-233 (4-6') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | **267** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 106 | % |
| Decachlorobiphenyl | 78 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74875
Sample: 74875-13,,A/C
Data File: M67519.D
Dilution Factor: 1.0

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 267 | 229 | 15.3 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

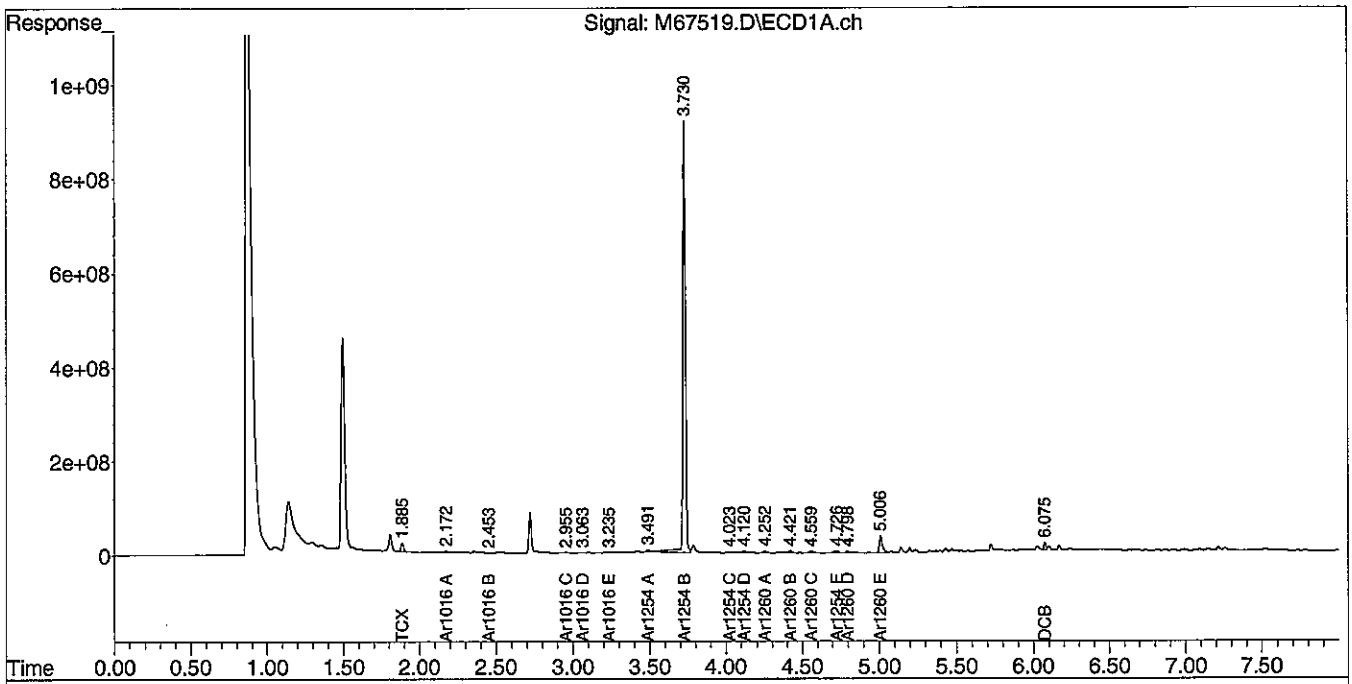
Comments: _____

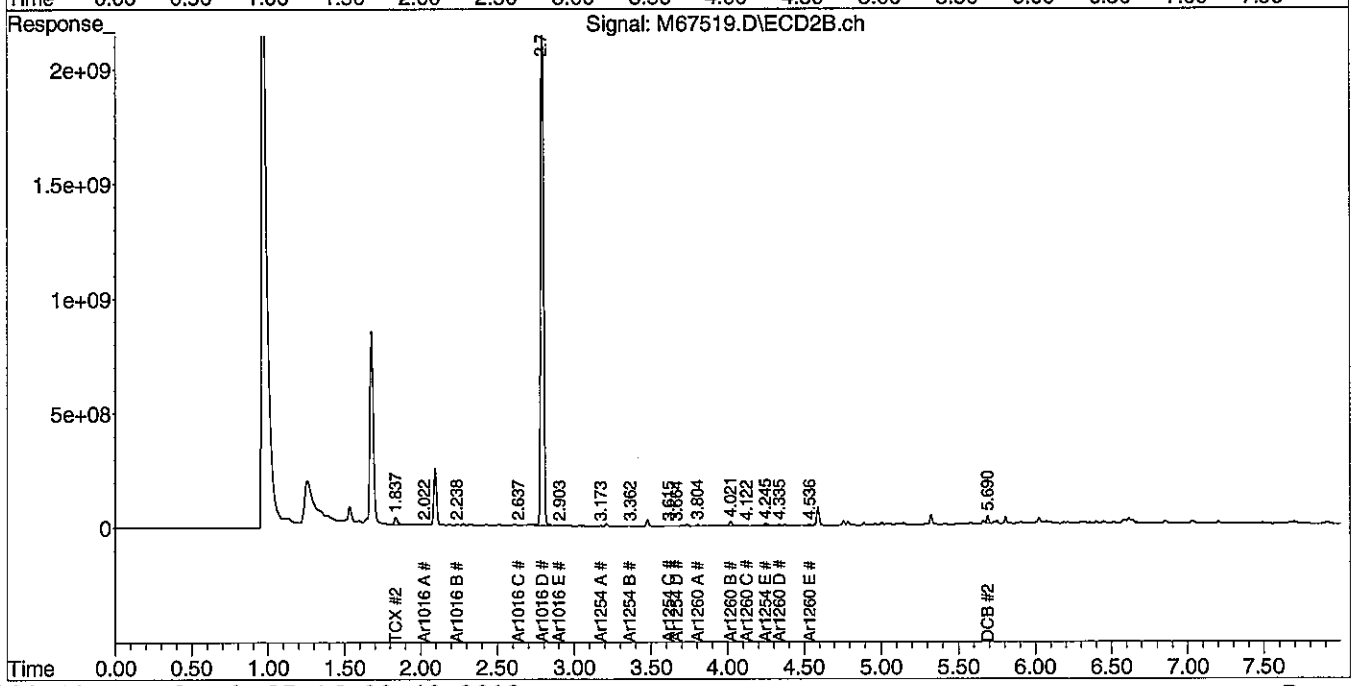
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022713-M\
Data File : M67519.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 4:00 pm
Operator : JK
Sample : 74875-13,,A/C
Misc : SOIL
ALS Vial : 22 Sample Multiplier: 1

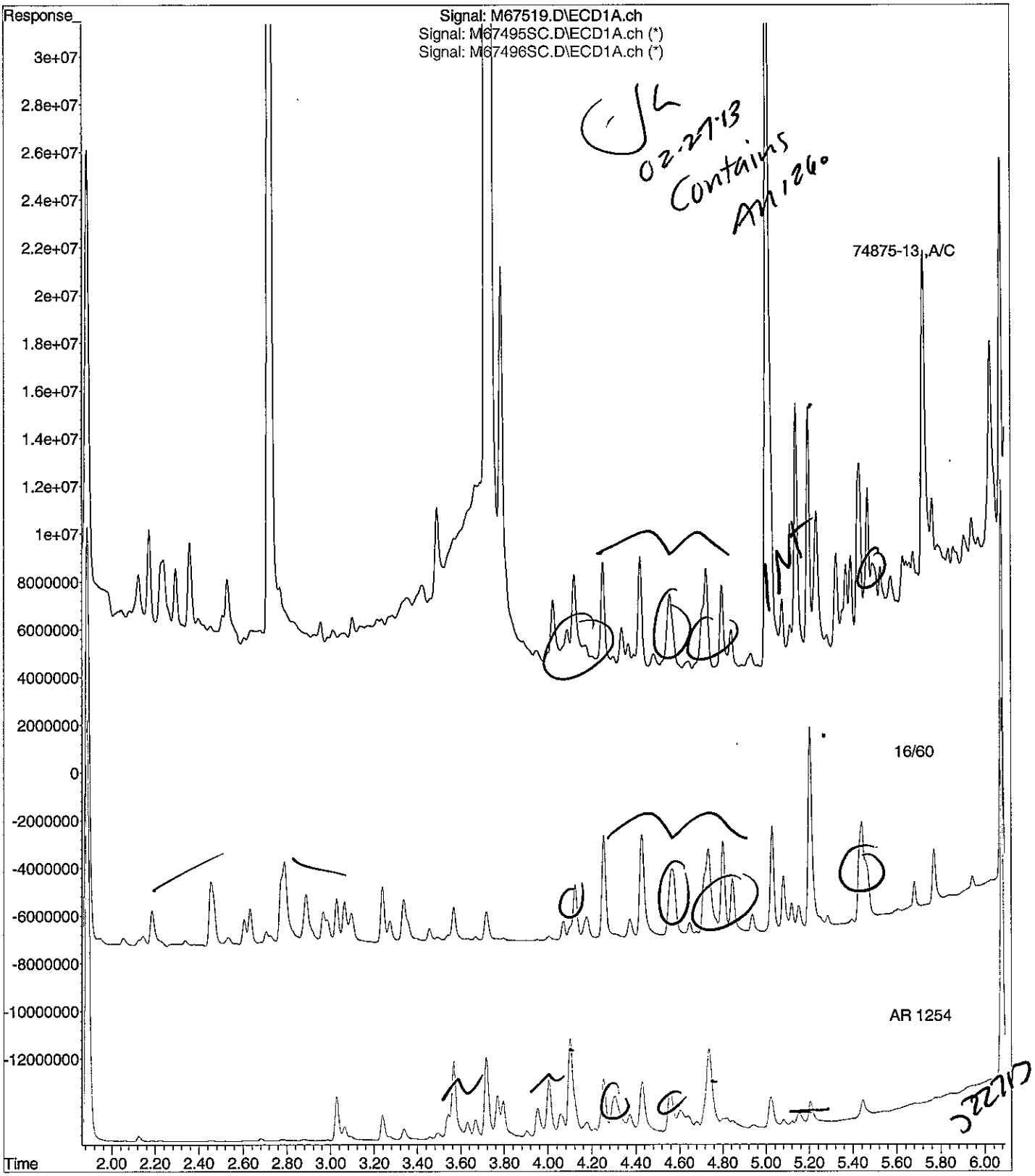
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 16:09:38 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\022713-M\M67519.D
Operator : JK
Acquired : 27 Feb 2013 4:00 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 74875-13,,A/C
Misc Info : SOIL
Vial Number: 22



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74875-14 |
| **Matrix:** | Solid |
| **Percent Solid:** | 89 |
| **Dilution Factor:** | 1.0 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-233 (6-8') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | **404** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 93 | % |
| Decachlorobiphenyl | 88 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG:
Sample: 74875-14,,A/C
Data File: M67520.D
Dilution Factor: 1.0

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 404 | 364 | 10.3 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

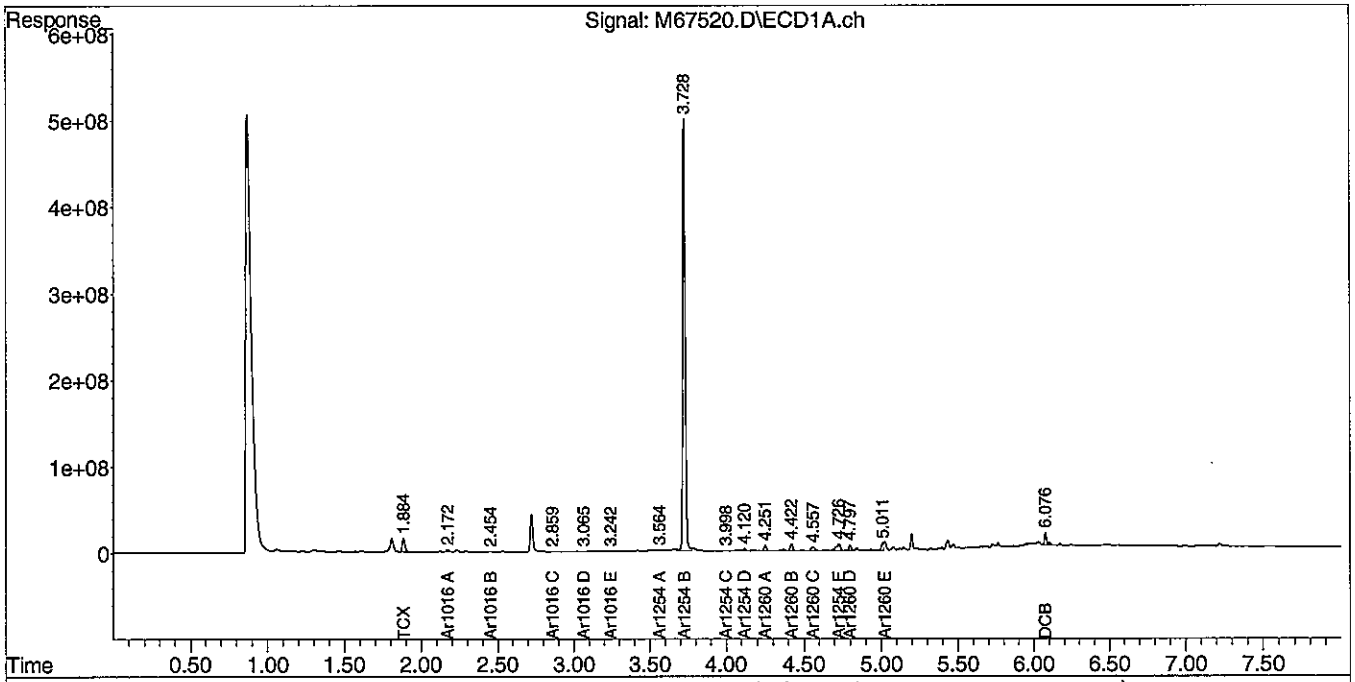
Comments: _____

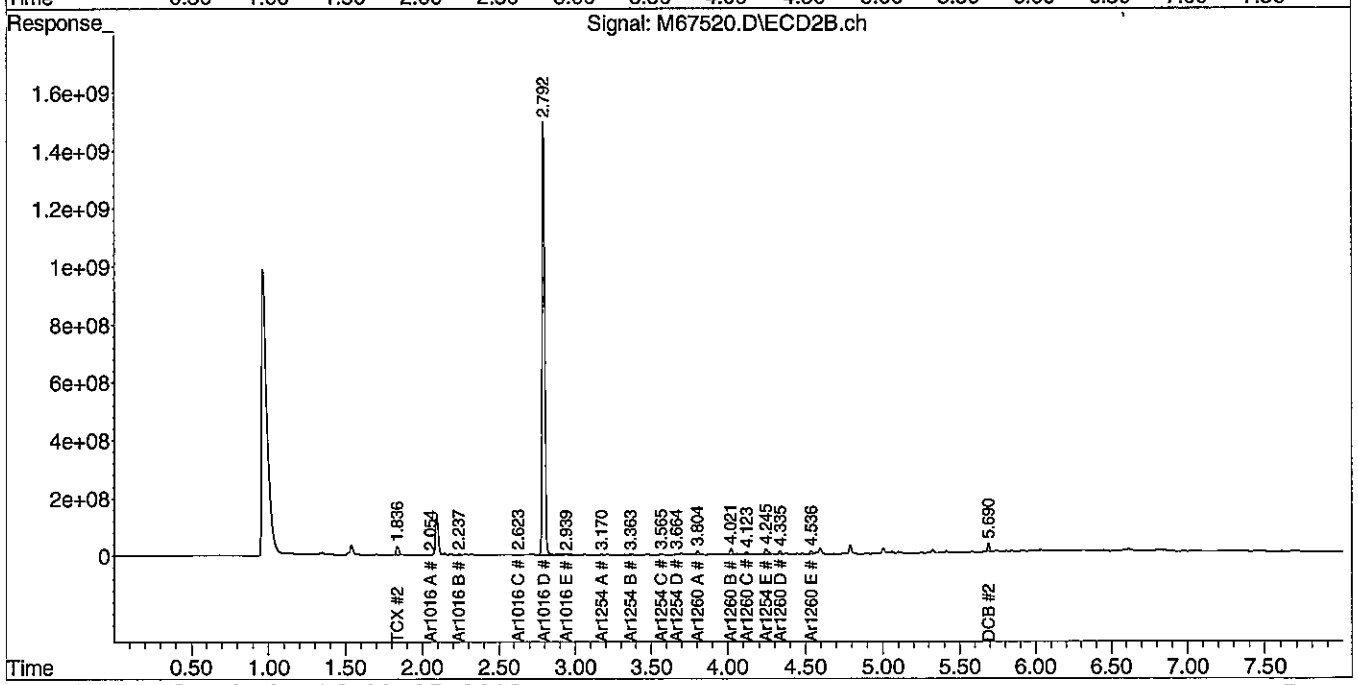
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022713-M\
Data File : M67520.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 4:10 pm
Operator : JK
Sample : 74875-14,,A/C
Misc : SOIL
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 16:23:15 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74875-15 |
| **Matrix:** | Solid |
| **Percent Solid:** | 88 |
| **Dilution Factor:** | 52 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/20/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-234 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 1720 | U |
| PCB-1221 | 1720 | U |
| PCB-1232 | 1720 | U |
| PCB-1242 | 1720 | U |
| PCB-1248 | 1720 | U |
| PCB-1254 | 1720 | U |
| PCB-1260 | 1720 | **25100** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74875
Sample: 74875-15,1:50,,A/C
Data File: M67521.D
Dilution Factor: 52.2

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 25113 | 22324 | 11.8 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

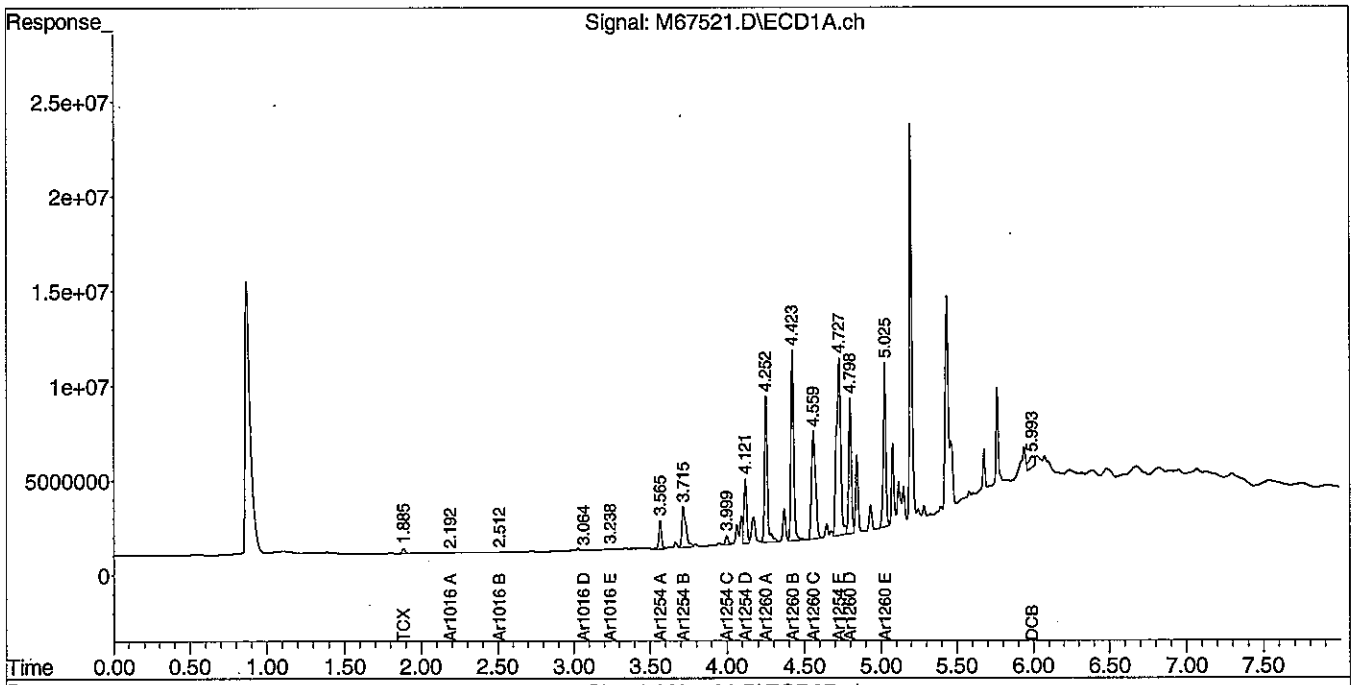
Comments: _____

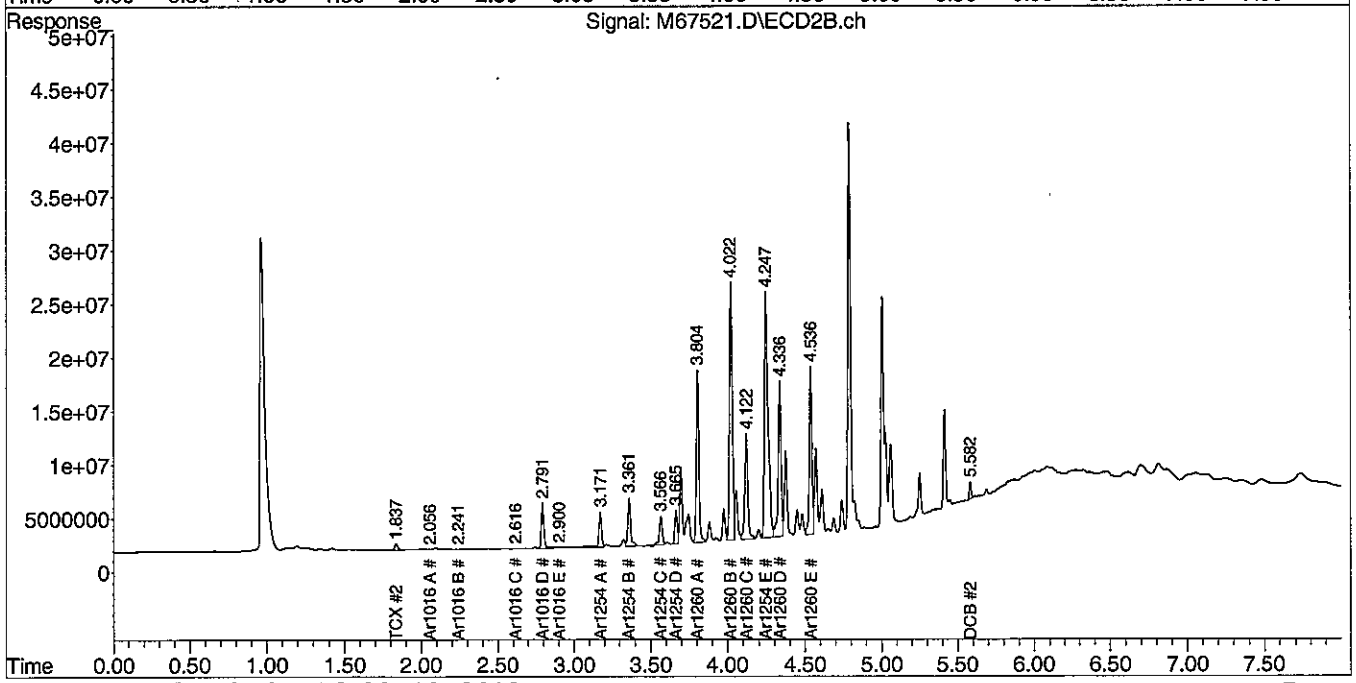
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022713-M\
Data File : M67521.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 4:20 pm
Operator : JK
Sample : 74875-15,1:50,,A/C
Misc : SOIL
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 16:33:01 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

# PCB
# QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

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195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

**CLIENT SAMPLE ID**

**Project Name:** MAINE ENERGY

**Project Number:** 12-3259.1

**Field Sample ID:** Lab QC

**Lab Sample ID:** B022213PSOX
**Matrix:** Soil
**Percent Solid:** 100
**Dilution Factor:** 1.0
**Collection Date:**
**Lab Receipt Date:**
**Extraction Date:** 02/22/13
**Analysis Date:** 02/27/13

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 98 | % |
| Decachlorobiphenyl | 69 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

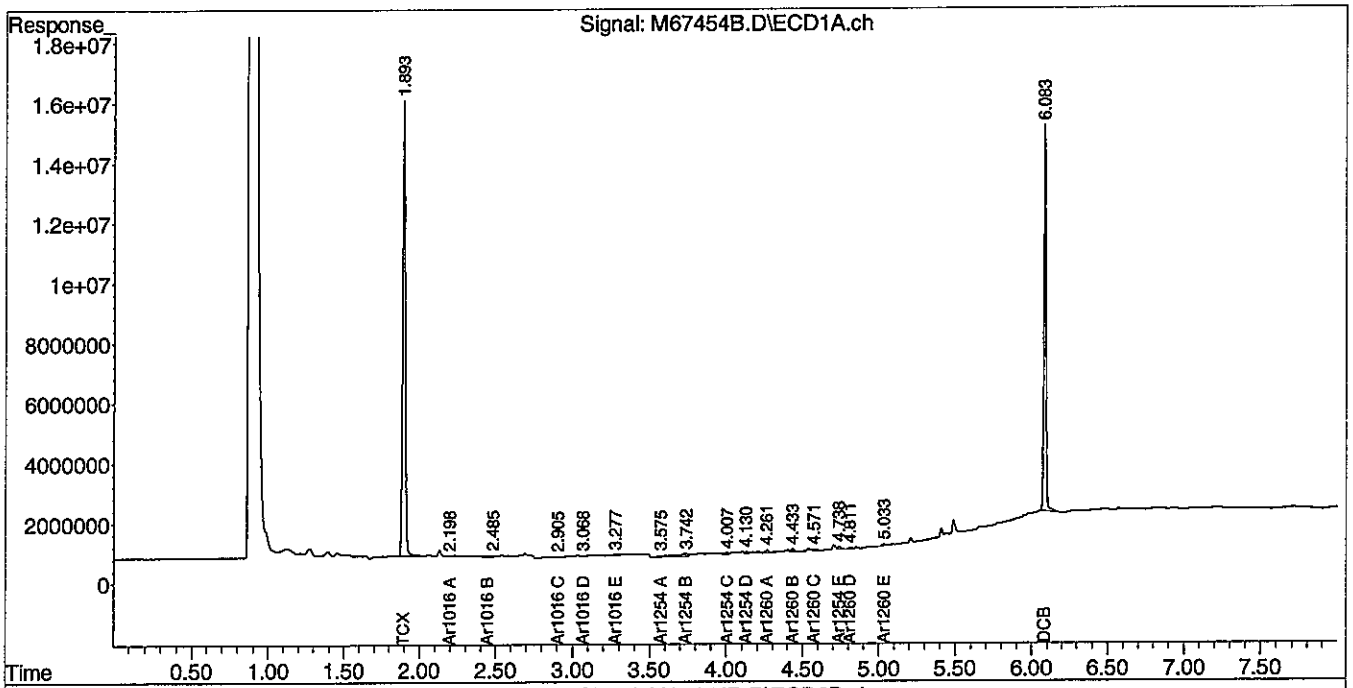
PCB Report

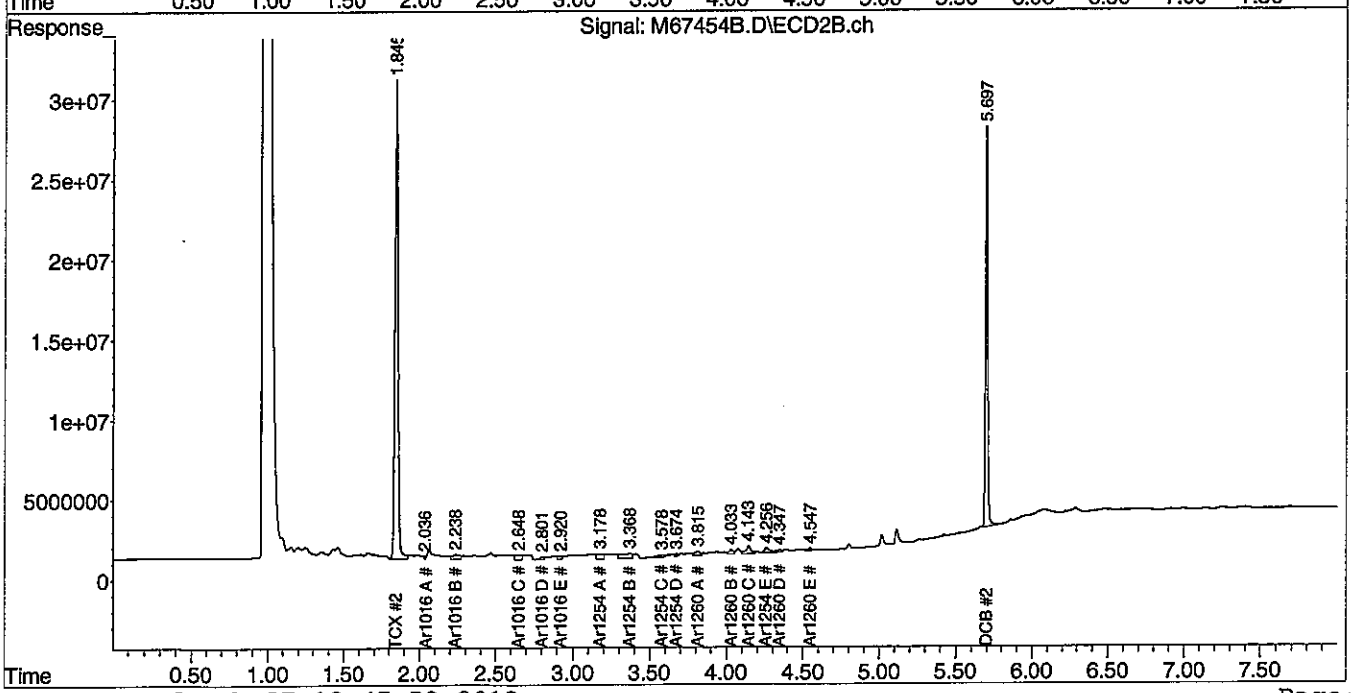
Authorized signature

Data Path : C:\msdchem\1\DATA\022613-M\
Data File : M67454B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 1:46 am
Operator : JK
Sample : B022213PSOX,,A/C ~~(Sig #1): B022113PSOX,,A/C (Sig #2)~~ JK 022113
Misc : SOIL
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 12:47:07 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | B022213PSOX RR |
| **Matrix:** | Soil |
| **Percent Solid:** | 100 |
| **Dilution Factor:** | 1.0 |
| **Collection Date:** | |
| **Lab Receipt Date:** | |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | Lab QC |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 100 | % |
| Decachlorobiphenyl | 75 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

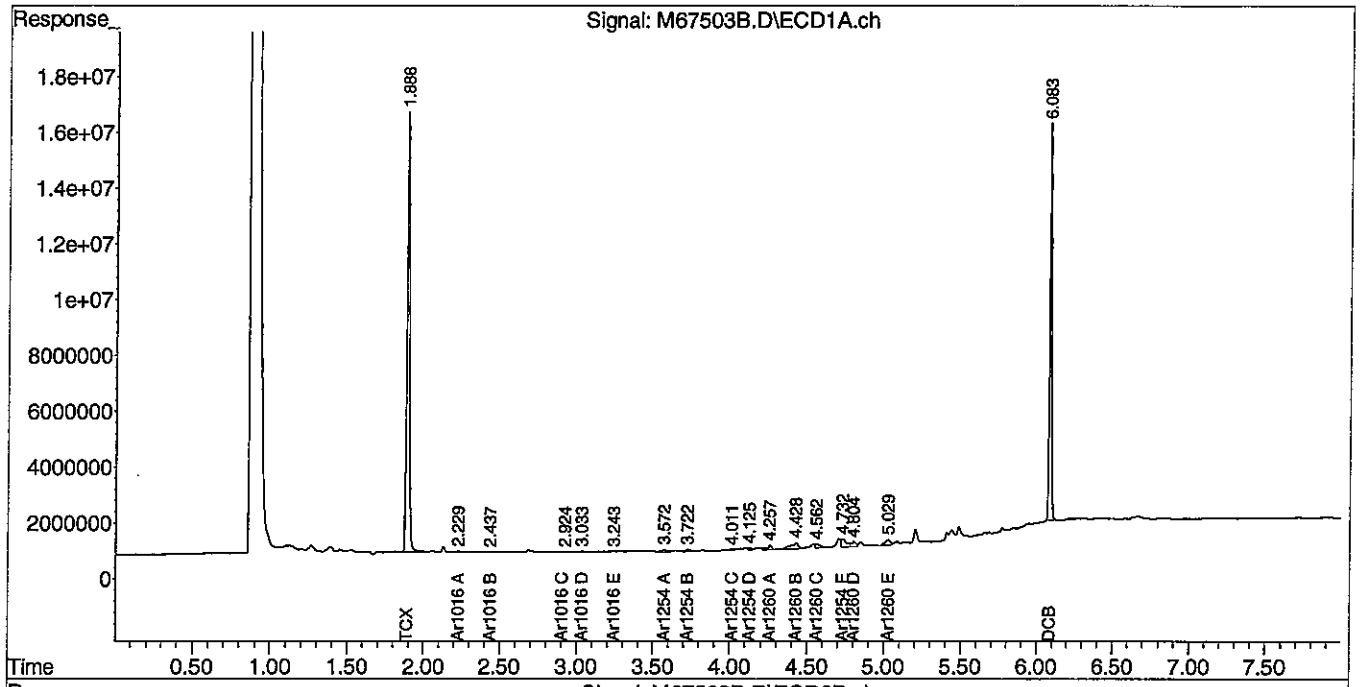
PCB Report

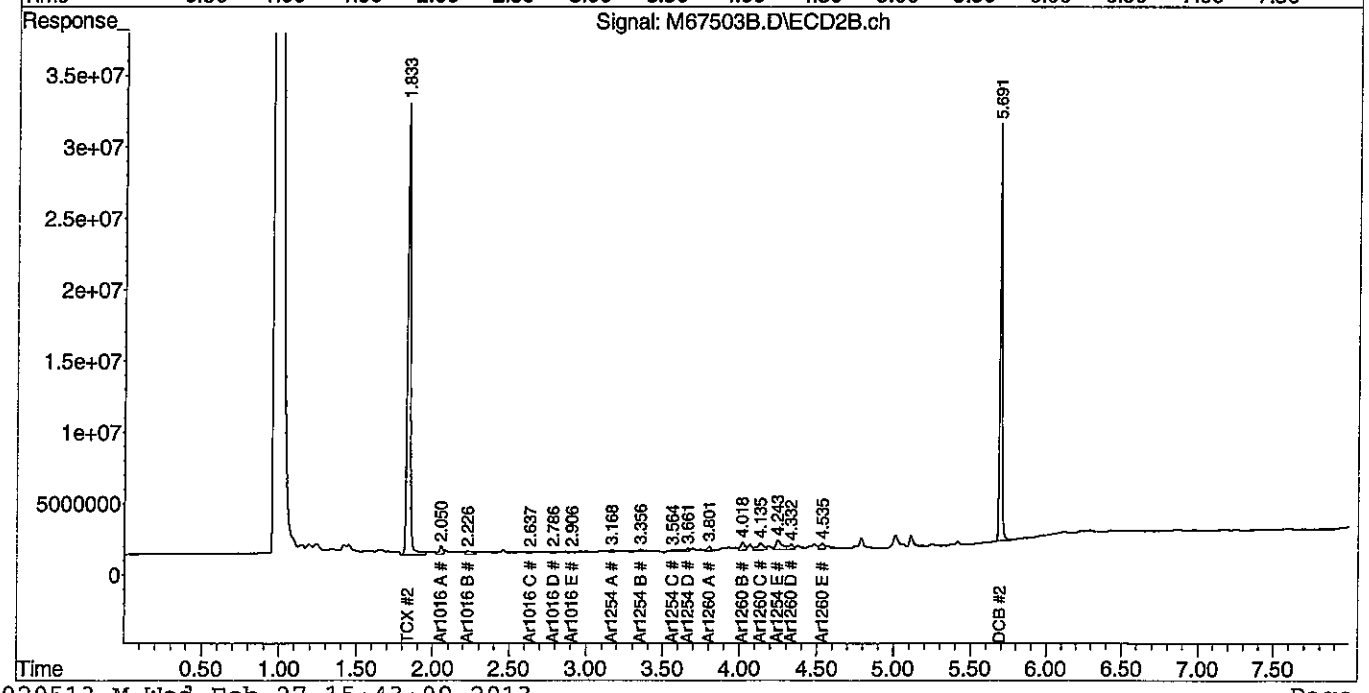
Authorized signature

Data Path : C:\msdchem\1\DATA\022713-M\
Data File : M67503B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 1:19 pm
Operator : JK
Sample : B022213PSOX,RR2,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:42:19 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 27, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | B022213PSOX RR |
| **Matrix:** | Soil |
| **Percent Solid:** | 100 |
| **Dilution Factor:** | 1.0 |
| **Collection Date:** | |
| **Lab Receipt Date:** | |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/27/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | Lab QC |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 100 | % |
| Decachlorobiphenyl | 71 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

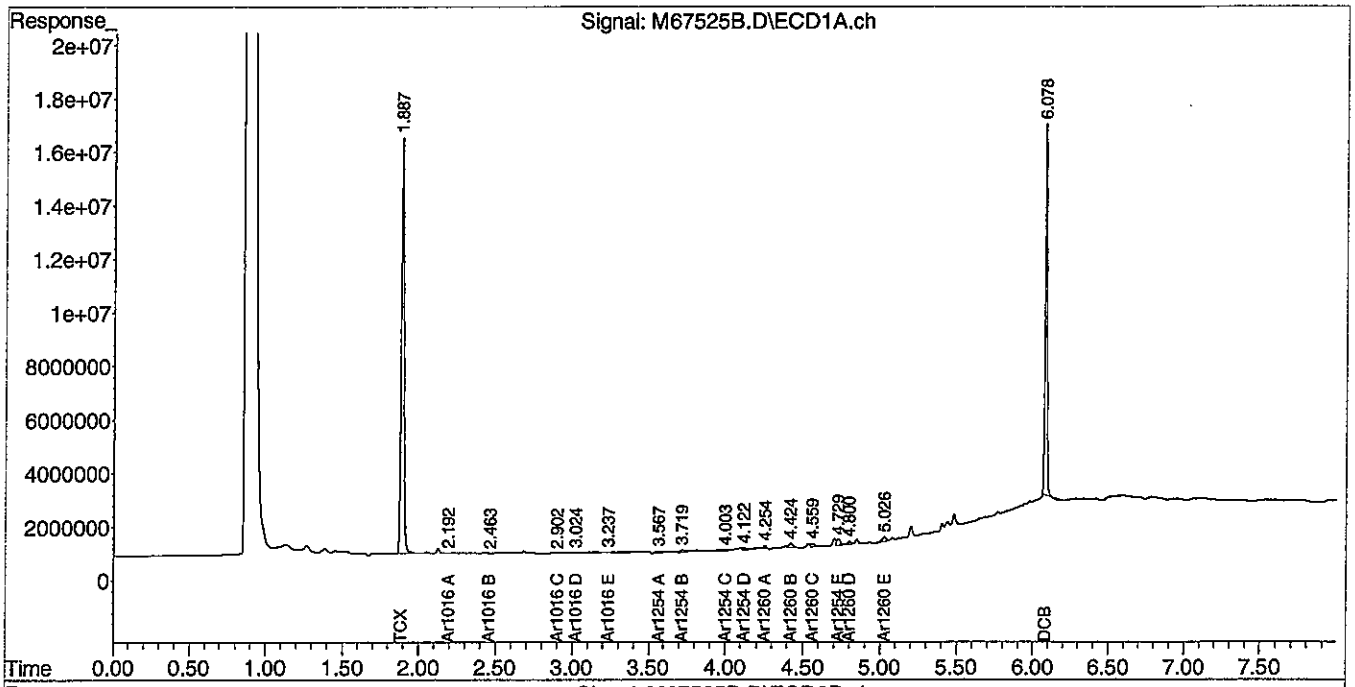
PCB Report

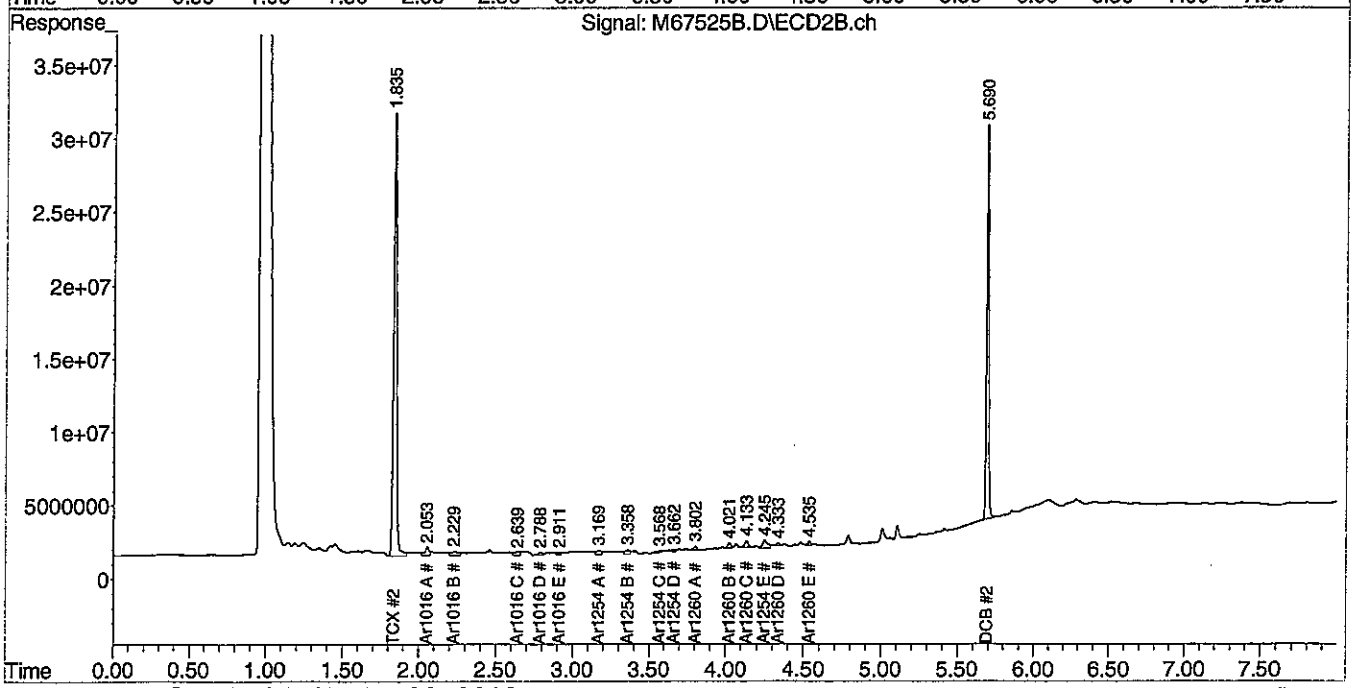
Authorized signature

Data Path : C:\msdchem\1\DATA\022713-M\
Data File : M67525B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2013 5:01 pm
Operator : JK
Sample : B022213PSOX,RR3,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 17:15:15 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 27 09:33:47 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74875

| | Column #1 | | | | Column #2 | | | |
|---|---|---|---|---|---|---|---|---|
| SAMPLE ID | SMC 1 (%) | # | SMC 2 (%) | # | SMC 1 (%) | # | SMC 2 (%) | # |
| B022213PSOX,,A/C | 98 | | 69 | | 92 | | 64 | |
| L022213PSOX,,A/C | 97 | | 72 | | 90 | | 67 | |
| LD022213PSOX,,A/C | 98 | | 69 | | 91 | | 65 | |

| | Lower Limit | Upper Limit |
|---|---|---|
| SMC #1 = TCX | 40 | 130 |
| SMC #2 = DCB | 40 | 130 |

\# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74875

| | Column #1 | | | | Column #2 | | | |
|---|---|---|---|---|---|---|---|---|
| SAMPLE ID | SMC 1 (%) | # | SMC 2 (%) | # | SMC 1 (%) | # | SMC 2 (%) | # |
| B022213PSOX,RR2,,A/C | 100 | | 75 | | 96 | | 77 | |
| 74875-1,1:20,,A/C | D | | D | | D | | D | |
| 74875-2,1:20,,A/C | D | | D | | D | | D | |
| 74875-6,1:100,,A/C | D | | D | | D | | D | |
| 74875-7,1:5,,A/C | 123 | | 102 | | 115 | | 105 | |
| 74875-7,MS,1:5,,A/C | 113 | | 80 | | 116 | | 78 | |
| 74875-7,MSD,1:5,,A/C | 98 | | 62 | | 100 | | 69 | |
| 74875-8,1:5,,A/C | 98 | | 62 | | 100 | | 62 | |
| 74875-9,1:5,,A/C | 99 | | 68 | | 95 | | 88 | |
| 74875-10,,A/C | 101 | | 76 | | 109 | | 85 | |
| 74875-11,1:10,,A/C | 98 | | 108 | | 101 | | 121 | |
| 74875-12,,A/C | 96 | | 100 | | 107 | | 93 | |
| 74875-13,,A/C | 106 | | 78 | | 105 | | 86 | |
| 74875-14,,A/C | 93 | | 88 | | 91 | | 66 | |
| 74875-15,1:50,,A/C | D | | D | | D | | D | |

| | | Lower Limit | Upper Limit |
|---|---|---|---|
| SMC #1 = | TCX | 40 | 130 |
| SMC #2 = | DCB | 40 | 130 |

# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74875

| | Column #1 | | | | Column #2 | | | |
|---|---|---|---|---|---|---|---|---|
| SAMPLE ID | SMC 1 (%) | # | SMC 2 (%) | # | SMC 1 (%) | # | SMC 2 (%) | # |
| B022213PSOX,RR3,,A/C | 100 | | 71 | | 96 | | 69 | |
| 74875-3,1:1000,,A/C | D | | D | | D | | D | |
| 74875-4,1:20000,,A/C | D | | D | | D | | D | |
| 74875-5,1:5000,,A/C | D | | D | | D | | D | |

| | | Lower Limit | Upper Limit |
|---|---|---|---|
| SMC #1 = | TCX | 40 | 130 |
| SMC #2 = | DCB | 40 | 130 |

# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG:

Non-spiked sample: B022213PSOX,,A/C

Spike: L022213PSOX,,A/C

Spike duplicate: LD022213PSOX,,A/C

| COMPOUND | LCS SPIKE ADDED (ug/kg) | LCSD SPIKE ADDED (ug/kg) | LOWER LIMIT | UPPER LIMIT | RPD LIMIT | NON-SPIKE RESULT (ug/kg) | SPIKE RESULT (ug/kg) | SPIKE % REC | # | SPIKE DUP RESULT (ug/kg) | SPIKE DUP % REC | # | RPD | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 200 | 200 | 65 | 140 | 30 | 0 | 178 | 89 | | 175 | 87 | | 2.0 | |
| PCB 1260 | 200 | 200 | 60 | 130 | 30 | 0 | 179 | 90 | | 173 | 87 | | 3.3 | |
| PCB 1016 #2 | 200 | 200 | 65 | 140 | 30 | 0 | 173 | 86 | | 166 | 83 | | 4.0 | |
| PCB 1260 #2 | 200 | 200 | 60 | 130 | 30 | 0 | 172 | 86 | | 166 | 83 | | 3.7 | |

# Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

PCB SOIL
MATRIX SPIKE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG:

Non-spiked sample: 74875-7,1:5,,A/C

Spike: 74875-7,MS,1:5,,A/C

Spike duplicate: 74875-7,MSD,1:5,,A/C

| COMPOUND | MS SPIKE ADDED (ug/kg) | MSD SPIKE ADDED (ug/kg) | LOWER LIMIT | UPPER LIMIT | RPD LIMIT | NON-SPIKE RESULT (ug/kg) | SPIKE RESULT (ug/kg) | SPIKE % REC | # | SPIKE DUP RESULT (ug/kg) | SPIKE DUP % REC | # | RPD | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 229 | 224 | 65 | 140 | 30 | 0 | D | D | | D | D | | | |
| PCB 1260 | 229 | 224 | 60 | 130 | 30 | 4486 | 5470 | 429 | * | 3332 | -514 | * | 48.6 | * |
| PCB 1016 #2 | 229 | 224 | 65 | 140 | 30 | 0 | D | D | | D | D | | | |
| PCB 1260 #2 | 229 | 224 | 60 | 130 | 30 | 3825 | 4650 | 360 | * | 2862 | -430 | * | 47.6 | * |

# Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

MS/MSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

PCB FORM 3

analytics environmental laboratory LLC

# CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

# Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were: 1) Shipped or hand-delivered
2) Temperature (°C): 0.3-0.7°
3) Received in good condition: Y or N
4) pH checked by: N/A
5) Labels checked by: MB 7/20/13

Project Name: MAINE ENERGY
Project#: 12-3259.1
Company: SUMMIT
Report to: JOHN CRESSEY
Address: 640 MAIN ST. LEWISTON, ME 04240
Phone: (207) 795-6009
Quote #:
PO# (if required): 12-3259.1

Preservation Code:
Preservation Key: A= HCL, B= 4°C, C= Unpres, D = MeOH, E = HNO3, F = H2SO4, G = Hexane, H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please fill in preservation code here

Matrix Key: C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

| Sample Identification | Sample Date | Sample Time | Field Filtered? Y or N | VOC: 8260 524.2 624 | SVOC: 8270 625 PAH only SIM | Pesticides: 8081 608 | PCB: 8082 608 Soxhlet Y or N | TPH: 8015 (Gas Range) ME4217 | TPH: 8015 (Diesel Range) 8100M ME4125 | EPH: Full or Ranges only TETPH | VPH: Full or Ranges only | Metals: RCRA8 PP13 TAL23 Other** | Matrix | No. of Containers | pH checked | Analytics Sample # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SE-SB-225 (4-6') | 2-19 | 1741 | N | | | | X | | | | | | S | 1 | | 74875-1 |
| SE-SB-225 (6-7.5') | 2-19 | 1743 | N | | | | X | | | | | | S | 1 | | -2 |
| SE-SB-226 (0-2') | 2-20 | 825 | N | | | | X | | | | | | S | 1 | | -3 |
| SE-SB-226 (2-4') | 2-20 | 835 | N | | | | X | | | | | | S | 1 | | -4 |
| SE-SB-226 (4-5') | 2-20 | 910 | N | | | | X | | | | | | S | 1 | | -5 |
| SE-SB-232 (0-2') | 2-20 | 950 | N | | | | X | | | | | | S | 1 | | -6 |
| SE-SB-232A (2-4') | 2-20 | 1020 | N | | | | X | | | | | | S | 1 | | -7 |
| SE-SB-232A (4-6') | 2-20 | 1025 | N | | | | X | | | | | | S | 1 | | -8 |
| SE-SB-232A (6-8') | 2-20 | 1035 | N | | | | X | | | | | | S | 1 | | -9 |
| SE-SB-232A (8-10') | 2-20 | 1042 | N | | | | X | | | | | | S | 1 | | -10 |

Email Results to:

Comments, Additional Analyses, or Special Instructions: ** List requested metals here

Turnaround Time (TAT)
- [ ] 1 Day*
- [ ] 2 Days*
- [ ] 3 Days*
- [ ] 4 Days*
- [ ] 5 Days
- [x] Standard (8-10 business days)

*Fee may apply; lab approval required

*Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.*

Project Requirements: *Fee may apply

Report Type:
- [ ] MCP*
- [ ] Level II*
- [ ] CTRCP*
- [ ] Level III*
- [ ] DOD*
- [ ] Level IV*
- [x] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI
- Other:

State Standard: (eg. S-1 or GW-1)
EDD Required: Y* N
Type:

Sampler Name (Print): John Cressey

| | | | |
|---|---|---|---|
| Relinquished By Sampler: | Date: 2-20 | Time: 1131 | Received By: |
| Relinquished By: | Date: | Time: | Received By: |
| Relinquished By: | Date: | Time: | Received By: |

# Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were: 1) Shipped or hand-delivered
2) Temperature (°C): 0.3-0.70
3) Received in good condition: Y or N
4) pH checked by: NA
5) Labels checked by: KB 2/20/13

Project Name: MAINE ENERGY
Project#: 12-3259.1
Company: SUMMIT
Report to: JOHN CRESSEY
Address: 640 MAIN ST. LEWISTON ME 04240
Phone: (207) 795-6609
Quote #:
PO# (if required): 12-3259.1

Preservation Code:
Preseravtion Key: A= HCL, B= 4°C, C= Unpres, D = MeOH, E = HNO3, F = H2SO4, G = Hexane, H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please fill in preservation code here

Matrix Key: C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

| Sample Identification | Sample Date | Sample Time | Field Filtered? Y or N | VOC: 8260 524.2 624 | SVOC: 8270 625 PAH only SIM | Pesticides: 8081 608 | PCB: 8082 608 Soxhlet? Y or N | TPH: 8015 (Gas Range) ME4217 | TPH: 8015 (Diesel Range) 8100M ME4125 | EPH: Full or Ranges only TETPH | VPH: Full or Ranges only | Metals: RCRA8 PP13 TAL23 Other** | Matrix | No. of Containers | pH checked | Analytics Sample # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SE-SB-233 (0-2') | 2-20 | 1056 | N | | | | X | | | | | | C/S | 1 | | -11 |
| SE-SB-233 (2-4') | 2-20 | 1102 | N | | | | X | | | | | | S | 1 | | -12 |
| SE-SB-233 (4-6') | 2-20 | 1106 | N | | | | X | | | | | | S | 1 | | -13 |
| SE-SB-233 (6-8') | 2-20 | 1115 | N | | | | X | | | | | | S/C | 1 | | -14 |
| SE-SB-234 (0-2') | 2-20 | 1121 | N | | | | X | | | | | | S | 1 | | -15 |

Email Results to: KCRESSEY@SUMMITENV.COM

Turnaround Time (TAT)
- [ ] 1 Day*
- [ ] 2 Days*
- [ ] 3 Days*
- [ ] 4 Days*
- [ ] 5 Days
- [x] Standard (8-10 business days)

*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions:

** List requested metals here

*Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.*

Project Requirements: *Fee may apply

Report Type:
- [ ] MCP*
- [ ] Level II*
- [ ] CTRCP*
- [ ] Level III*
- [ ] DOD*
- [ ] Level IV*
- [x] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI

Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y* N

Type:

Sampler Name (Print): JOHN CRESSEY

| | Date | Time | Received By |
|---|---|---|---|
| Relinquished By Sampler: | 2-20 | 1131 | KSteinau |
| Relinquished By: | | | |
| Relinquished By: | | | |

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 74875

CLIENT: Summit

PROJECT: Maine Energy

COOLER NUMBER: 74, 223

NUMBER OF COOLERS: 2

**A: PRELIMINARY EXAMINATION:**

1. Cooler received by(initials): EZ

DATE COOLER RECEIVED/OPENED: 02/20/13

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y (N)

3a. Enter carrier name and airbill number here: _____

4. Were custody seals on the outside of cooler? Y (N)
How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y N/A

6. COC#: _____

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? (Y) N

8. Were custody papers sealed in a plastic bag? Y (N)

9. Did you sign the COC in the appropriate place? (Y) N

10. Was enough ice used to chill the cooler? (Y) N Temp. of cooler: 0.3°C, 0.7°C

**B. Log-In:** Date samples were logged in: EZ By: 02/20/13

11. Were all bottles sealed in separate plastic bags? Y (N)

12. Did all bottles arrive unbroken and were labels in good condition? (Y) N

13. Were all bottle labels complete(ID,Date,time,etc.) (Y) N

14. Did all bottle labels agree with custody papers? (Y) N

15. Were the correct containers used for the tests indicated: (Y) N

16. Were samples received at the correct pH? Y N/A

17. Was sufficient amount of sample sent for the tests indicated? (Y) N

18. Were all samples submitted within holding time? (Y) N

19. Were all containers used within AEL 's expiration date?** Y N/A

20. Were VOA samples absent of greater than pea-sized bubbles? Y N*/A
(Note:Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatiles data.)

*If NO, List Sample ID's, Lab #s: _____

When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): JB Date: 2/20/13

**The expiration date is recommended by Analytics Environmental Laboratory and not the method. Therefore this does not mean that the results are non-compliant.

C:ANLYTICS LLC\AEL DOCUMENTS\FORMS\SMPL CHKLST\Edit 4908

Rev. 6, 8/27/12

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

March 1, 2013

Mr. John Cressey
Summit Environmental
640 Main Street
Lewiston ME 04240

**RE: Analytical Results Case Narrative**
**Analytics # 74886**
**Maine Energy**
**Project No: 12-3259.1**

Dear Mr. Cressey;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082A.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples
PCB Form 3 MS/MSD (LCS) Recoveries and Blanks
Chromatograms
Chain of Custody (COC) Forms

## QC NON CONFORMANCE SUMMARY

**Sample Receipt:**
No exceptions.

**PCBs by EPA Method 8082:**
No results were reported below the quantitation limit.

All samples except 74886-13 required dilution due to concentrations of PCBs that exceeded the calibration range of the instrument or matrix affect.

The MS/MSD analyzed on sample 74886-1 did not meet acceptance criteria for PCB 1260 recoveries due to the parent sample having concentrations of PCB 1260 that exceeded the calibration range of the instrument. The laboratory control samples (L022513PSOX/LD022513PSOX) were in control for all recoveries and RPDs. Results were reported without qualification.

If you have any questions on this data submittal, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen Knollmeyer
Laboratory Director

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

**Report Number: 74886**

**Revision: Rev. 0**

**Re: MAINE ENERGY (Project No: 12-3259.1)**

Enclosed are the results of the analyses on your sample(s). Samples were received on 22 February 2013 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

**Sample Analysis:** The attached pages detail the Client Sample IDs, Lab Sample IDs, and Analyses requested

**Sample Receipt Exceptions:** None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 3/1/2013

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analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

**CLIENT: Summit Environmental Consultants Inc.** **REPORT NUMBER: 74886** **REV: Rev. 0**

**PROJECT: MAINE ENERGY (Project No: 12-3259.1)**

| Lab Number | Sample Date | Station Location | Analysis | Comments |
|---|---|---|---|---|
| 74886-1 | 02/20/13 | SE-SB-234 (2-4') | EPA 8082 (PCBs only) | |
| 74886-2 | 02/20/13 | SE-SB-234 (4-6') | EPA 8082 (PCBs only) | |
| 74886-3 | 02/20/13 | SE-SB-234 (6-8') | EPA 8082 (PCBs only) | |
| 74886-4 | 02/20/13 | SE-SB-234 (8-10') | EPA 8082 (PCBs only) | |
| 74886-5 | 02/20/13 | SE-SB-230 (0-2') | EPA 8082 (PCBs only) | |
| 74886-6 | 02/20/13 | SE-SB-230 (2-4') | EPA 8082 (PCBs only) | |
| 74886-7 | 02/20/13 | SE-SB-231 (0-2') | EPA 8082 (PCBs only) | |
| 74886-8 | 02/20/13 | SE-SB-231 (2-4') | EPA 8082 (PCBs only) | |
| 74886-9 | 02/20/13 | SE-SB-231 (4-6') | EPA 8082 (PCBs only) | |
| 74886-10 | 02/20/13 | SE-SB-231 (6-8') | EPA 8082 (PCBs only) | |
| 74886-11 | 02/20/13 | SE-SB-235 (0-2') | EPA 8082 (PCBs only) | |
| 74886-12 | 02/20/13 | SE-SB-235 (2-4') | EPA 8082 (PCBs only) | |
| 74886-13 | 02/20/13 | SE-SB-235 (4-6') | EPA 8082 (PCBs only) | |
| 74886-14 | 02/20/13 | SE-SB-235 (6-8') | EPA 8082 (PCBs only) | |
| 74886-15 | 02/20/13 | SE-SB-235 (8-10') | EPA 8082 (PCBs only) | |
| 74886-16 | 02/20/13 | SE-SB-229 (0-2') | EPA 8082 (PCBs only) | |
| 74886-17 | 02/20/13 | SE-SB-229 (2-4') | EPA 8082 (PCBs only) | |
| 74886-18 | 02/20/13 | SE-SB-229 (4-6') | EPA 8082 (PCBs only) | |
| 74886-19 | 02/20/13 | SE-SB-229 (6-8') | EPA 8082 (PCBs only) | |
| 74886-20 | 02/20/13 | SE-SB-229 (8-10') | EPA 8082 (PCBs only) | |

analytics environmental laboratory LLC

## Surrogate Compound Limits

| Matrix: | Aqueous | Solid | |
|---|---|---|---|
| Units: | % Recovery | % Recovery | Method |
| **Volatile Organic Compounds - Drinking Water** | | | |
| 1,4-Difluorobenzene | 70-130 | | EPA 524.2 |
| Bromofluorobenzene | 70-130 | | |
| 1,2-Dichlorobenzene-d4 | 70-130 | | |
| **Volatile Organic Compounds** | | | |
| 1,2-Dichloroethane-d4 | 70-120 | 70-120 | EPA 624/8260B |
| Toluene-d8 | 85-120 | 85-120 | |
| Bromofluorobenzene | 75-120 | 75-120 | |
| **Semi-Volatile Organic Compounds** | | | |
| 2-Fluorophenol | 20-110 | 35-105 | EPA 625/8270C |
| d5-Phenol | 15-110 | 40-100 | |
| d5-nitrobenzene | 40-110 | 35-100 | |
| 2-Fluorobiphenyl | 50-110 | 45-105 | |
| 2,4,6-Tribromophenol | 40-110 | 40-125 | |
| d14-p-terphenyl | 50-130 | 30-125 | |
| **PAH's by SIM** | | | |
| d5-nitrobenzene | 21-110 | 35-110 | EPA 8270C |
| 2-Fluorobiphenyl | 36-121 | 45-105 | |
| d14-p-terphenyl | 33-141 | 30-125 | |
| **Pesticides and PCBs** | | | |
| 2,4,5,6-Tetrachloro-m-xylene (TCX) | 46-122 | 40-130 | EPA 608/8082 |
| Decachlorobiphenyl (DCB) | 40-135 | 40-130 | |
| **Herbicides** | | | |
| Dichloroacetic acid (DCAA) | 30-150 | 30-150 | |
| **Gasoline Range Organics/TPH Gasoline** | | | |
| Trifluorotoluene TFT (FID) | 60-140 | 60-140 | MEDEP 4217/EPA 8015 |
| Bromofluorobenzene (BFB) (FID) | 60-140 | 60-140 | |
| Trifluorotoluene TFT (PID) | 60-140 | 60-140 | |
| Bromofluorobenzene (BFB) (PID) | 60-140 | 60-140 | |
| **Diesel Range Organics/TPH Diesel** | | | |
| m-terphenyl | 60-140 | 60-140 | MEDEP 4125/EPA 8015/CT ETPH |
| **Volatile Petroleum Hydrocarbons** | | | |
| 2,5-Dibromotoluene (PID) | 70-130 | 70-130 | MADEP VPH May 2004 Rev1.1 |
| 2,5-Dibromotoluene (FID) | 70-130 | 70-130 | |
| **Extracatable Petroleum Hydrocarbons** | | | |
| 1-chloro-octadecane (aliphatic) | 40-140 | 40-140 | MADEP EPH May 2004 Rev1.1 |
| o-Terphenyl (aromatic) | 40-140 | 40-140 | |
| 2-Fluorobiphenyl (Fractionation) | 40-140 | 40-140 | |
| 2-Bromonaphthalene (fractionation) | 40-140 | 40-140 | |

analytics environmental laboratory LLC

# PCB
# DATA SUMMARIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCB.doc

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74886-1 |
| **Matrix:** | Solid |
| **Percent Solid:** | 89 |
| **Dilution Factor:** | 11 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/28/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-234 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 363 | U |
| PCB-1221 | 363 | U |
| PCB-1232 | 363 | U |
| PCB-1242 | 363 | U |
| PCB-1248 | 363 | U |
| PCB-1254 | 363 | U |
| PCB-1260 | 363 | **2350** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 85 | % |
| Decachlorobiphenyl | 82 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886
Sample: 74886-1,1:10,,A/C
Data File: M67690.D
Dilution Factor: 10.5

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 2345 | 2354 | 0.4 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

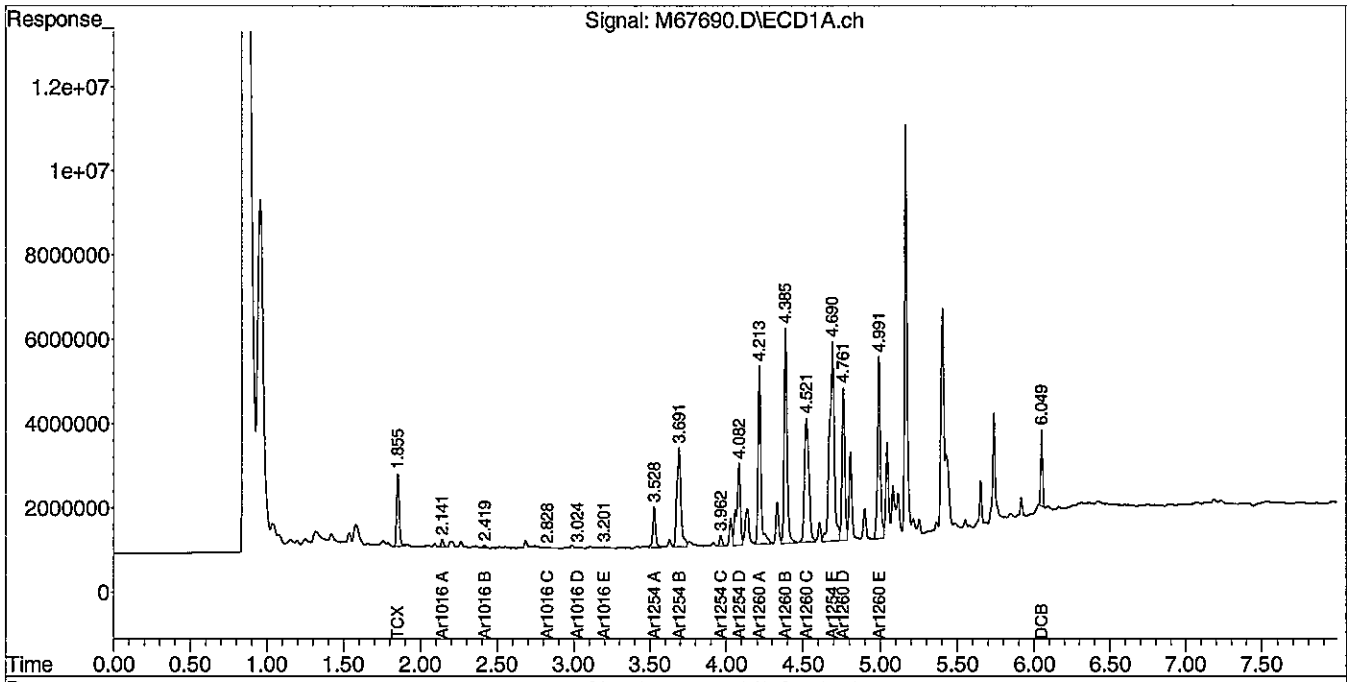
Comments: _____

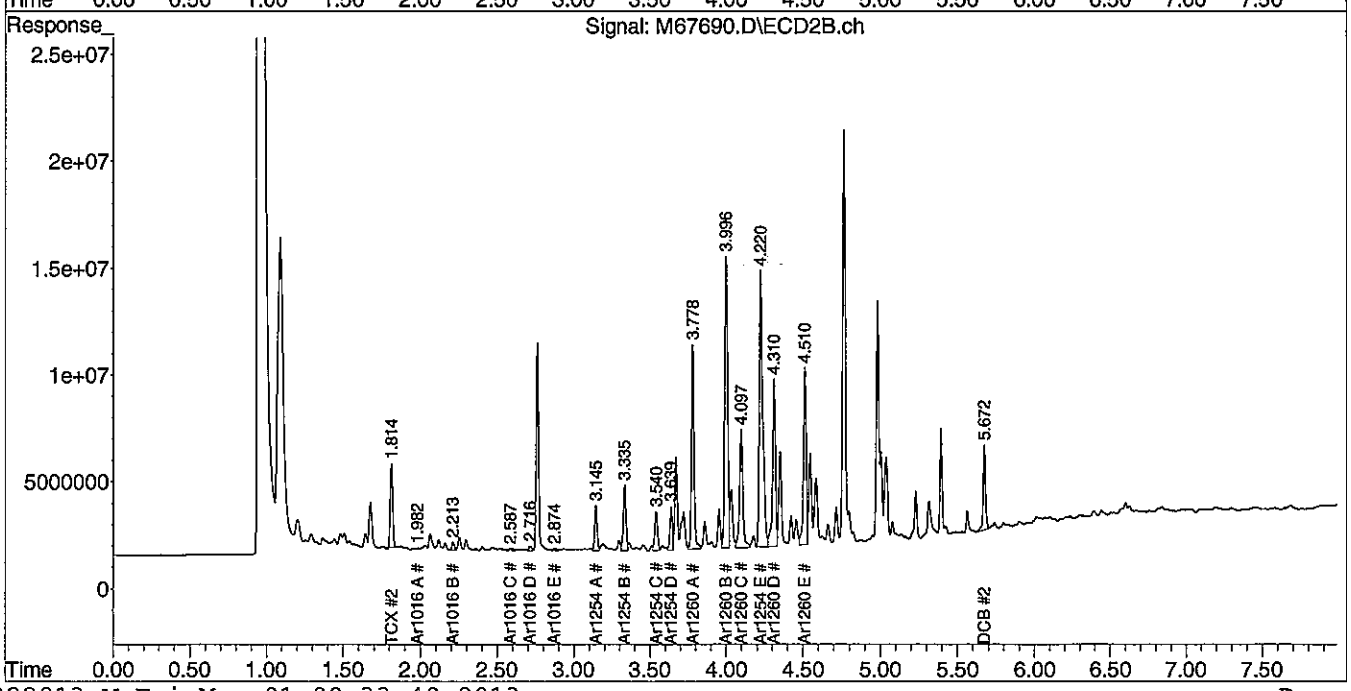
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67690.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2013 10:40 pm
Operator : JK
Sample : 74886-1,1:10,,A/C
Misc : SOIL
ALS Vial : 34 Sample Multiplier: 1

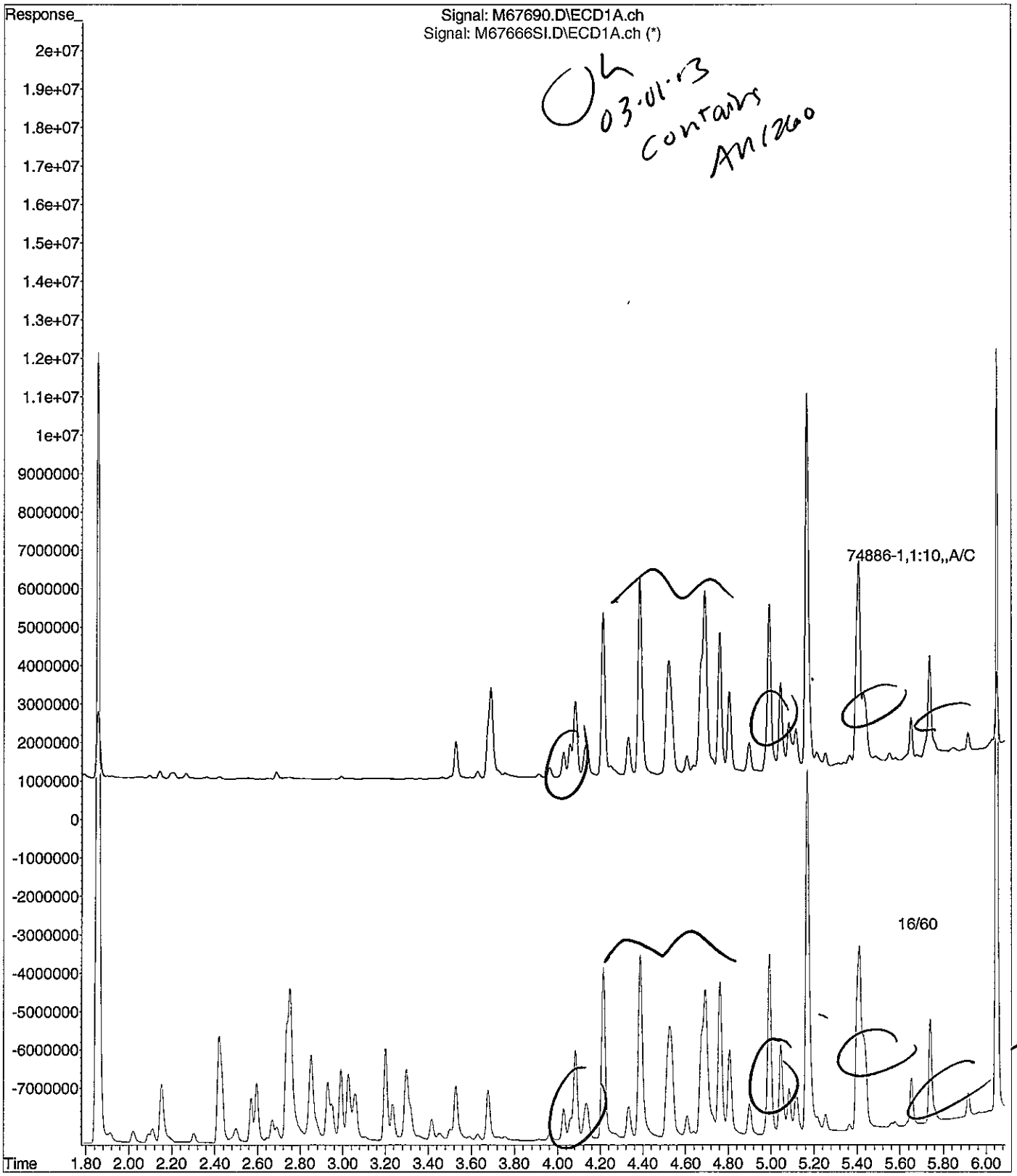
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:23:19 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\022813-M\M67690.D
Operator : JK
Acquired : 28 Feb 2013 10:40 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 74886-1,1:10,,A/C
Misc Info : SOIL
Vial Number: 34



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74886-2 |
| **Matrix:** | Solid |
| **Percent Solid:** | 89 |
| **Dilution Factor:** | 11 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/28/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-234 (4-6') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 363 | U |
| PCB-1221 | 363 | U |
| PCB-1232 | 363 | U |
| PCB-1242 | 363 | U |
| PCB-1248 | 363 | U |
| PCB-1254 | 363 | U |
| PCB-1260 | 363 | **1840** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 92 | % |
| Decachlorobiphenyl | 89 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886
Sample: 74886-2,1:10,,A/C
Data File: M67693.D
Dilution Factor: 10.6

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 1775 | 1840 | 3.6 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

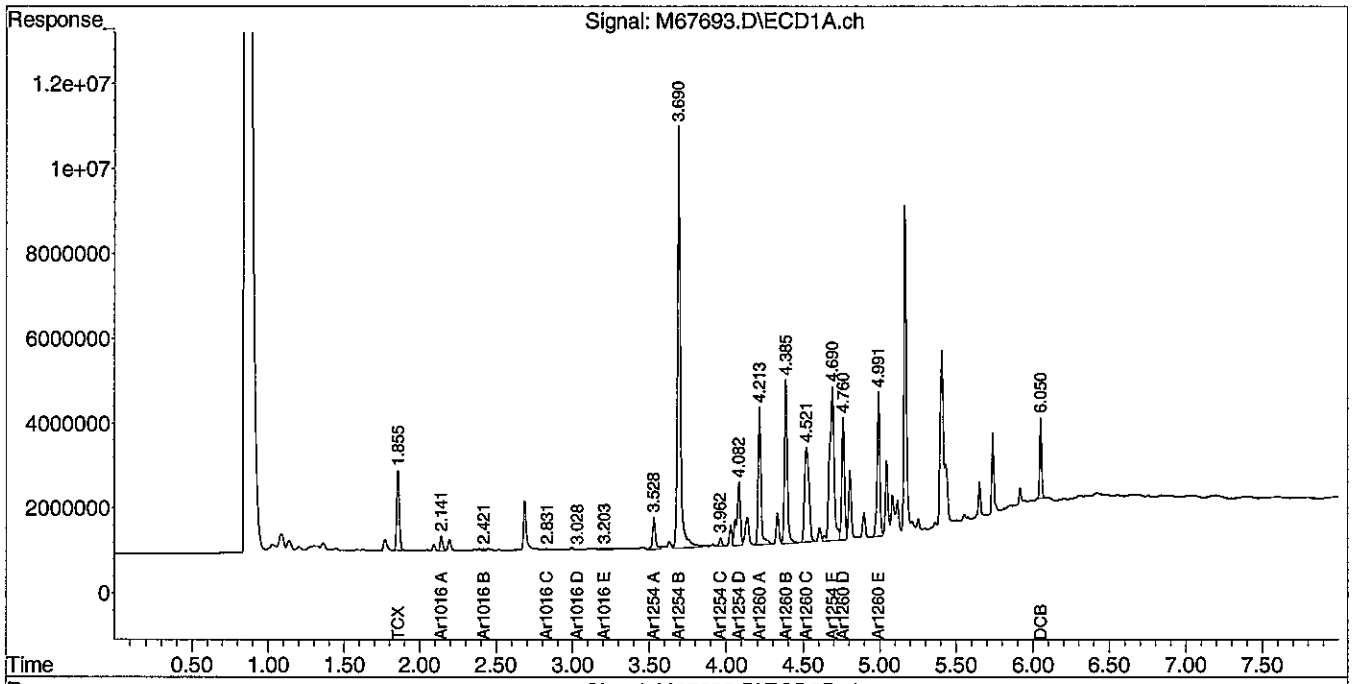
Comments: _____

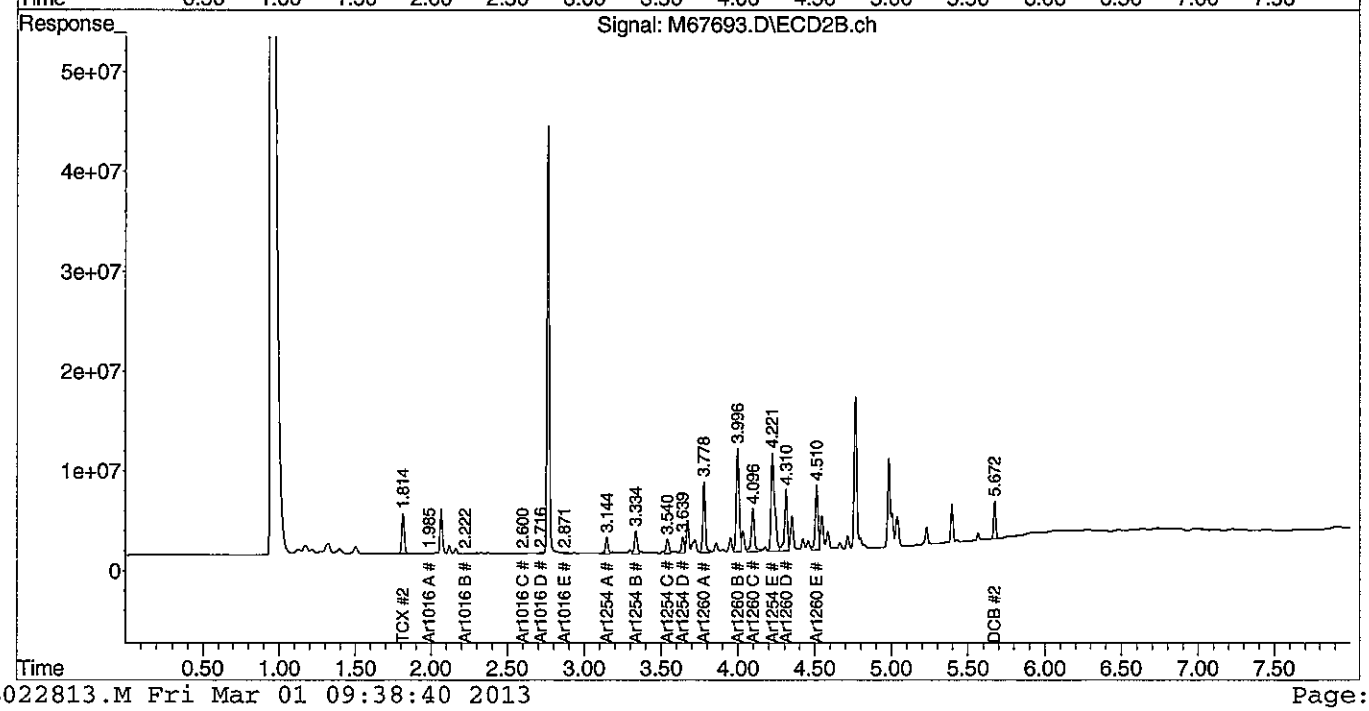
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67693.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2013 11:11 pm
Operator : JK
Sample : 74886-2,1:10,,A/C
Misc : SOIL
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:23:25 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**CLIENT SAMPLE ID**

**Project Name:** MAINE ENERGY

**Project Number:** 12-3259.1

**Field Sample ID:** SE-SB-234 (6-8')

**SAMPLE DATA**

**Lab Sample ID:** 74886-3
**Matrix:** Solid
**Percent Solid:** 86
**Dilution Factor:** 11
**Collection Date:** 02/20/13
**Lab Receipt Date:** 02/22/13
**Extraction Date:** 02/22/13
**Analysis Date:** 02/28/13

**PCB ANALYTICAL RESULTS**

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 363 | U |
| PCB-1221 | 363 | U |
| PCB-1232 | 363 | U |
| PCB-1242 | 363 | U |
| PCB-1248 | 363 | U |
| PCB-1254 | 363 | U |
| PCB-1260 | 363 | **2260** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 94 | % |
| Decachlorobiphenyl | 94 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886
Sample: 74886-3,1:10,,A/C
Data File: M67694.D
Dilution Factor: 11.0

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 2250 | 2255 | 0.2 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

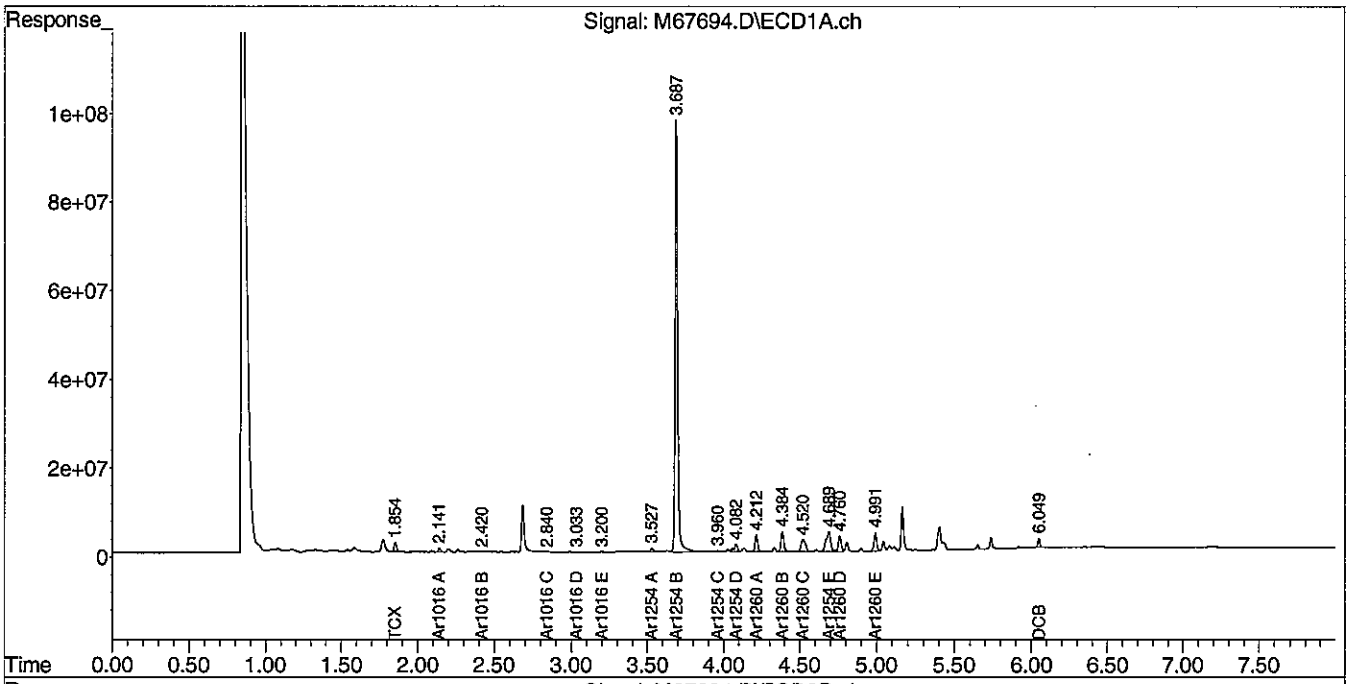
Comments: _____

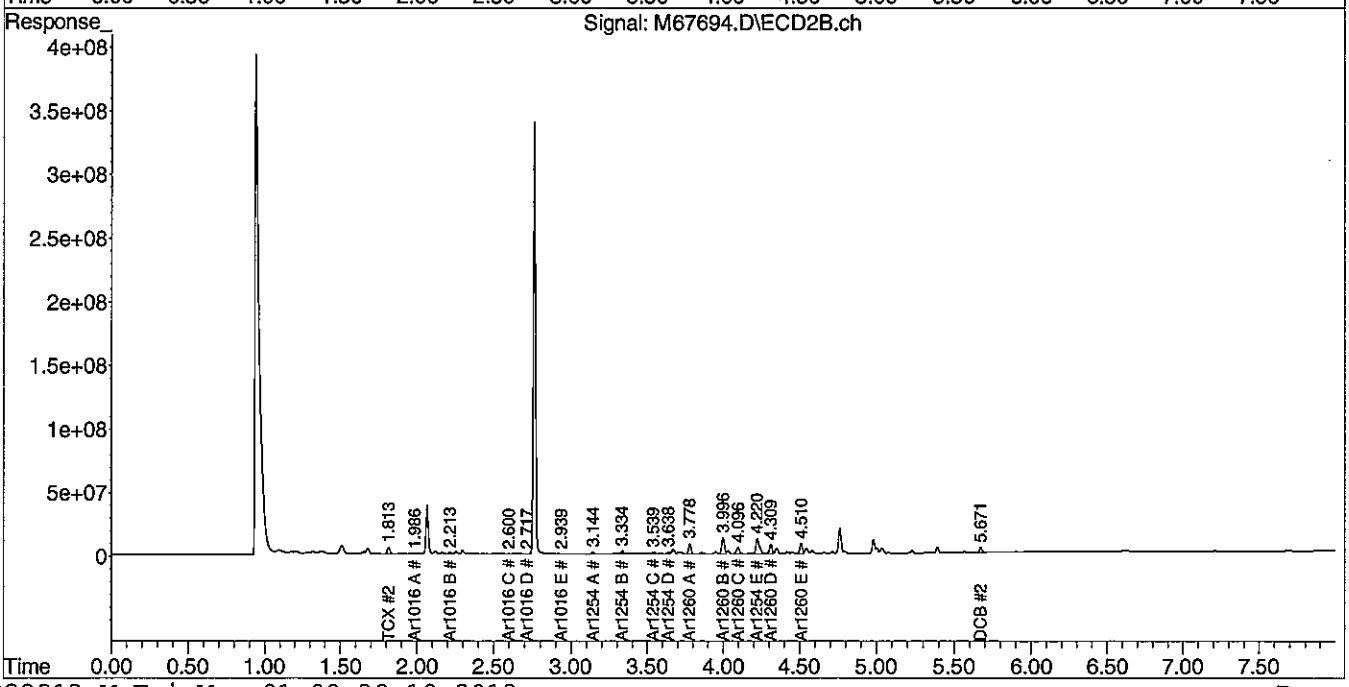
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67694.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2013 11:21 pm
Operator : JK
Sample : 74886-3,1:10,,A/C
Misc : SOIL
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:23:27 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74886-4 |
| **Matrix:** | Solid |
| **Percent Solid:** | 90 |
| **Dilution Factor:** | 10 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/28/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-234 (8-10') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 330 | U |
| PCB-1221 | 330 | U |
| PCB-1232 | 330 | U |
| PCB-1242 | 330 | U |
| PCB-1248 | 330 | U |
| PCB-1254 | 330 | U |
| PCB-1260 | 330 | **1540** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 92 | % |
| Decachlorobiphenyl | 88 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886
Sample: 74886-4,1:10,,A/C
Data File: M67695.D
Dilution Factor: 10.2

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 1535 | 1533 | 0.1 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

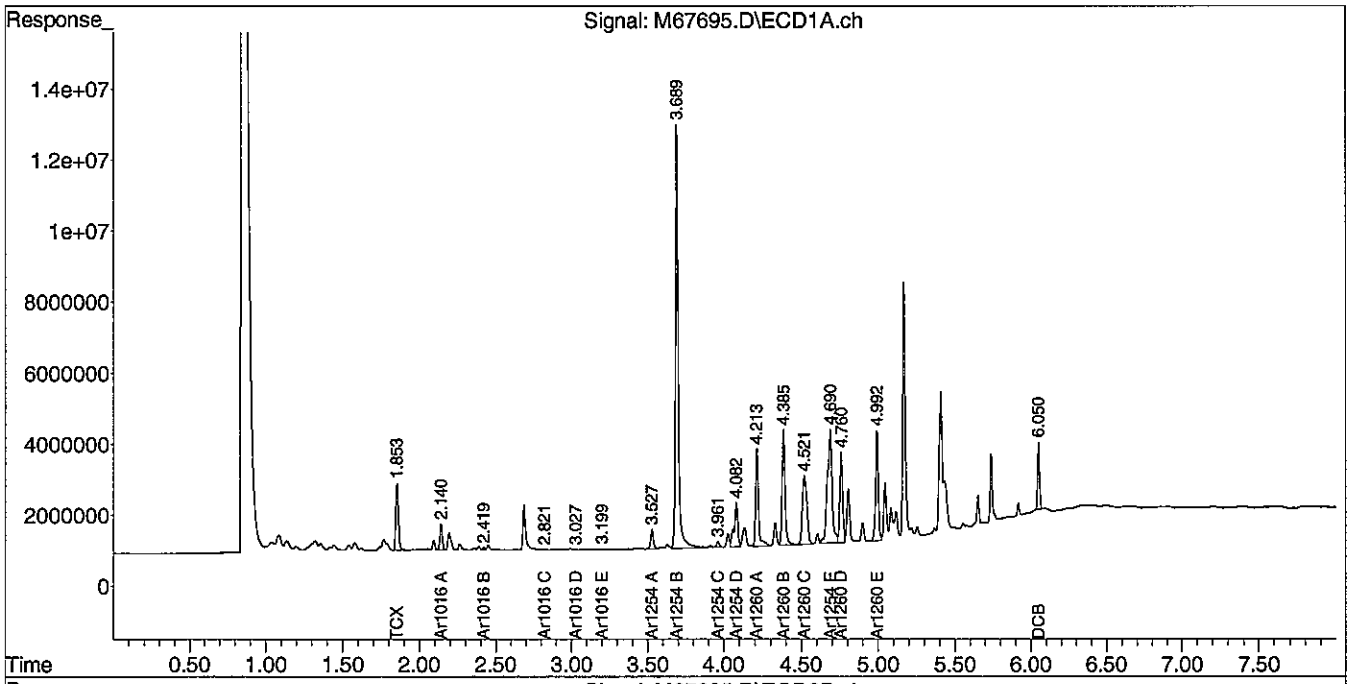
Comments: _____

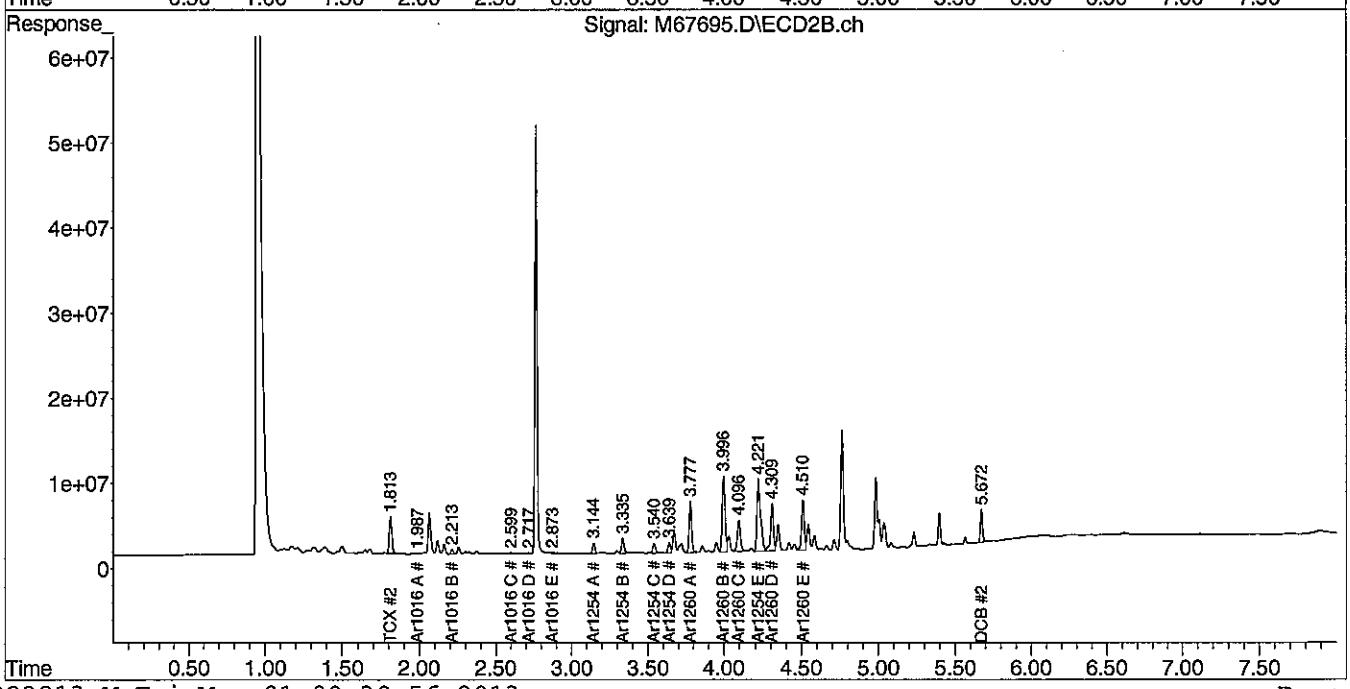
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67695.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2013 11:31 pm
Operator : JK
Sample : 74886-4,1:10,,A/C
Misc : SOIL
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:23:29 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74886-5 |
| **Matrix:** | Solid |
| **Percent Solid:** | 80 |
| **Dilution Factor:** | 115 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/28/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-230 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 3800 | U |
| PCB-1221 | 3800 | U |
| PCB-1232 | 3800 | U |
| PCB-1242 | 3800 | U |
| PCB-1248 | 3800 | U |
| PCB-1254 | 3800 | U |
| PCB-1260 | 3800 | **27700** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886
Sample: 74886-5,1:100,,A/C
Data File: M67696.D
Dilution Factor: 114.6

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 27689 | 24630 | 11.7 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

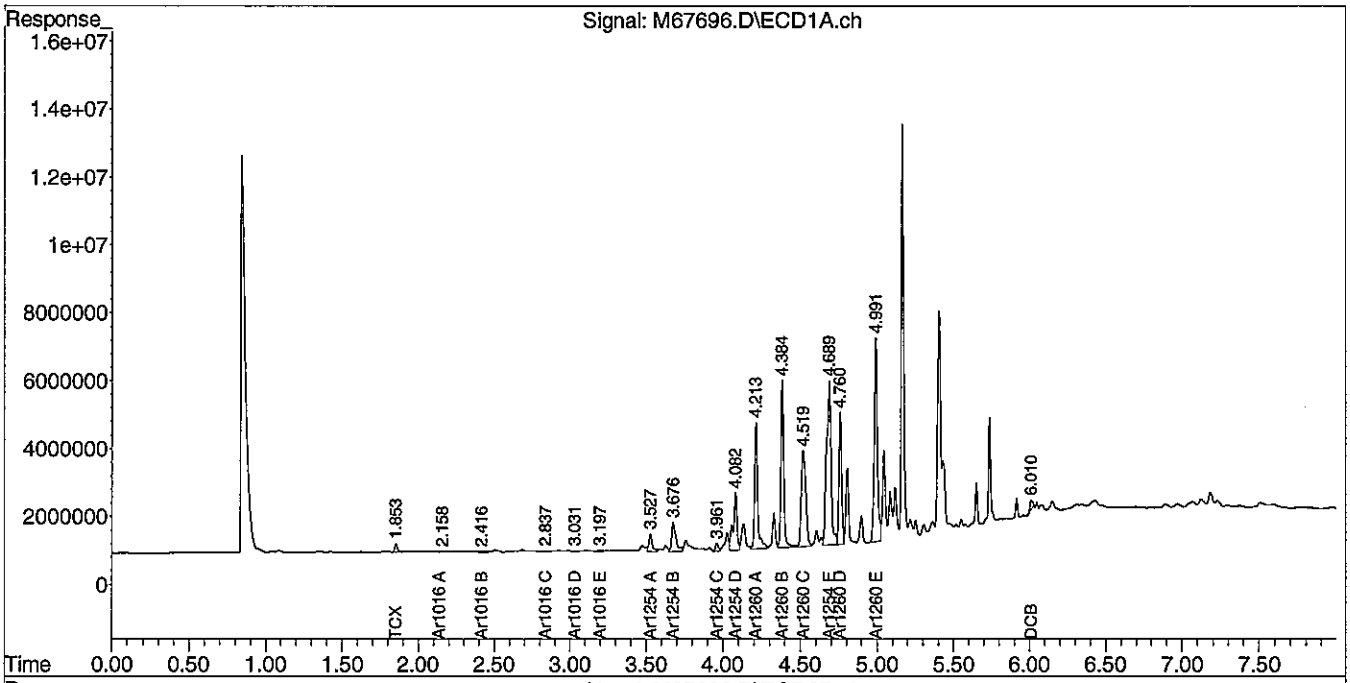
Comments: _____

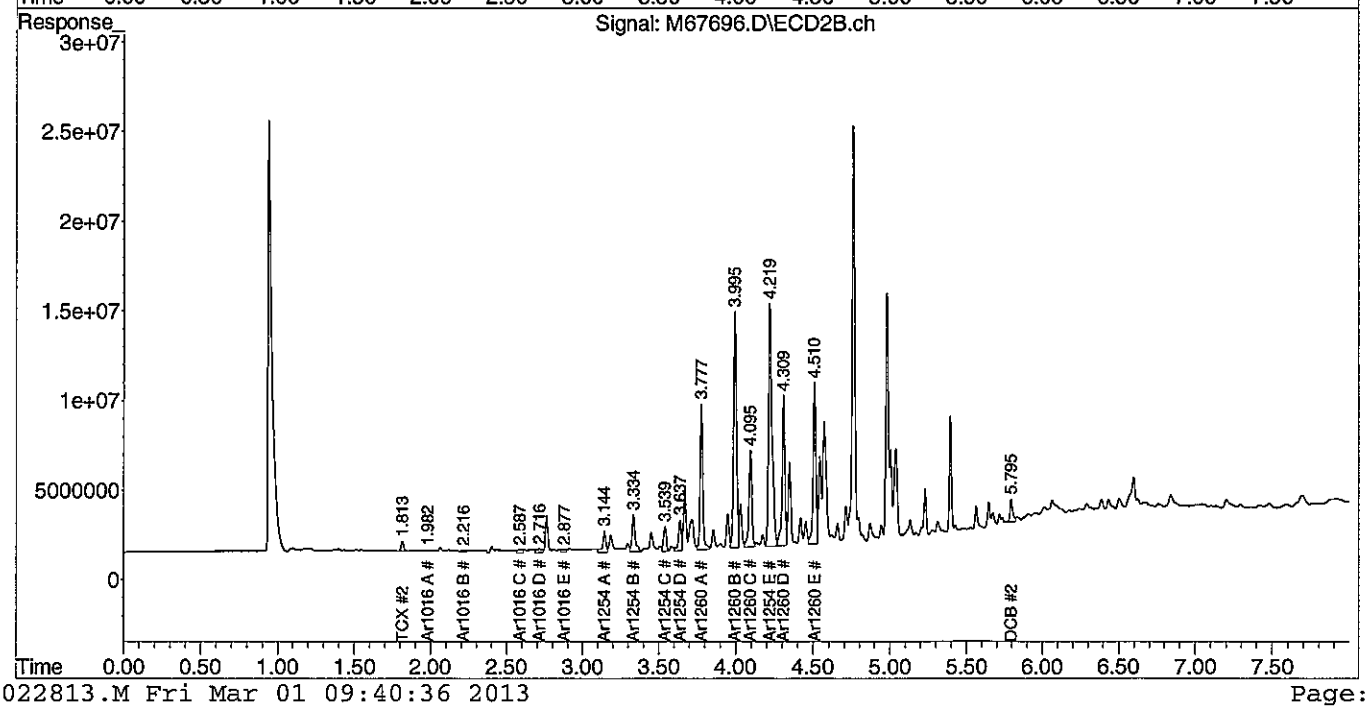
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67696.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2013 11:41 pm
Operator : JK
Sample : 74886-5,1:100,,A/C
Misc : SOIL
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:23:31 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74886-6 |
| **Matrix:** | Solid |
| **Percent Solid:** | 92 |
| **Dilution Factor:** | 10 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/28/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-230 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 330 | U |
| PCB-1221 | 330 | U |
| PCB-1232 | 330 | U |
| PCB-1242 | 330 | U |
| PCB-1248 | 330 | U |
| PCB-1254 | 330 | U |
| PCB-1260 | 330 | **3080** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 103 | % |
| Decachlorobiphenyl | 95 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886
Sample: 74886-6,1:10,,A/C
Data File: M67697.D
Dilution Factor: 10.1

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 3081 | 3015 | 2.1 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

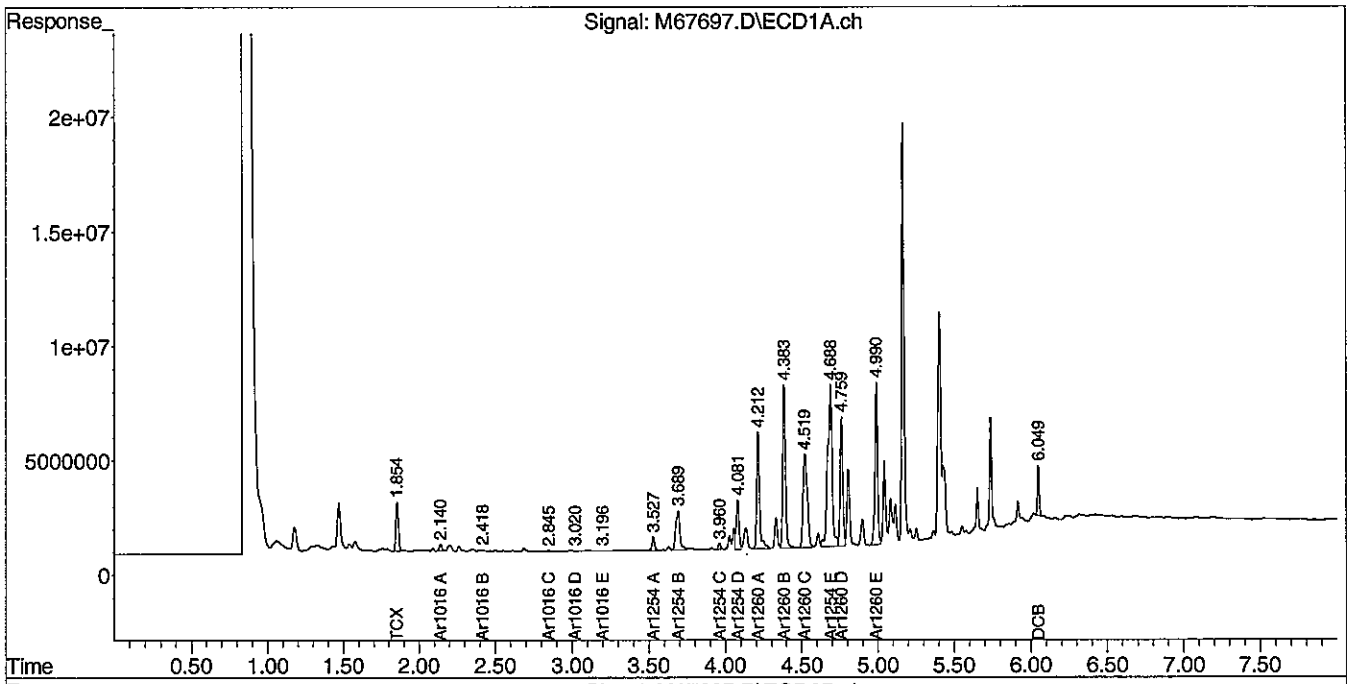
Comments: _____

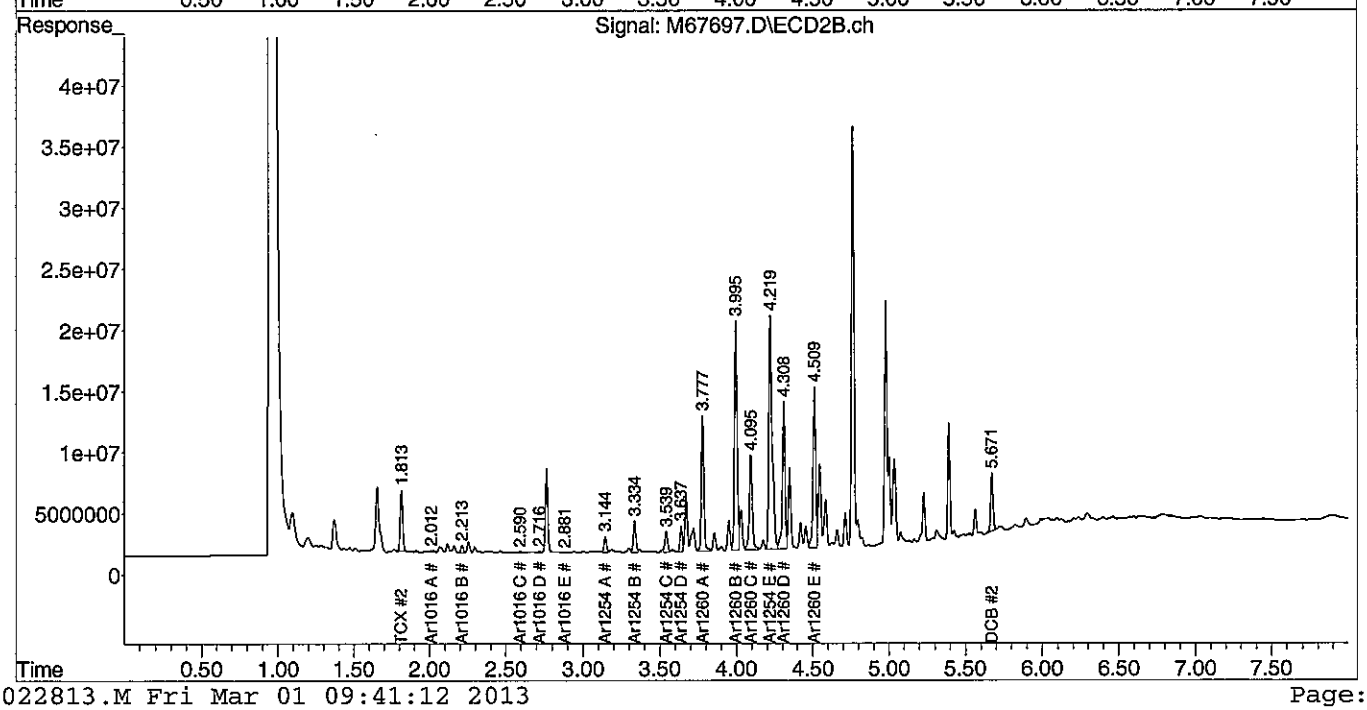
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67697.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2013 11:51 pm
Operator : JK
Sample : 74886-6,1:10,,A/C
Misc : SOIL
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:23:33 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74886-7 |
| **Matrix:** | Solid |
| **Percent Solid:** | 86 |
| **Dilution Factor:** | 56 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-231 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 1850 | U |
| PCB-1221 | 1850 | U |
| PCB-1232 | 1850 | U |
| PCB-1242 | 1850 | U |
| PCB-1248 | 1850 | U |
| PCB-1254 | 1850 | U |
| PCB-1260 | 1850 | **17800** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886
Sample: 74886-7,1:50,,A/C
Data File: M67698.D
Dilution Factor: 56.4

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 17767 | 17761 | 0.0 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

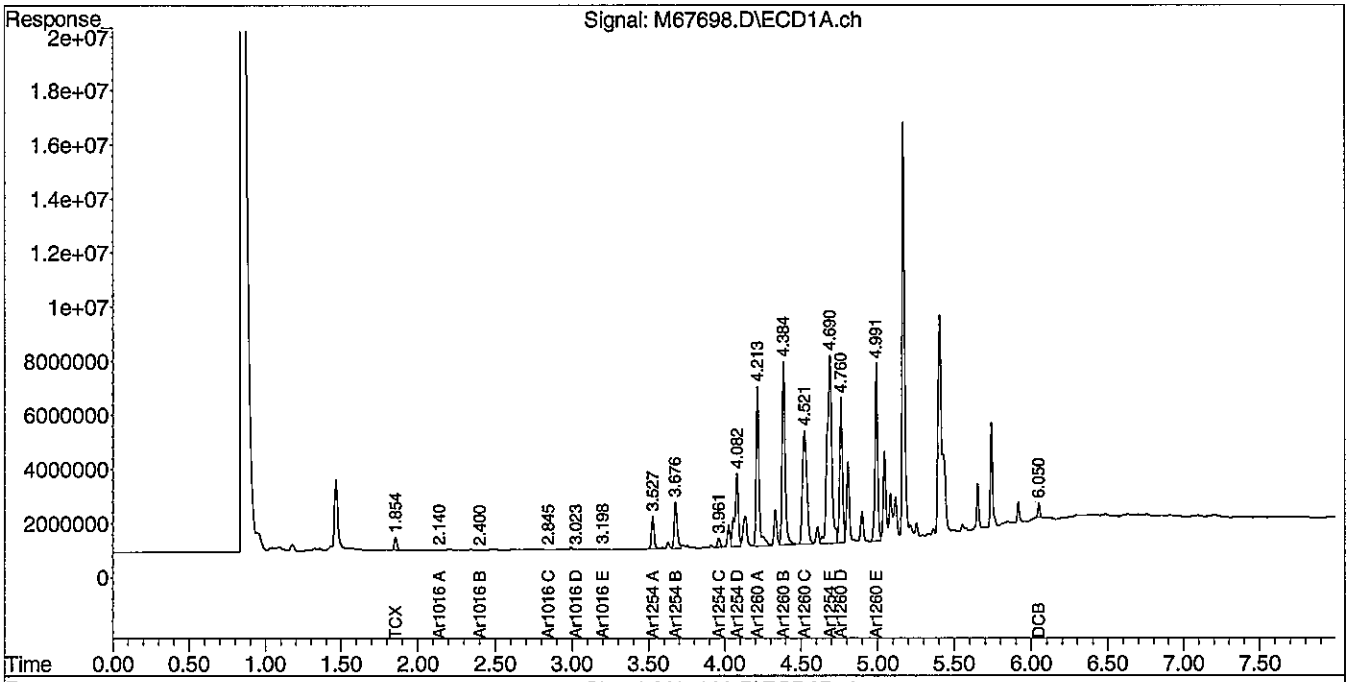
Comments: _____

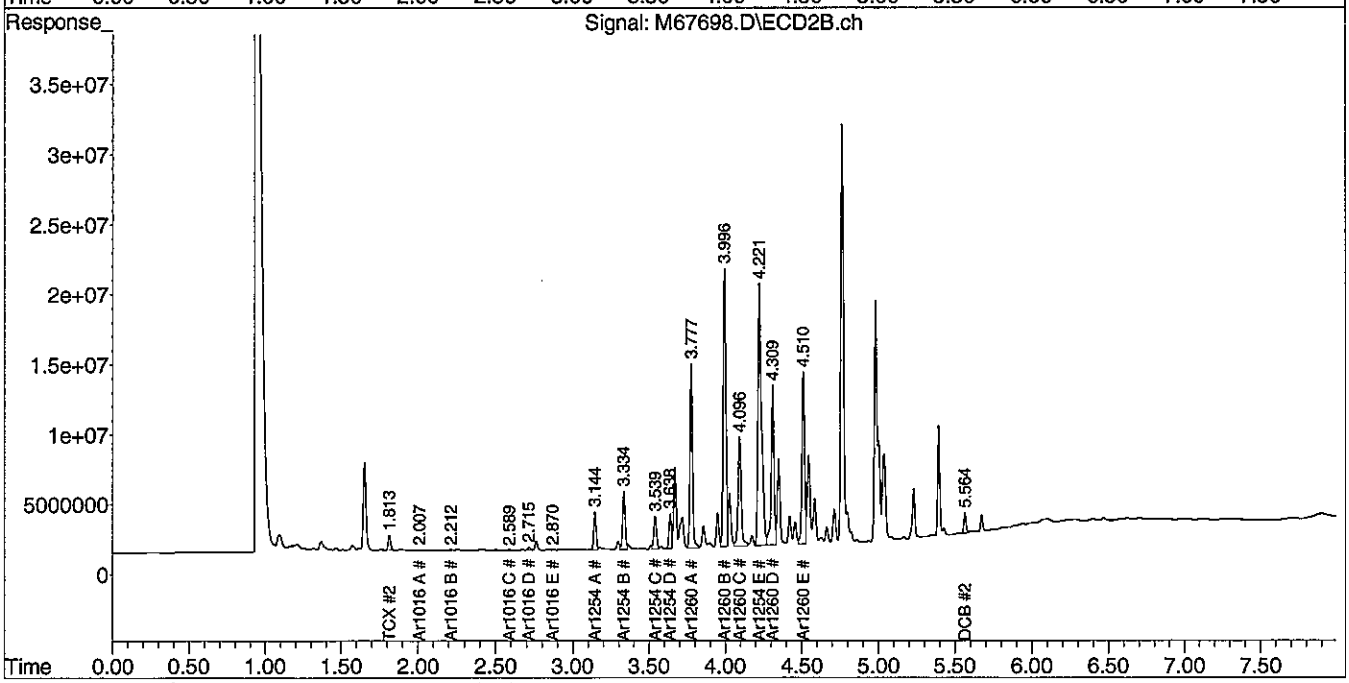
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67698.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 12:01 am
Operator : JK
Sample : 74886-7,1:50,,A/C
Misc : SOIL
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:23:35 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74886-8 |
| **Matrix:** | Solid |
| **Percent Solid:** | 89 |
| **Dilution Factor:** | 1090 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-231 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 36000 | U |
| PCB-1221 | 36000 | U |
| PCB-1232 | 36000 | U |
| PCB-1242 | 36000 | U |
| PCB-1248 | 36000 | U |
| PCB-1254 | 36000 | U |
| PCB-1260 | 36000 | **324000** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886
Sample: 74886-8,1:1000,,A/C
Data File: M67699.D
Dilution Factor: 1090.3

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 321505 | 324249 | 0.8 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

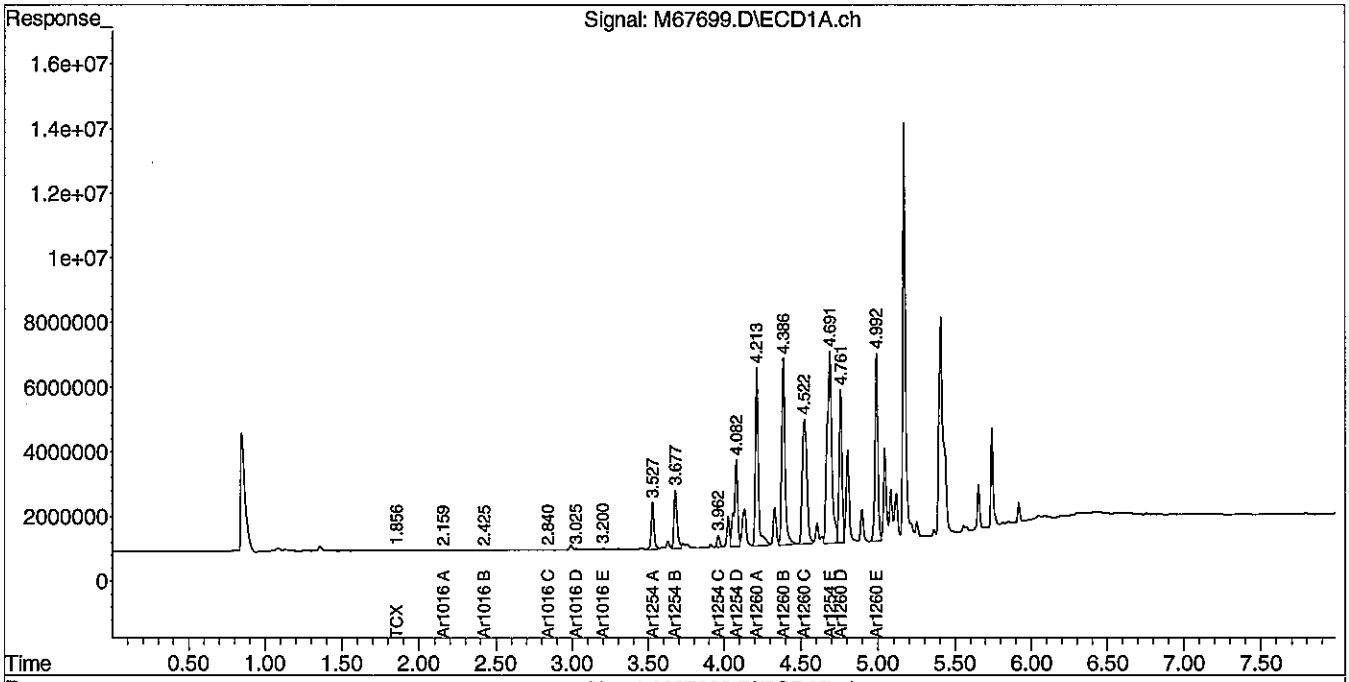
Comments: _____

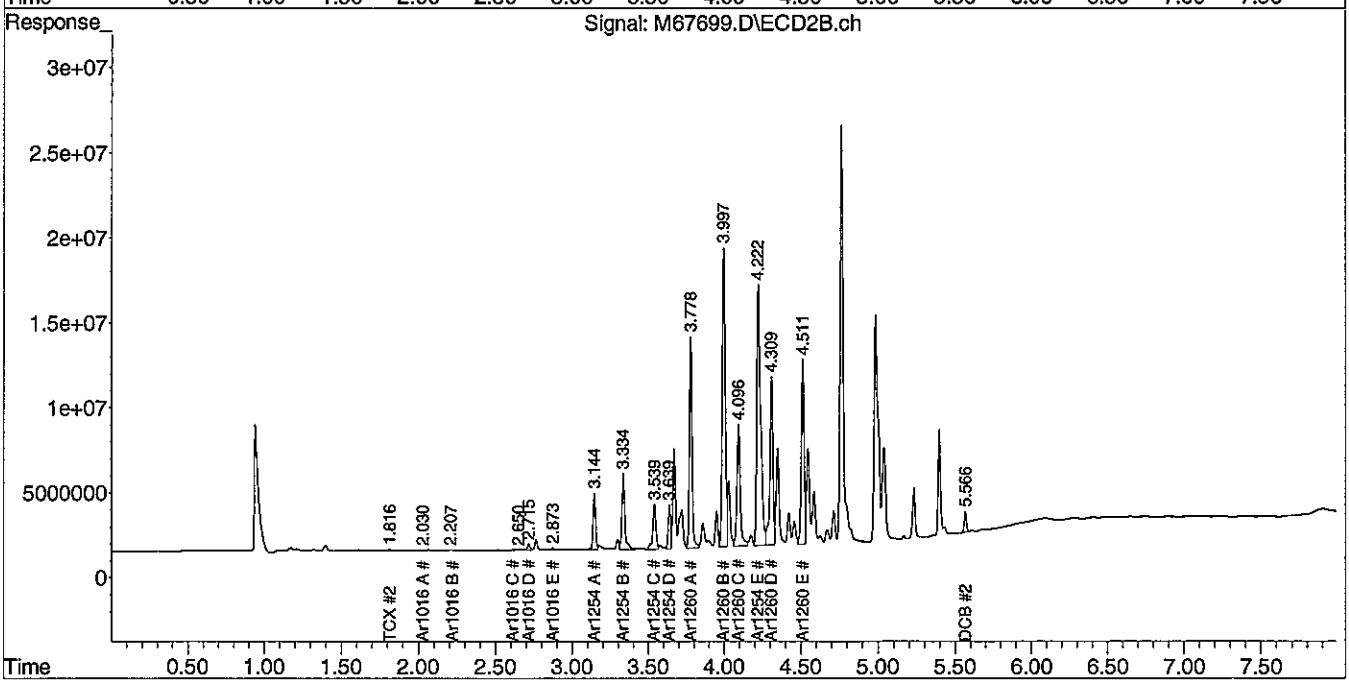
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67699.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 12:11 am
Operator : JK
Sample : 74886-8,1:1000,,A/C
Misc : SOIL
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:23:37 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74886-9 |
| **Matrix:** | Solid |
| **Percent Solid:** | 89 |
| **Dilution Factor:** | 217 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-231 (4-6') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 7160 | U |
| PCB-1221 | 7160 | U |
| PCB-1232 | 7160 | U |
| PCB-1242 | 7160 | U |
| PCB-1248 | 7160 | U |
| PCB-1254 | 7160 | U |
| PCB-1260 | 7160 | **164000** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886
Sample: 74886-9,1:200,,A/C
Data File: M67700.D
Dilution Factor: 217.1

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 163775 | 163769 | 0.0 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

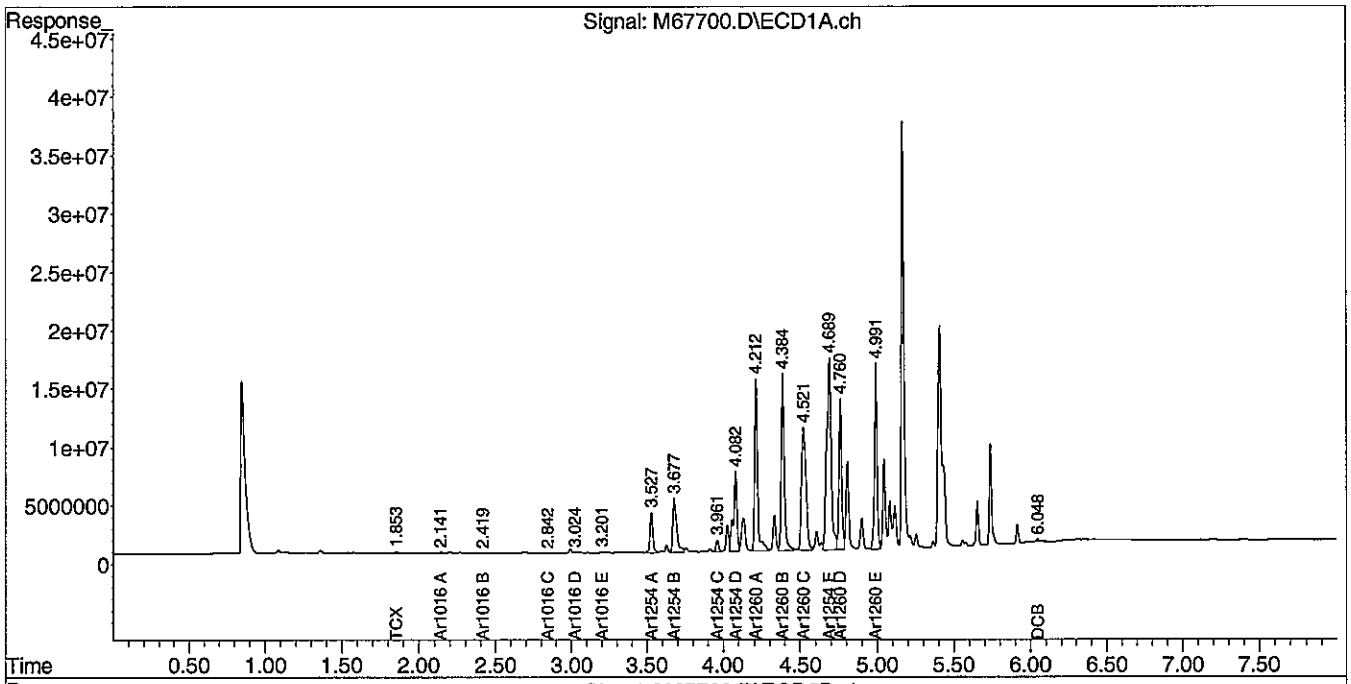
Comments: _____

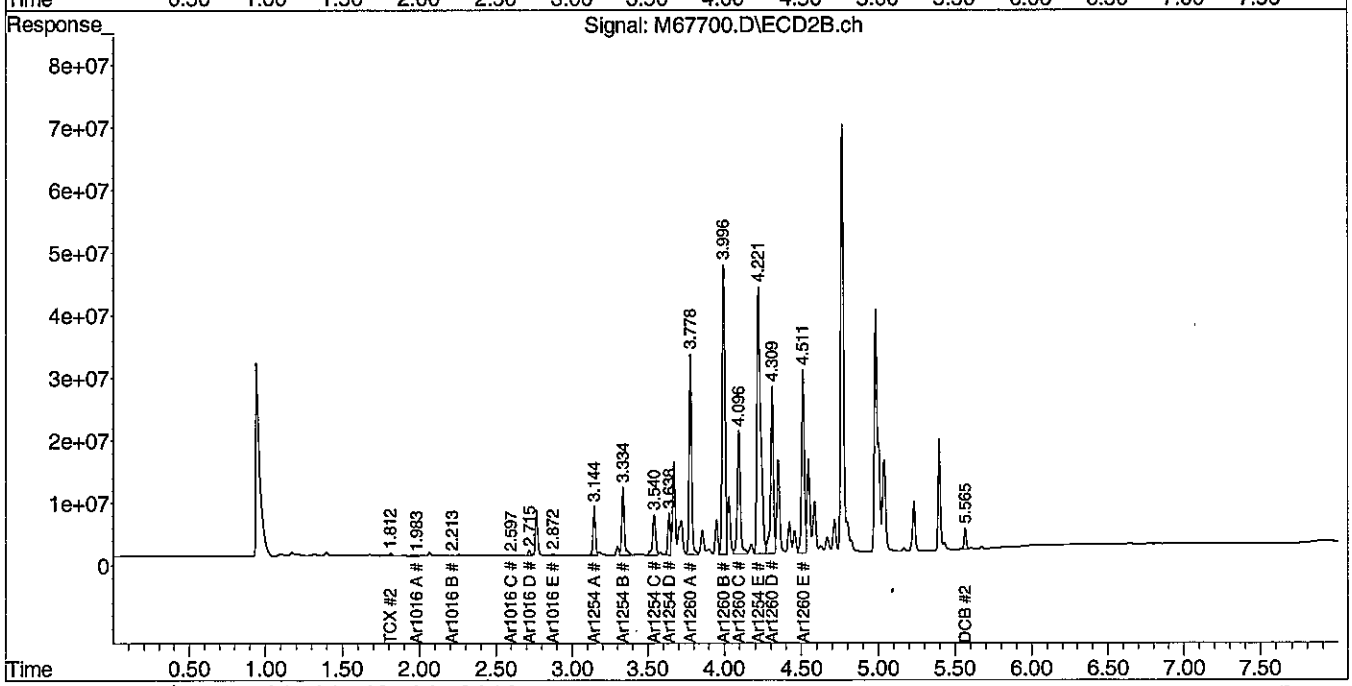
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67700.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 12:21 am
Operator : JK
Sample : 74886-9,1:200,,A/C
Misc : SOIL
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:23:39 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74886-10 |
| **Matrix:** | Solid |
| **Percent Solid:** | 89 |
| **Dilution Factor:** | 5320 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-231 (6-8') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 176000 | U |
| PCB-1221 | 176000 | U |
| PCB-1232 | 176000 | U |
| PCB-1242 | 176000 | U |
| PCB-1248 | 176000 | U |
| PCB-1254 | 176000 | U |
| PCB-1260 | 176000 | **3150000** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886
Sample: 74886-10,1:5000,,A/C
Data File: M67767.D
Dilution Factor: 5319.6

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 3153212 | 2907949 | 8.1 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

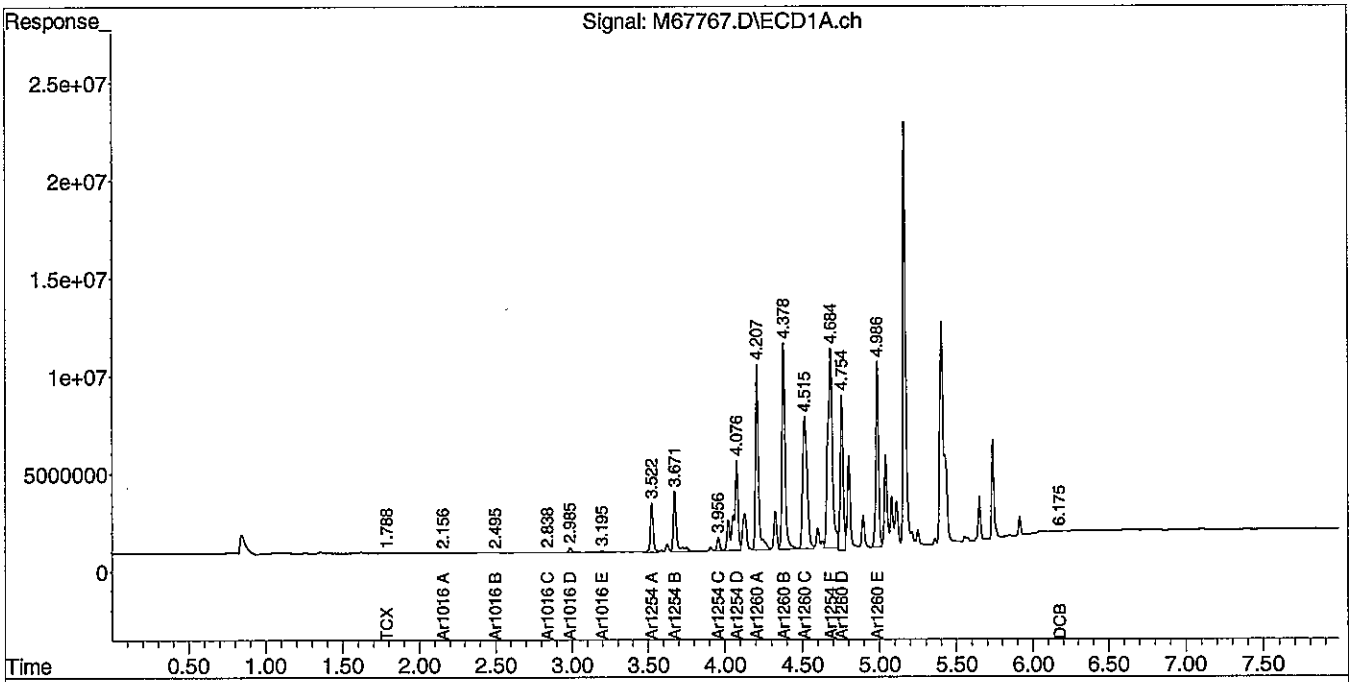
Comments: _____

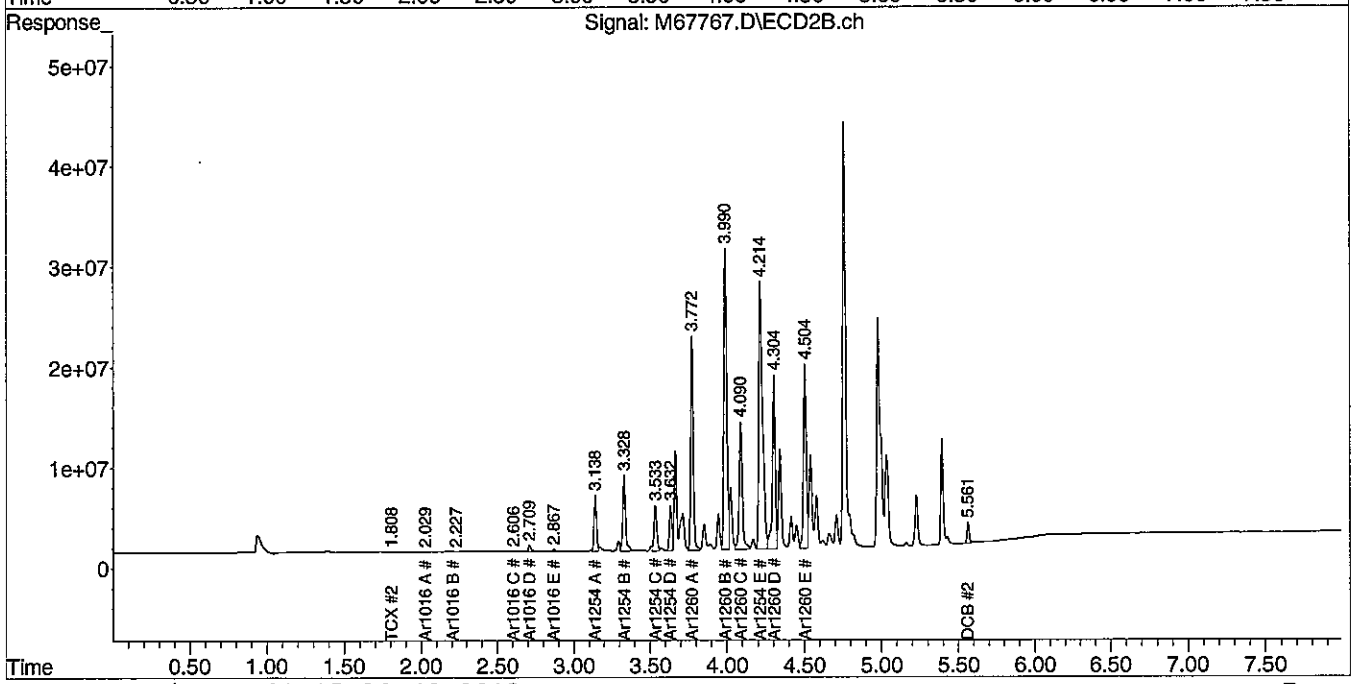
PCB FORM 10

Data Path : C:\msdchem\1\DATA\023013-M\
Data File : M67767.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 12:38 pm
Operator : JK
Sample : 74886-10,1:5000,,A/C
Misc : SOIL
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 15:39:40 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Feb 28 11:22:13 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74886-11 |
| **Matrix:** | Solid |
| **Percent Solid:** | 89 |
| **Dilution Factor:** | 6 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-235 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 198 | U |
| PCB-1221 | 198 | U |
| PCB-1232 | 198 | U |
| PCB-1242 | 198 | U |
| PCB-1248 | 198 | U |
| PCB-1254 | 198 | U |
| PCB-1260 | 198 | **2240** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 73 | % |
| Decachlorobiphenyl | 67 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886
Sample: 74886-11,1:5
Data File: M67702.D
Dilution Factor: 5.5

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 2240 | 2188 | 2.3 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

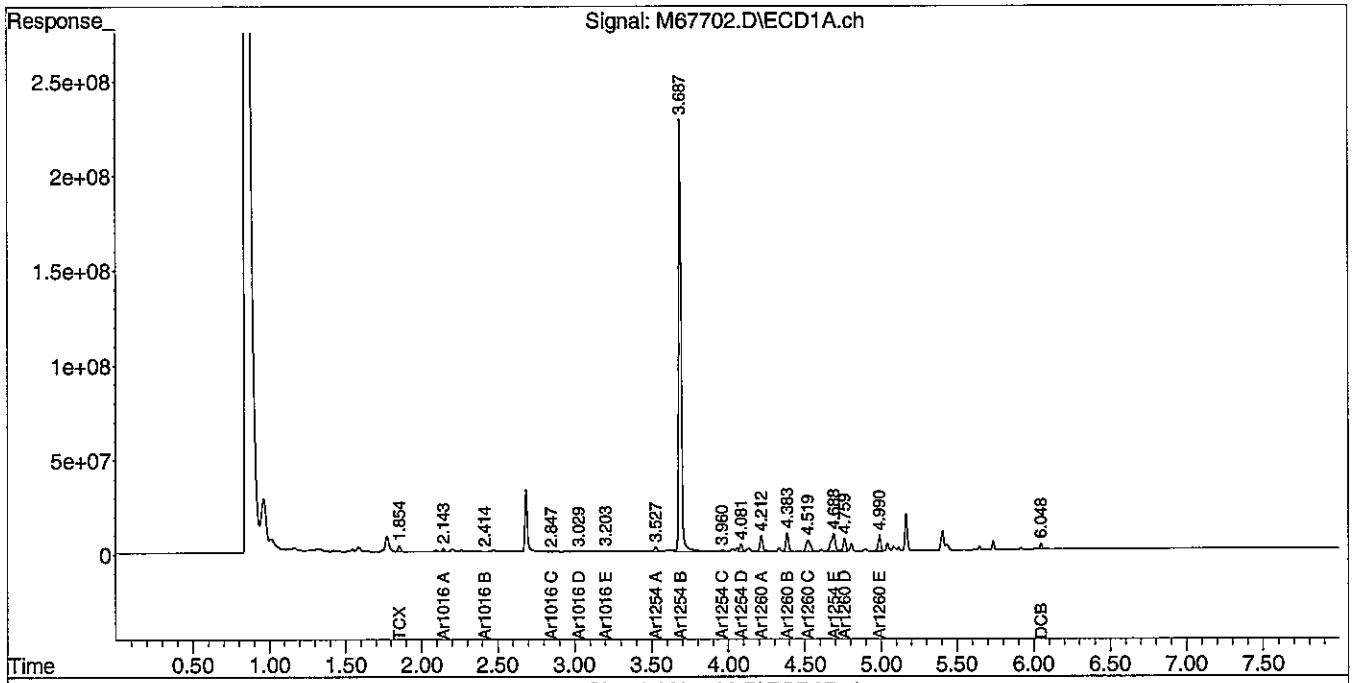
Comments: _____

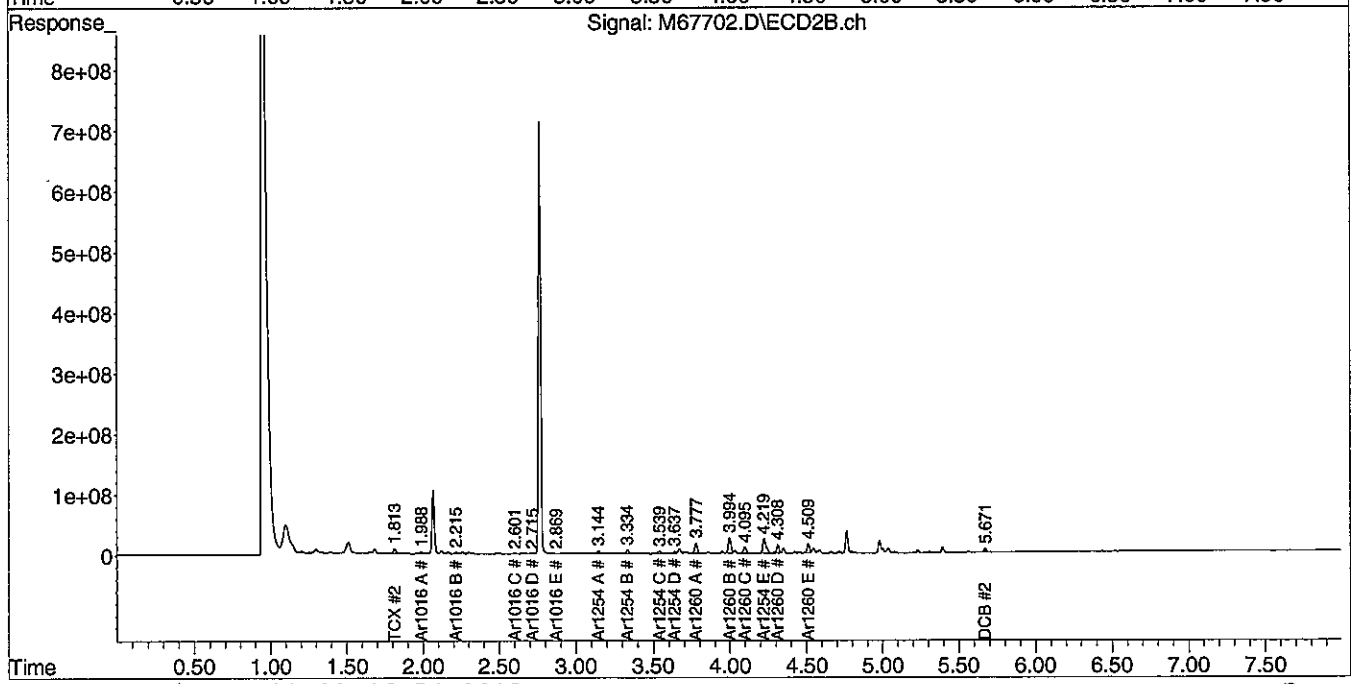
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67702.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 12:42 am
Operator : JK
Sample : 74886-11,1:5
Misc : SOIL
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:23:43 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74886-12 |
| **Matrix:** | Solid |
| **Percent Solid:** | 87 |
| **Dilution Factor:** | 2.2 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-235 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 73 | U |
| PCB-1221 | 73 | U |
| PCB-1232 | 73 | U |
| PCB-1242 | 73 | U |
| PCB-1248 | 73 | U |
| PCB-1254 | 73 | U |
| PCB-1260 | 73 | **488** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 72 | % |
| Decachlorobiphenyl | 77 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886
Sample: 74886-12.1:2
Data File: M67703.D
Dilution Factor: 2.2

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 488 | 440 | 10.4 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

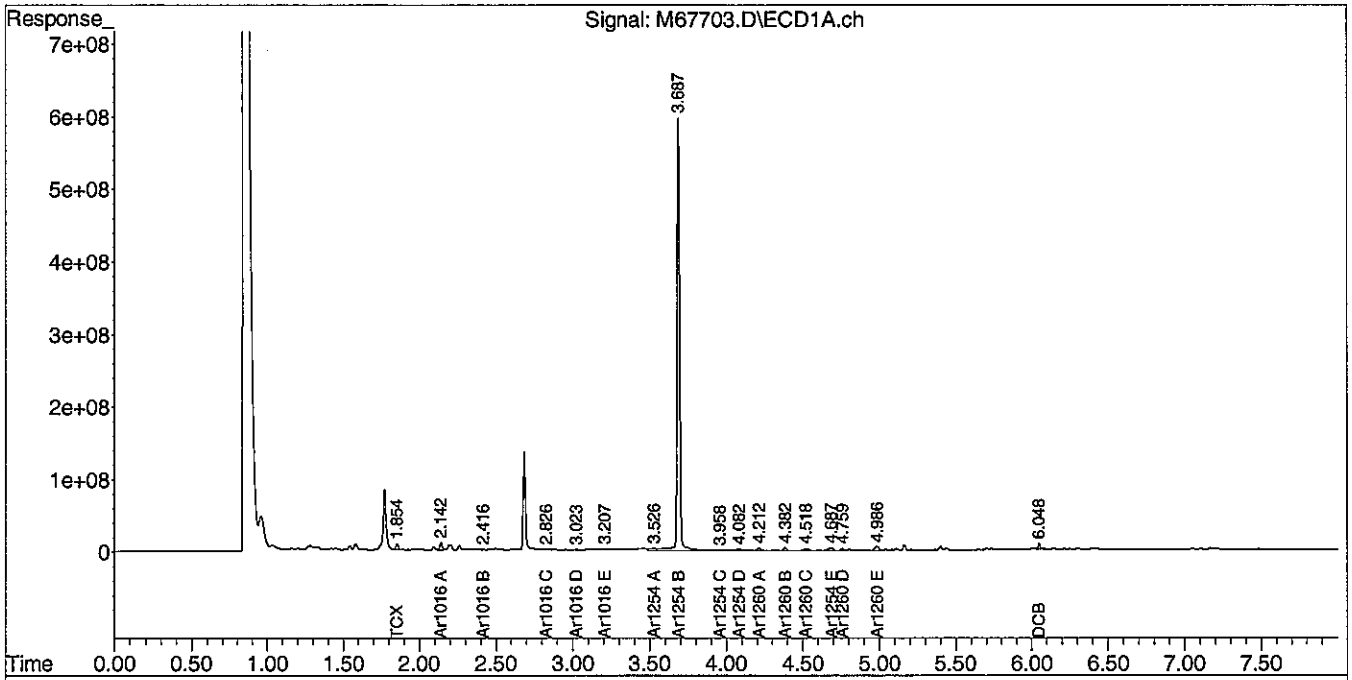
Comments: _____

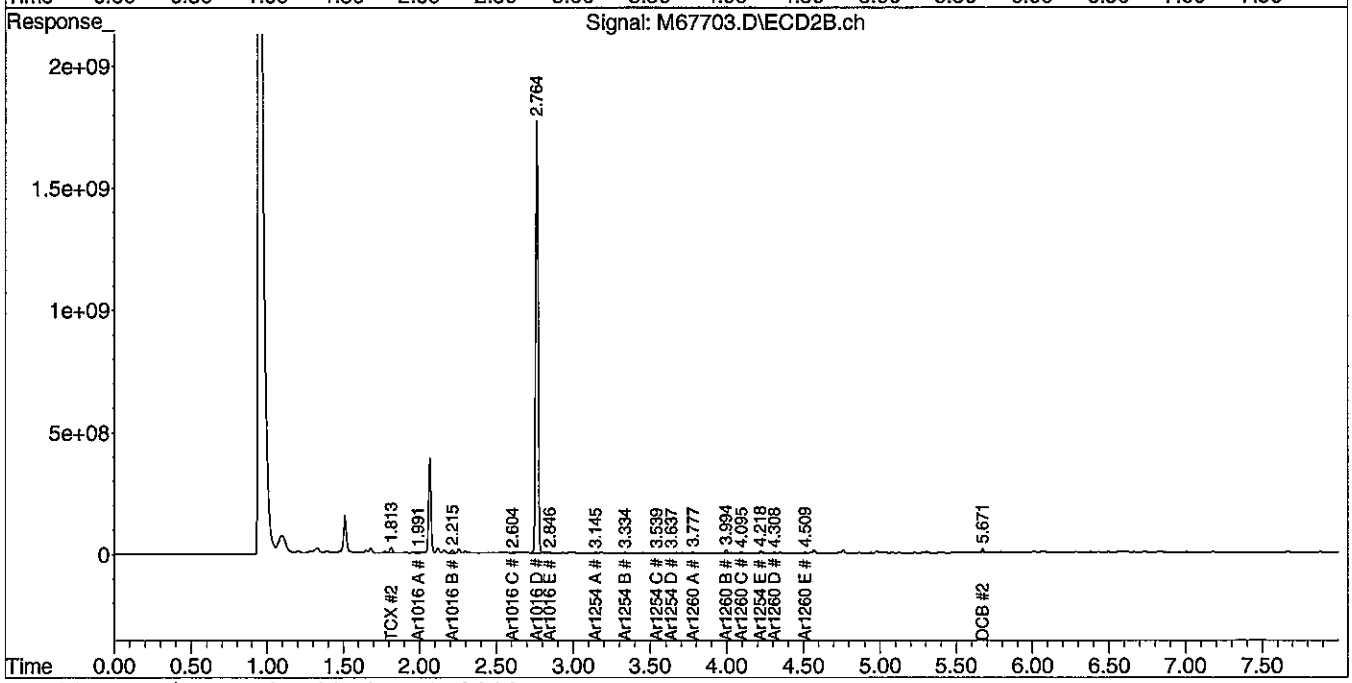
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67703.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 12:52 am
Operator : JK
Sample : 74886-12.1:2
Misc : SOIL
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:23:45 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74886-13 |
| **Matrix:** | Solid |
| **Percent Solid:** | 89 |
| **Dilution Factor:** | 1.1 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-235 (4-6') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 36 | U |
| PCB-1221 | 36 | U |
| PCB-1232 | 36 | U |
| PCB-1242 | 36 | U |
| PCB-1248 | 36 | U |
| PCB-1254 | 36 | U |
| PCB-1260 | 36 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 64 | % |
| Decachlorobiphenyl | 76 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

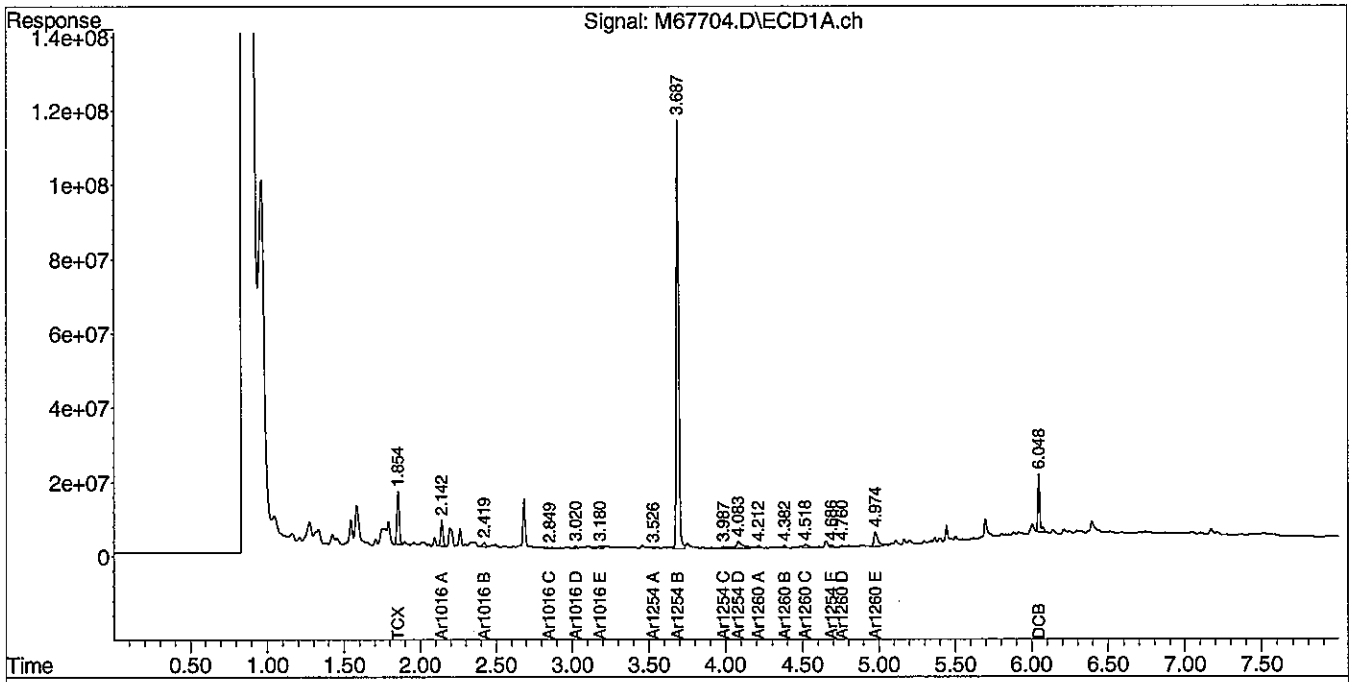
PCB Report

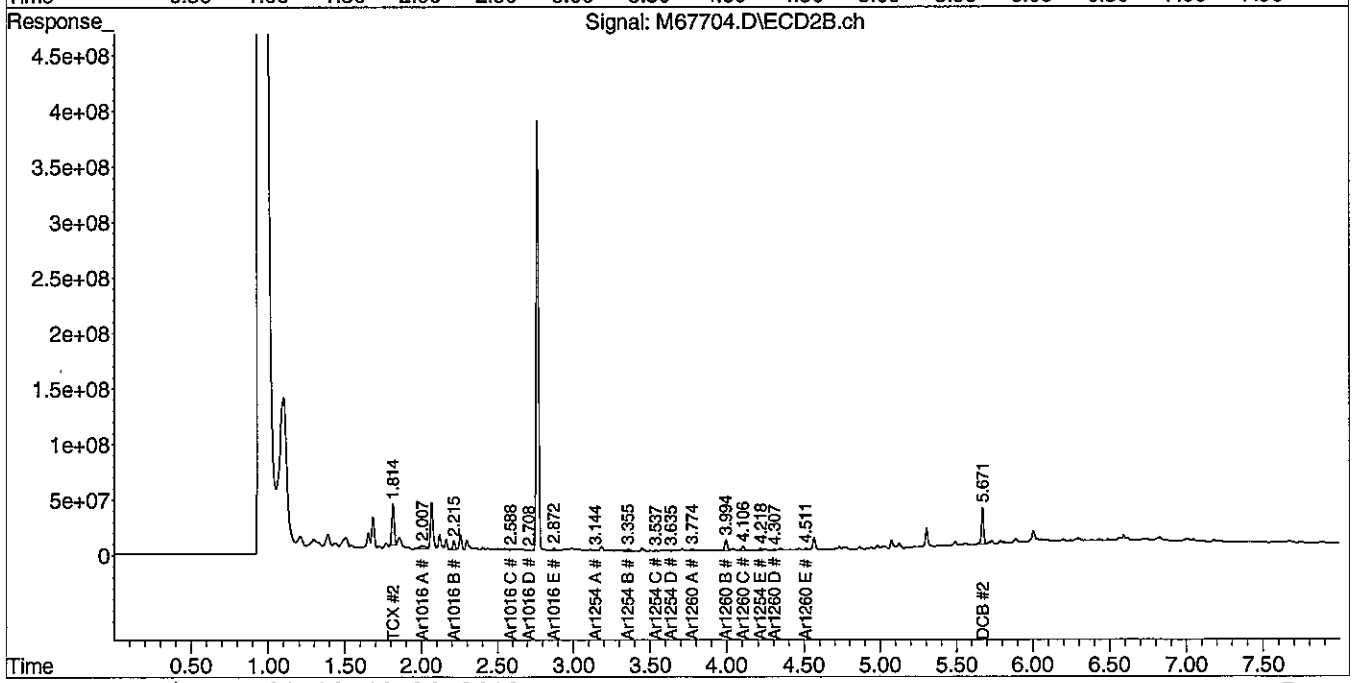
Authorized signature

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67704.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 1:02 am
Operator : JK
Sample : 74886-13
Misc : SOIL
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:23:47 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74886-14 |
| **Matrix:** | Solid |
| **Percent Solid:** | 87 |
| **Dilution Factor:** | 6 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-235 (6-8') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 198 | U |
| PCB-1221 | 198 | U |
| PCB-1232 | 198 | U |
| PCB-1242 | 198 | U |
| PCB-1248 | 198 | U |
| PCB-1254 | 198 | U |
| PCB-1260 | 198 | **1380** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 80 | % |
| Decachlorobiphenyl | 72 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886
Sample: 74886-14,1:5
Data File: M67705.D
Dilution Factor: 5.7

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 1377 | 1353 | 1.7 | |

# Column to be used to flag RPD values greater than QC limit of 40%

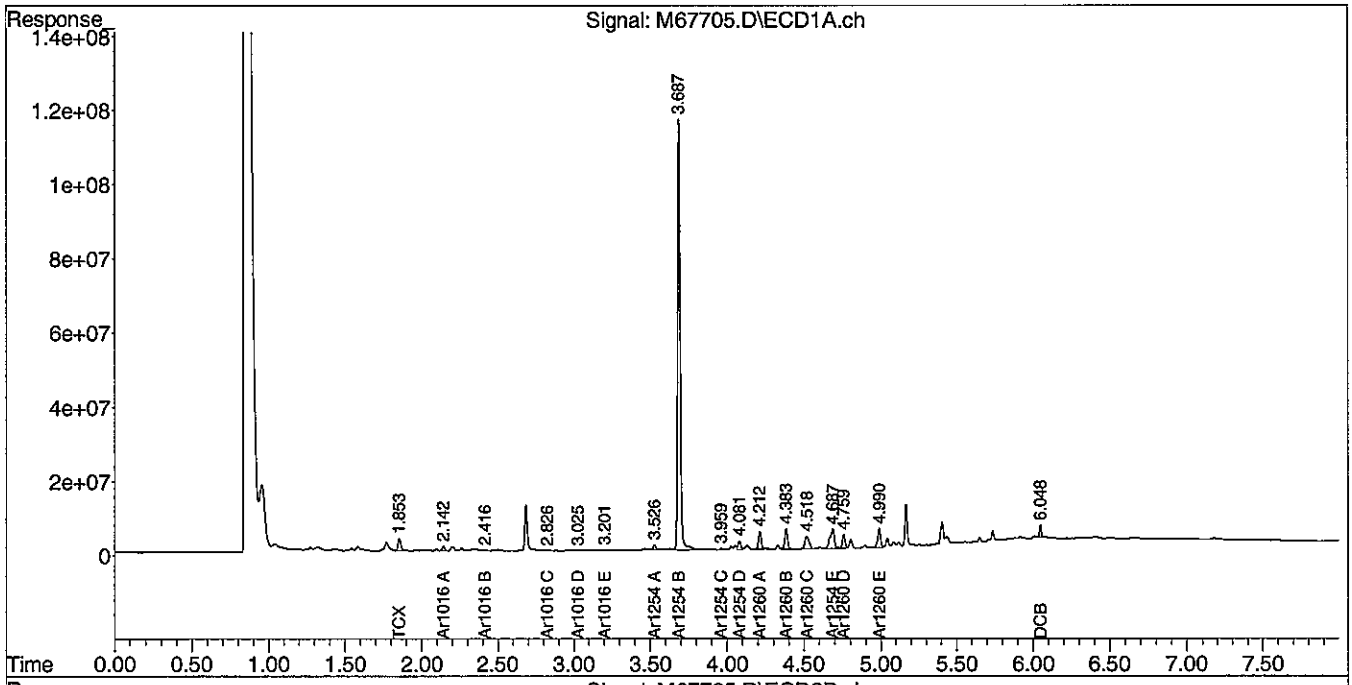
* Values outside QC limits

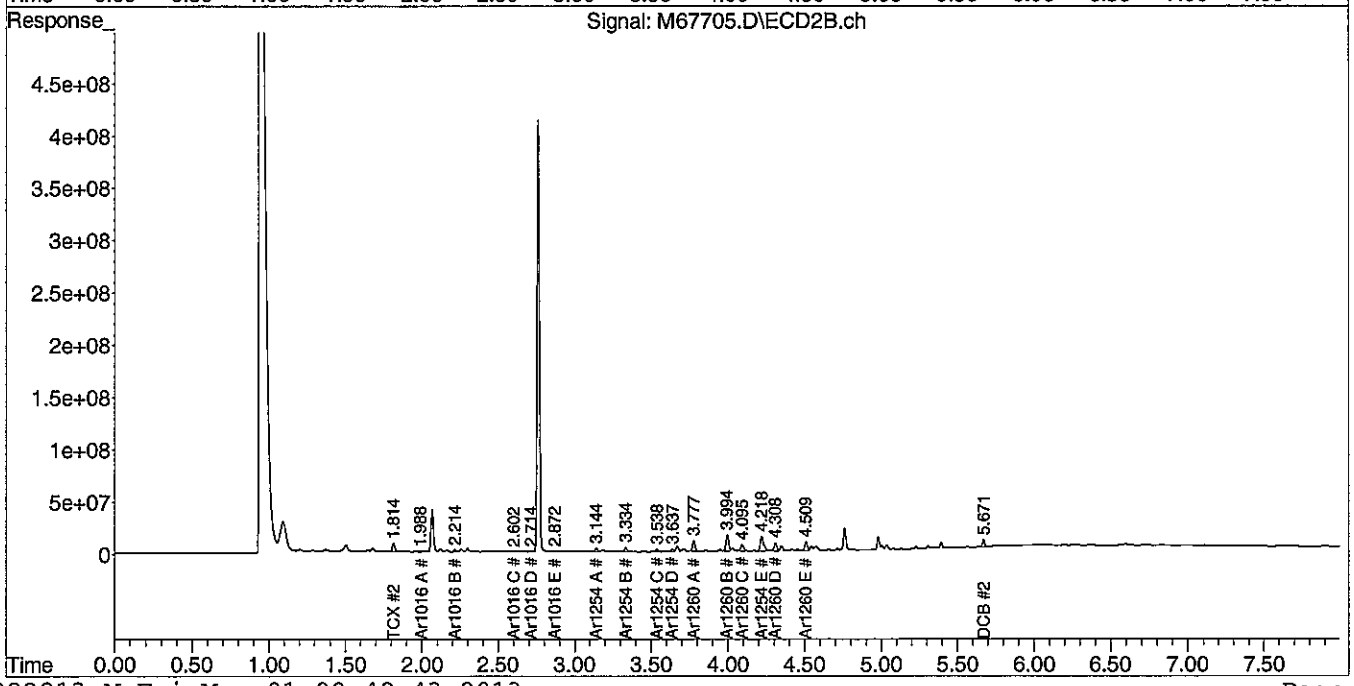
Comments: _____

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67705.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 1:12 am
Operator : JK
Sample : 74886-14,1:5
Misc : SOIL
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:23:49 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74886-15 |
| **Matrix:** | Solid |
| **Percent Solid:** | 89 |
| **Dilution Factor:** | 2.2 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-235 (8-10') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 73 | U |
| PCB-1221 | 73 | U |
| PCB-1232 | 73 | U |
| PCB-1242 | 73 | U |
| PCB-1248 | 73 | U |
| PCB-1254 | 73 | U |
| PCB-1260 | 73 | **399** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 68 | % |
| Decachlorobiphenyl | 65 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886
Sample: 74886-15,1:2
Data File: M67706.D
Dilution Factor: 2.2

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 324 | 399 | 20.7 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

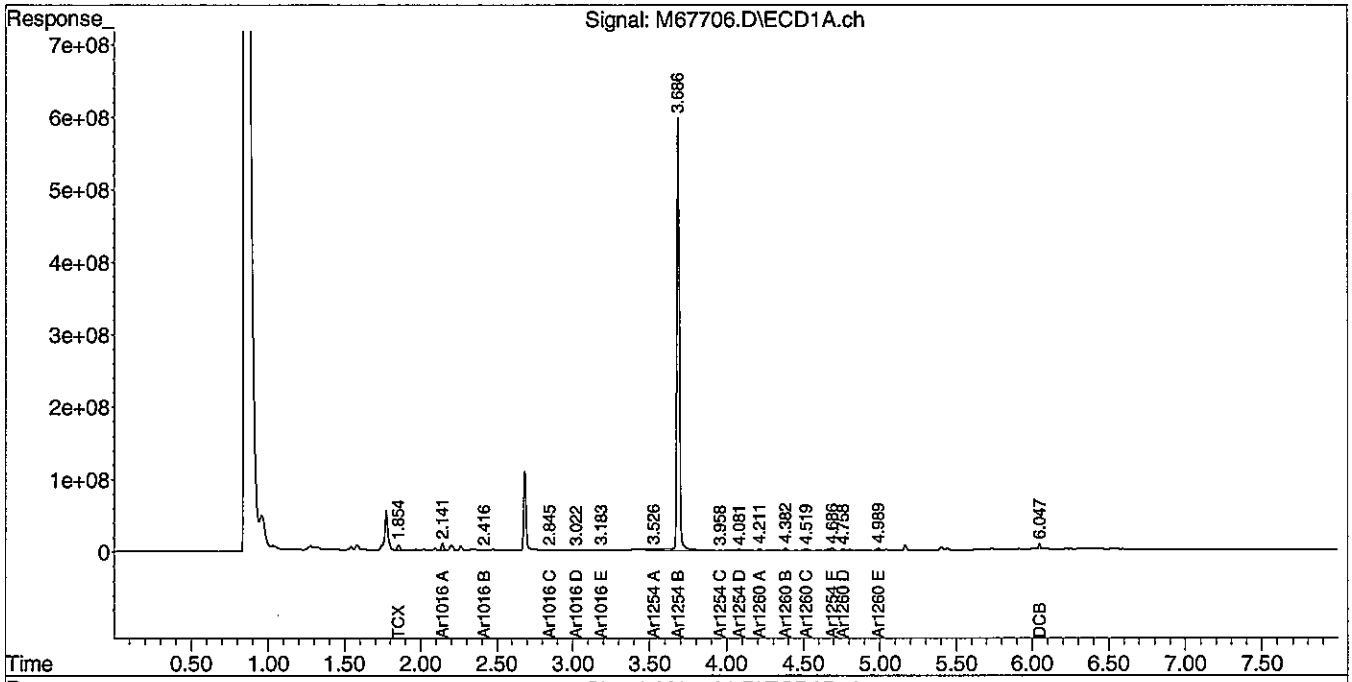
Comments: _____

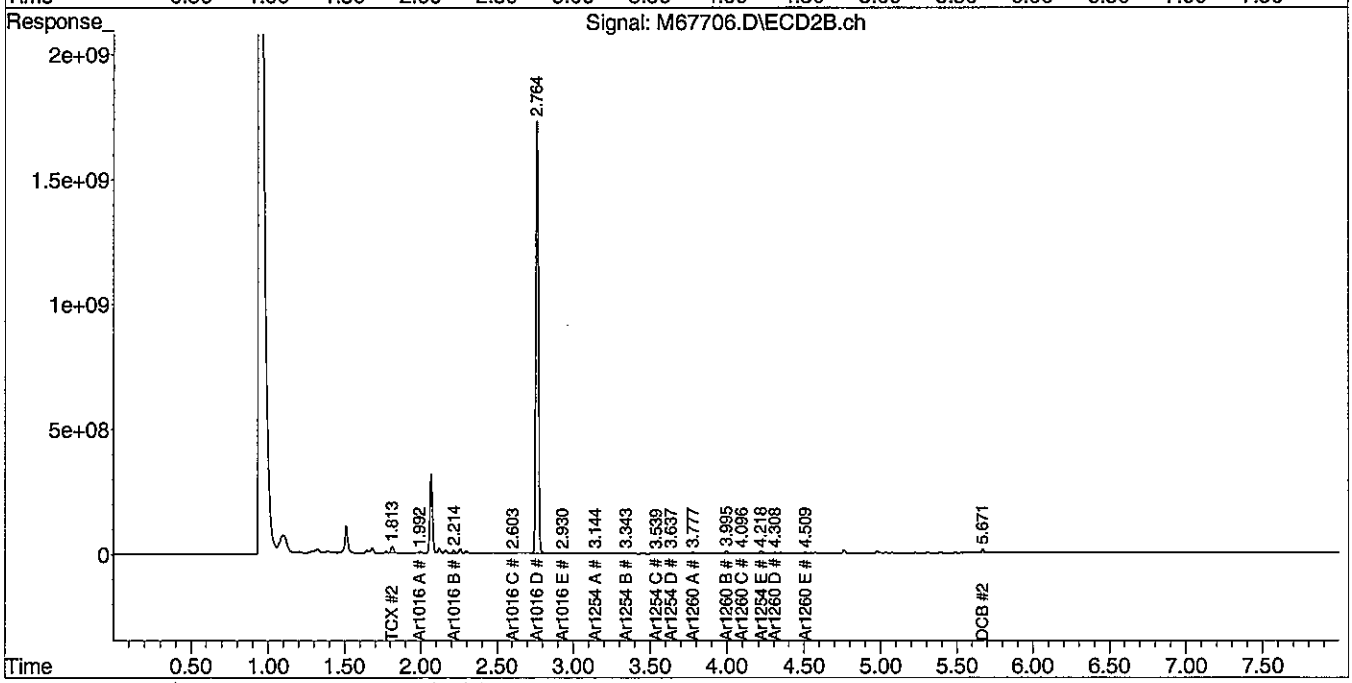
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67706.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 1:22 am
Operator : JK
Sample : 74886-15,1:2
Misc : SOIL
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:23:51 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74886-16 |
| **Matrix:** | Solid |
| **Percent Solid:** | 67 |
| **Dilution Factor:** | 1420 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-229 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 46900 | U |
| PCB-1221 | 46900 | U |
| PCB-1232 | 46900 | U |
| PCB-1242 | 46900 | U |
| PCB-1248 | 46900 | U |
| PCB-1254 | 46900 | U |
| PCB-1260 | 46900 | **577000** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886
Sample: 74886-16,1:1000
Data File: M67707.D
Dilution Factor: 1414.8

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 571783 | 577041 | 0.9 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

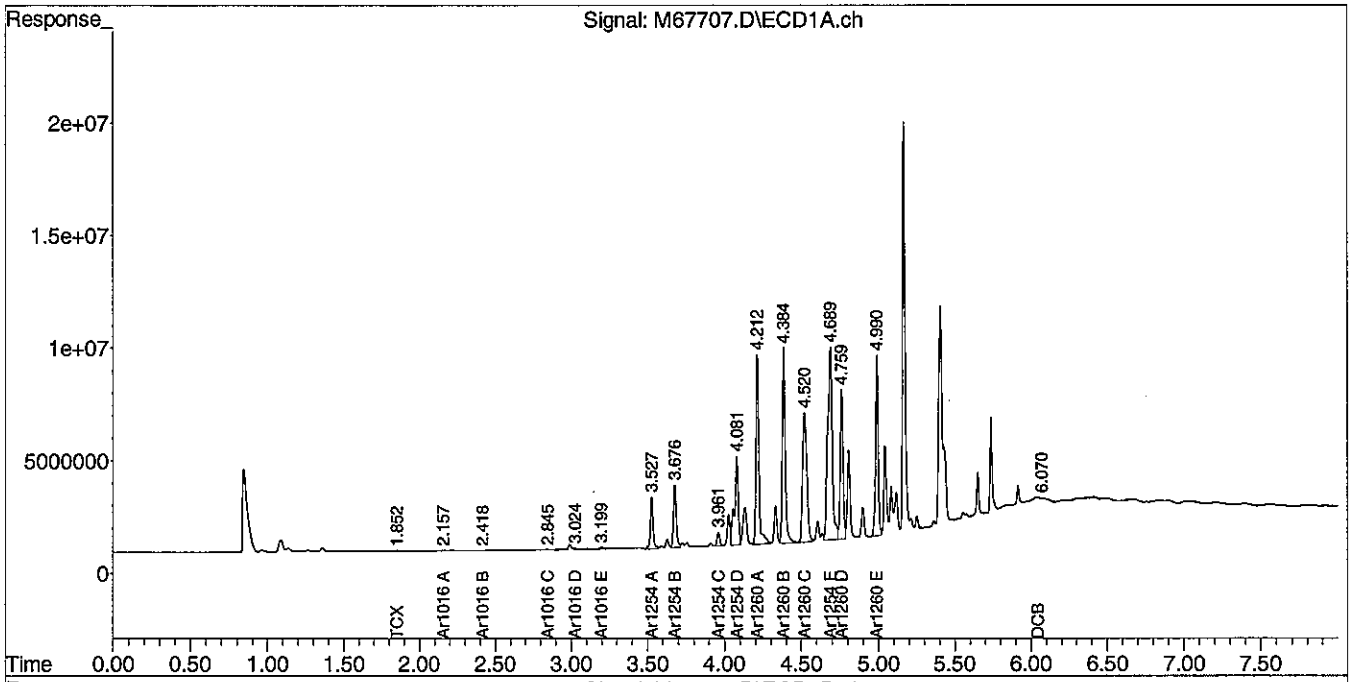
Comments: _____

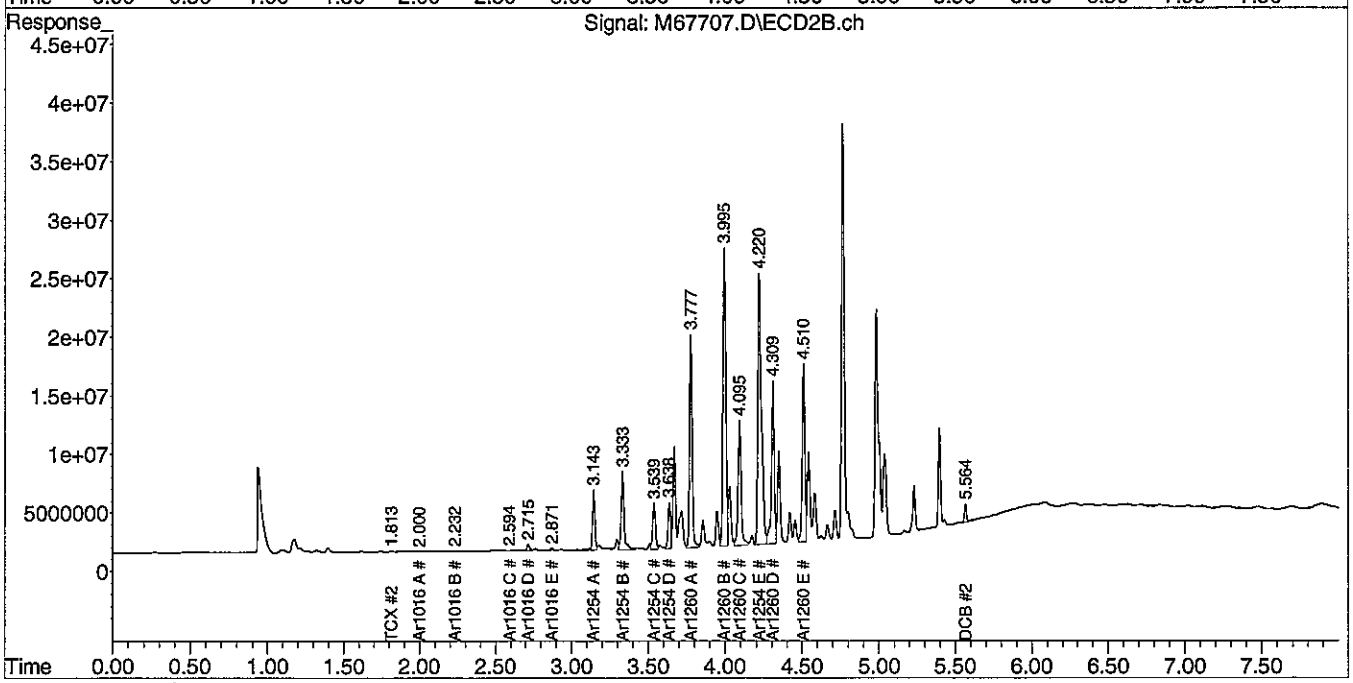
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67707.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 1:32 am
Operator : JK
Sample : 74886-16,1:1000
Misc : SOIL
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:23:53 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74886-17 |
| **Matrix:** | Solid |
| **Percent Solid:** | 87 |
| **Dilution Factor:** | 565 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-229 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 18600 | U |
| PCB-1221 | 18600 | U |
| PCB-1232 | 18600 | U |
| PCB-1242 | 18600 | U |
| PCB-1248 | 18600 | U |
| PCB-1254 | 18600 | U |
| PCB-1260 | 18600 | **192000** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886
Sample: 74886-17,1:500
Data File: M67708.D
Dilution Factor: 565.2

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 191908 | 191124 | 0.4 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

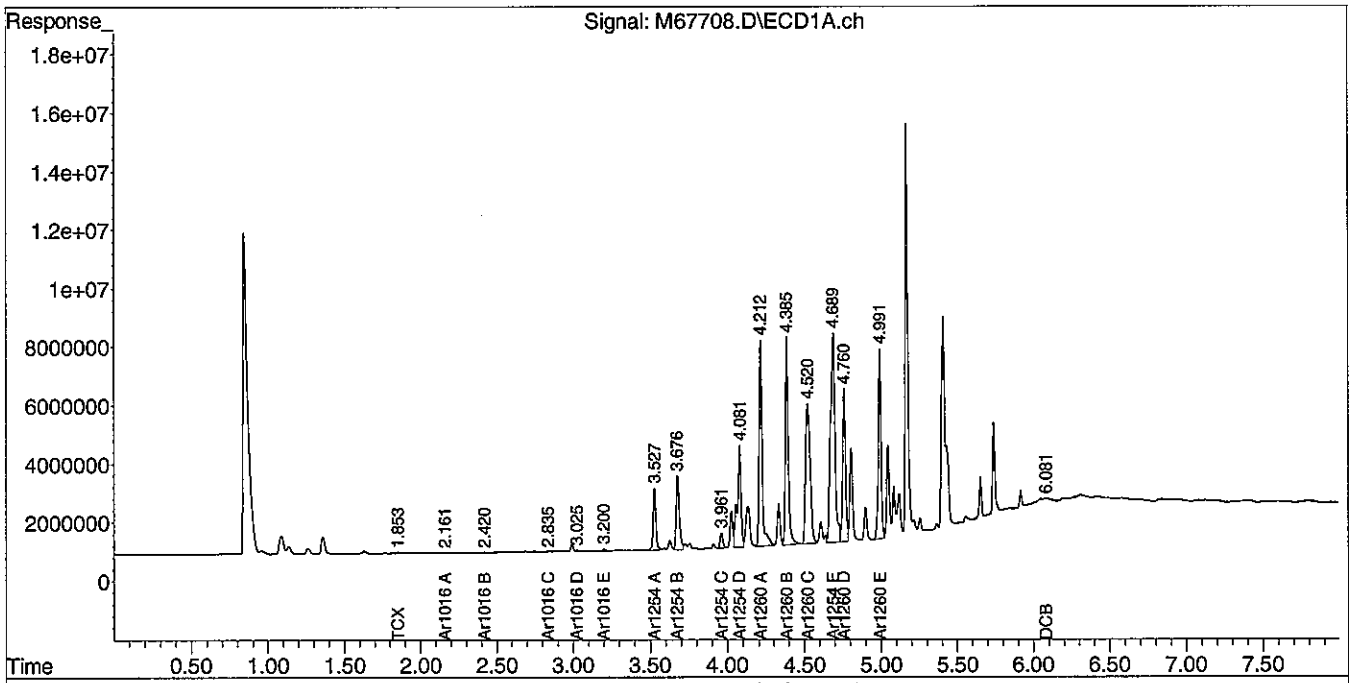
Comments: _____

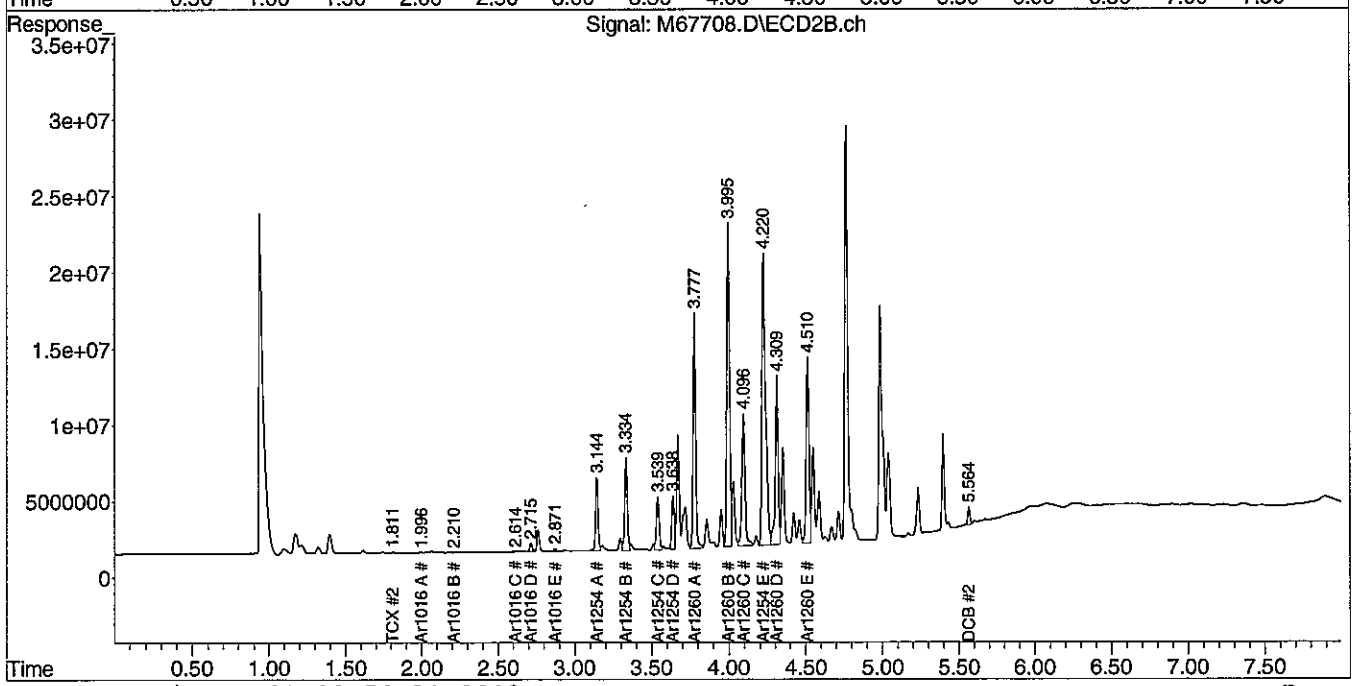
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67708.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 1:42 am
Operator : JK
Sample : 74886-17,1:500
Misc : SOIL
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:23:55 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 28, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74886-18 |
| **Matrix:** | Solid |
| **Percent Solid:** | 90 |
| **Dilution Factor:** | 106 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/26/13 |
| **Analysis Date:** | 02/28/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-229 (4-6') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 3500 | U |
| PCB-1221 | 3500 | U |
| PCB-1232 | 3500 | U |
| PCB-1242 | 3500 | U |
| PCB-1248 | 3500 | U |
| PCB-1254 | 3500 | U |
| PCB-1260 | 3500 | **50600** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886
Sample: 74886-18,1:100
Data File: M67631.D
Dilution Factor: 106.2

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 50569 | 47392 | 6.5 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

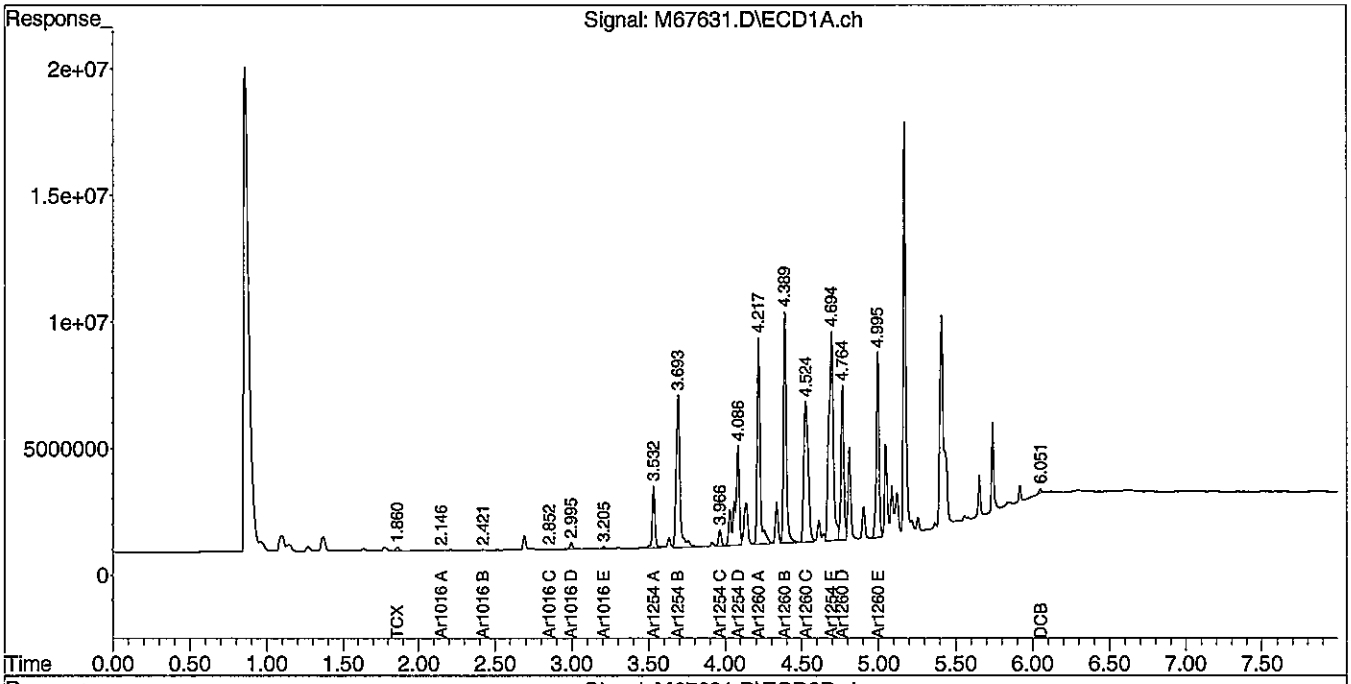
Comments: _____

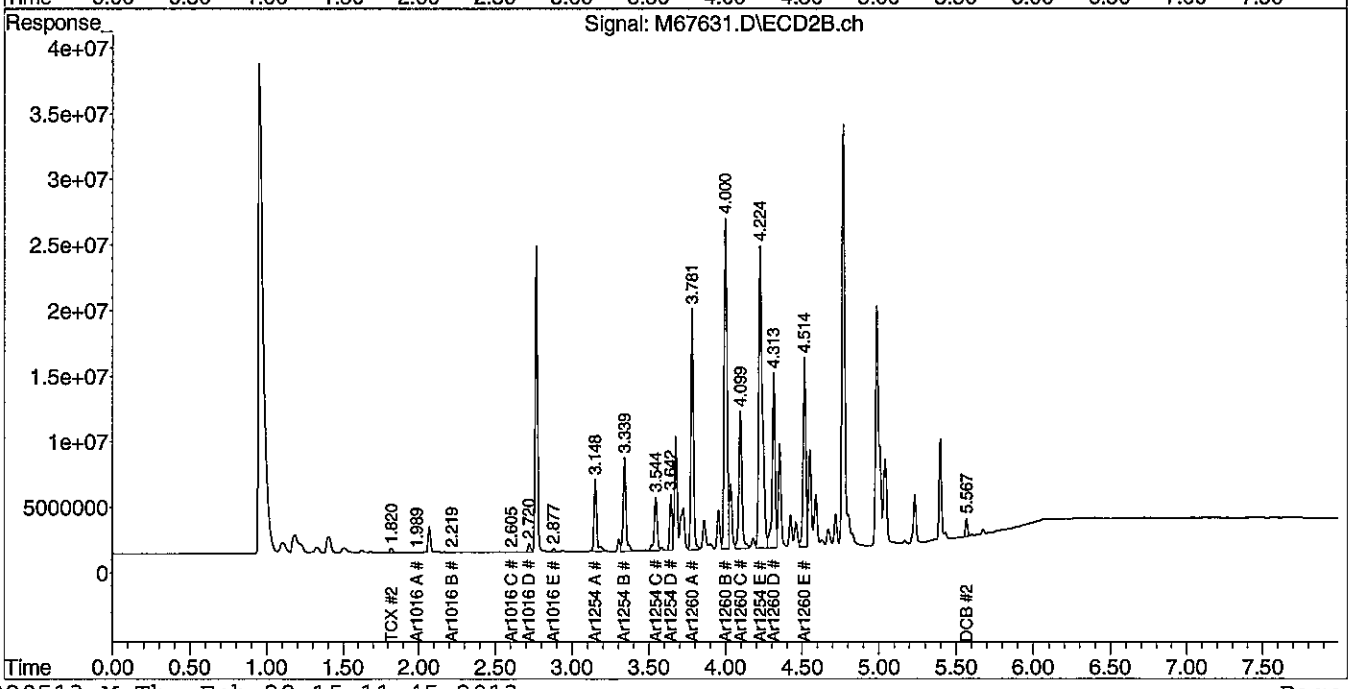
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67631.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2013 11:54 am
Operator : JK
Sample : 74886-18,1:100
Misc : SOIL
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 28 13:51:59 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Feb 28 11:22:13 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 28, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74886-19 |
| **Matrix:** | Solid |
| **Percent Solid:** | 87 |
| **Dilution Factor:** | 215 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/26/13 |
| **Analysis Date:** | 02/28/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-229 (6-8') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 7100 | U |
| PCB-1221 | 7100 | U |
| PCB-1232 | 7100 | U |
| PCB-1242 | 7100 | U |
| PCB-1248 | 7100 | U |
| PCB-1254 | 7100 | U |
| PCB-1260 | 7100 | **149000** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886
Sample: 74886-19,1:200
Data File: M67632.D
Dilution Factor: 215.3

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 148790 | 139320 | 6.6 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

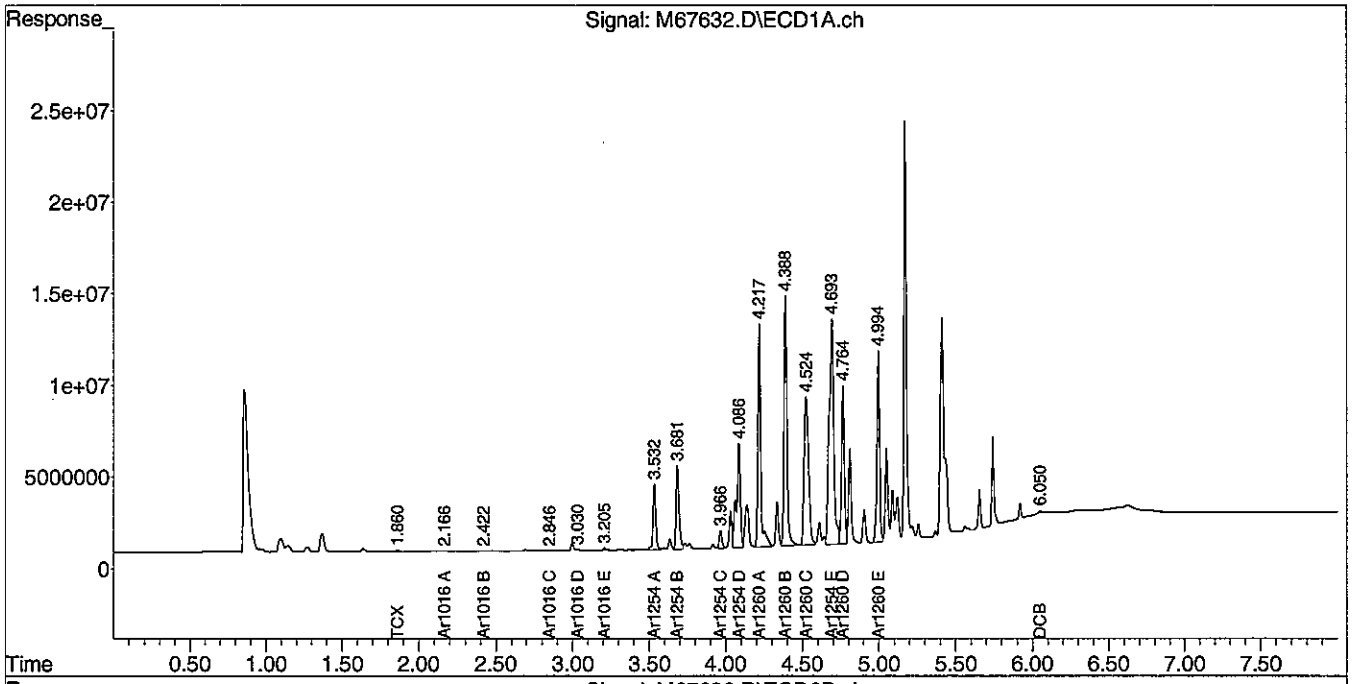
Comments: _____

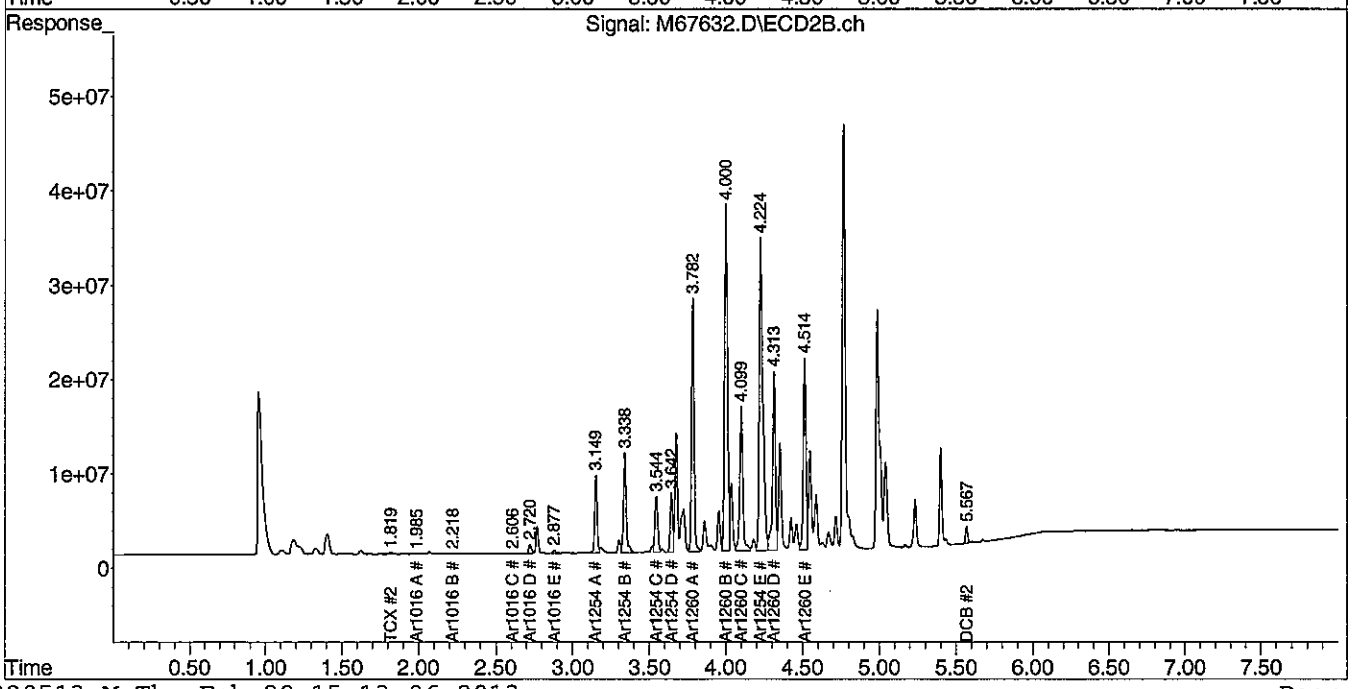
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67632.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2013 12:04 pm
Operator : JK
Sample : 74886-19,1:200
Misc : SOIL
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 28 13:52:01 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Feb 28 11:22:13 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 28, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74886-20 |
| **Matrix:** | Solid |
| **Percent Solid:** | 88 |
| **Dilution Factor:** | 56 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/26/13 |
| **Analysis Date:** | 02/28/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-229 (8-10') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 1850 | U |
| PCB-1221 | 1850 | U |
| PCB-1232 | 1850 | U |
| PCB-1242 | 1850 | U |
| PCB-1248 | 1850 | U |
| PCB-1254 | 1850 | U |
| PCB-1260 | 1850 | **26300** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886
Sample: 74886-20,1:50
Data File: M67633.D
Dilution Factor: 55.9

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 26309 | 25303 | 3.9 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

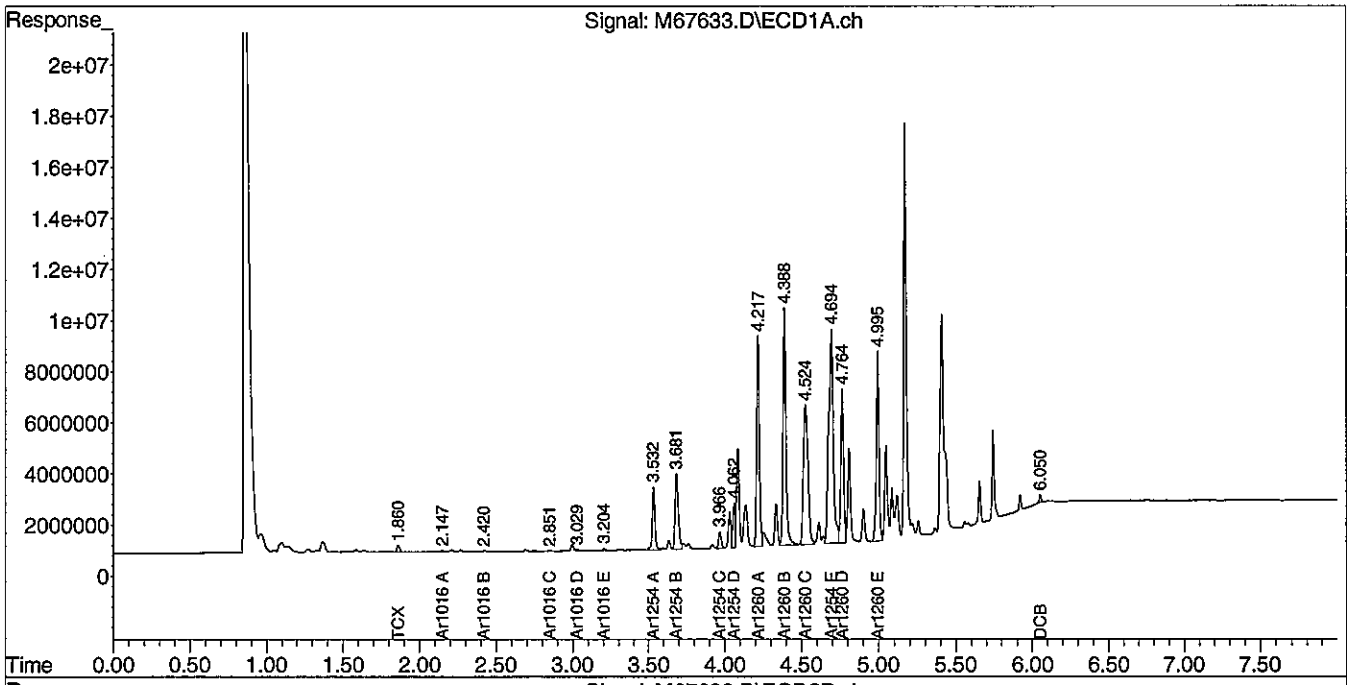
Comments: _____

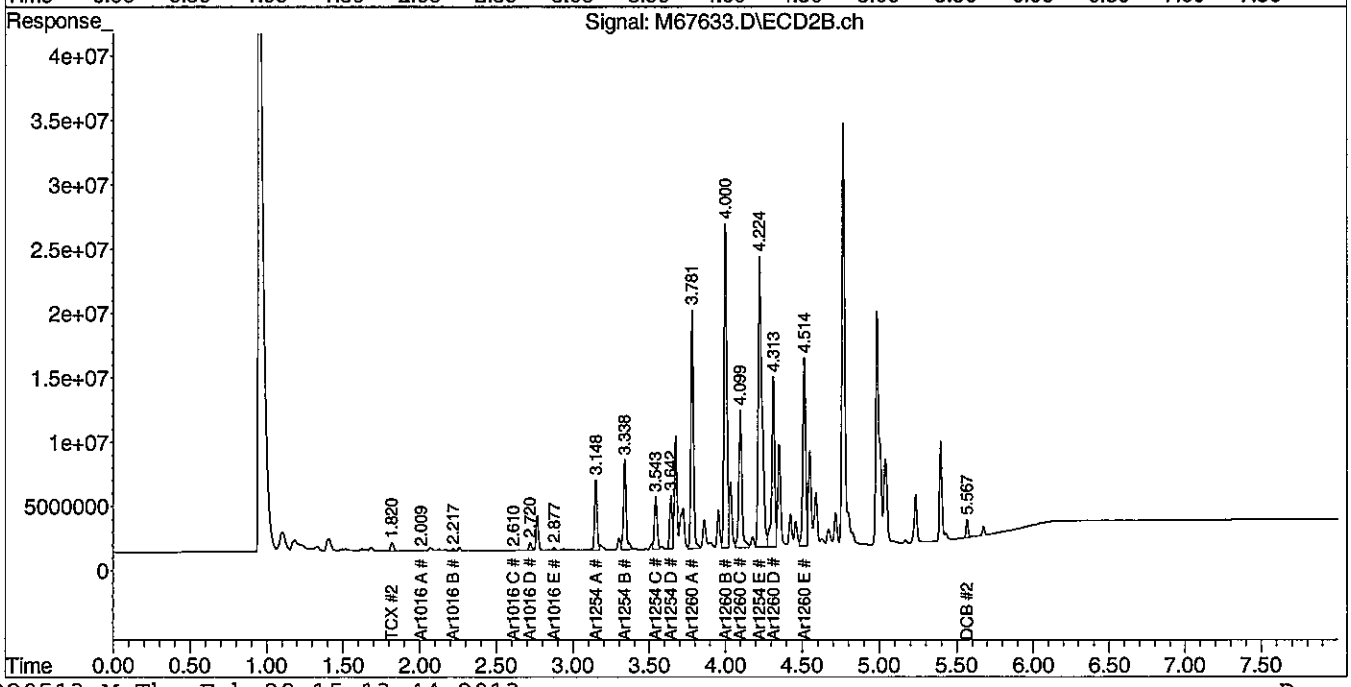
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67633.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2013 12:14 pm
Operator : JK
Sample : 74886-20,1:50
Misc : SOIL
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 28 13:52:03 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Feb 28 11:22:13 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 28, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | B022613PSOX |
| **Matrix:** | Soil |
| **Percent Solid:** | 100 |
| **Dilution Factor:** | 1.0 |
| **Collection Date:** | |
| **Lab Receipt Date:** | |
| **Extraction Date:** | 02/26/13 |
| **Analysis Date:** | 02/28/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | Lab QC |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 77 | % |
| Decachlorobiphenyl | 79 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

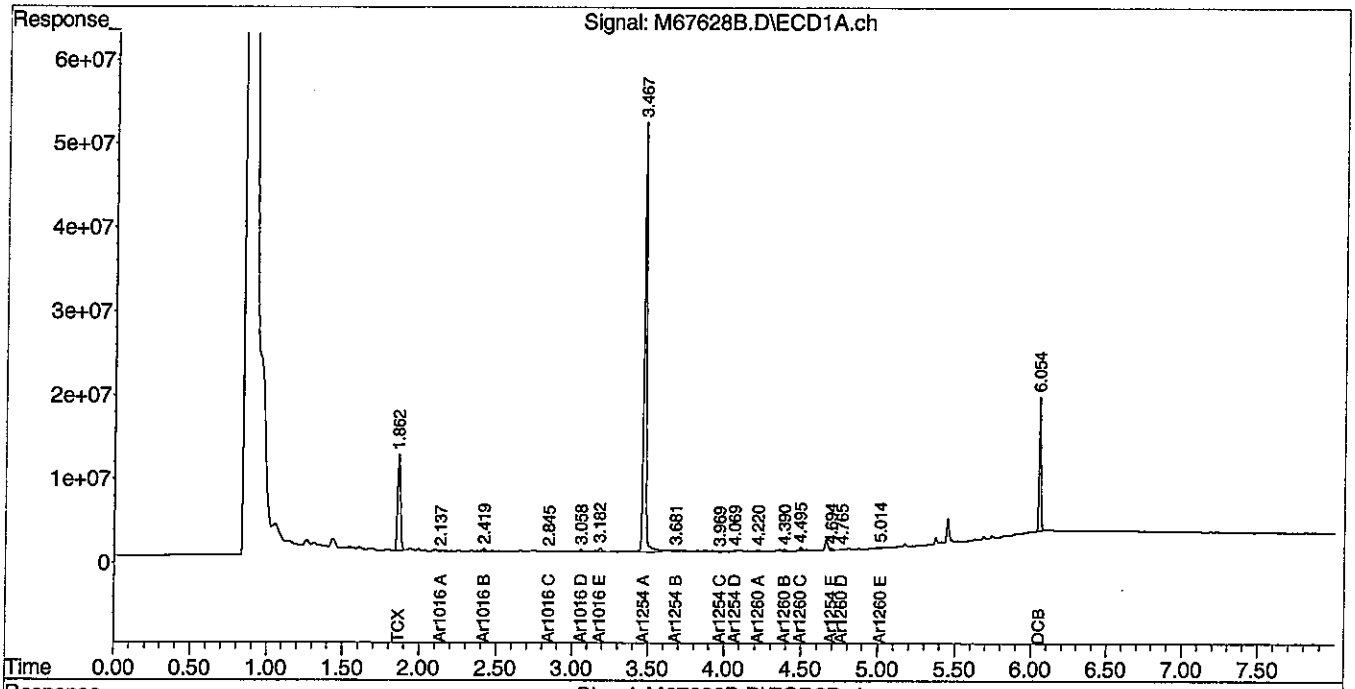
PCB Report

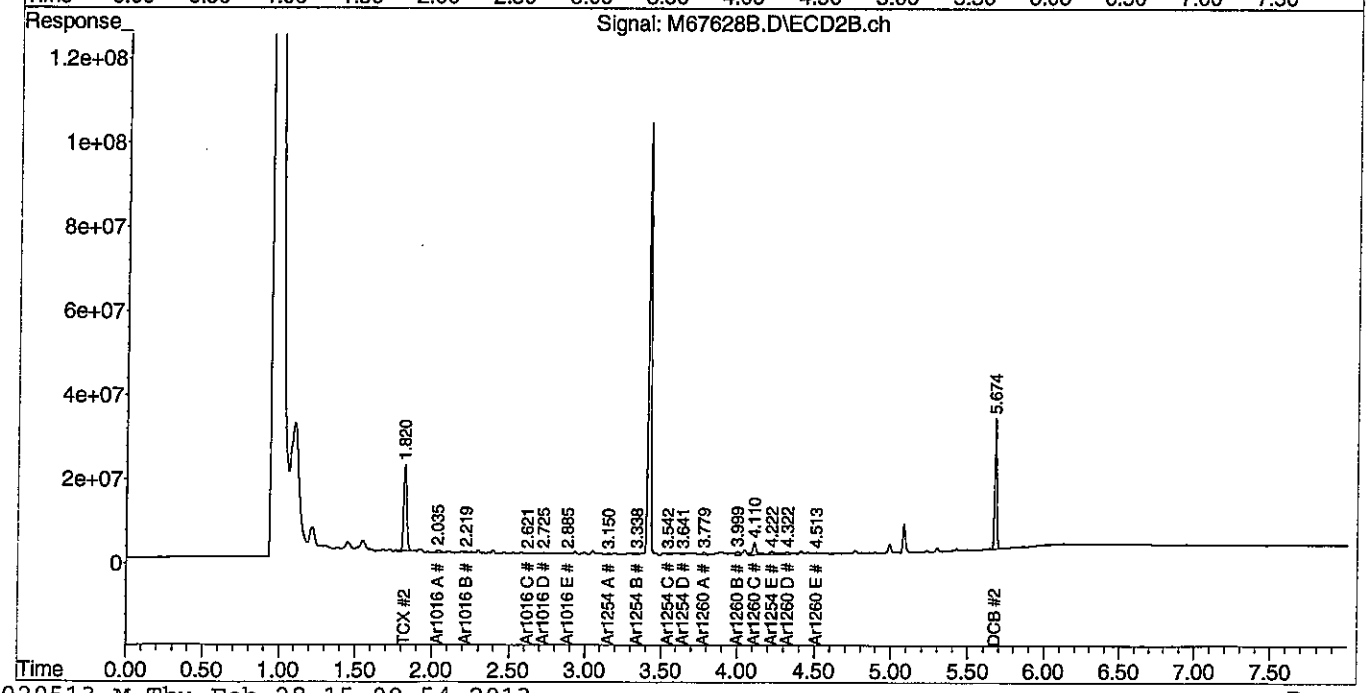
Authorized signature

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67628B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2013 11:24 am
Operator : JK
Sample : B022613PSOX
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 28 13:51:53 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Feb 28 11:22:11 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | B022213PSOX2 |
| **Matrix:** | Soil |
| **Percent Solid:** | 100 |
| **Dilution Factor:** | 1.0 |
| **Collection Date:** | |
| **Lab Receipt Date:** | |
| **Extraction Date:** | 02/22/13 |
| **Analysis Date:** | 02/28/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | Lab QC |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 82 | % |
| Decachlorobiphenyl | 78 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

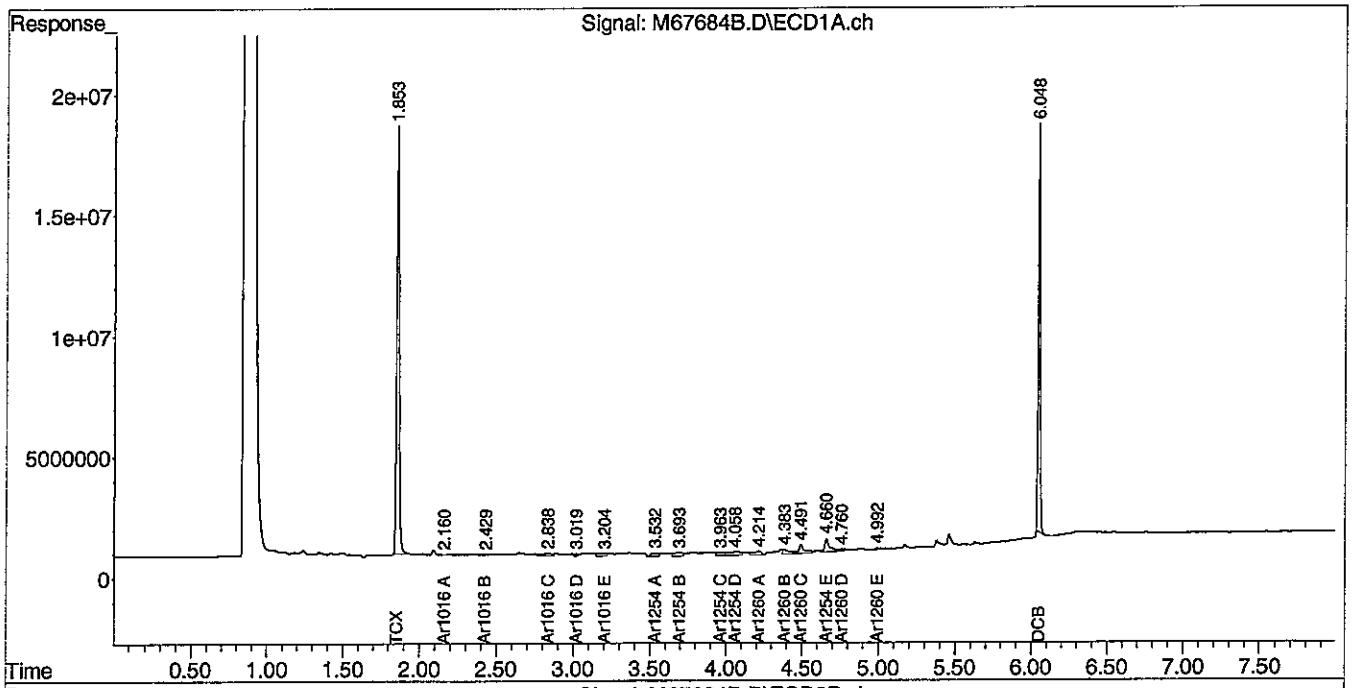
PCB Report

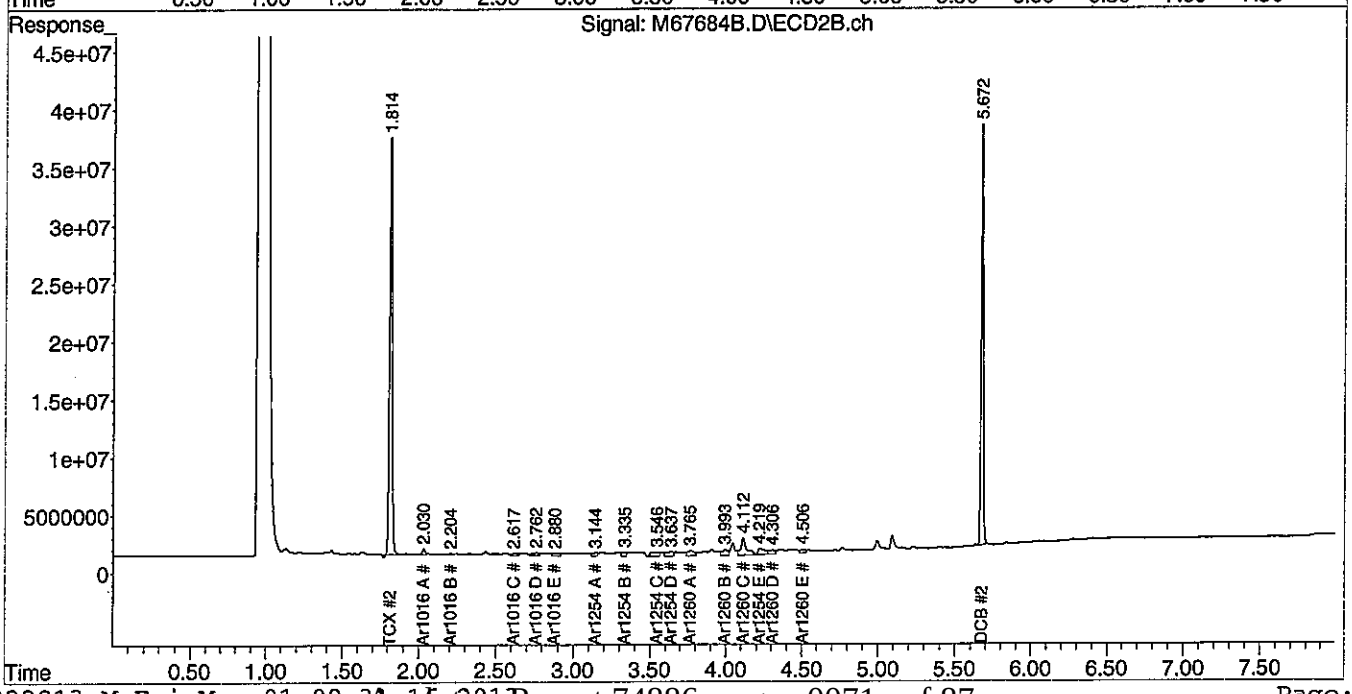
Authorized signature

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67684B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2013 9:40 pm
Operator : JK
Sample : B022213PSOX2,,A/C
Misc : SOIL
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:23:06 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:39 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**CLIENT SAMPLE ID**

**Project Name:** MAINE ENERGY

**Project Number:** 12-3259.1

**Field Sample ID:** Lab QC

**SAMPLE DATA**

**Lab Sample ID:** B022513PSOX
**Matrix:** Soil
**Percent Solid:** 100
**Dilution Factor:** 1.0
**Collection Date:**
**Lab Receipt Date:**
**Extraction Date:** 02/22/13
**Analysis Date:** 02/28/13

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 63 | % |
| Decachlorobiphenyl | 78 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

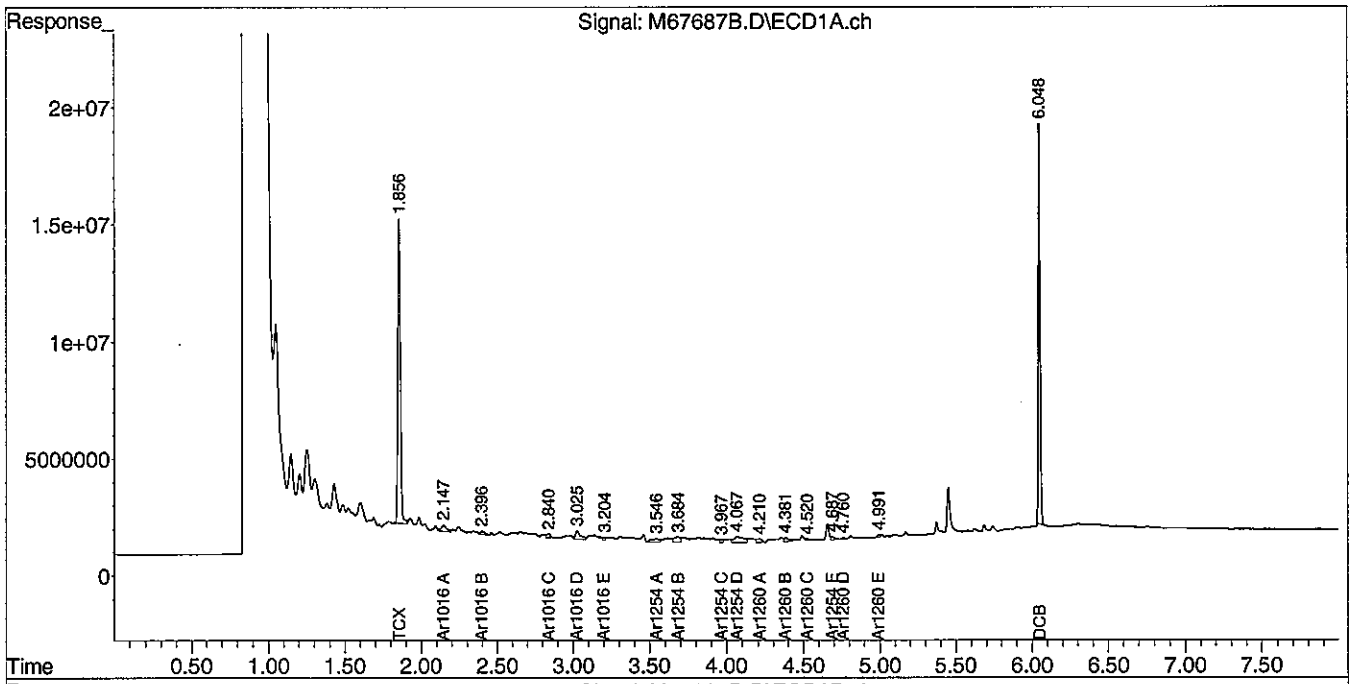
PCB Report

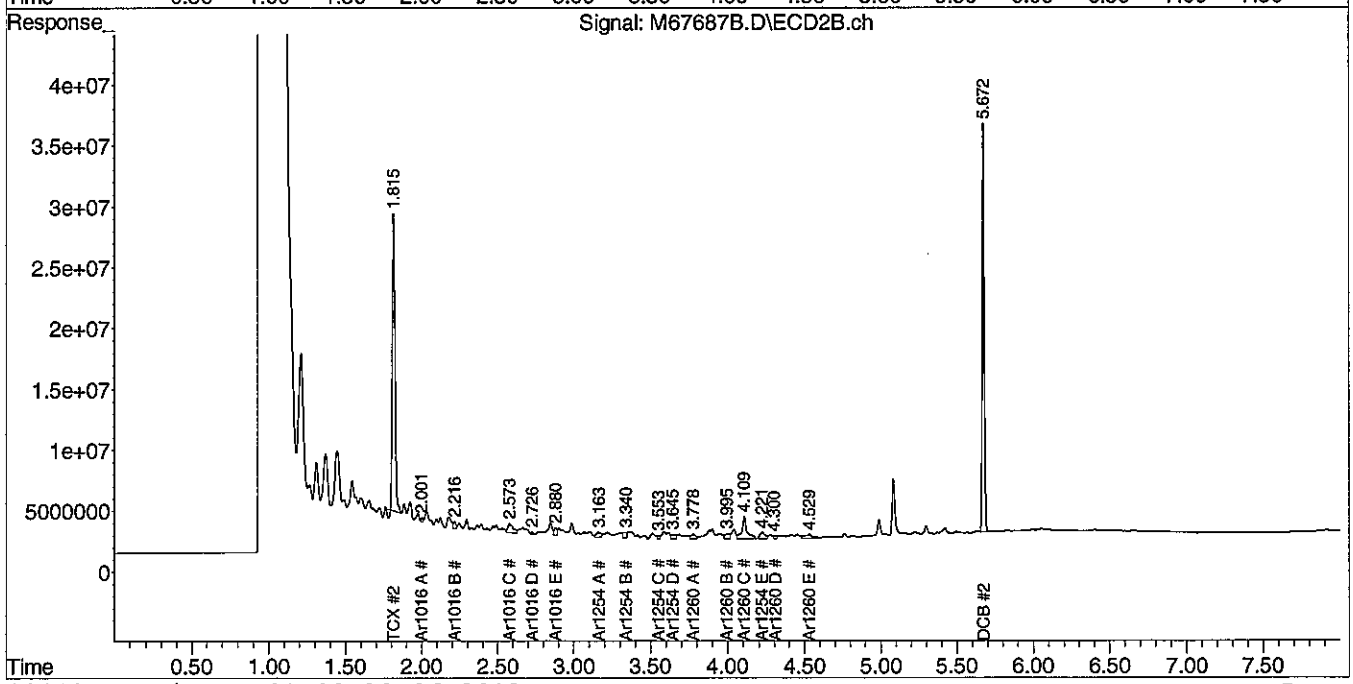
Authorized signature

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67687B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2013 10:10 pm
Operator : JK
Sample : B022513PSOX
Misc : SOIL
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:23:13 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

**CLIENT SAMPLE ID**

**Project Name:** MAINE ENERGY

**Project Number:** 12-3259.1

**Field Sample ID:** Lab QC

**Lab Sample ID:** B022813PSOX
**Matrix:** Soil
**Percent Solid:** 100
**Dilution Factor:** 1.0
**Collection Date:**
**Lab Receipt Date:**
**Extraction Date:** 02/28/13
**Analysis Date:** 03/01/13

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 100 | % |
| Decachlorobiphenyl | 88 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

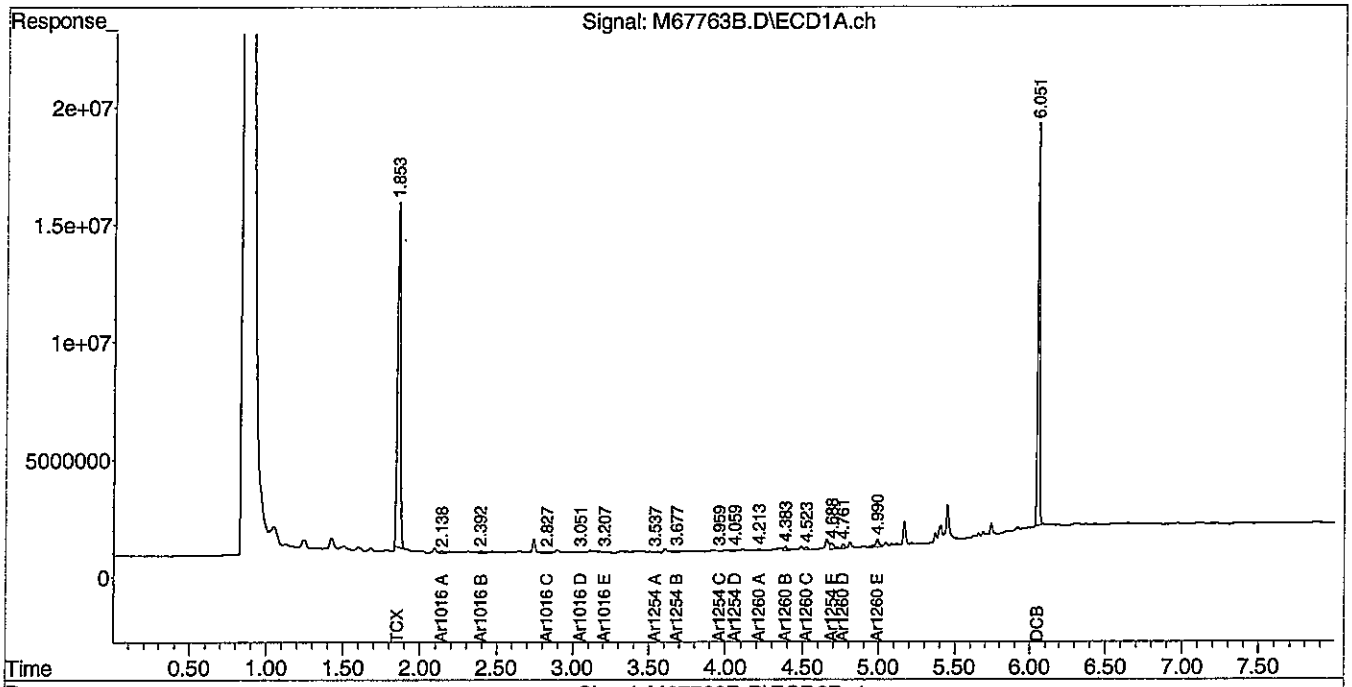
PCB Report

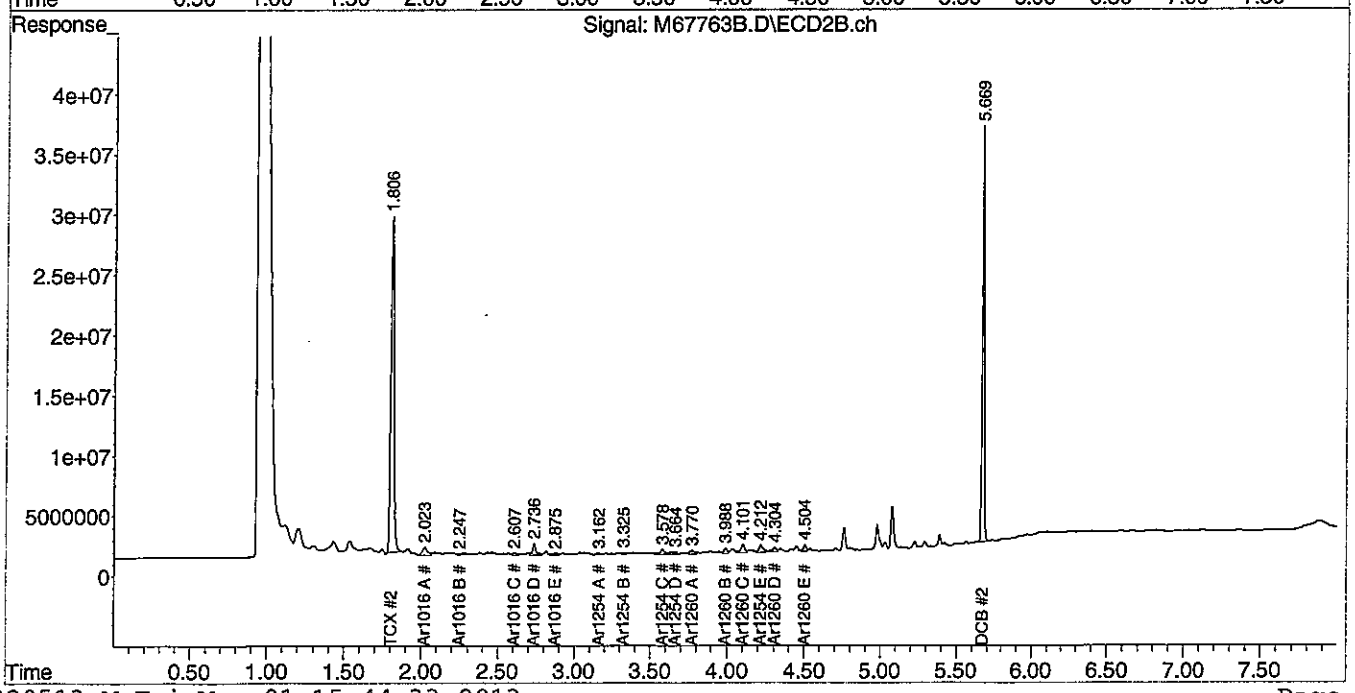
Authorized signature

Data Path : C:\msdchem\1\DATA\023013-M\
Data File : M67763B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 11:58 am
Operator : JK
Sample : B022813PSOX,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 15:34:30 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Feb 28 11:22:11 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886

| | Column #1 | | | | Column #2 | | | |
|---|---|---|---|---|---|---|---|---|
| SAMPLE ID | SMC 1 (%) | # | SMC 2 (%) | # | SMC 1 (%) | # | SMC 2 (%) | # |
| B022613PSOX | 77 | | 79 | | 66 | | 76 | |
| L022613PSOX | 80 | | 79 | | 71 | | 77 | |
| LD022613PSOX | 89 | | 81 | | 76 | | 78 | |
| 74886-18,1:100 | D | | D | | D | | D | |
| 74886-19,1:200 | D | | D | | D | | D | |
| 74886-20,1:50 | D | | D | | D | | D | |

| | | Lower Limit | Upper Limit |
|---|---|---|---|
| SMC #1 = | TCX | 40 | 130 |
| SMC #2 = | DCB | 40 | 130 |

# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886

| | Column #1 | | | | Column #2 | | | |
|---|---|---|---|---|---|---|---|---|
| SAMPLE ID | SMC 1 (%) | # | SMC 2 (%) | # | SMC 1 (%) | # | SMC 2 (%) | # |
| B022213PSOX2,,A/C | 82 | | 78 | | 82 | | 83 | |
| L022213PSOX2,,A/C | 88 | | 84 | | 86 | | 84 | |
| LD022213PSOX2,,A/C | 88 | | 82 | | 86 | | 85 | |
| B022513PSOX | 63 | | 78 | | 59 | | 73 | |
| L022513PSOX | 80 | | 86 | | 70 | | 83 | |
| LD022513PSOX | 81 | | 86 | | 66 | | 83 | |
| 74886-1,1:10,,A/C | 85 | | 82 | | 88 | | 101 | |
| 74886-1,MS,1:10,,A/C | 88 | | 81 | | 86 | | 99 | |
| 74886-1,MSD,1:10,,A/C | 83 | | 75 | | 82 | | 91 | |
| 74886-2,1:10,,A/C | 92 | | 89 | | 93 | | 87 | |
| 74886-3,1:10,,A/C | 94 | | 94 | | 109 | | 104 | |
| 74886-4,1:10,,A/C | 92 | | 88 | | 100 | | 91 | |
| 74886-5,1:100,,A/C | D | | D | | D | | D | |
| 74886-6,1:10,,A/C | 103 | | 95 | | 111 | | 121 | |
| 74886-7,1:50,,A/C | D | | D | | D | | D | |
| 74886-8,1:1000,,A/C | D | | D | | D | | D | |
| 74886-9,1:200,,A/C | D | | D | | D | | D | |
| 74886-11,1:5 | 73 | | 67 | | 89 | | 76 | |
| 74886-12.1:2 | 72 | | 77 | | 98 | | 78 | |
| 74886-13 | 64 | | 76 | | 80 | | 77 | |
| 74886-14,1:5 | 80 | | 72 | | 93 | | 85 | |
| 74886-15,1:2 | 68 | | 65 | | 119 | | 72 | |
| 74886-16,1:1000 | D | | D | | D | | D | |
| 74886-17,1:500 | D | | D | | D | | D | |

| | | Lower Limit | Upper Limit |
|---|---|---|---|
| SMC #1 = | TCX | 40 | 130 |
| SMC #2 = | DCB | 40 | 130 |

# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74886

| | Column #1 | | | | Column #2 | | | |
|---|---|---|---|---|---|---|---|---|
| SAMPLE ID | SMC 1 (%) | # | SMC 2 (%) | # | SMC 1 (%) | # | SMC 2 (%) | # |
| B022813PSOX,,A/C | 100 | | 88 | | 93 | | 86 | |
| 74886-10,1:5000,,A/C | D | | D | | D | | D | |

| | | Lower Limit | Upper Limit |
|---|---|---|---|
| SMC #1 = | TCX | 40 | 130 |
| SMC #2 = | DCB | 40 | 130 |

# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG:

Non-spiked sample: B022213PSOX2,,A/C

Spike: L022213PSOX2,,A/C

Spike duplicate: LD022213PSOX2,,A/C

| COMPOUND | LCS SPIKE ADDED (ug/kg) | LCSD SPIKE ADDED (ug/kg) | LOWER LIMIT | UPPER LIMIT | RPD LIMIT | NON-SPIKE RESULT (ug/kg) | SPIKE RESULT (ug/kg) | SPIKE % REC | # | SPIKE DUP RESULT (ug/kg) | SPIKE DUP % REC | # | RPD | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 200 | 200 | 65 | 140 | 30 | 0 | 174 | 87 | | 179 | 89 | | 3.0 | |
| PCB 1260 | 200 | 200 | 60 | 130 | 30 | 0 | 178 | 89 | | 177 | 88 | | 0.6 | |
| PCB 1016 #2 | 200 | 200 | 65 | 140 | 30 | 0 | 173 | 86 | | 172 | 86 | | 0.3 | |
| PCB 1260 #2 | 200 | 200 | 60 | 130 | 30 | 0 | 195 | 97 | | 197 | 99 | | 1.1 | |

# Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG:

Non-spiked sample: B022513PSOX

Spike: L022513PSOX

Spike duplicate: LD022513PSOX

| COMPOUND | LCS SPIKE ADDED (ug/kg) | LCSD SPIKE ADDED (ug/kg) | LOWER LIMIT | UPPER LIMIT | RPD LIMIT | NON-SPIKE RESULT (ug/kg) | SPIKE RESULT (ug/kg) | SPIKE % REC | # | SPIKE DUP RESULT (ug/kg) | SPIKE DUP % REC | # | RPD | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 200 | 200 | 65 | 140 | 30 | 0 | 161 | 81 | | 164 | 82 | | 2.1 | |
| PCB 1260 | 200 | 200 | 60 | 130 | 30 | 0 | 170 | 85 | | 173 | 87 | | 2.1 | |
| PCB 1016 #2 | 200 | 200 | 65 | 140 | 30 | 0 | 165 | 83 | | 165 | 82 | | 0.3 | |
| PCB 1260 #2 | 200 | 200 | 60 | 130 | 30 | 0 | 182 | 91 | | 190 | 95 | | 4.6 | |

# Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

PCB SOIL
MATRIX SPIKE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 74886

Non-spiked sample: 74886-1,1:10,,A/C

Spike: 74886-1,MS,1:10,,A/C

Spike duplicate: 74886-1,MSD,1:10,,A/C

| COMPOUND | MS SPIKE ADDED (ug/kg) | MSD SPIKE ADDED (ug/kg) | LOWER LIMIT | UPPER LIMIT | RPD LIMIT | NON-SPIKE RESULT (ug/kg) | SPIKE RESULT (ug/kg) | SPIKE % REC | # | SPIKE DUP RESULT (ug/kg) | SPIKE DUP % REC | # | RPD | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 216 | 224 | 65 | 140 | 30 | 0 | 249 | 115 | | 230 | 103 | | 7.8 | |
| PCB 1260 | 216 | 224 | 60 | 130 | 30 | 2345 | 6109 | 1742 | * | 4488 | 958 | * | 30.6 | * |
| PCB 1016 #2 | 216 | 224 | 65 | 140 | 30 | 0 | 242 | 112 | | 269 | 120 | | 10.5 | |
| PCB 1260 #2 | 216 | 224 | 60 | 130 | 30 | 2354 | 5924 | 1653 | * | 4396 | 913 | * | 29.6 | |

# Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

MS/MSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG:

Non-spiked sample: B022613PSOX

Spike: L022613PSOX

Spike duplicate: LD022613PSOX

| COMPOUND | LCS SPIKE ADDED (ug/kg) | LCSD SPIKE ADDED (ug/kg) | LOWER LIMIT | UPPER LIMIT | RPD LIMIT | NON-SPIKE RESULT (ug/kg) | SPIKE RESULT (ug/kg) | SPIKE % REC | # | SPIKE DUP RESULT (ug/kg) | SPIKE DUP % REC | # | RPD | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 200 | 200 | 65 | 140 | 30 | 0 | 181 | 90 | | 195 | 97 | | 7.5 | |
| PCB 1260 | 200 | 200 | 60 | 130 | 30 | 0 | 182 | 91 | | 187 | 94 | | 2.9 | |
| PCB 1016 #2 | 200 | 200 | 65 | 140 | 30 | 0 | 167 | 83 | | 179 | 90 | | 7.3 | |
| PCB 1260 #2 | 200 | 200 | 60 | 130 | 30 | 0 | 192 | 96 | | 189 | 94 | | 1.7 | |

# Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

analytics environmental laboratory LLC

# CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

# Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 4.0
3) Received in good condition: Y or N
4) pH checked by:
5) Labels checked by: KEG 02/22/13

Project Name: MAINE ENERGY
Project#: 12-3259.1
Company: SUMMIT
Report to: JOHN CRESSEY
Address: 640 MAIN ST.
LEWISTON, ME 04240
Phone: (207) 795-6009
Quote #:
PO# (if required): 12-3259.1

Preservation Code: Please enter preservation code here

Preservation Key:
A= HCL
B= 4°C
C= Unpres
D = MeOH
E = HNO3
F = H2SO4
G = Hexane
H = Other

Circle and/or Write Required Analysis Followed by Preservation Code

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

| Sample Identification | Sample Date | Sample Time | Field Filtered? Y or N | VOC: 8260 524.2 624 | SVOC: 8270 625 PAH only SIM | Pesticides: 8081 608 | PCB: 8082 608 Soxhlet? Y or N | TPH: 8015 (Gas Range) ME4217 | TPH: 8015 (Diesel Range) 8100M ME4125 | EPH: Full or Ranges only TETPH | VPH: Full or Ranges only | Metals: RCRA8 PP13 TAL23 Other** | Matrix | No. of Containers | pH checked | Analytics Sample # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SE-SB-234 (2-4') | 2-20 | 1128 | N | | | | X | | | | | | S | 1 | | 74886-1 |
| SE-SB-234 (4-6') | 2-20 | 1131 | N | | | | X | | | | | | S | 1 | | -2 |
| SE-SB-234 (6-8') | 2-20 | 1138 | N | | | | X | | | | | | S | 1 | | -3 |
| SE-SB-234 (8-10') | 2-20 | 1154 | N | | | | X | | | | | | S | 1 | | -4 |
| SE-SB-230 (0-2') | 2-20 | 1156 | N | | | | X | | | | | | S | 1 | | -5 |
| SE-SB-230 (2-4') | 2-20 | 1202 | N | | | | X | | | | | | S | 1 | | -6 |
| SE-SB-231 (0-2') | 2-20 | 1215 | N | | | | X | | | | | | S | 1 | | -7 |
| SE-SB-231 (2-4') | 2-20 | 1220 | N | | | | X | | | | | | S | 1 | | -8 |
| SE-SB-231 (4-6') | 2-20 | 1224 | N | | | | X | | | | | | S | 1 | | -9 |
| SE-SB-231 (6-8') | 2-20 | 1235 | N | | | | X | | | | | | S | 1 | | -10 |

Email Results to: XCRESSEY@SUMMITENV.COM

Comments, Additional Analyses, or Special Instructions:

** List requested metals here

Turnaround Time (TAT)
- [ ] 1 Day*
- [ ] 2 Days*
- [ ] 3 Days*
- [ ] 4 Days*
- [ ] 5 Days
- [x] Standard (8-10 business days)

*Fee may apply; lab approval required

*Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.*

Project Requirements:
*Fee may apply

Report Type:
- [ ] MCP*
- [ ] Level II*
- [ ] CTRCP*
- [ ] Level III*
- [ ] DOD*
- [ ] Level IV*
- [x] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI
- Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y* N

Type:

| | | | | |
|---|---|---|---|---|
| Sampler Name (Print): JOHN CRESSEY | | | | |
| Relinquished By Sampler: | Date: 2-21 | Time: 9:00 | Received By: GENERAL COURIER | |
| Relinquished By: General Courier | Date: 2/22/13 | Time: 856 | Received By: | |
| Relinquished By: | Date: | Time: | Received By: | |

Page 1 of 5

# Chain Of Custody Form

**analytics** environmental laboratory LLC

195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906

(603) 436-5111
(603) 430-2151 Fax

**For Analytics Use Only**

Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 4°
3) Received in good condition: Y or N
4) pH checked by:
5) Labels checked by: KEJ 02/22/13

Project Name: MAINE ENERGY
Project#: 12-3259.1
Company: SUMMIT
Report to: JOHN CRESSEY
Address: 640 MAIN ST. LEWISTON, MAINE 04240
Phone: (207)-195-6009
Quote #:
PO# (if required): 12-3259.1

Preservation Code:

Preservation Key: A= HCL, B= 4°C, C= Unpres, D = MeOH, E = HNO3, F = H2SO4, G = Hexane, H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please [illegible] in preservation code here

Matrix Key: C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

| Sample Identification | Sample Date | Sample Time | Field Filtered? Y or N | VOC: 8260 S24.2 624 | SVOC: 8270 625 PAH only SIM | Pesticides: 8081 608 | PCB: 8082 608 | TPH: 8015 (Gas Range) ME4217 | TPH: 8015 (Diesel Range) 8100M ME4125 | EPH: Full or Ranges only TETPH | VPH: Full or Ranges only | Metals: RCRA8 PP13 TAL23 Other** | Matrix | No. of Containers | pH checked | Analytics Sample # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SE-SB-235 (0-2') | 2-20 | 1250 | N | | | | X | | | | | | S | 1 | | 74886-11 |
| SE-SB-235 (2-4') | 2-20 | 1254 | N | | | | X | | | | | | S | 1 | | -12 |
| SE-SB-235 (4-6') | 2-20 | 1300 | N | | | | X | | | | | | S | 1 | | -13 |
| SE-SB-235 (6-8') | 2-20 | 1302 | N | | | | X | | | | | | S | 1 | | -14 |
| SE-SB-235 (8-10') | 2-20 | 1311 | N | | | | X | | | | | | S | 1 | | -15 |
| SE-SB-229 (0-2') | 2-20 | 1325 | N | | | | X | | | | | | S | 1 | | -16 |
| SE-SB-229 (2-4') | 2-20 | 1328 | N | | | | X | | | | | | S | 1 | | -17 |
| SE-SB-229 (4-6') | 2-20 | 1330 | N | | | | X | | | | | | S | 1 | | -18 |
| SE-SB-229 (6-8') | 2-20 | 1335 | N | | | | X | | | | | | S | 1 | | -19 |
| SE-SB-229 (8-16') | 2-20 | 1340 | N | | | | X | | | | | | S | 1 | | -20 |

Email Results to: JCRESSEY@SUMMITENV.COM

Turnaround Time (TAT)
- [ ] 1 Day*
- [ ] 2 Days*
- [ ] 3 Days*
- [ ] 4 Days*
- [ ] 5 Days
- [x] Standard (8-10 business days)

*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: ** List requested metals here

* Cap matches COC but label states "SE-SB-234 (2-4')" with sample time of 1250 JB 2/22/13 → COC + cap correct per client -KEJ

*Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.*

Project Requirements: *Fee may apply

Report Type:
- [ ] MCP*
- [ ] Level II*
- [ ] CTRCP*
- [ ] Level III*
- [ ] DOD*
- [ ] Level IV*
- [x] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI

Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y* N

Type:

Sampler Name (Print): JOHN CRESSEY

| | | | | |
|---|---|---|---|---|
| Relinquished By Sampler: | Date: 2-21 | Time: 9:00 | Received By: GENERAL COURIER | |
| Relinquished By: General Courier | Date: 2/22/13 | Time: 856 | Received By: | |
| Relinquished By: | Date: | Time: | Received By: | |

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 74886

CLIENT: Summit

PROJECT: Maine Energy

COOLER NUMBER: 255

NUMBER OF COOLERS: 1

**A: PRELIMINARY EXAMINATION:**

1. Cooler received by(initials): JBB

DATE COOLER RECEIVED/OPENED: 2/22/13

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N

3a. Enter carrier name and airbill number here: 501730

4. Were custody seals on the outside of cooler? Y N
How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y N/A

6. COC#: _____

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was enough ice used to chill the cooler? Y N Temp. of cooler: 4°C

**B. Log-In:** Date samples were logged in: 2/22/13 By: JBB

11. Were all bottles sealed in separate plastic bags? Y N

12. Did all bottles arrive unbroken and were labels in good condition? Y N

13. Were all bottle labels complete(ID,Date,time,etc.) Y N

14. Did all bottle labels agree with custody papers? Y N see COC

15. Were the correct containers used for the tests indicated: Y N

16. Were samples received at the correct pH? Y N/A

17. Was sufficient amount of sample sent for the tests indicated? Y N

18. Were all samples submitted within holding time? Y N

19. Were all containers used within AEL 's expiration date?** Y N/A

20. Were VOA samples absent of greater than pea-sized bubbles? Y N* /A
(Note:Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatiles data.)

*If NO, List Sample ID's, Lab #s: _____

When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): CCB Date: 02/22/13

**The expiration date is recommended by Analytics Environmental Laboratory and not the method. Therefore this does not mean that the results are non-compliant.

C:ANLYTICS LLC\AEL DOCUMENTS\FORMS\SMPL CHKLST\Edit 4908

Rev. 6, 8/27/12

**Insured Delivery**

P.O. Box 1072
Portland, ME 04104

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| | Nelson | O/N | 2-21-13 |

| FROM | SHIP TO |
|---|---|
| Summit Environmental | Analytics Lab |
| 640 Main St | 195 Commerce Way |
| Lewiston, Me | Portsmouth, N.H. |

BILLING INFORMATION

| QUANTITY | DESCRIPTION | PRICE |
|---|---|---|
| Cooler | | |

Signature Jackyn

Time 856 2/22/13

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

March 1, 2013

Mr. John Cressey
Summit Environmental
640 Main Street
Lewiston ME 04240

**RE: Analytical Results Case Narrative**
**Analytics # 74887**
**Maine Energy**
**Project No: 12-3259.1**

Dear Mr. Cressey;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082A.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples
PCB Form 3 MS/MSD (LCS) Recoveries and Blanks
Chromatograms
Chain of Custody (COC) Forms

## QC NON CONFORMANCE SUMMARY

**Sample Receipt:**
No exceptions.

**PCBs by EPA Method 8082:**
No results were reported below the quantitation limit.

All samples except 74887-13, 74887-14 and 74887-21 required dilution due to concentrations of PCBs that exceeded the calibration range of the instrument.

The MS/MSD analyzed on sample 74887-18 did not meet acceptance criteria for PCB 1260 recoveries due to the parent sample having concentrations of PCB 1260 that exceeded the calibration range of the instrument. The laboratory control samples (L022253PSOX2/LD022253PSOX2) were in control for all recoveries and RPDs. Results were reported without qualification.

If you have any questions on this data submittal, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen Knollmeyer
Laboratory Director

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

**Report Number: 74887**

**Revision: Rev. 0**

**Re: MAINE ENERGY (Project No: 12-3259.1)**

Enclosed are the results of the analyses on your sample(s). Samples were received on 22 February 2013 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

**Sample Analysis:** The attached pages detail the Client Sample IDs, Lab Sample IDs, and Analyses requested

**Sample Receipt Exceptions:** None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 3/1/2013

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analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

**CLIENT: Summit Environmental Consultants Inc.** **REPORT NUMBER: 74887** **REV: Rev. 0**

**PROJECT: MAINE ENERGY (Project No: 12-3259.1)**

| Lab Number | Sample Date | Station Location | Analysis | Comments |
|---|---|---|---|---|
| 74887-1 | 02/20/13 | SE-SB-227 (0-2') | EPA 8082 (PCBs only) | |
| 74887-2 | 02/20/13 | SE-SB-227 (2-4') | EPA 8082 (PCBs only) | |
| 74887-3 | 02/20/13 | SE-SB-227 (4-6') | EPA 8082 (PCBs only) | |
| 74887-4 | 02/20/13 | SE-SB-227 (6-8') | EPA 8082 (PCBs only) | |
| 74887-5 | 02/20/13 | SE-SB-228 (0-2') | EPA 8082 (PCBs only) | |
| 74887-6 | 02/20/13 | SE-SB-228 (2-4') | EPA 8082 (PCBs only) | |
| 74887-7 | 02/20/13 | SE-SB-228 (4-6') | EPA 8082 (PCBs only) | |
| 74887-8 | 02/20/13 | SE-SB-228 (6-8') | EPA 8082 (PCBs only) | |
| 74887-9 | 02/20/13 | SE-SB-228 (8-10') | EPA 8082 (PCBs only) | |
| 74887-10 | 02/20/13 | SE-SB-222 (0-2') | EPA 8082 (PCBs only) | |
| 74887-11 | 02/20/13 | SE-SB-222 (2-4') | EPA 8082 (PCBs only) | |
| 74887-12 | 02/20/13 | SE-SB-222 (4-6') | EPA 8082 (PCBs only) | |
| 74887-13 | 02/20/13 | SE-SB-222 (6-8') | EPA 8082 (PCBs only) | |
| 74887-14 | 02/20/13 | SE-SB-222 (8-10') | EPA 8082 (PCBs only) | |
| 74887-15 | 02/20/13 | SE-SB-223 (0-2') | EPA 8082 (PCBs only) | |
| 74887-16 | 02/20/13 | SE-SB-223 (2-4') | EPA 8082 (PCBs only) | |
| 74887-17 | 02/20/13 | SE-SB-223 (4-6') | EPA 8082 (PCBs only) | |
| 74887-18 | 02/20/13 | SE-SB-223 (6-8') | EPA 8082 (PCBs only) | |
| 74887-19 | 02/20/13 | SE-SB-223 (8-10') | EPA 8082 (PCBs only) | |
| 74887-20 | 02/20/13 | SE-SB-218 (0-2') | EPA 8082 (PCBs only) | |
| 74887-21 | 02/20/13 | SE-SB-218 (2-4') | EPA 8082 (PCBs only) | |
| 74887-22 | 02/20/13 | SE-SB-231 (8-10') | EPA 8082 (PCBs only) | |

analytics environmental laboratory LLC

## Surrogate Compound Limits

| Matrix: | Aqueous | Solid | |
|---|---|---|---|
| Units: | % Recovery | % Recovery | Method |
| **Volatile Organic Compounds - Drinking Water** | | | |
| 1,4-Difluorobenzene | 70-130 | | EPA 524.2 |
| Bromofluorobenzene | 70-130 | | |
| 1,2-Dichlorobenzene-d4 | 70-130 | | |
| **Volatile Organic Compounds** | | | |
| 1,2-Dichloroethane-d4 | 70-120 | 70-120 | EPA 624/8260B |
| Toluene-d8 | 85-120 | 85-120 | |
| Bromofluorobenzene | 75-120 | 75-120 | |
| **Semi-Volatile Organic Compounds** | | | |
| 2-Fluorophenol | 20-110 | 35-105 | EPA 625/8270C |
| d5-Phenol | 15-110 | 40-100 | |
| d5-nitrobenzene | 40-110 | 35-100 | |
| 2-Fluorobiphenyl | 50-110 | 45-105 | |
| 2,4,6-Tribromophenol | 40-110 | 40-125 | |
| d14-p-terphenyl | 50-130 | 30-125 | |
| **PAH's by SIM** | | | |
| d5-nitrobenzene | 21-110 | 35-110 | EPA 8270C |
| 2-Fluorobiphenyl | 36-121 | 45-105 | |
| d14-p-terphenyl | 33-141 | 30-125 | |
| **Pesticides and PCBs** | | | |
| 2,4,5,6-Tetrachloro-m-xylene (TCX) | 46-122 | 40-130 | EPA 608/8082 |
| Decachlorobiphenyl (DCB) | 40-135 | 40-130 | |
| **Herbicides** | | | |
| Dichloroacetic acid (DCAA) | 30-150 | 30-150 | |
| **Gasoline Range Organics/TPH Gasoline** | | | |
| Trifluorotoluene TFT (FID) | 60-140 | 60-140 | MEDEP 4217/EPA 8015 |
| Bromofluorobenzene (BFB) (FID) | 60-140 | 60-140 | |
| Trifluorotoluene TFT (PID) | 60-140 | 60-140 | |
| Bromofluorobenzene (BFB) (PID) | 60-140 | 60-140 | |
| **Diesel Range Organics/TPH Diesel** | | | |
| m-terphenyl | 60-140 | 60-140 | MEDEP 4125/EPA 8015/CT ETPH |
| **Volatile Petroleum Hydrocarbons** | | | |
| 2,5-Dibromotoluene (PID) | 70-130 | 70-130 | MADEP VPH May 2004 Rev1.1 |
| 2,5-Dibromotoluene (FID) | 70-130 | 70-130 | |
| **Extracatable Petroleum Hydrocarbons** | | | |
| 1-chloro-octadecane (aliphatic) | 40-140 | 40-140 | MADEP EPH May 2004 Rev1.1 |
| o-Terphenyl (aromatic) | 40-140 | 40-140 | |
| 2-Fluorobiphenyl (Fractionation) | 40-140 | 40-140 | |
| 2-Bromonaphthalene (fractionation) | 40-140 | 40-140 | |

analytics environmental laboratory LLC

# PCB
# DATA SUMMARIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCB.doc

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-1 |
| **Matrix:** | Solid |
| **Percent Solid:** | 81 |
| **Dilution Factor:** | 12 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-227 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 396 | U |
| PCB-1221 | 396 | U |
| PCB-1232 | 396 | U |
| PCB-1242 | 396 | U |
| PCB-1248 | 396 | U |
| PCB-1254 | 396 | U |
| PCB-1260 | 396 | **2840** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 86 | % |
| Decachlorobiphenyl | 100 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-1,1:10
Data File: M67716.D
Dilution Factor: 12.0

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 2749 | 2841 | 3.3 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

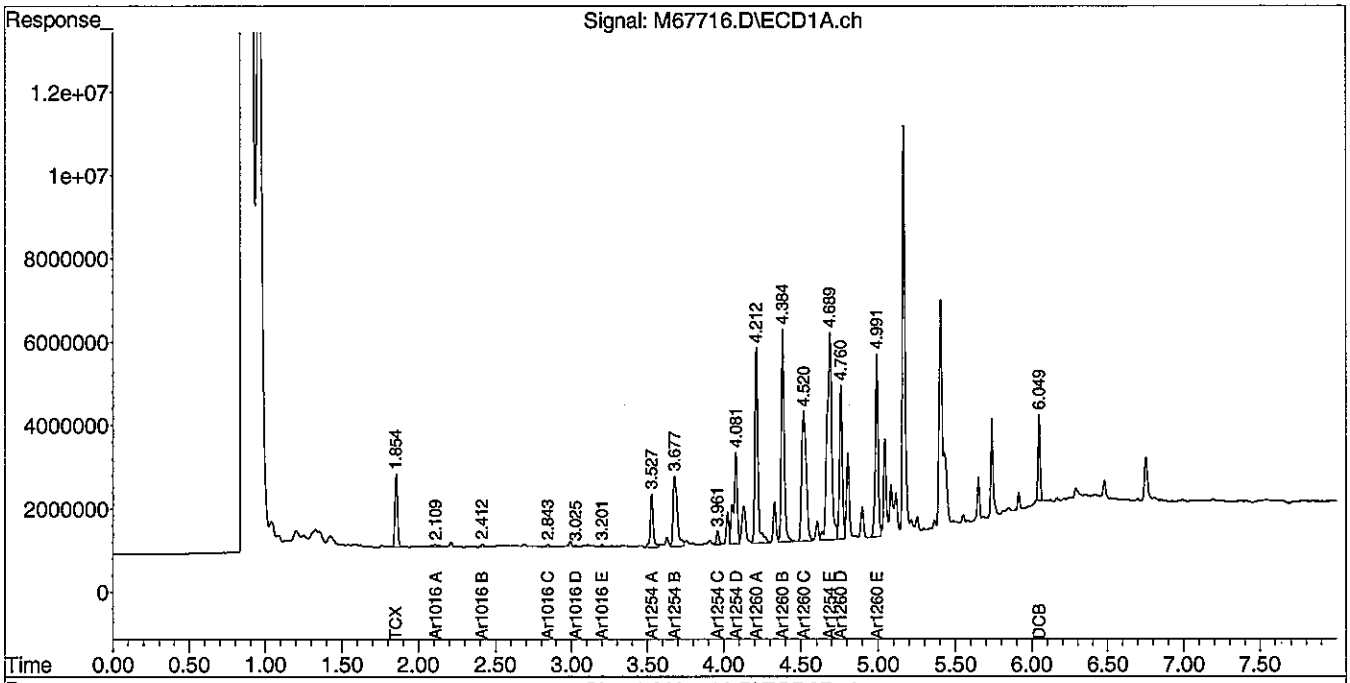
Comments: _____

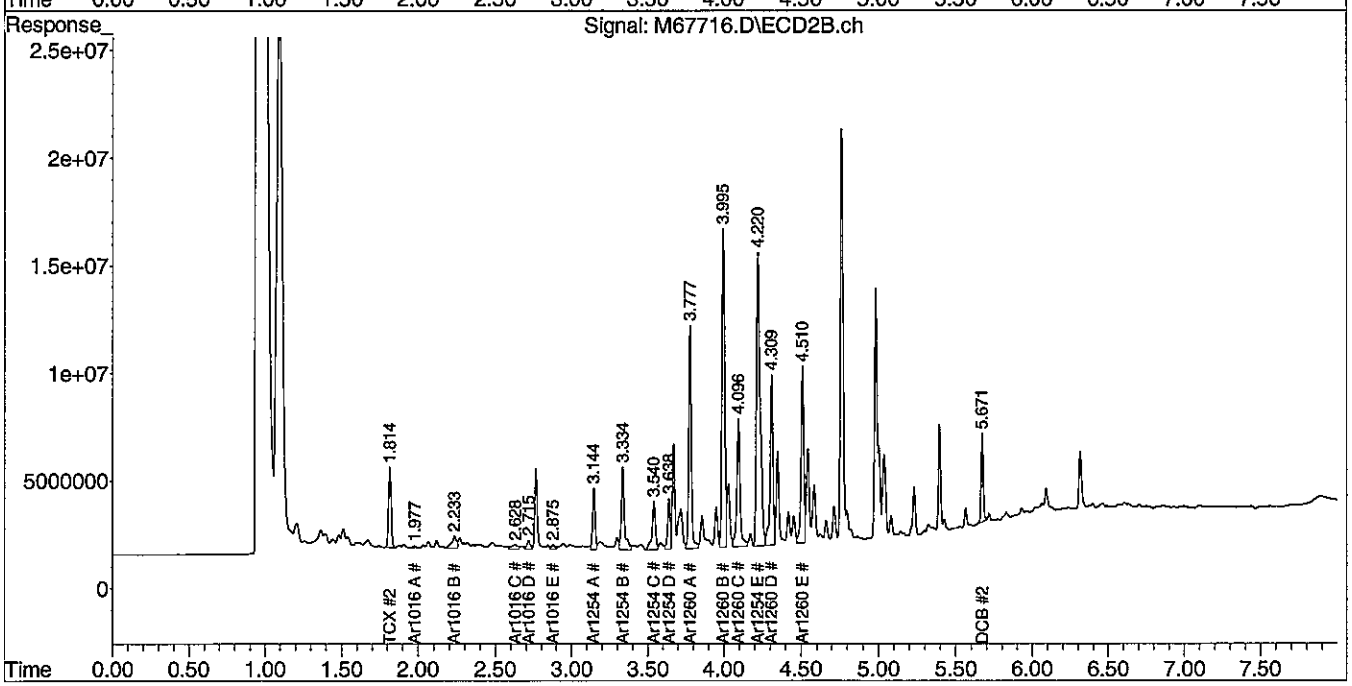
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67716.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 3:03 am
Operator : JK
Sample : 74887-1,1:10
Misc : SOIL
ALS Vial : 56 Sample Multiplier: 1

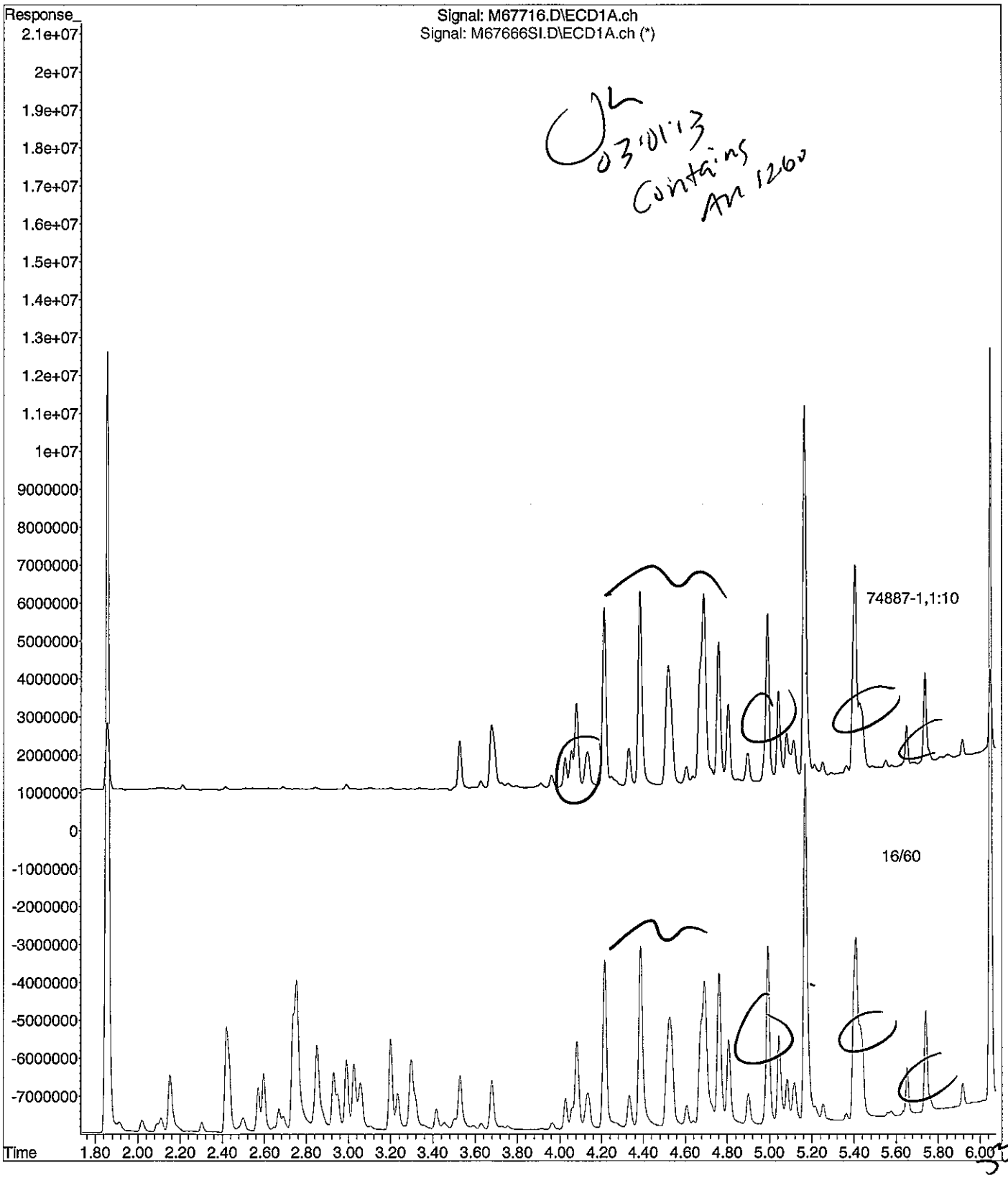
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 10:33:06 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\022813-M\M67716.D
Operator : JK
Acquired : 1 Mar 2013 3:03 am using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 74887-1,1:10
Misc Info : SOIL
Vial Number: 56



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-2 |
| **Matrix:** | Solid |
| **Percent Solid:** | 87 |
| **Dilution Factor:** | 11 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-227 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 363 | U |
| PCB-1221 | 363 | U |
| PCB-1232 | 363 | U |
| PCB-1242 | 363 | U |
| PCB-1248 | 363 | U |
| PCB-1254 | 363 | U |
| PCB-1260 | 363 | **1930** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 90 | % |
| Decachlorobiphenyl | 97 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-2,1:10
Data File: M67717.D
Dilution Factor: 10.5

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 1727 | 1927 | 11.0 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

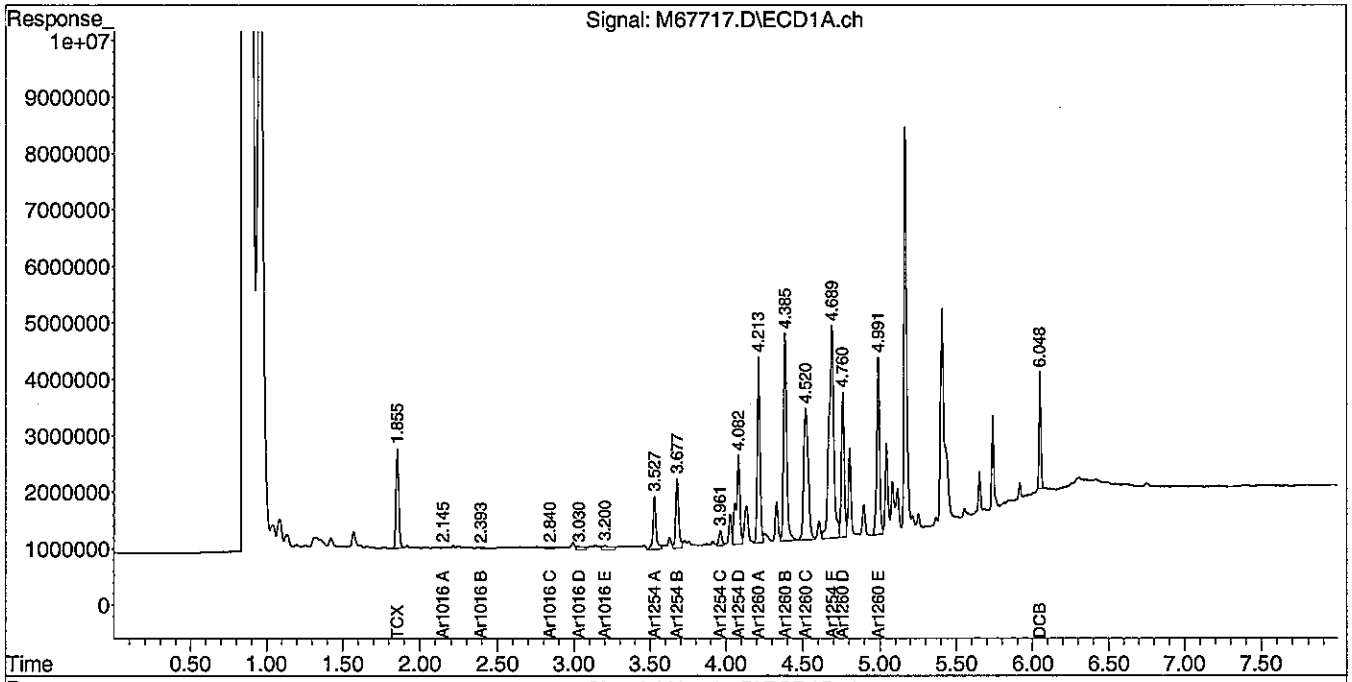
Comments: _____

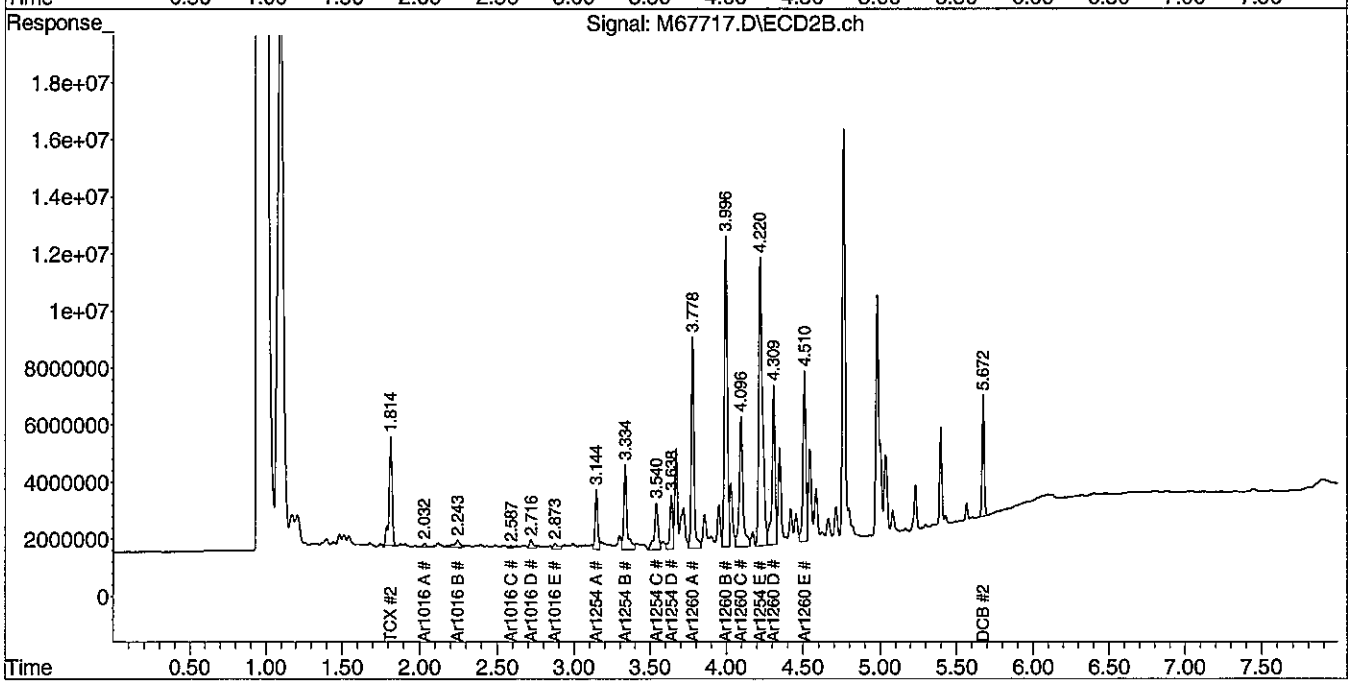
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67717.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 3:13 am
Operator : JK
Sample : 74887-2,1:10
Misc : SOIL
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 10:33:08 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-3 |
| **Matrix:** | Solid |
| **Percent Solid:** | 87 |
| **Dilution Factor:** | 6 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-227 (4-6') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 198 | U |
| PCB-1221 | 198 | U |
| PCB-1232 | 198 | U |
| PCB-1242 | 198 | U |
| PCB-1248 | 198 | U |
| PCB-1254 | 198 | U |
| PCB-1260 | 198 | **996** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 89 | % |
| Decachlorobiphenyl | 89 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-3,1:5
Data File: M67718.D
Dilution Factor: 5.6

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 938 | 996 | 6.0 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

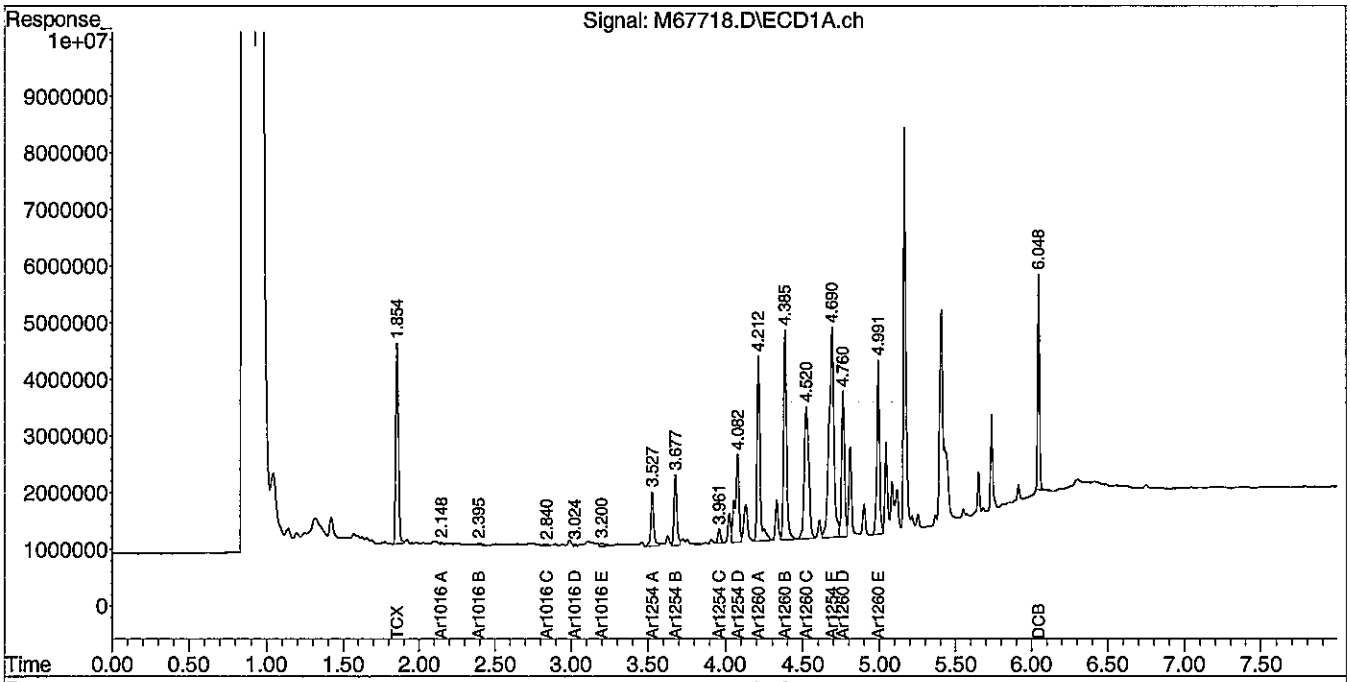
Comments: _____

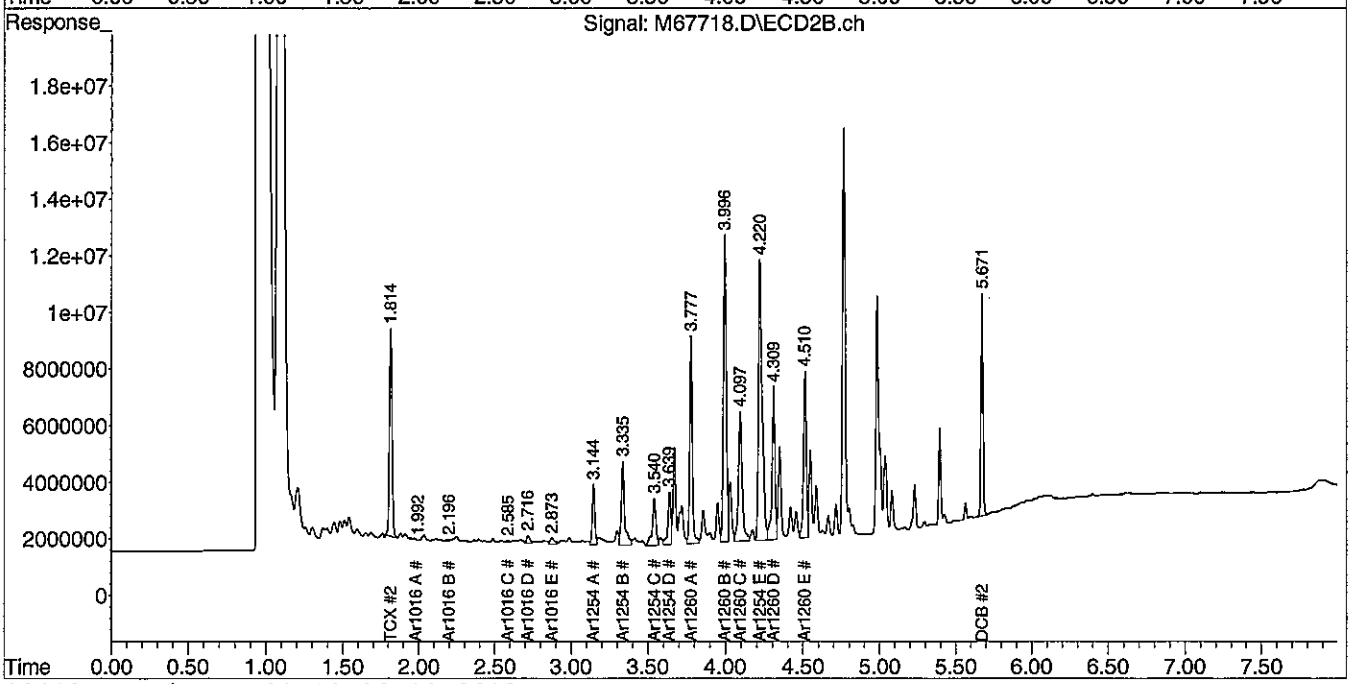
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67718.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 3:23 am
Operator : JK
Sample : 74887-3,1:5
Misc : SOIL
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 10:33:10 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-4 |
| **Matrix:** | Solid |
| **Percent Solid:** | 90 |
| **Dilution Factor:** | 11 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-227 (6-8') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 363 | U |
| PCB-1221 | 363 | U |
| PCB-1232 | 363 | U |
| PCB-1242 | 363 | U |
| PCB-1248 | 363 | U |
| PCB-1254 | 363 | U |
| PCB-1260 | 363 | **4320** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 86 | % |
| Decachlorobiphenyl | 83 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-4,1:10
Data File: M67719.D
Dilution Factor: 10.5

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 4320 | 4282 | 0.9 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

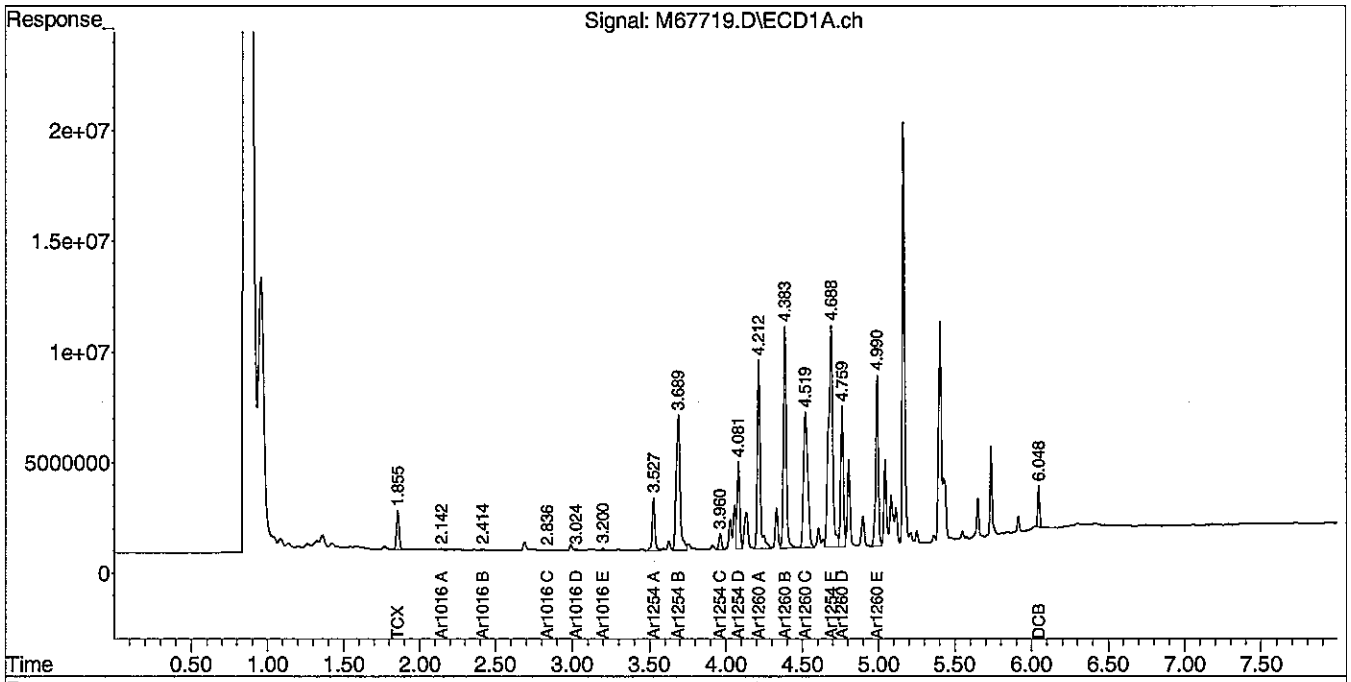
Comments: _____

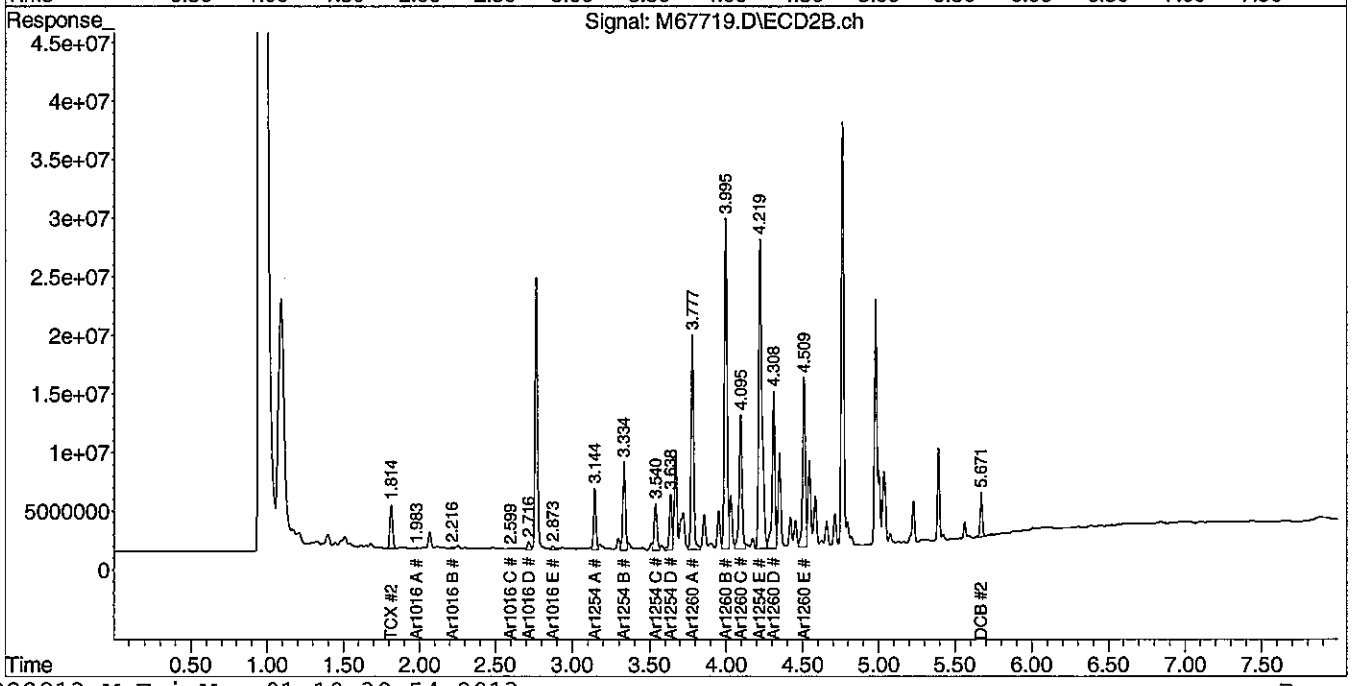
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67719.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 3:33 am
Operator : JK
Sample : 74887-4,1:10
Misc : SOIL
ALS Vial : 59 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 10:33:12 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-5 |
| **Matrix:** | Solid |
| **Percent Solid:** | 84 |
| **Dilution Factor:** | 232 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-228 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 7660 | U |
| PCB-1221 | 7660 | U |
| PCB-1232 | 7660 | U |
| PCB-1242 | 7660 | U |
| PCB-1248 | 7660 | U |
| PCB-1254 | 7660 | U |
| PCB-1260 | 7660 | **86200** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-5,1:200
Data File: M67720.D
Dilution Factor: 232.0

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 86248 | 84887 | 1.6 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

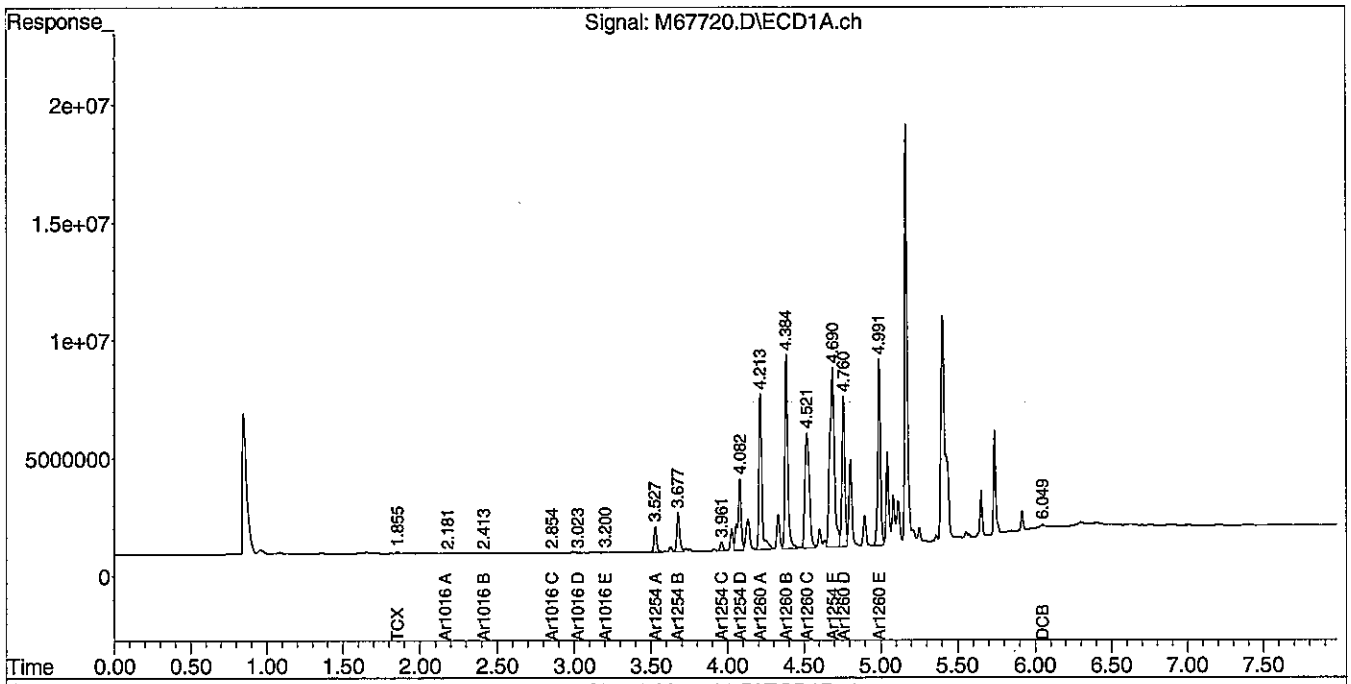
Comments: _____

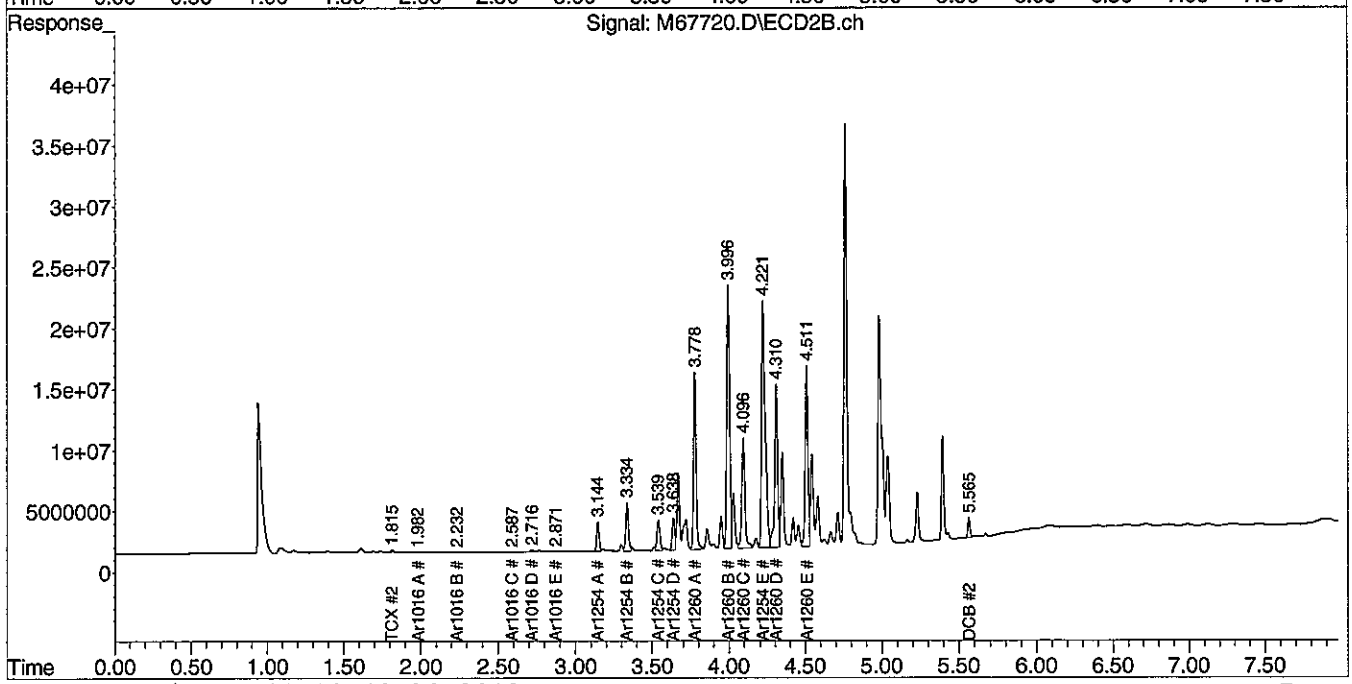
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67720.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 3:43 am
Operator : JK
Sample : 74887-5,1:200
Misc : SOIL
ALS Vial : 60 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 10:33:14 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-6 |
| **Matrix:** | Solid |
| **Percent Solid:** | 87 |
| **Dilution Factor:** | 6 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-228 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 198 | U |
| PCB-1221 | 198 | U |
| PCB-1232 | 198 | U |
| PCB-1242 | 198 | U |
| PCB-1248 | 198 | U |
| PCB-1254 | 198 | U |
| PCB-1260 | 198 | **1360** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 85 | % |
| Decachlorobiphenyl | 89 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-6,1:5
Data File: M67721.D
Dilution Factor: 5.8

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 1264 | 1356 | 7.0 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

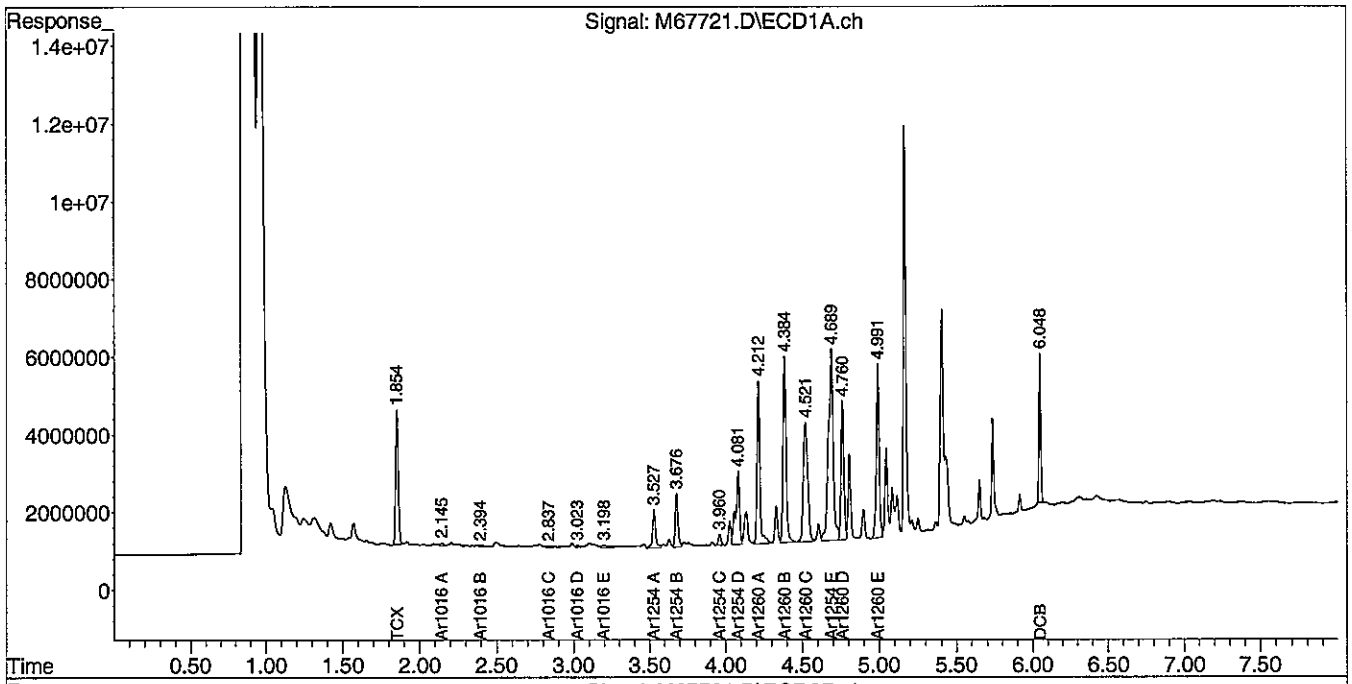
Comments: _____

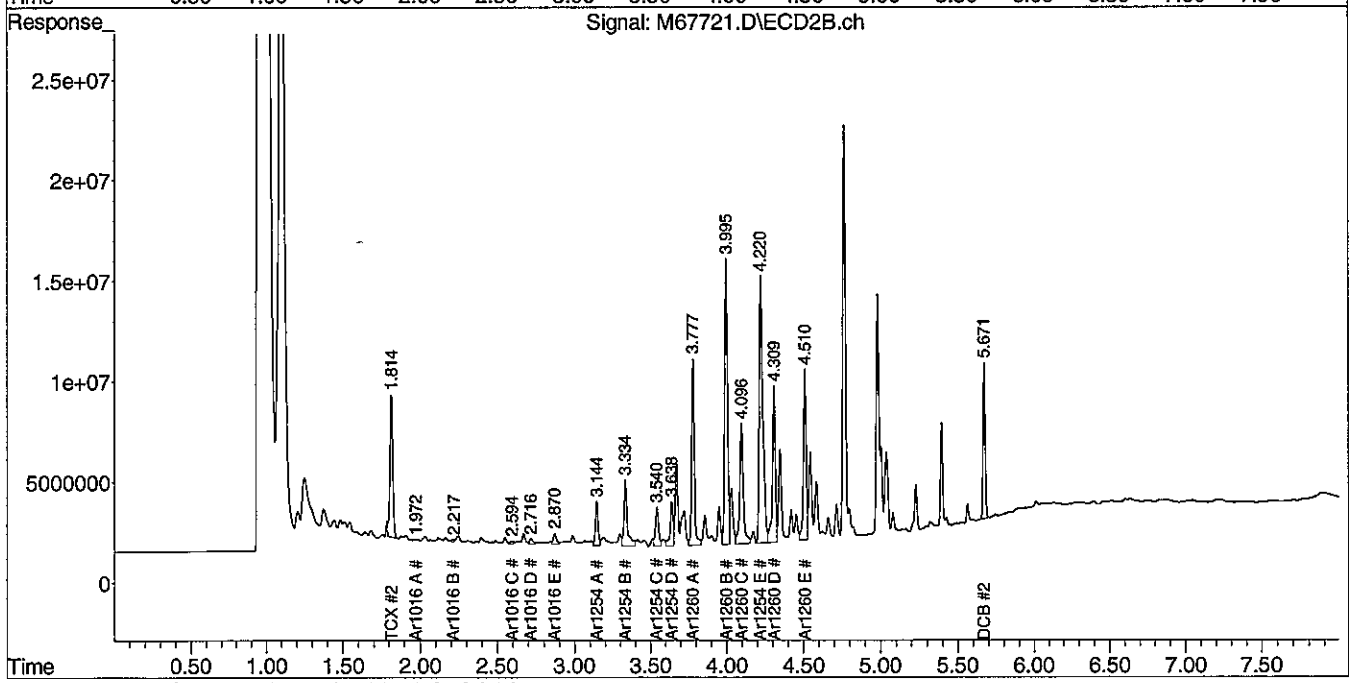
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67721.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 3:53 am
Operator : JK
Sample : 74887-6,1:5
Misc : SOIL
ALS Vial : 61 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 10:33:16 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-7 |
| **Matrix:** | Solid |
| **Percent Solid:** | 93 |
| **Dilution Factor:** | 54 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-228 (4-6') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 1780 | U |
| PCB-1221 | 1780 | U |
| PCB-1232 | 1780 | U |
| PCB-1242 | 1780 | U |
| PCB-1248 | 1780 | U |
| PCB-1254 | 1780 | U |
| PCB-1260 | 1780 | **19500** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-7,1:50
Data File: M67722.D
Dilution Factor: 53.6

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 19458 | 19145 | 1.6 | |

# Column to be used to flag RPD values greater than QC limit of 40%

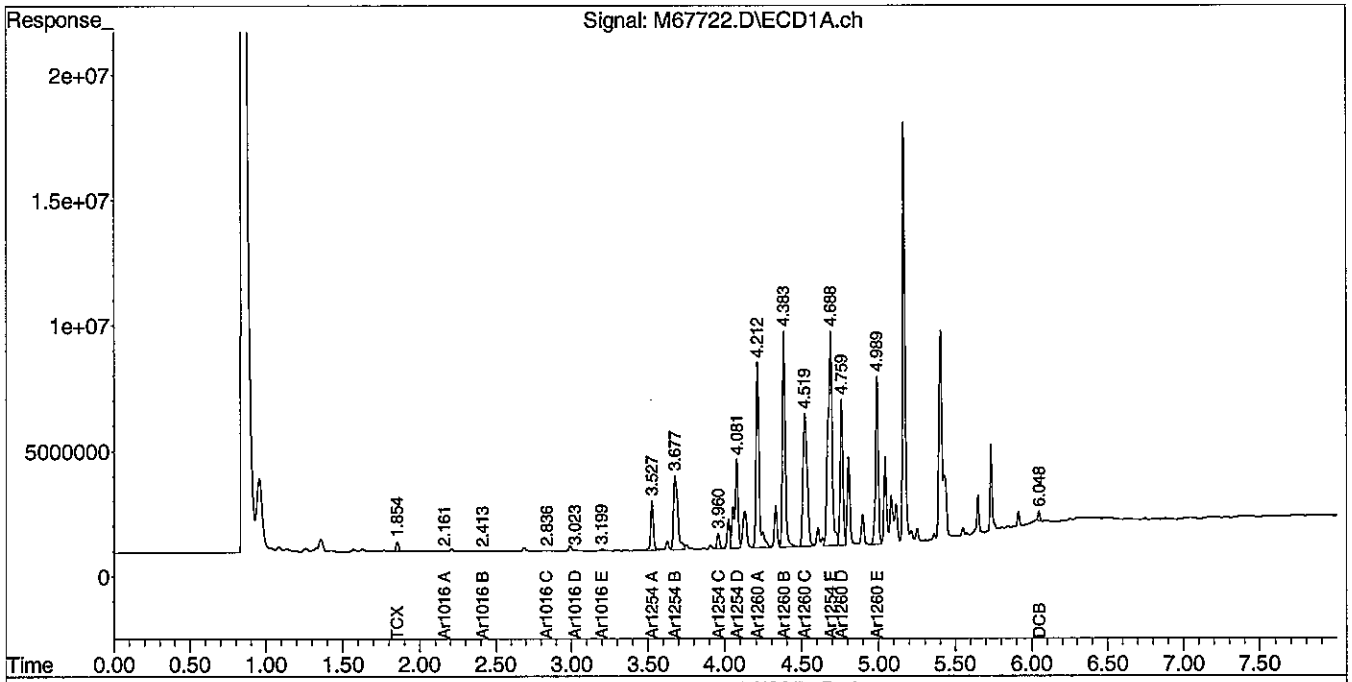
* Values outside QC limits

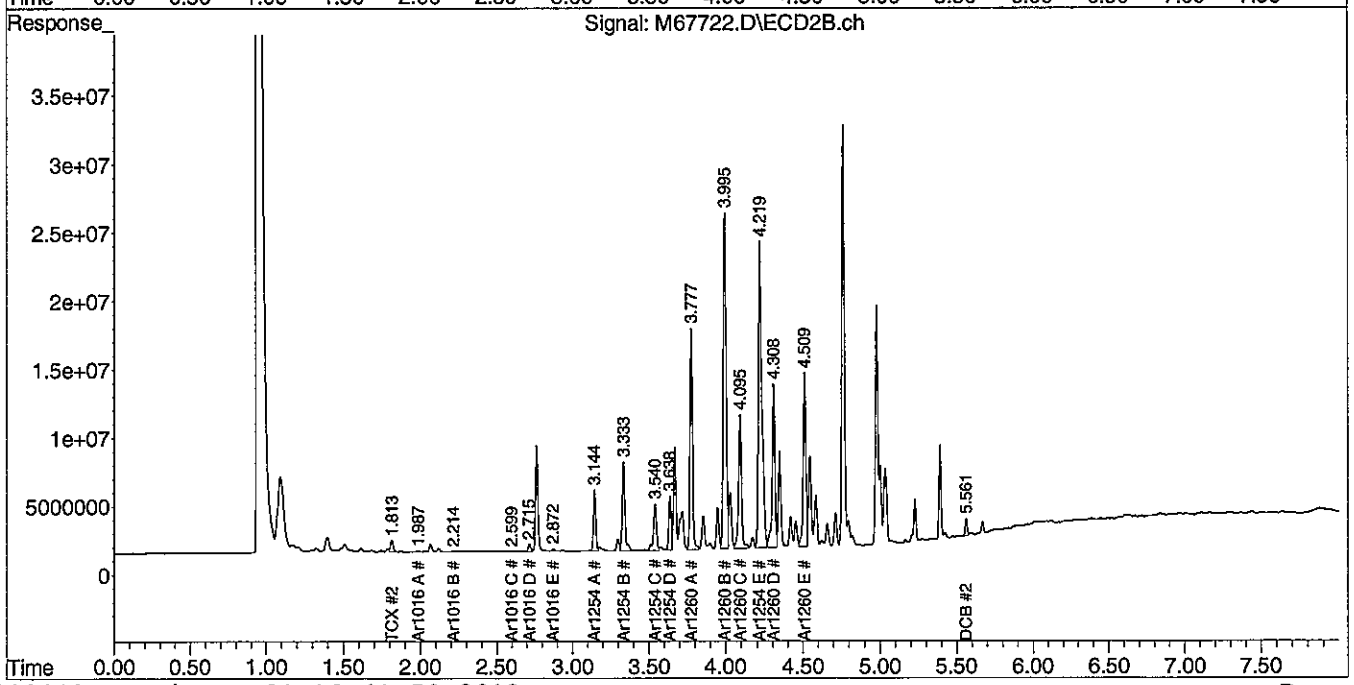
Comments: _____

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67722.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 4:03 am
Operator : JK
Sample : 74887-7,1:50
Misc : SOIL
ALS Vial : 62 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 10:33:18 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-8 |
| **Matrix:** | Solid |
| **Percent Solid:** | 91 |
| **Dilution Factor:** | 10 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-228 (6-8') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 330 | U |
| PCB-1221 | 330 | U |
| PCB-1232 | 330 | U |
| PCB-1242 | 330 | U |
| PCB-1248 | 330 | U |
| PCB-1254 | 330 | U |
| PCB-1260 | 330 | **3980** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 87 | % |
| Decachlorobiphenyl | 80 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-8,1:10
Data File: M67723.D
Dilution Factor: 10.2

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 3938 | 3981 | 1.1 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

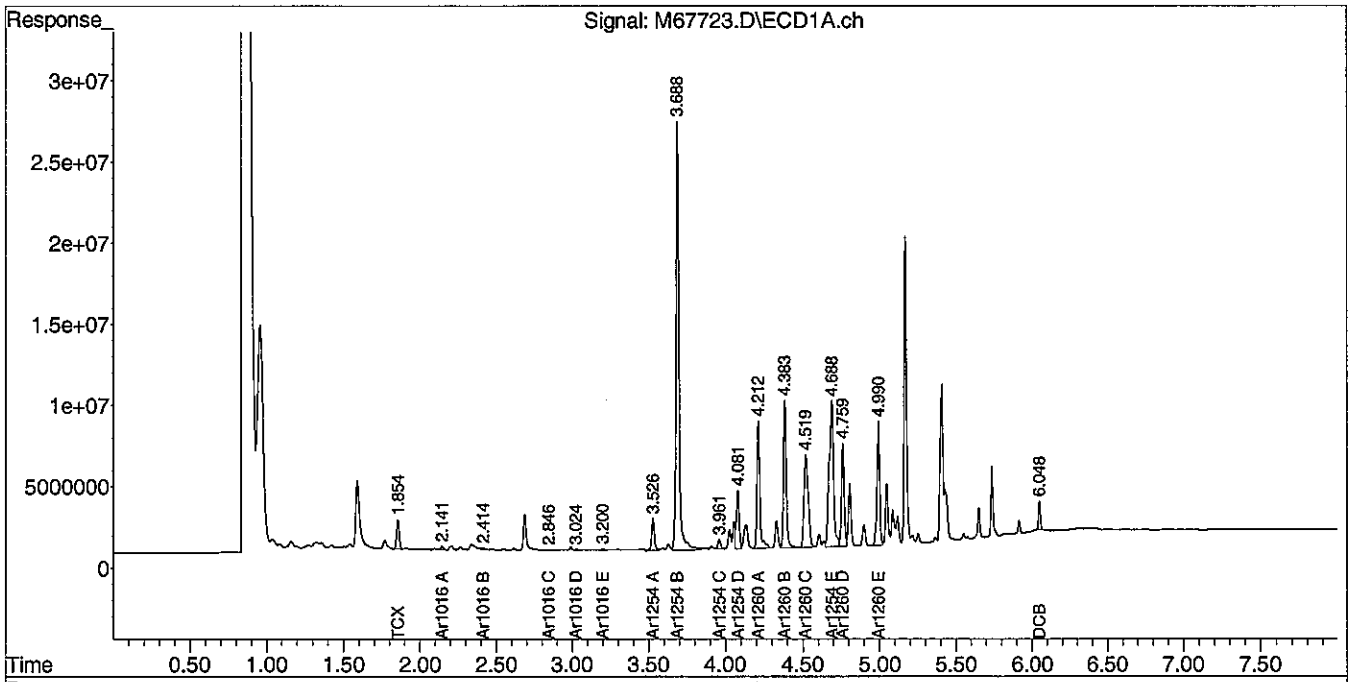
Comments: _____

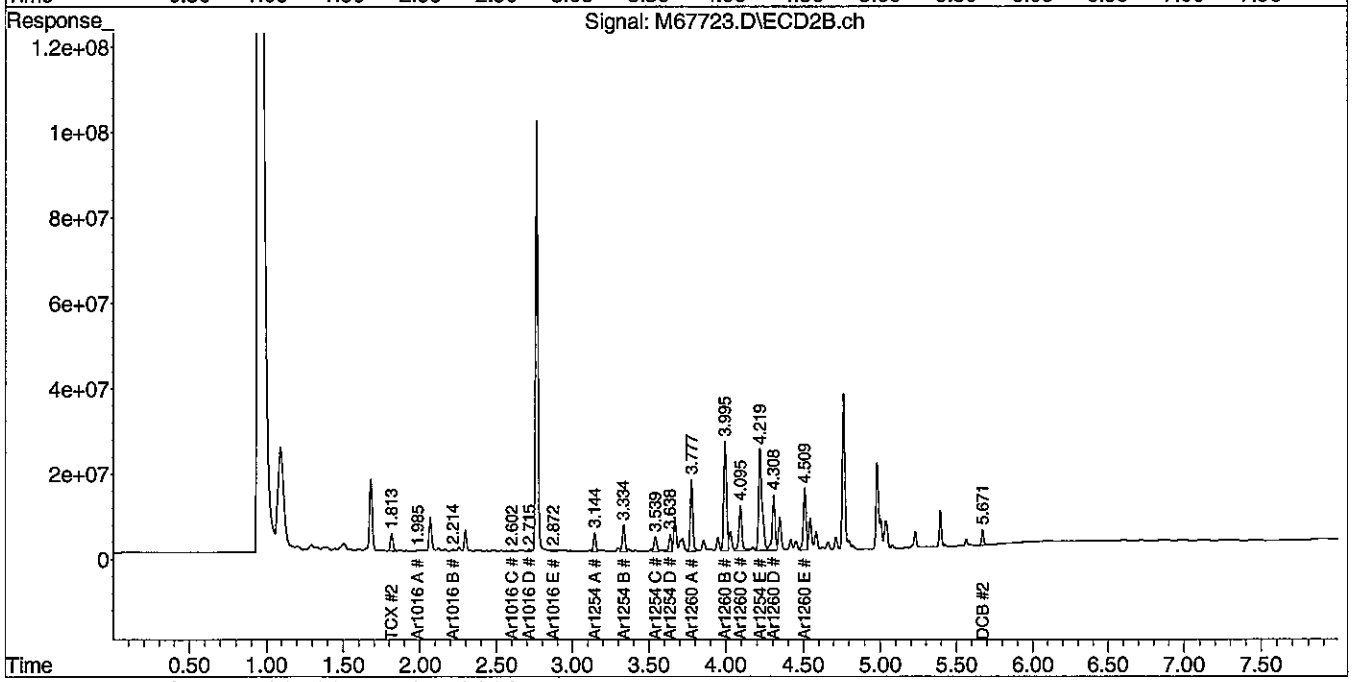
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67723.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 4:14 am
Operator : JK
Sample : 74887-8,1:10
Misc : SOIL
ALS Vial : 63 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 10:33:20 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-9 |
| **Matrix:** | Solid |
| **Percent Solid:** | 92 |
| **Dilution Factor:** | 52 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-228 (8-10') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 1720 | U |
| PCB-1221 | 1720 | U |
| PCB-1232 | 1720 | U |
| PCB-1242 | 1720 | U |
| PCB-1248 | 1720 | U |
| PCB-1254 | 1720 | U |
| PCB-1260 | 1720 | **15500** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-9,1:50
Data File: M67724.D
Dilution Factor: 51.6

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 15248 | 15471 | 1.5 | |

# Column to be used to flag RPD values greater than QC limit of 40%

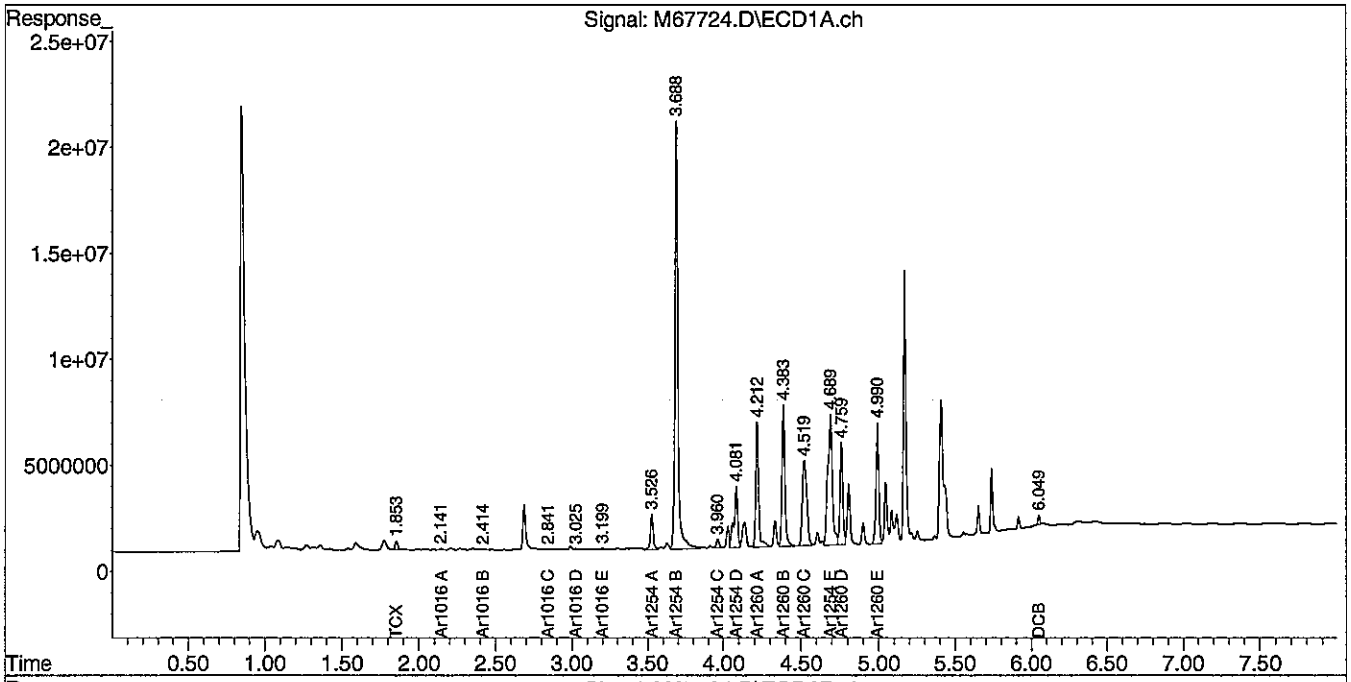
* Values outside QC limits

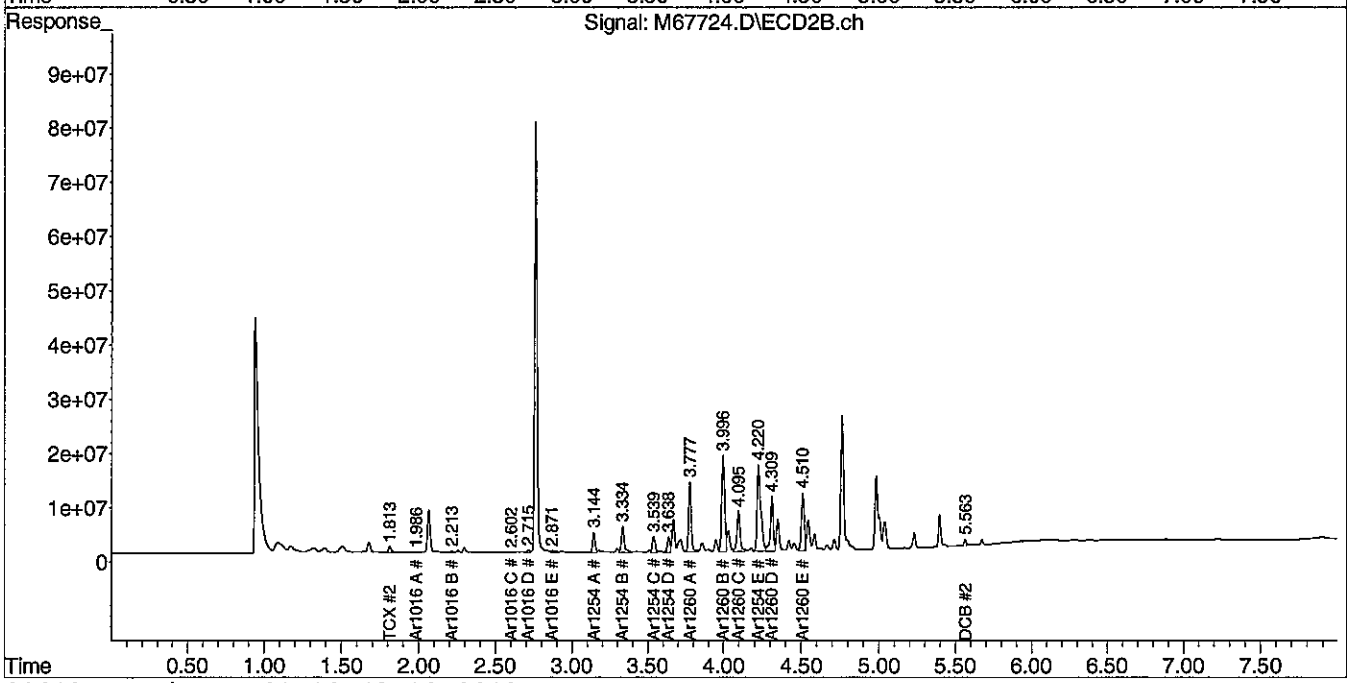
Comments: _____

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67724.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 4:24 am
Operator : JK
Sample : 74887-9,1:50
Misc : SOIL
ALS Vial : 64 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 10:33:22 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**CLIENT SAMPLE ID**

**Project Name:** MAINE ENERGY

**Project Number:** 12-3259.1

**Field Sample ID:** SE-SB-222 (0-2')

**SAMPLE DATA**

**Lab Sample ID:** 74887-10
**Matrix:** Solid
**Percent Solid:** 94
**Dilution Factor:** 10
**Collection Date:** 02/20/13
**Lab Receipt Date:** 02/22/13
**Extraction Date:** 02/25/13
**Analysis Date:** 03/01/13

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 330 | U |
| PCB-1221 | 330 | U |
| PCB-1232 | 330 | U |
| PCB-1242 | 330 | U |
| PCB-1248 | 330 | U |
| PCB-1254 | 330 | U |
| PCB-1260 | 330 | **2740** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 73 | % |
| Decachlorobiphenyl | 80 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-10,1:10
Data File: M67725.D
Dilution Factor: 10.1

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 2744 | 2603 | 5.3 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

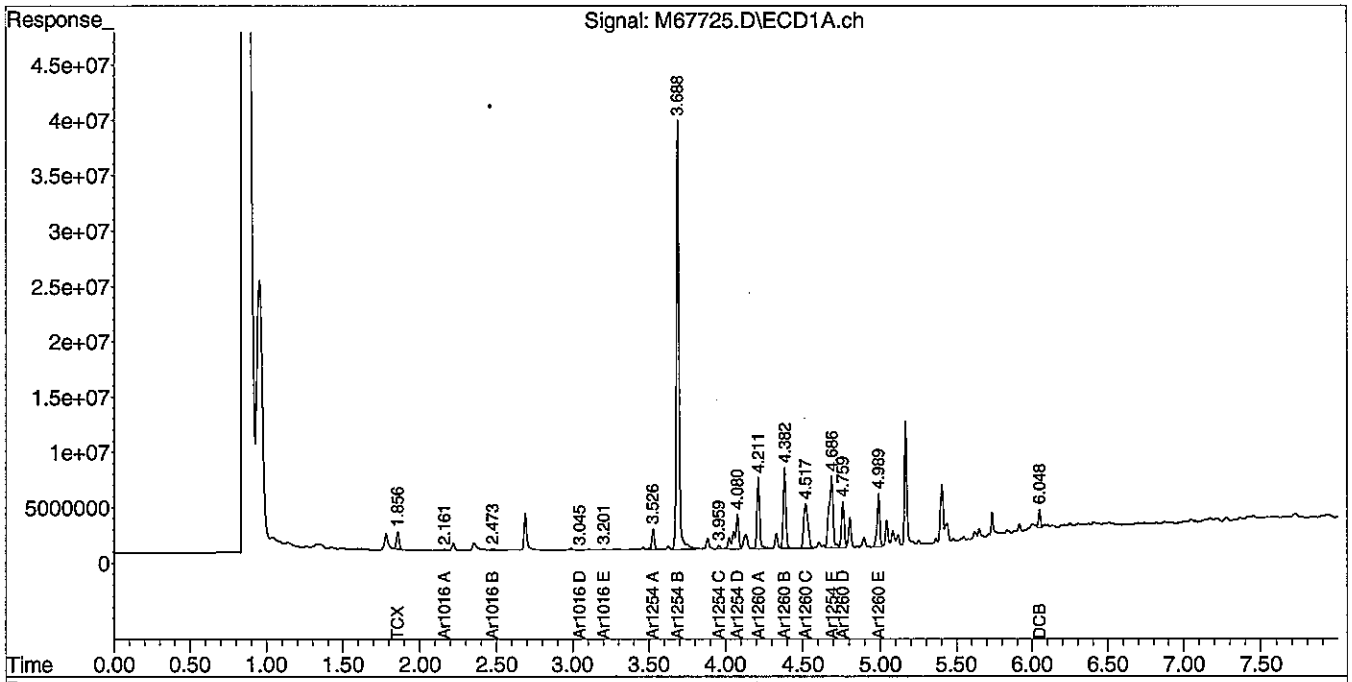
Comments: _____

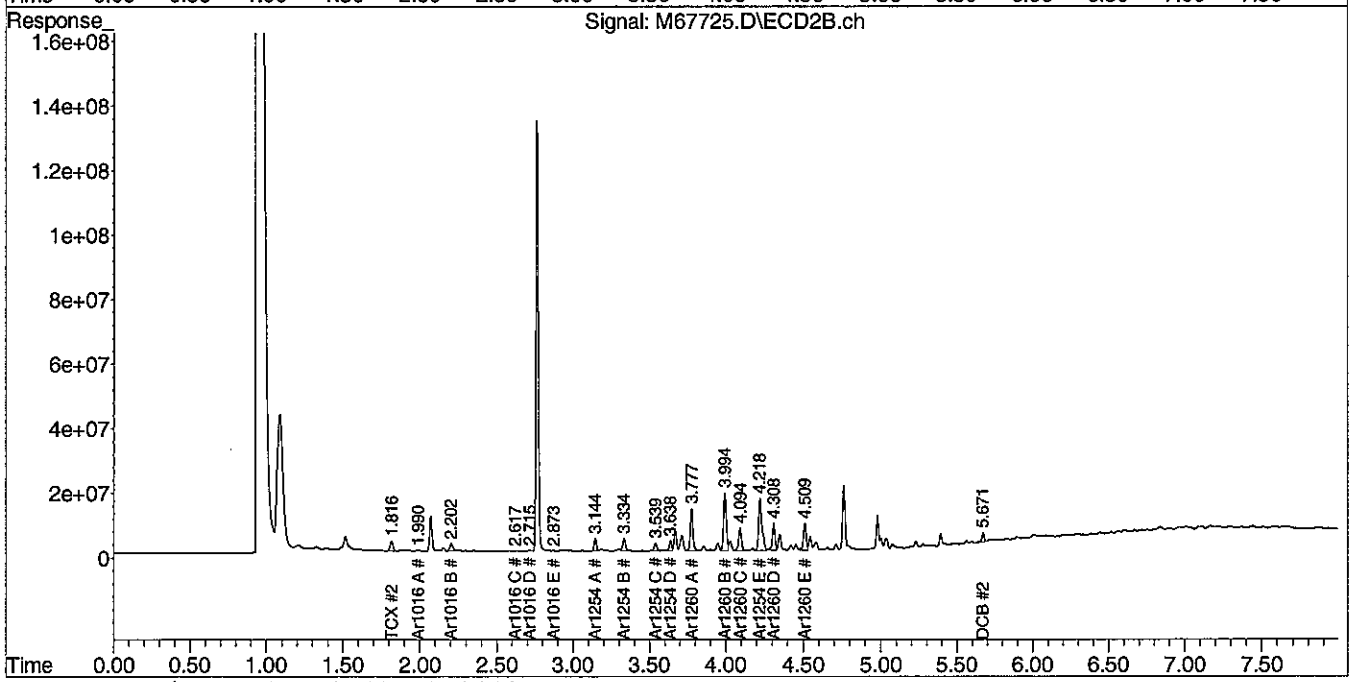
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67725.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 4:34 am
Operator : JK
Sample : 74887-10,1:10
Misc : SOIL
ALS Vial : 65 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 10:43:45 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-11 |
| **Matrix:** | Solid |
| **Percent Solid:** | 92 |
| **Dilution Factor:** | 2.2 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-222 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 73 | U |
| PCB-1221 | 73 | U |
| PCB-1232 | 73 | U |
| PCB-1242 | 73 | U |
| PCB-1248 | 73 | U |
| PCB-1254 | 73 | U |
| PCB-1260 | 73 | **447** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 50 | % |
| Decachlorobiphenyl | 35* | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.
* Surrogate recovery outside control limits. Secondary surrogate is in control. Sample was reanalyzed with similar results.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-11,1:2
Data File: M67726.D
Dilution Factor: 2.2

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 447 | 408 | 9.1 | |

# Column to be used to flag RPD values greater than QC limit of 40%

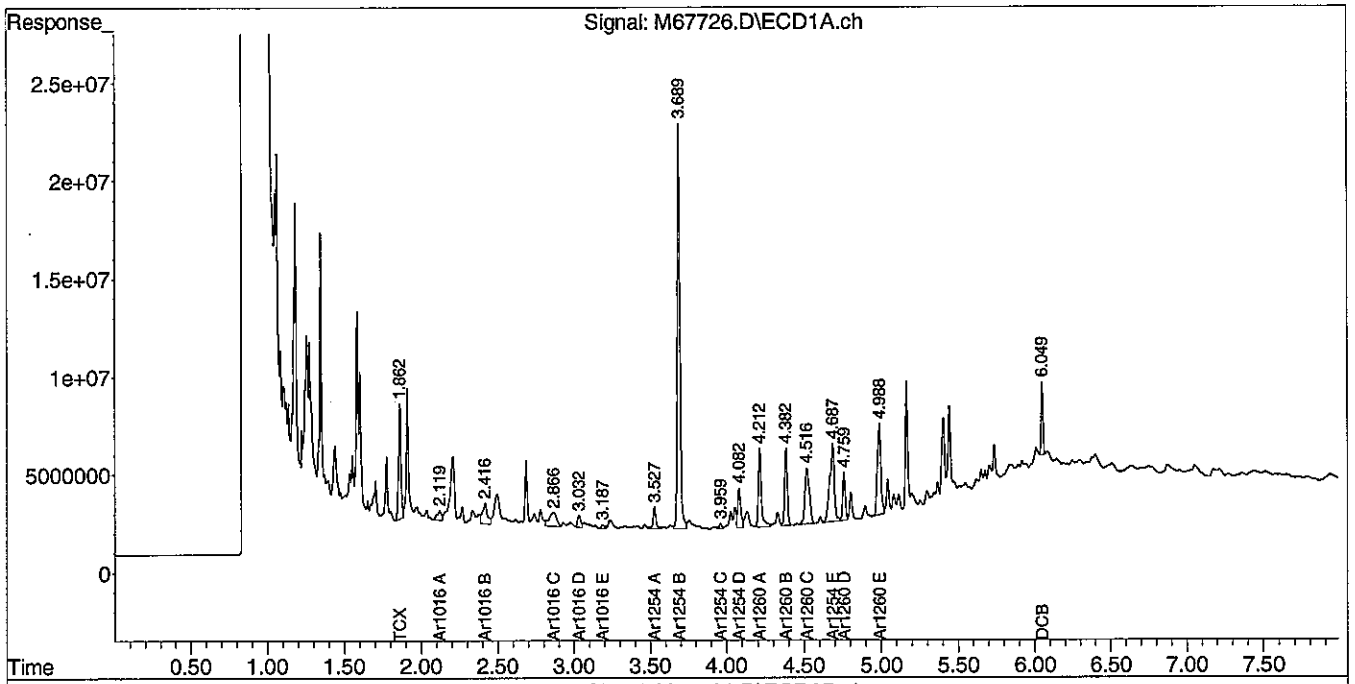
* Values outside QC limits

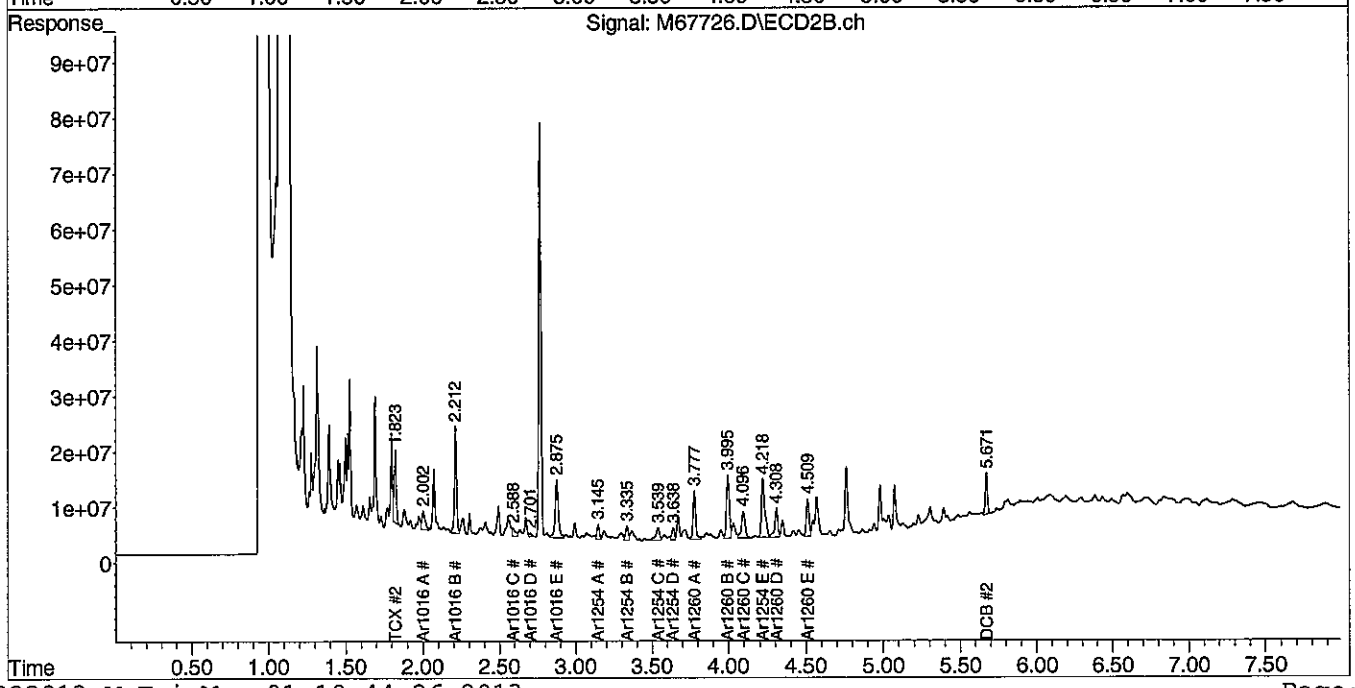
Comments: _____

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67726.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 4:44 am
Operator : JK
Sample : 74887-11,1:2
Misc : SOIL
ALS Vial : 66 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 10:33:26 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-12 |
| **Matrix:** | Solid |
| **Percent Solid:** | 92 |
| **Dilution Factor:** | 2.1 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-222 (4-6') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 69 | U |
| PCB-1221 | 69 | U |
| PCB-1232 | 69 | U |
| PCB-1242 | 69 | U |
| PCB-1248 | 69 | U |
| PCB-1254 | 69 | U |
| PCB-1260 | 69 | **823** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 86 | % |
| Decachlorobiphenyl | 77 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-12,1:5
Data File: M67727.D
Dilution Factor: 5.4

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 807 | 823 | 2.0 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

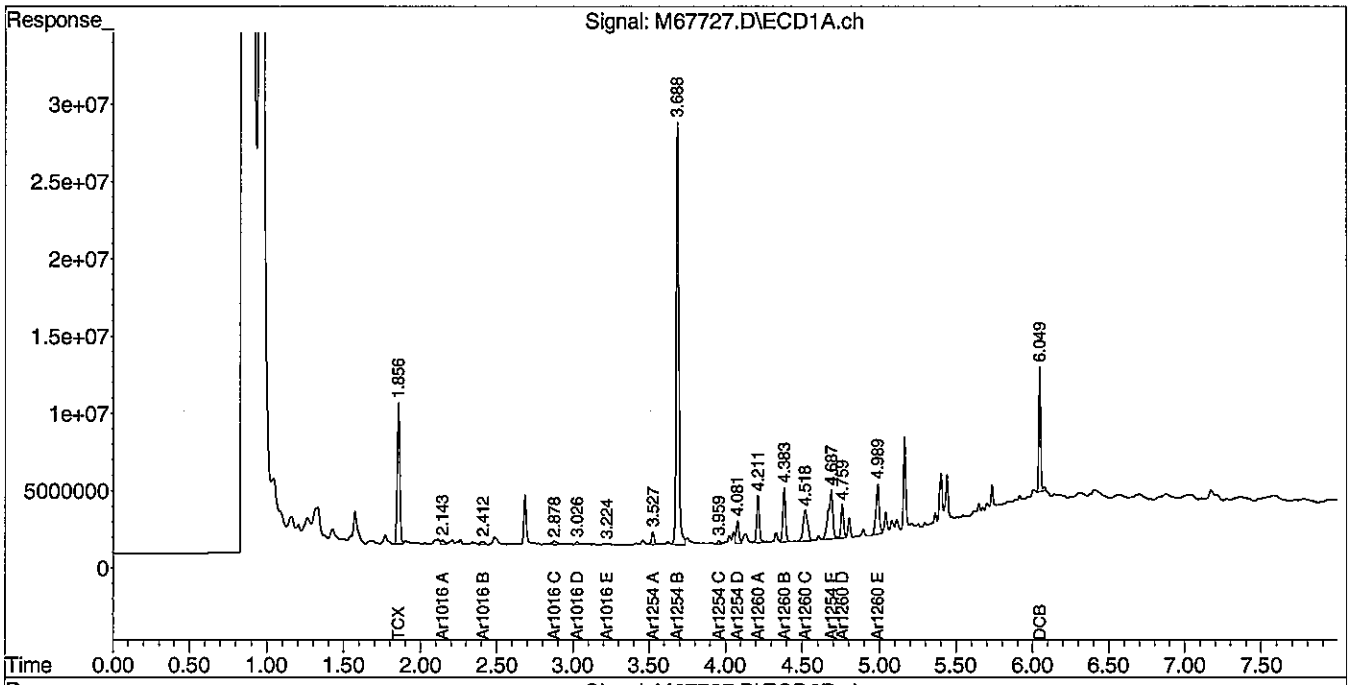
Comments: _____

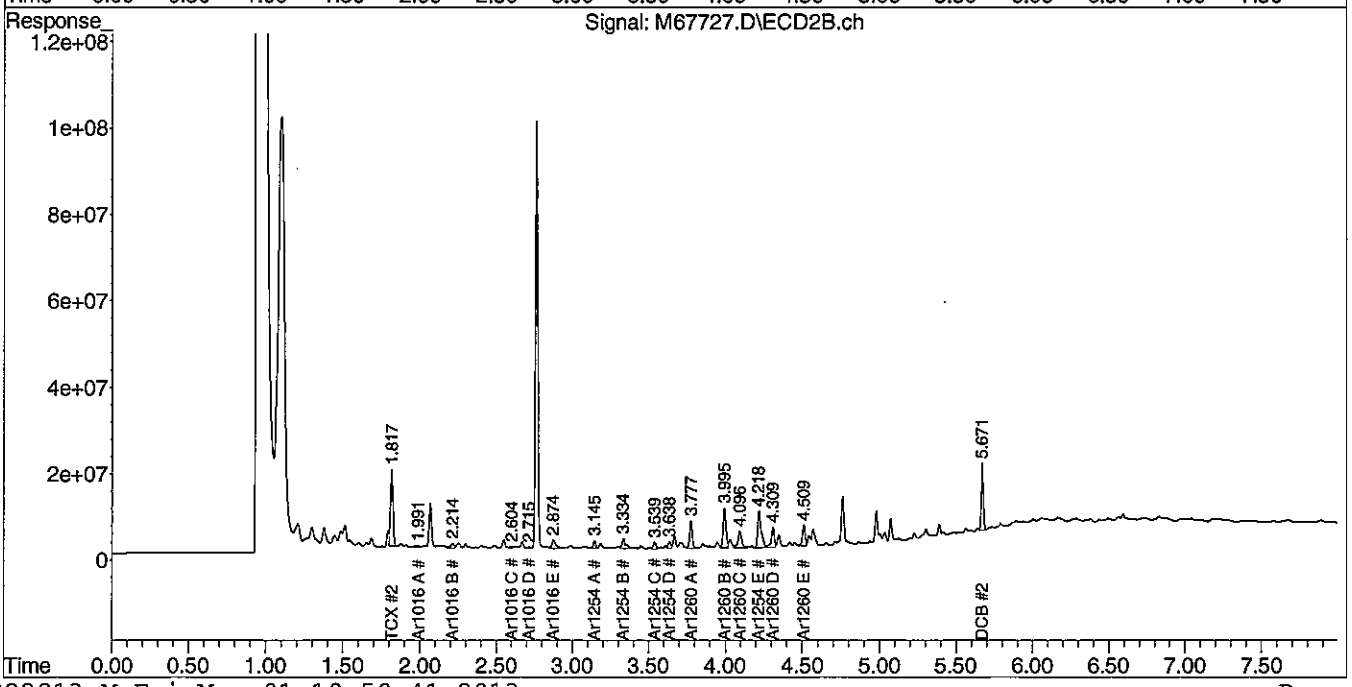
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67727.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 4:54 am
Operator : JK
Sample : 74887-12,1:2 (Sig #1); 74887-12,1:5 (Sig #2)
Misc : SOIL
ALS Vial : 67 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 10:33:28 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:41 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-13 |
| **Matrix:** | Solid |
| **Percent Solid:** | 95 |
| **Dilution Factor:** | 1.0 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-222 (6-8') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | **146** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 111 | % |
| Decachlorobiphenyl | 88 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-13
Data File: M67733.D
Dilution Factor: 1.0

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 116 | 146 | 23.0 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

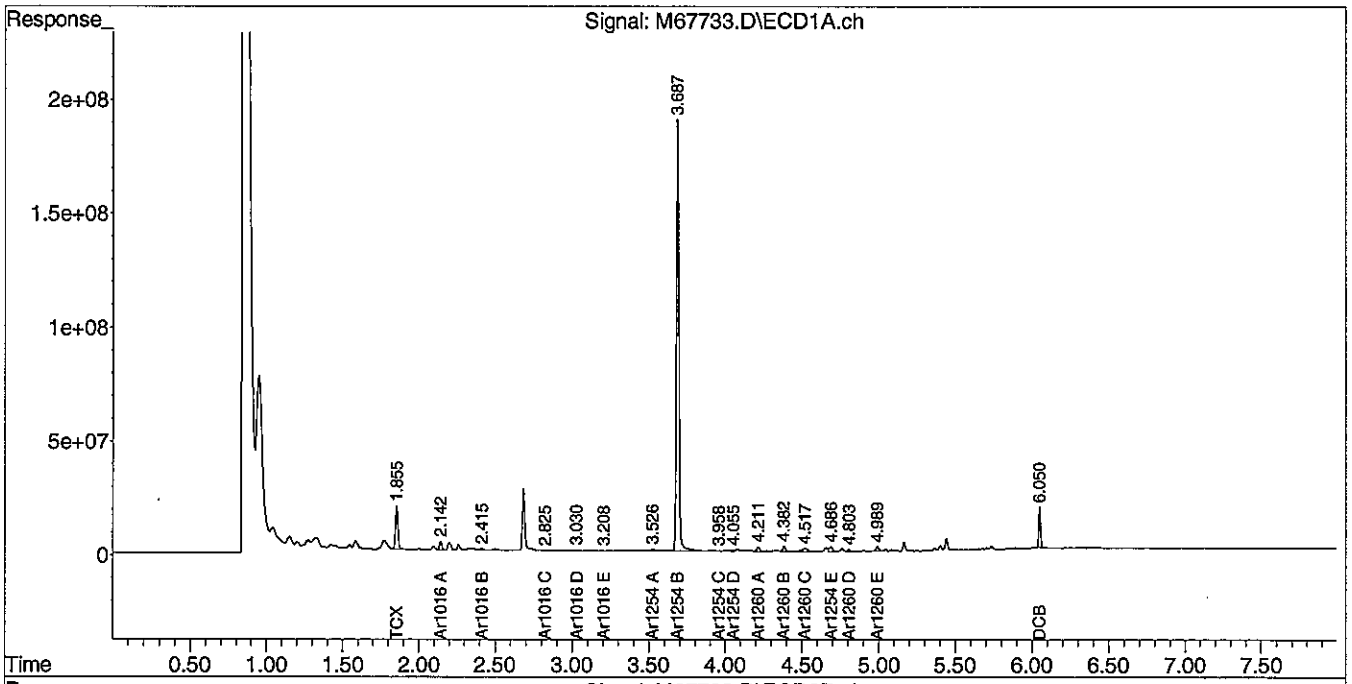
Comments: _____

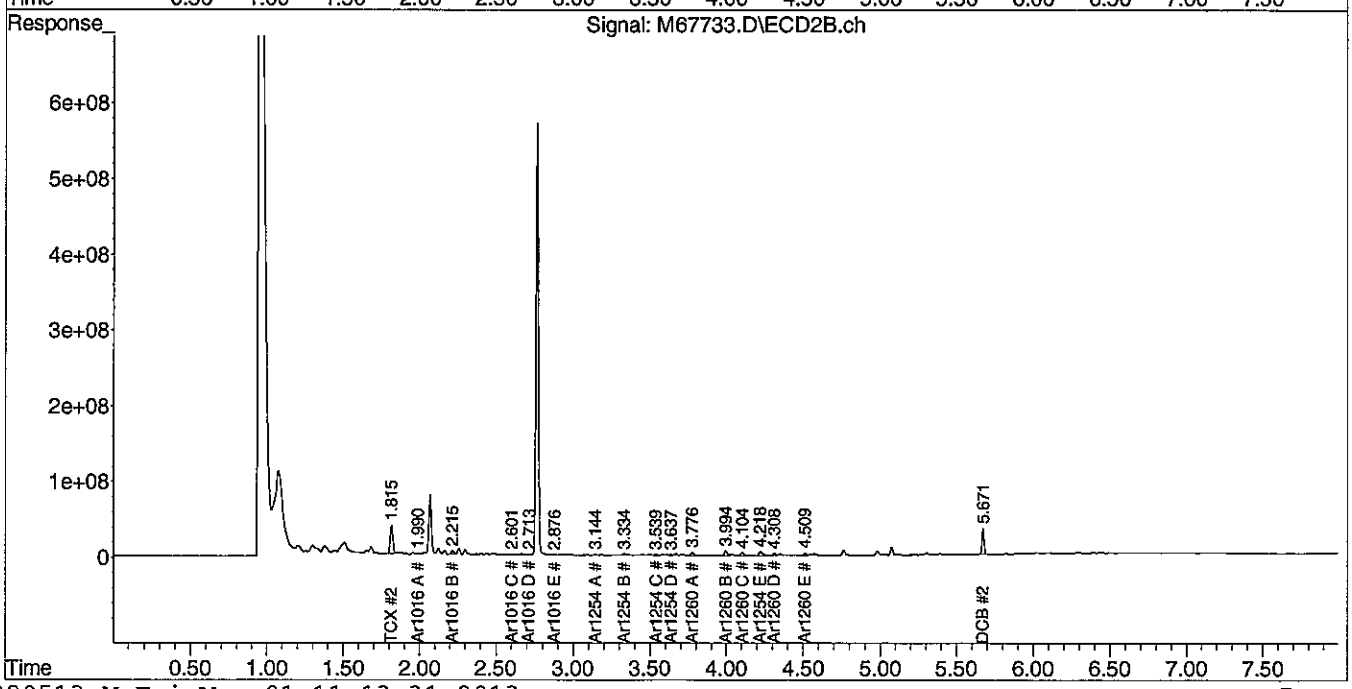
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67733.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 5:54 am
Operator : JK
Sample : 74887-13
Misc : SOIL
ALS Vial : 68 Sample Multiplier: 1

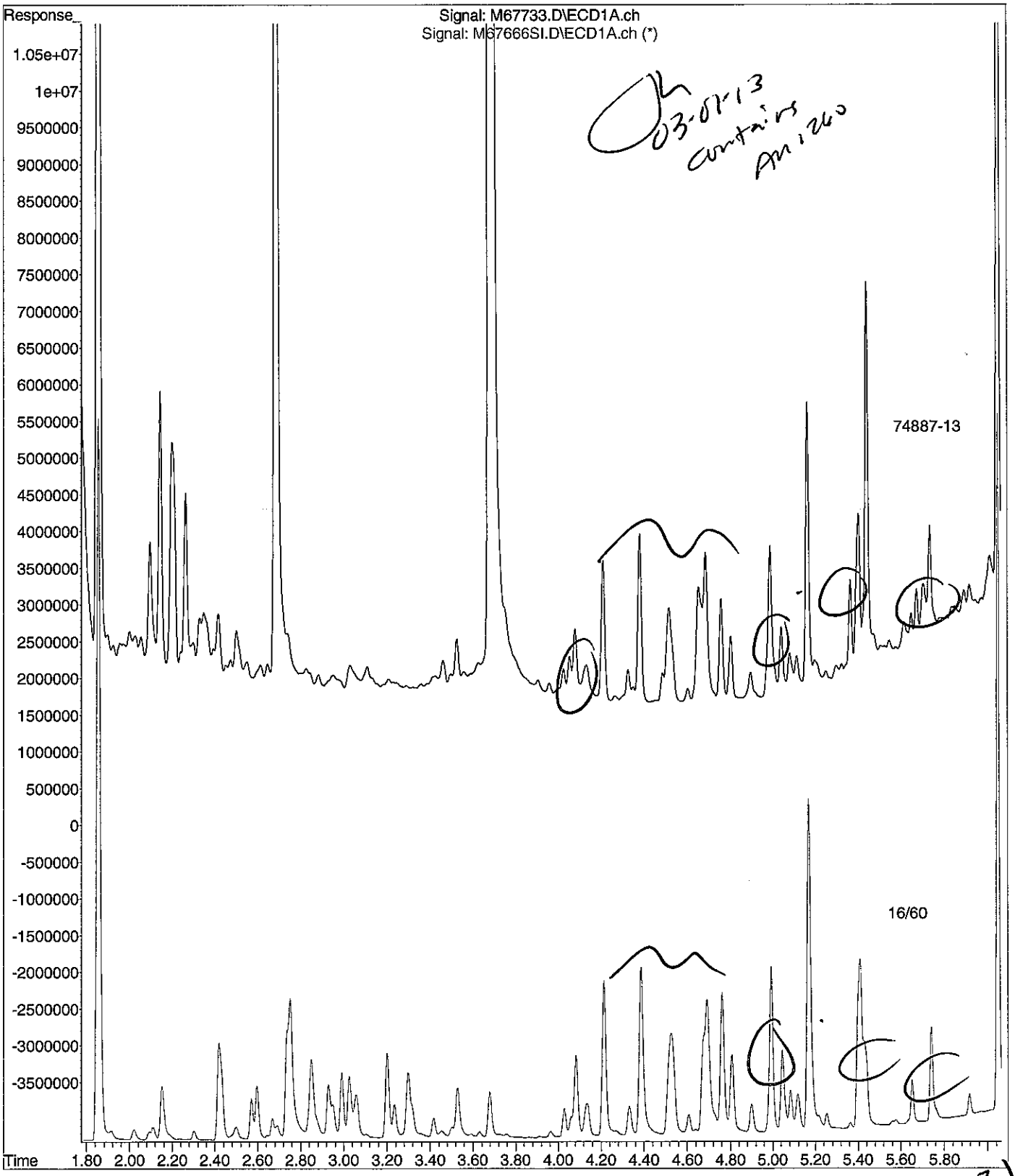
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 11:12:27 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Feb 28 11:22:13 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\022813-M\M67733.D
Operator : JK
Acquired : 1 Mar 2013 5:54 am using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 74887-13
Misc Info : SOIL
Vial Number: 68

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analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-14 |
| **Matrix:** | Solid |
| **Percent Solid:** | 95 |
| **Dilution Factor:** | 1.0 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-222 (8-10') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | **237** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 100 | % |
| Decachlorobiphenyl | 83 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-14
Data File: M67734.D
Dilution Factor: 1.0

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 222 | 237 | 6.6 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

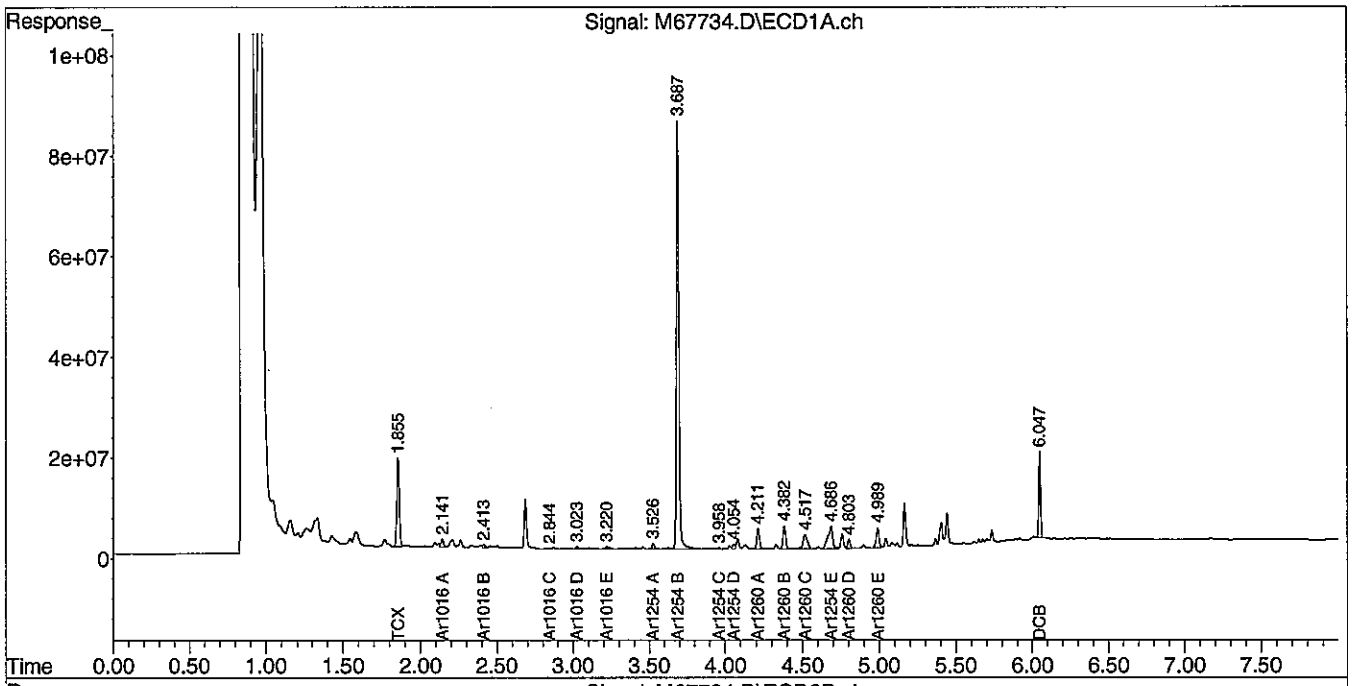
Comments: _____

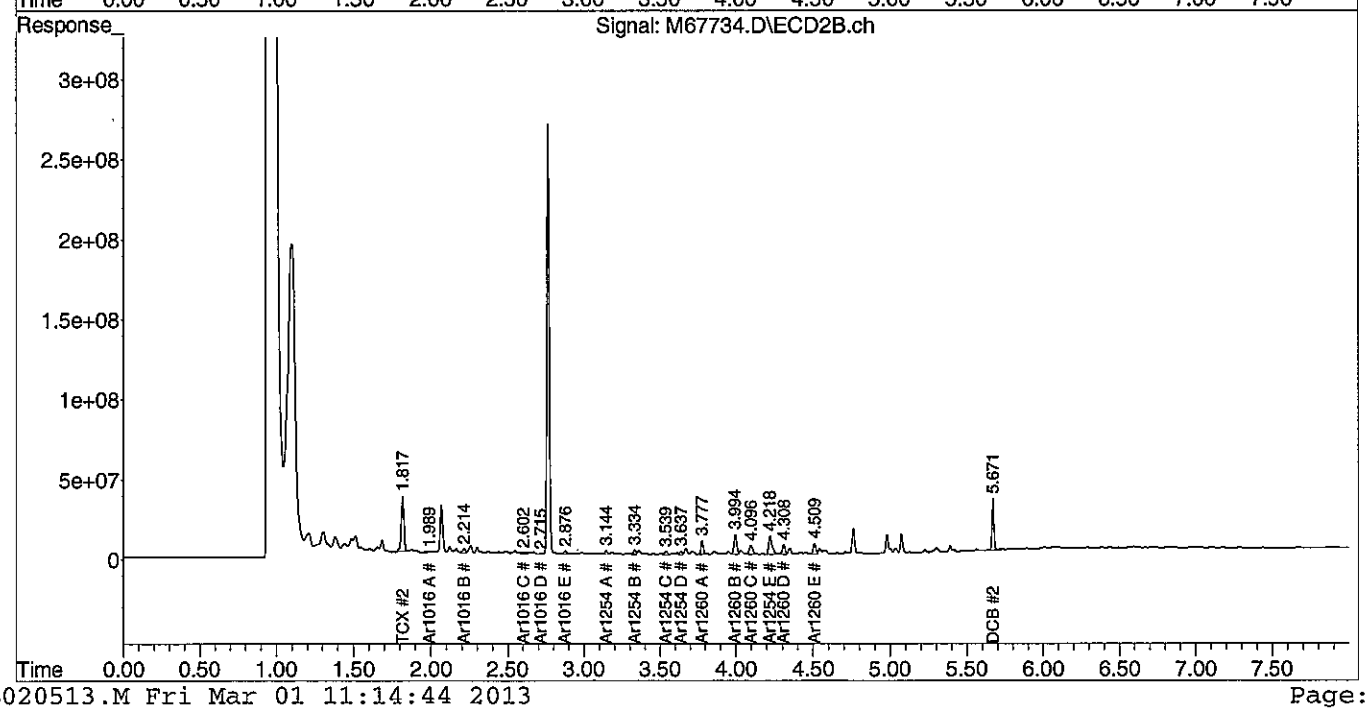
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67734.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 6:04 am
Operator : JK
Sample : 74887-14
Misc : SOIL
ALS Vial : 69 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 11:12:29 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Feb 28 11:22:13 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-15 |
| **Matrix:** | Solid |
| **Percent Solid:** | 95 |
| **Dilution Factor:** | 2.0 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-223 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 66 | U |
| PCB-1221 | 66 | U |
| PCB-1232 | 66 | U |
| PCB-1242 | 66 | U |
| PCB-1248 | 66 | U |
| PCB-1254 | 66 | U |
| PCB-1260 | 66 | **133** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 98 | % |
| Decachlorobiphenyl | 79 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-15,1:2
Data File: M67735.D
Dilution Factor: 2.0

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 133 | 116 | 13.8 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

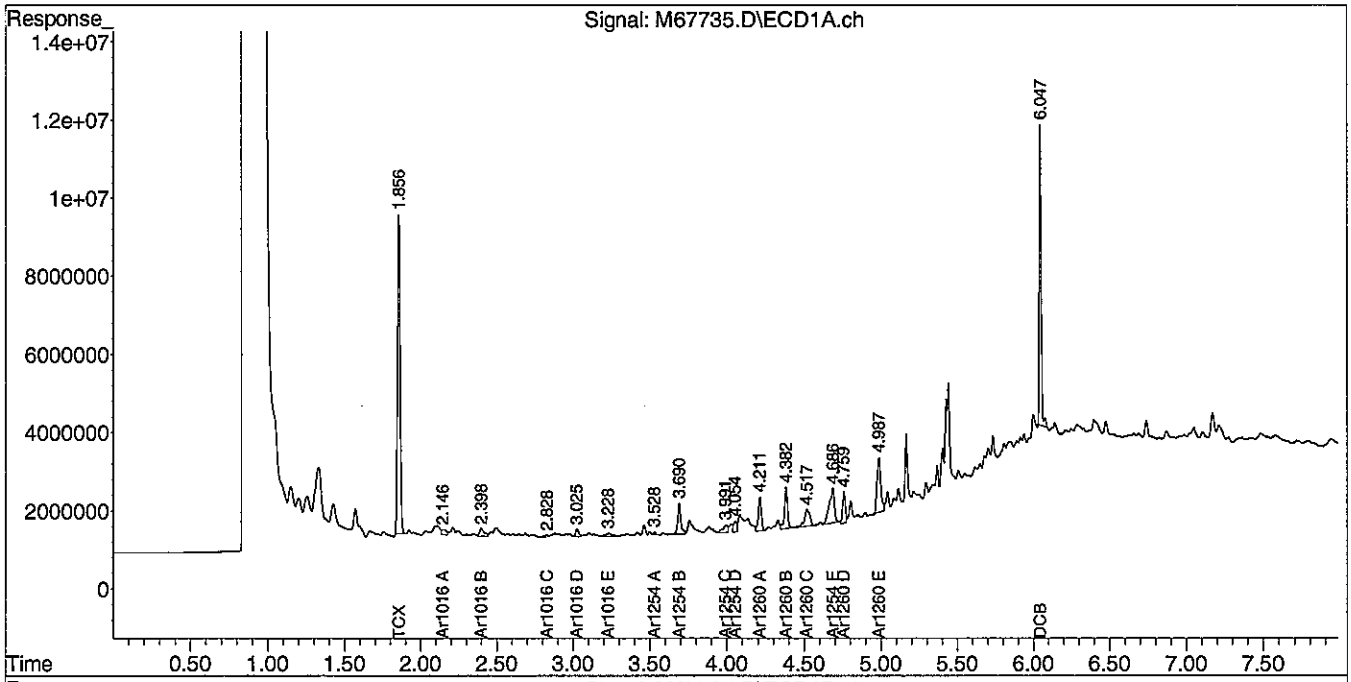
Comments: _____

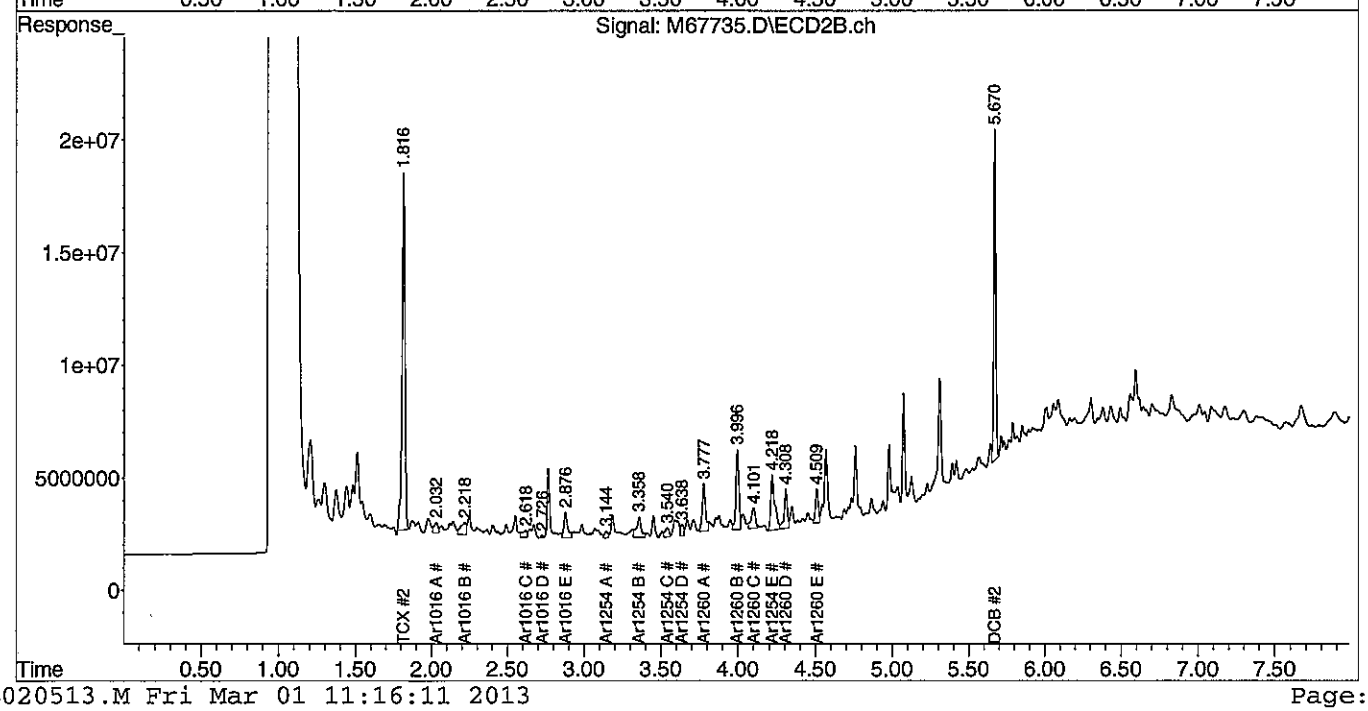
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67735.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 6:14 am
Operator : JK
Sample : 74887-15,1:2
Misc : SOIL
ALS Vial : 70 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 11:16:03 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Feb 28 11:22:13 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-16 |
| **Matrix:** | Solid |
| **Percent Solid:** | 95 |
| **Dilution Factor:** | 488 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-223 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 16100 | U |
| PCB-1221 | 16100 | U |
| PCB-1232 | 16100 | U |
| PCB-1242 | 16100 | U |
| PCB-1248 | 16100 | U |
| PCB-1254 | 16100 | U |
| PCB-1260 | 16100 | **179000** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-16,1:500
Data File: M67736.D
Dilution Factor: 487.9

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 178568 | 168546 | 5.8 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

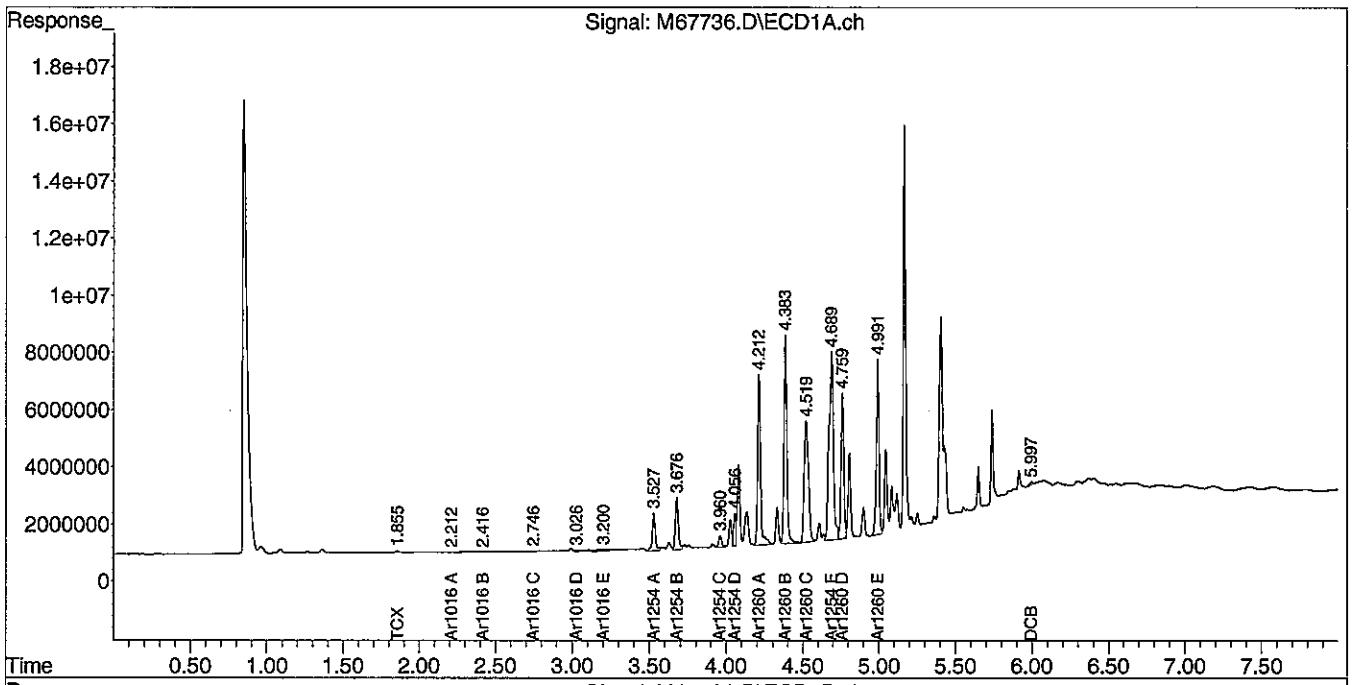
Comments: _____

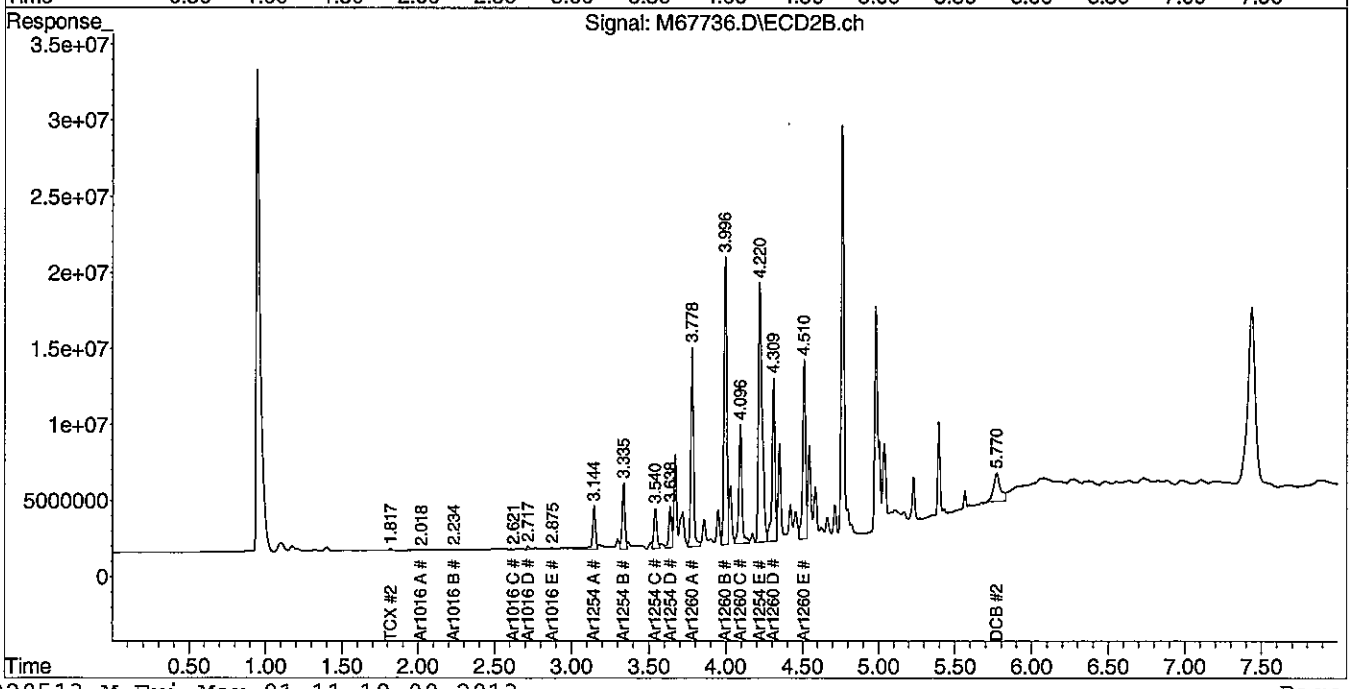
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67736.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 6:25 am
Operator : JK
Sample : 74887-16,1:500
Misc : SOIL
ALS Vial : 71 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 11:12:33 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Feb 28 11:22:13 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-17 |
| **Matrix:** | Solid |
| **Percent Solid:** | 91 |
| **Dilution Factor:** | 11 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-223 (4-6') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 363 | U |
| PCB-1221 | 363 | U |
| PCB-1232 | 363 | U |
| PCB-1242 | 363 | U |
| PCB-1248 | 363 | U |
| PCB-1254 | 363 | U |
| PCB-1260 | 363 | **3920** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 110 | % |
| Decachlorobiphenyl | 88 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-17,1:10
Data File: M67737.D
Dilution Factor: 10.5

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 3924 | 3624 | 8.0 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

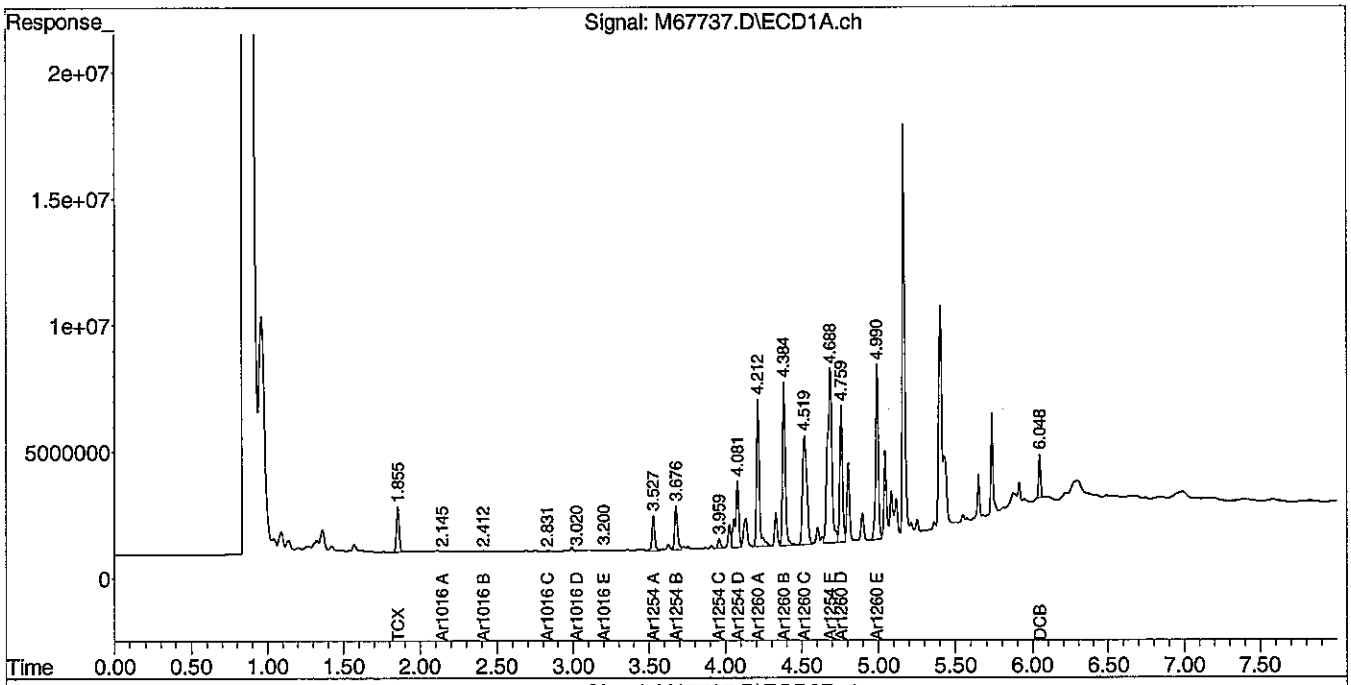
Comments: _____

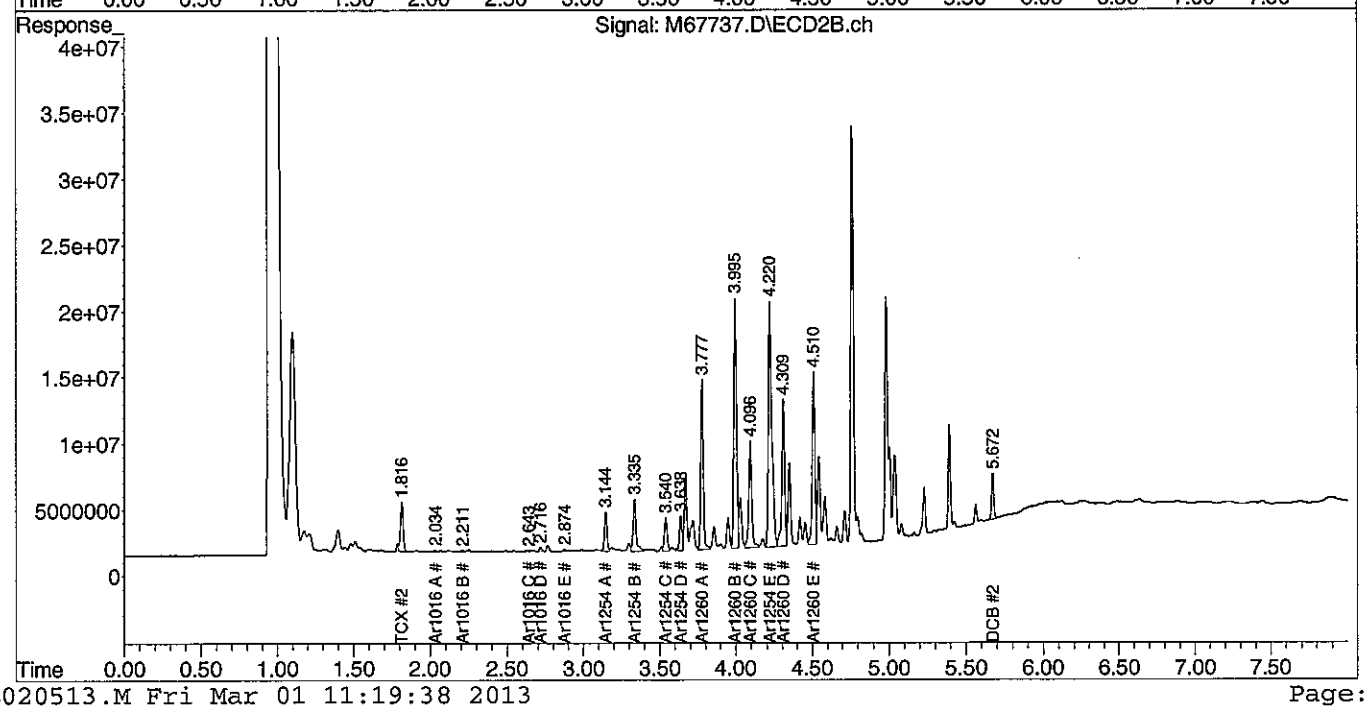
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67737.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 6:35 am
Operator : JK
Sample : 74887-17,1:10
Misc : SOIL
ALS Vial : 72 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 11:12:35 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Feb 28 11:22:13 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-18 |
| **Matrix:** | Solid |
| **Percent Solid:** | 93 |
| **Dilution Factor:** | 11 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-223 (6-8') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 363 | U |
| PCB-1221 | 363 | U |
| PCB-1232 | 363 | U |
| PCB-1242 | 363 | U |
| PCB-1248 | 363 | U |
| PCB-1254 | 363 | U |
| PCB-1260 | 363 | **3930** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 109 | % |
| Decachlorobiphenyl | 84 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-18,1:10
Data File: M67738.D
Dilution Factor: 10.6

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 3933 | 3450 | 13.1 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

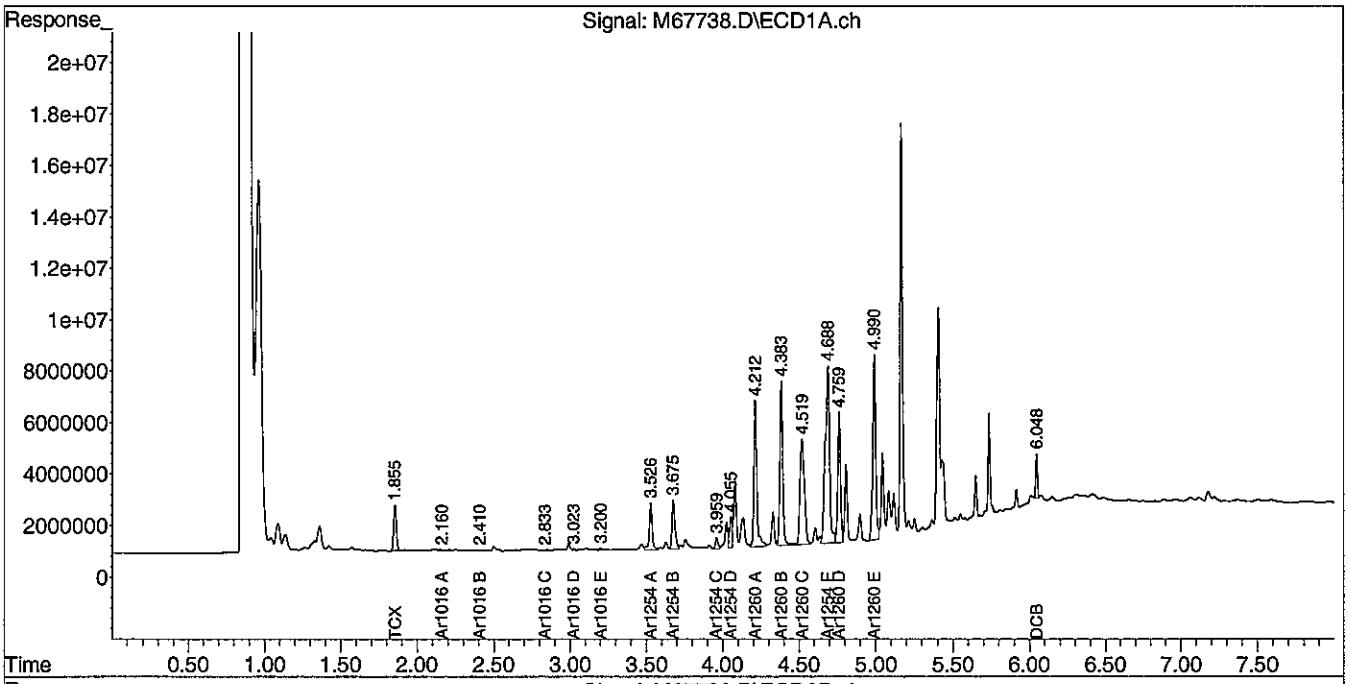
Comments: _____

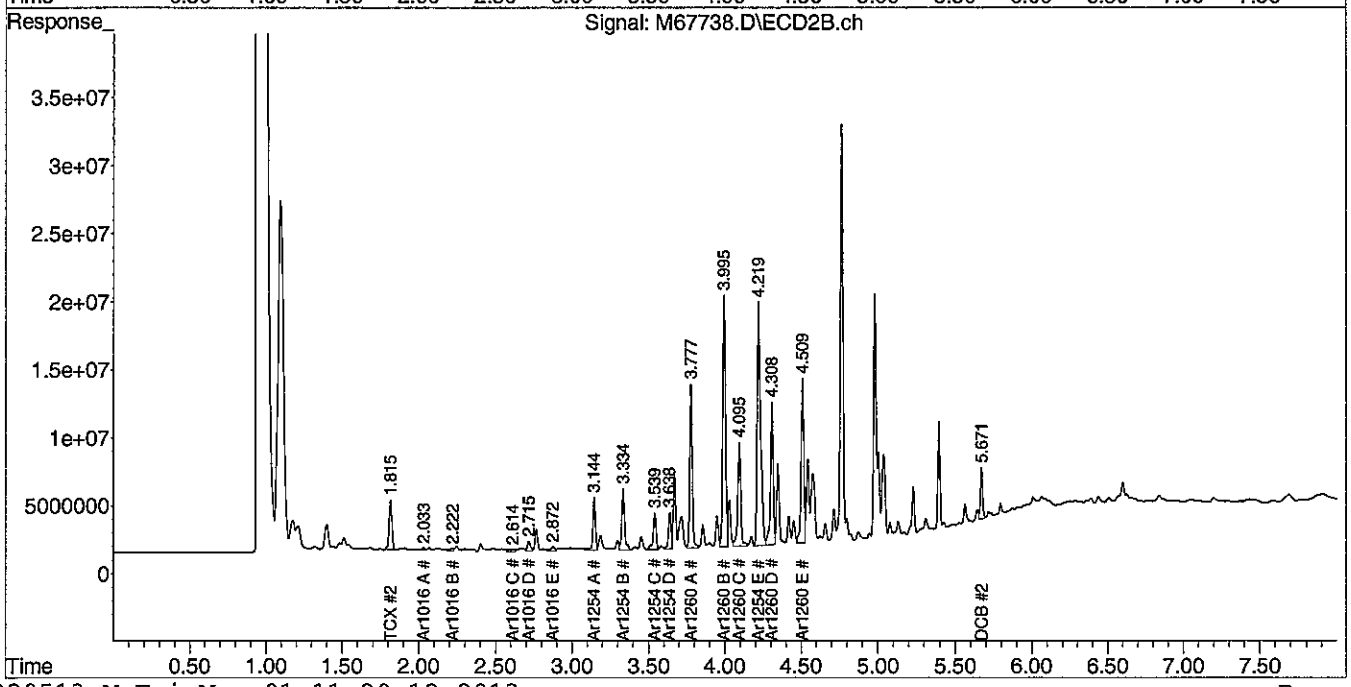
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67738.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 6:45 am
Operator : JK
Sample : 74887-18,1:10
Misc : SOIL
ALS Vial : 73 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 11:12:37 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Feb 28 11:22:13 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-19 |
| **Matrix:** | Solid |
| **Percent Solid:** | 88 |
| **Dilution Factor:** | 22 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-223 (8-10') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 726 | U |
| PCB-1221 | 726 | U |
| PCB-1232 | 726 | U |
| PCB-1242 | 726 | U |
| PCB-1248 | 726 | U |
| PCB-1254 | 726 | U |
| PCB-1260 | 726 | **8000** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-19,1:20
Data File: M67741.D
Dilution Factor: 22.3

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 7997 | 7183 | 10.7 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

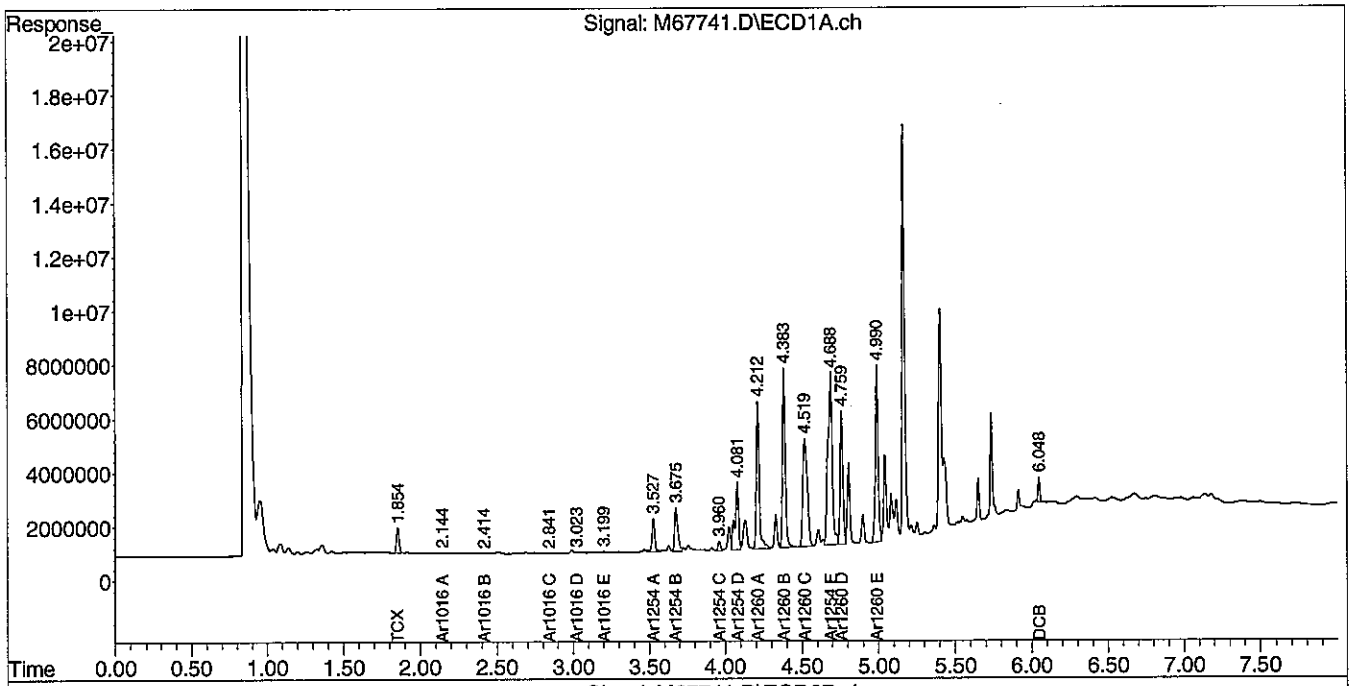
Comments: _____

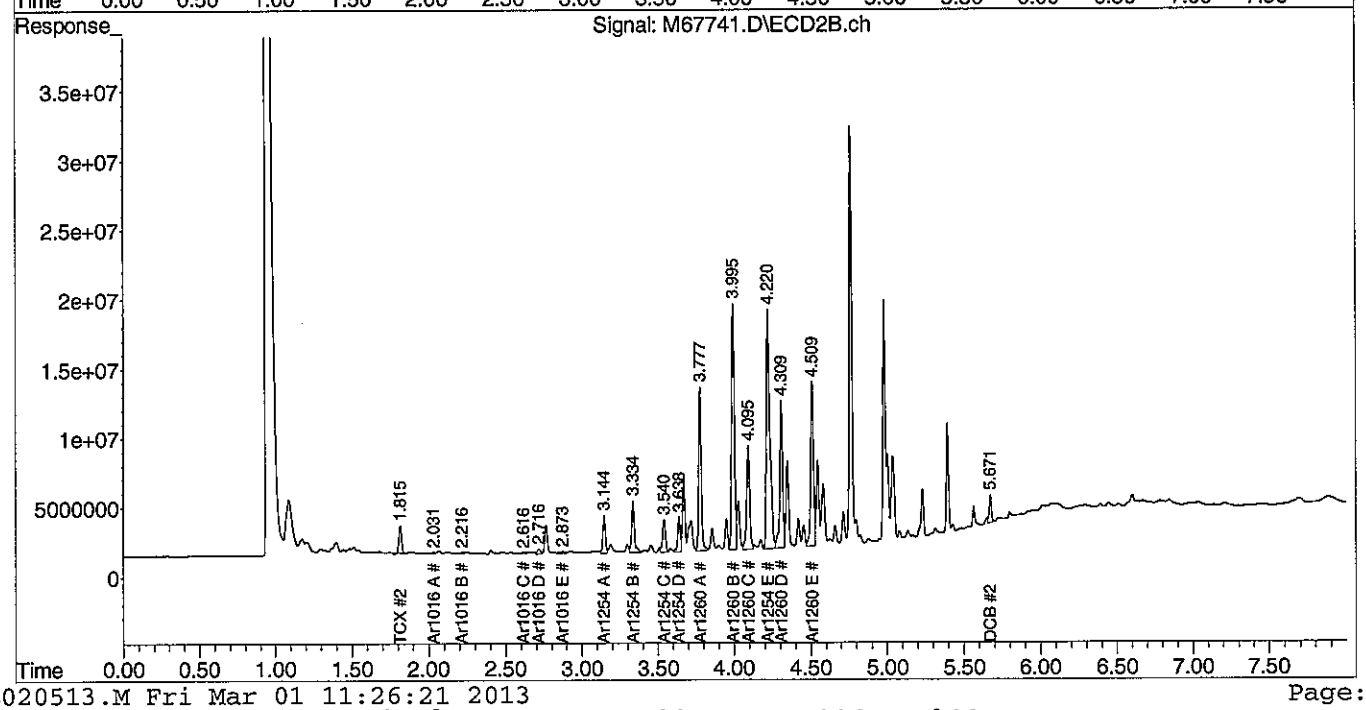
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67741.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 7:15 am
Operator : JK
Sample : 74887-19,1:20
Misc : SOIL
ALS Vial : 76 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 11:12:43 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Feb 28 11:22:13 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-20 |
| **Matrix:** | Solid |
| **Percent Solid:** | 79 |
| **Dilution Factor:** | 2.4 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-218 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 79 | U |
| PCB-1221 | 79 | U |
| PCB-1232 | 79 | U |
| PCB-1242 | 79 | U |
| PCB-1248 | 79 | U |
| PCB-1254 | 79 | U |
| PCB-1260 | 79 | **328** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 100 | % |
| Decachlorobiphenyl | 100 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-20,1:2
Data File: M67742.D
Dilution Factor: 2.4

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 289 | 328 | 12.7 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

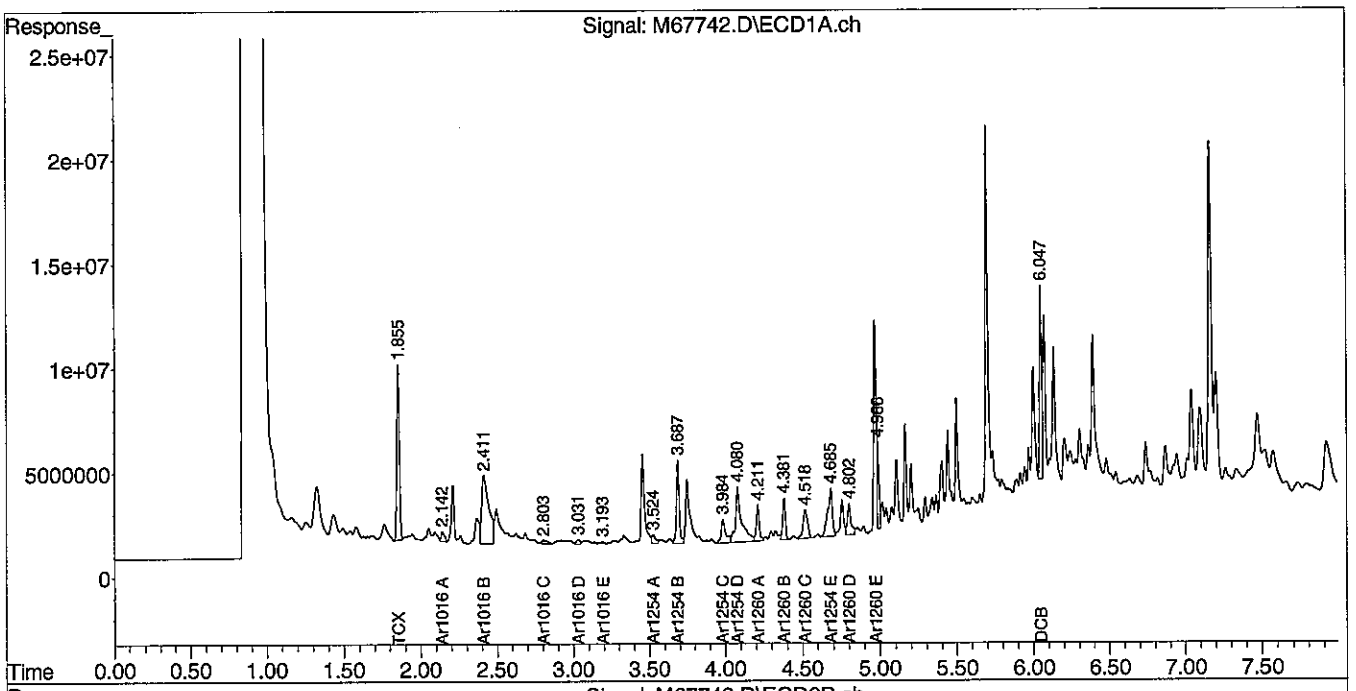
Comments: _____

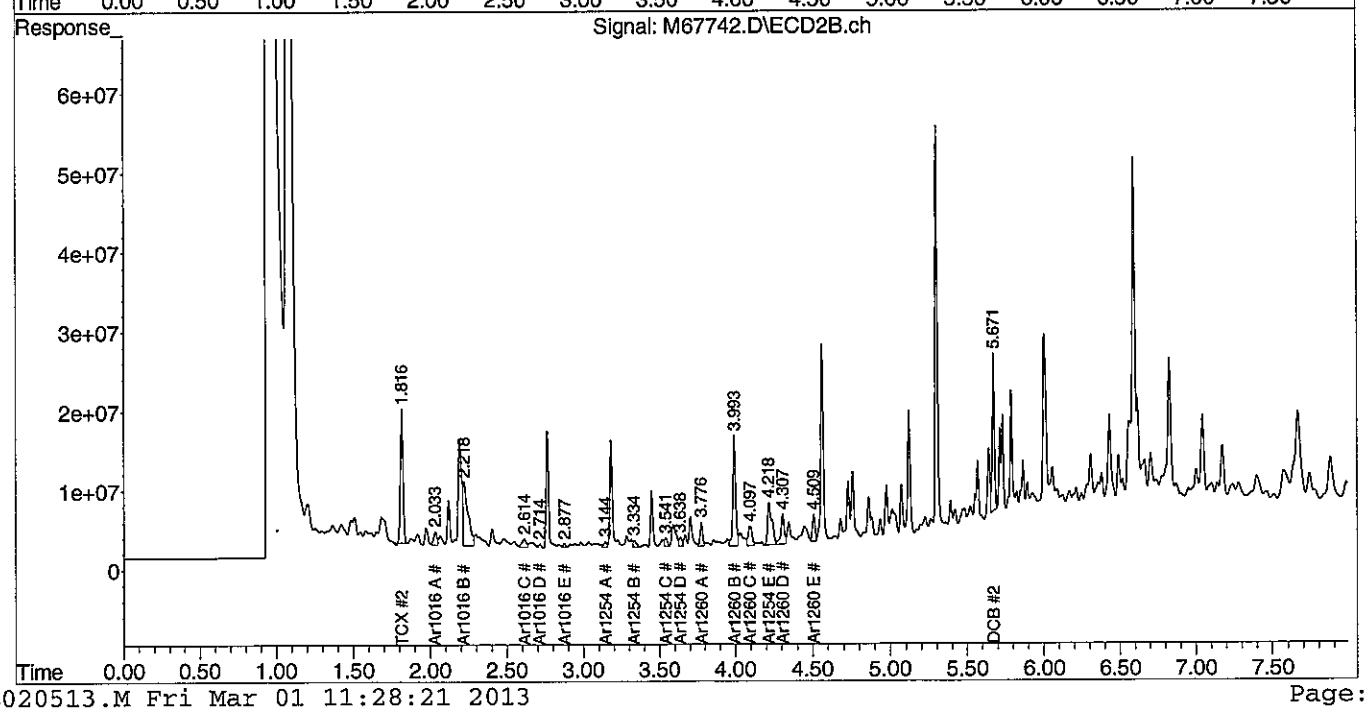
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67742.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 7:25 am
Operator : JK
Sample : 74887-20,1:2
Misc : SOIL
ALS Vial : 77 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 11:28:13 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Feb 28 11:22:13 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 28, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-21 |
| **Matrix:** | Solid |
| **Percent Solid:** | 80 |
| **Dilution Factor:** | 1.2 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/26/13 |
| **Analysis Date:** | 02/28/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-218 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 40 | U |
| PCB-1221 | 40 | U |
| PCB-1232 | 40 | U |
| PCB-1242 | 40 | U |
| PCB-1248 | 40 | U |
| PCB-1254 | 40 | U |
| PCB-1260 | 40 | **696** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 88 | % |
| Decachlorobiphenyl | 83 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-21
Data File: M67634.D
Dilution Factor: 1.2

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 696 | 546 | 24.1 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

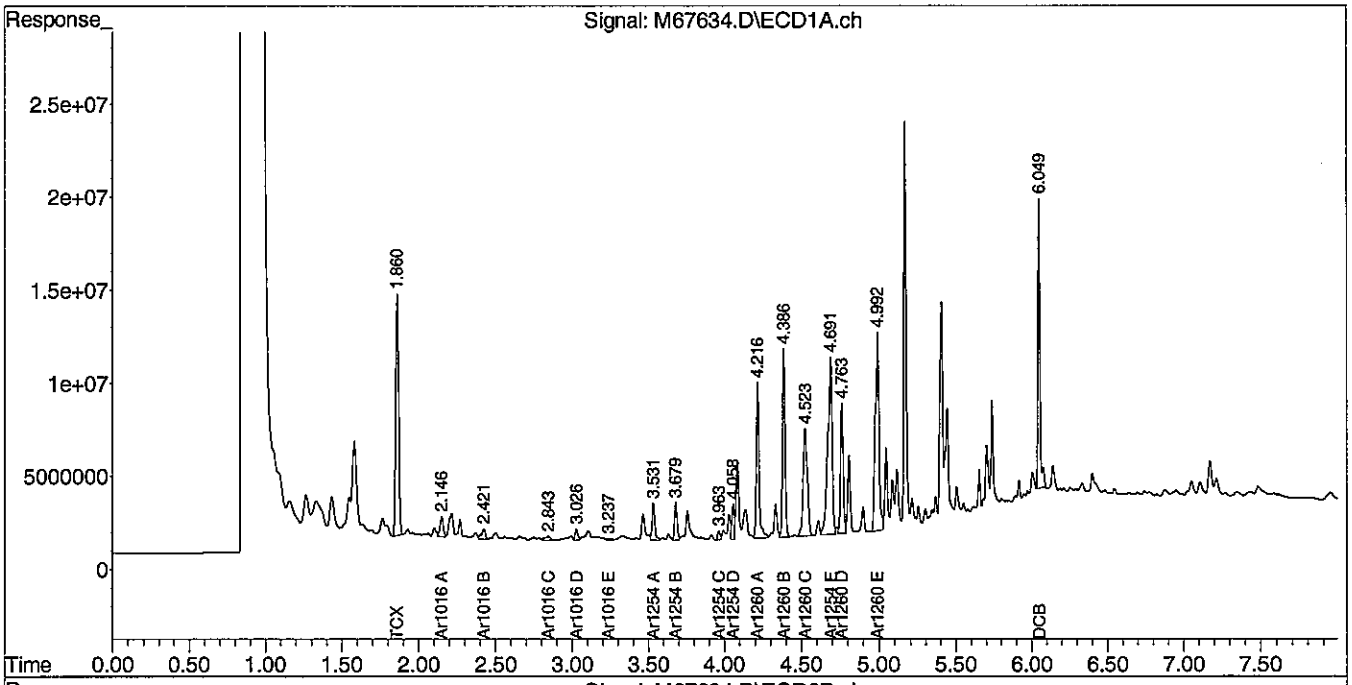
Comments: _____

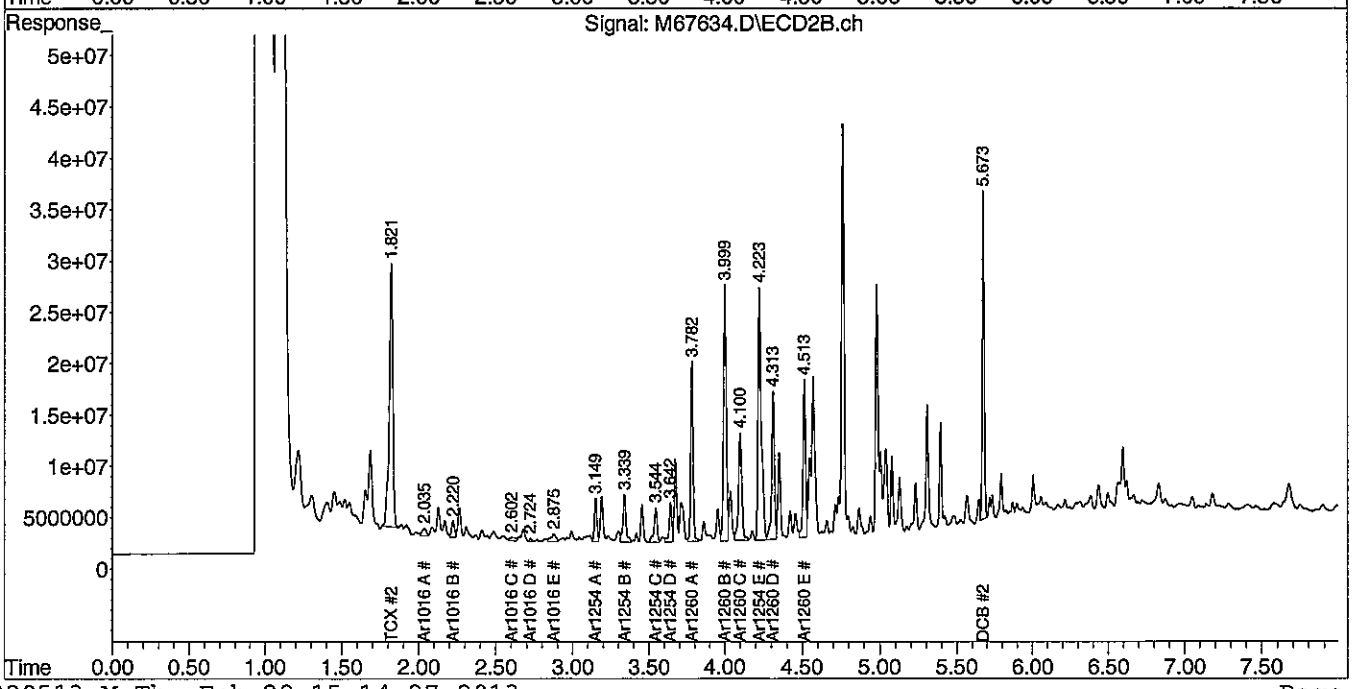
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67634.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2013 12:25 pm
Operator : JK
Sample : 74887-21
Misc : SOIL
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 28 13:52:05 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Feb 28 11:22:13 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 28, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74887-22 |
| **Matrix:** | Solid |
| **Percent Solid:** | 91 |
| **Dilution Factor:** | 5150 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 02/26/13 |
| **Analysis Date:** | 02/28/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-231 (8-10') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 170000 | U |
| PCB-1221 | 170000 | U |
| PCB-1232 | 170000 | U |
| PCB-1242 | 170000 | U |
| PCB-1248 | 170000 | U |
| PCB-1254 | 170000 | U |
| PCB-1260 | 170000 | **2330000** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | * | % |
| Decachlorobiphenyl | * | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887
Sample: 74887-22,1:5000
Data File: M67639.D
Dilution Factor: 5144.6

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 2332584 | 2204134 | 5.7 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

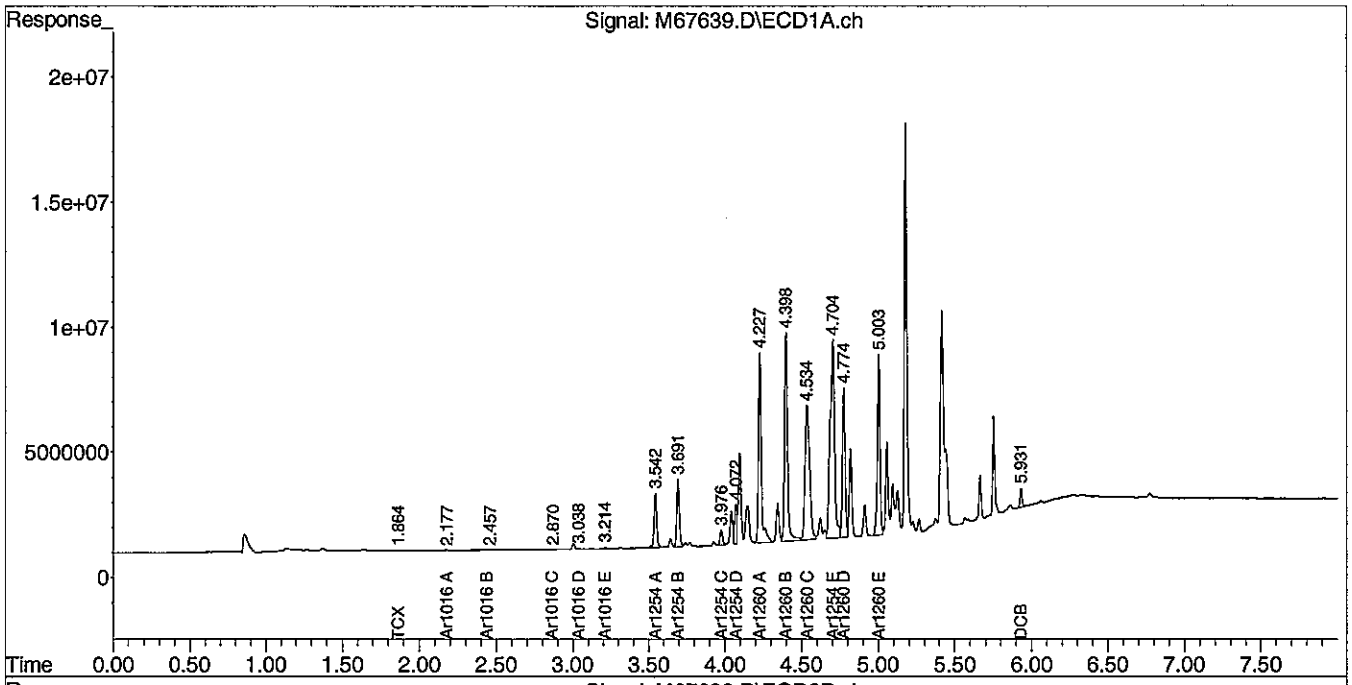
Comments: _____

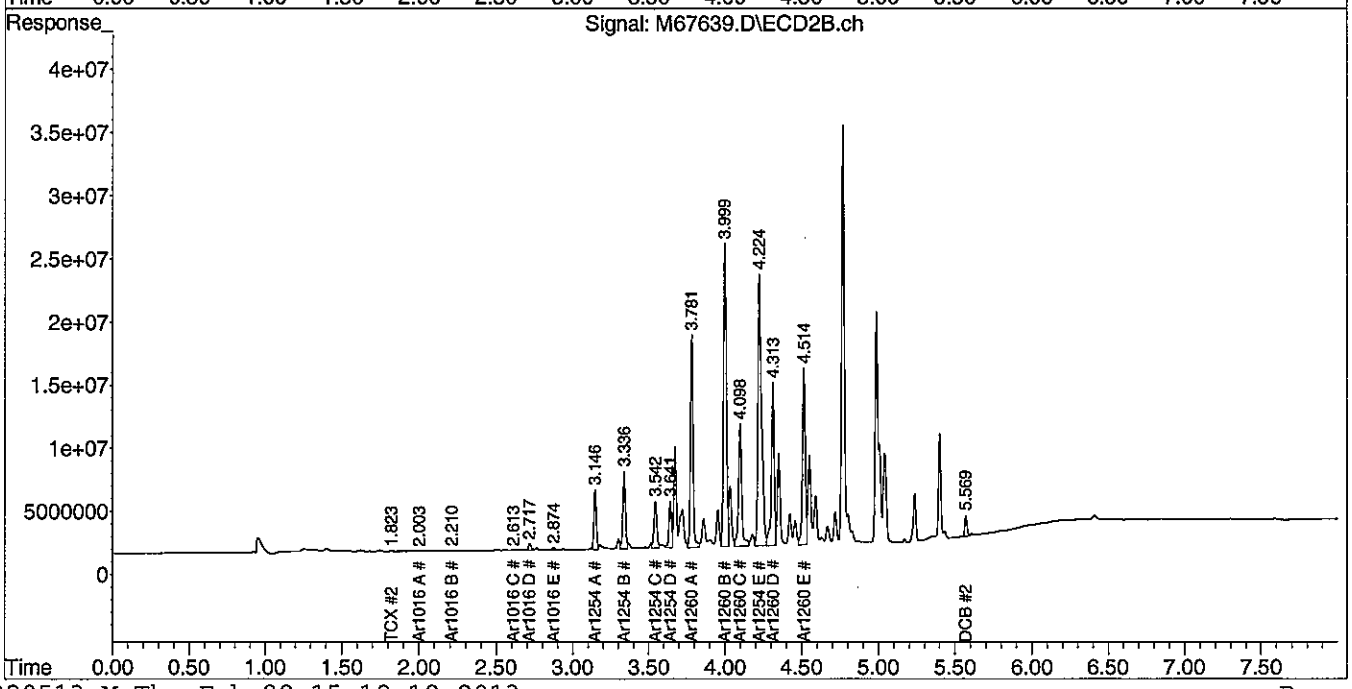
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67639.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2013 1:34 pm
Operator : JK
Sample : 74887-22,1:5000
Misc : SOIL
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 28 13:52:15 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Feb 28 11:22:13 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



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# PCB
# QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

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195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

February 28, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | B022613PSOX |
| **Matrix:** | Soil |
| **Percent Solid:** | 100 |
| **Dilution Factor:** | 1.0 |
| **Collection Date:** | |
| **Lab Receipt Date:** | |
| **Extraction Date:** | 02/26/13 |
| **Analysis Date:** | 02/28/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | Lab QC |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 77 | % |
| Decachlorobiphenyl | 79 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

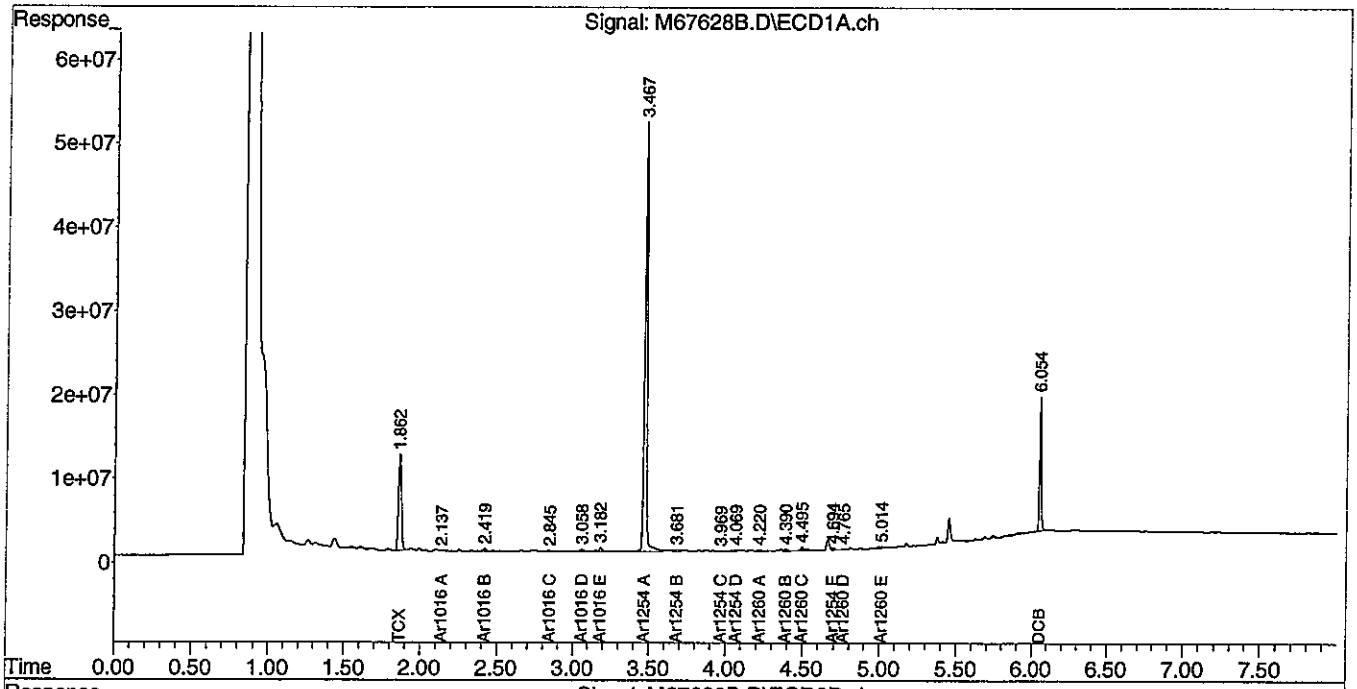
PCB Report

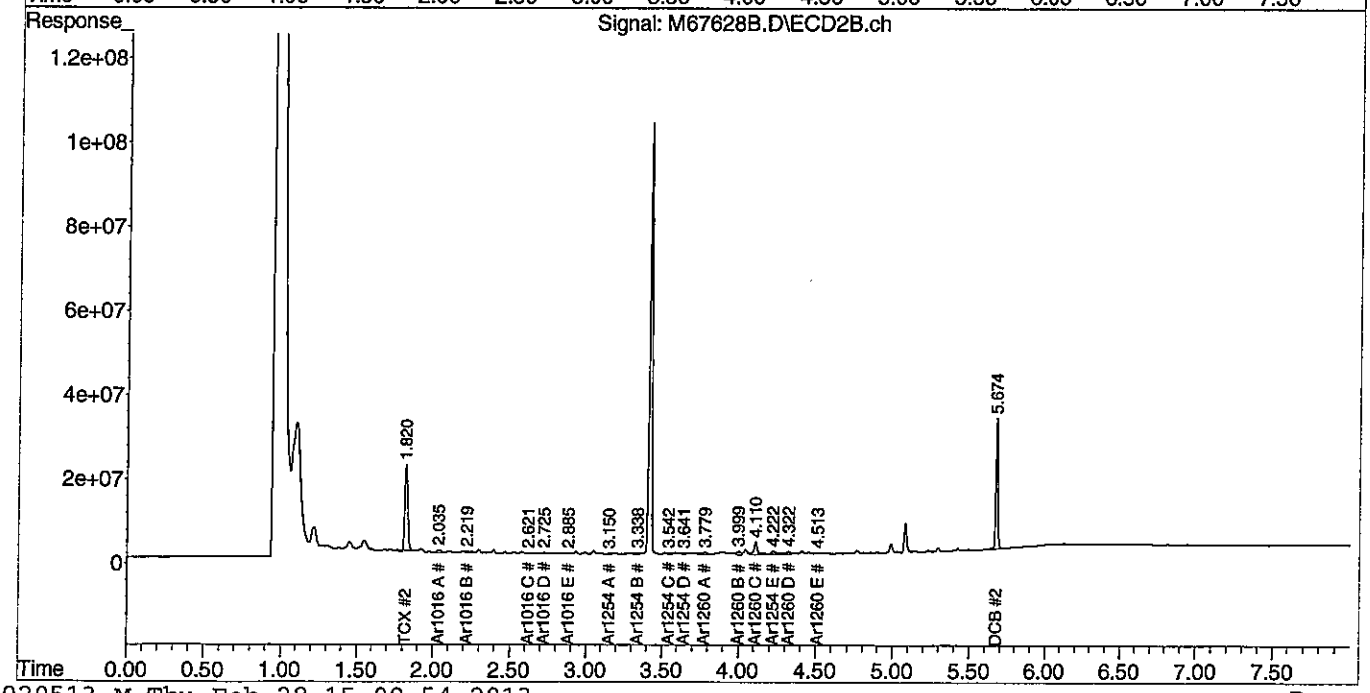
Authorized signature

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67628B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2013 11:24 am
Operator : JK
Sample : B022613PSOX
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 28 13:51:53 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Feb 28 11:22:11 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

**CLIENT SAMPLE ID**

**Project Name:** MAINE ENERGY

**Project Number:** 12-3259.1

**Field Sample ID:** Lab QC

**Lab Sample ID:** B022513PSOX2
**Matrix:** Soil
**Percent Solid:** 100
**Dilution Factor:** 1.0
**Collection Date:**
**Lab Receipt Date:**
**Extraction Date:** 02/25/13
**Analysis Date:** 03/01/13

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 65 | % |
| Decachlorobiphenyl | 81 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

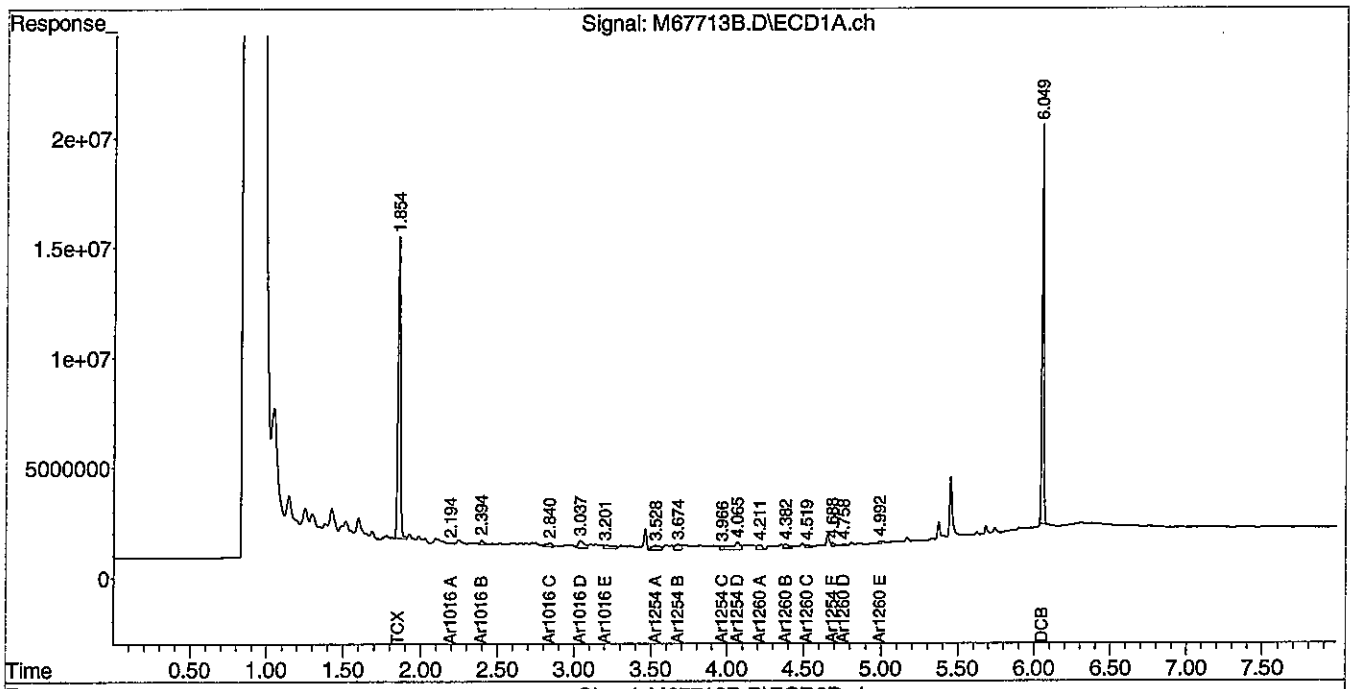
PCB Report

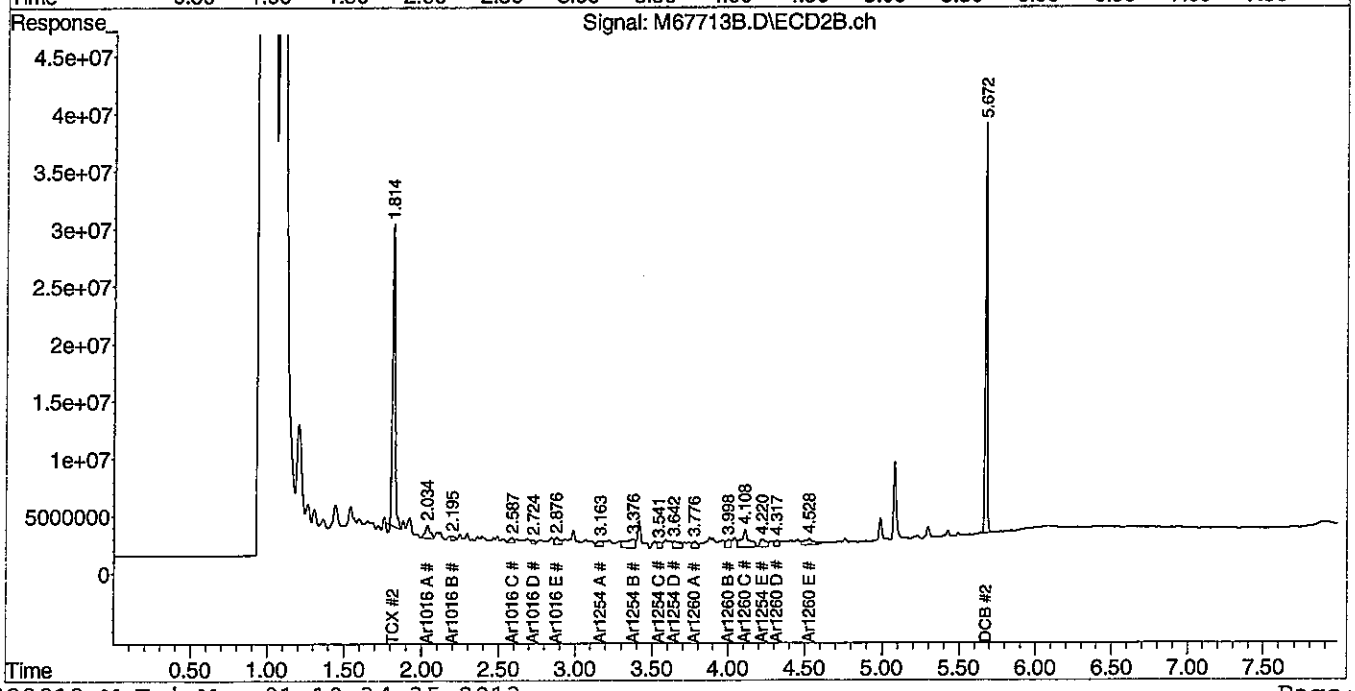
Authorized signature

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67713B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 2:33 am
Operator : JK
Sample : B022513PSOX2
Misc : SOIL
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 10:33:00 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Mar 01 08:56:39 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 1, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | B022513PSOX2 RR |
| **Matrix:** | Soil |
| **Percent Solid:** | 100 |
| **Dilution Factor:** | 1.0 |
| **Collection Date:** | |
| **Lab Receipt Date:** | |
| **Extraction Date:** | 02/25/13 |
| **Analysis Date:** | 03/01/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | MAINE ENERGY |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | Lab QC |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 81 | % |
| Decachlorobiphenyl | 84 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

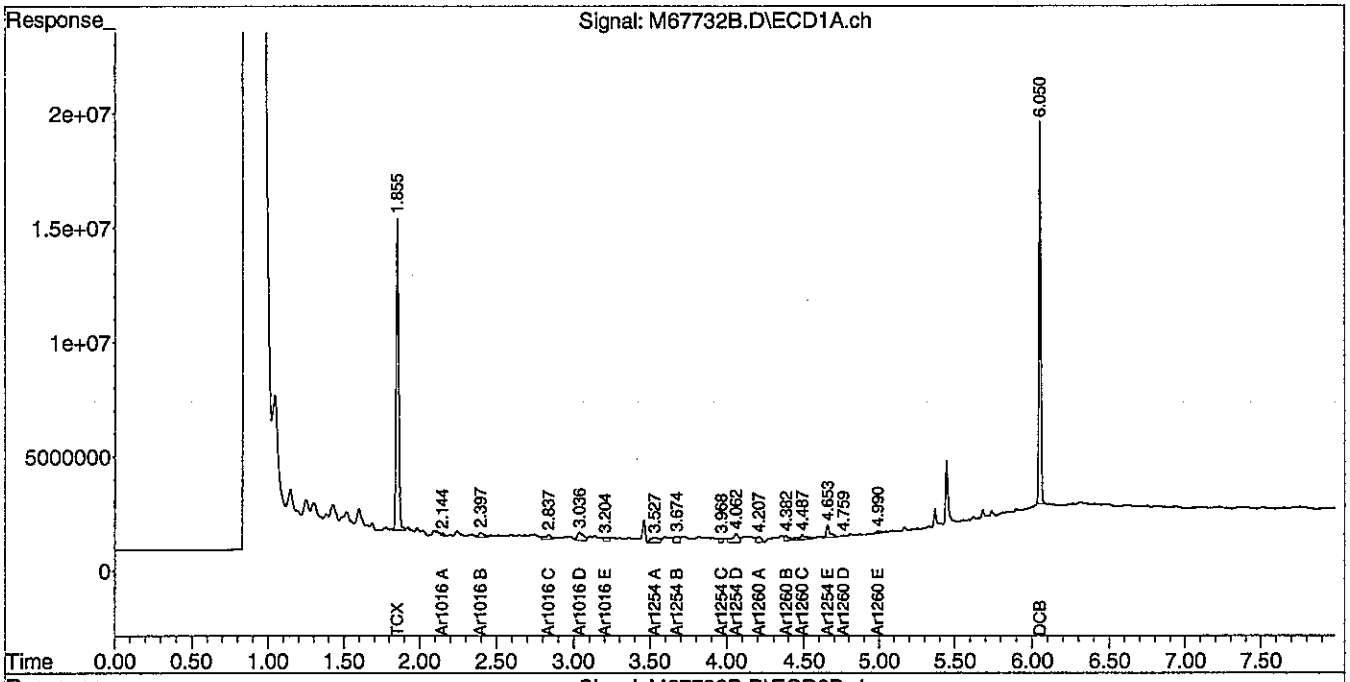
PCB Report

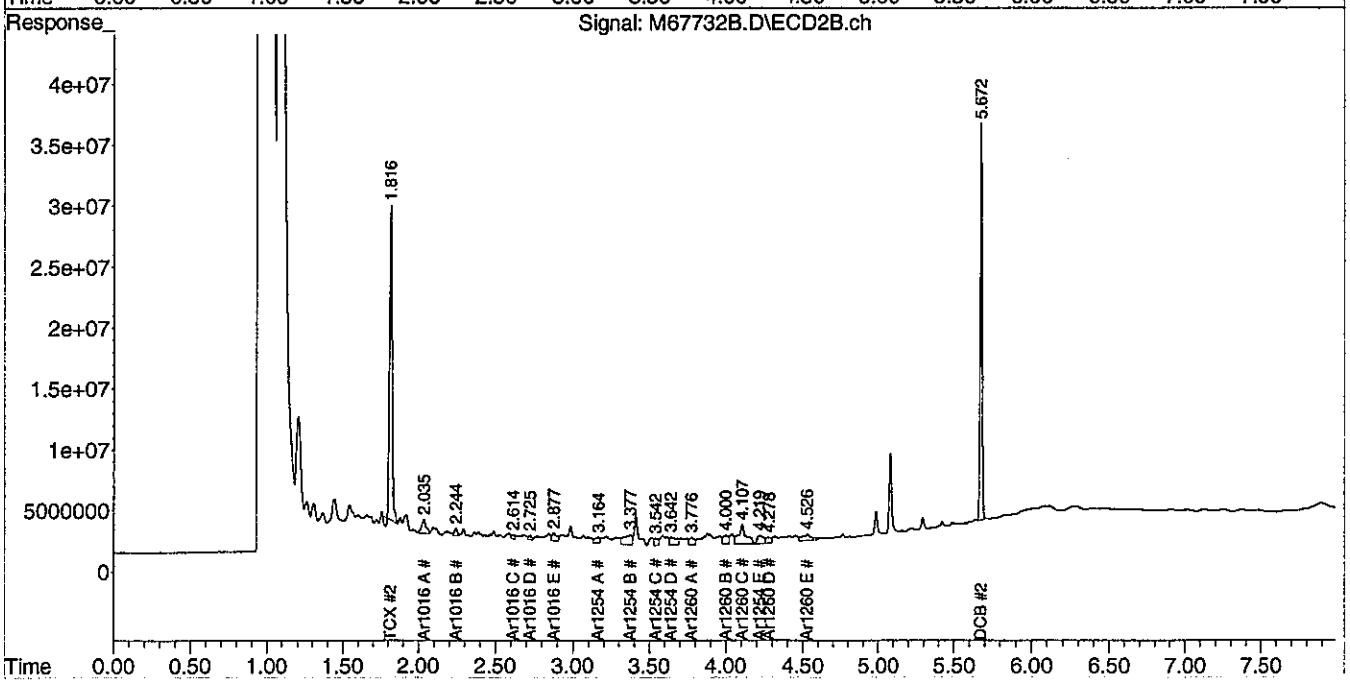
Authorized signature

Data Path : C:\msdchem\1\DATA\022813-M\
Data File : M67732B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2013 5:44 am
Operator : JK
Sample : B022513PSOX2,RR
Misc : SOIL
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 11:12:25 2013
Quant Method : C:\msdchem\1\METHODS\PCB020513.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Feb 28 11:22:11 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887

| | Column #1 | | | | Column #2 | | | |
|---|---|---|---|---|---|---|---|---|
| SAMPLE ID | SMC 1 (%) | # | SMC 2 (%) | # | SMC 1 (%) | # | SMC 2 (%) | # |
| B022613PSOX | 77 | | 79 | | 66 | | 76 | |
| L022613PSOX | 80 | | 79 | | 71 | | 77 | |
| LD022613PSOX | 89 | | 81 | | 76 | | 78 | |
| 74887-21 | 88 | | 83 | | 96 | | 77 | |
| 74887-22,1:5000 | D | | D | | D | | D | |

| | | Lower Limit | Upper Limit |
|---|---|---|---|
| SMC #1 = | TCX | 40 | 130 |
| SMC #2 = | DCB | 40 | 130 |

# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887

| | Column #1 | | | | Column #2 | | | |
|---|---|---|---|---|---|---|---|---|
| SAMPLE ID | SMC 1 (%) | # | SMC 2 (%) | # | SMC 1 (%) | # | SMC 2 (%) | # |
| B022513PSOX2 | 65 | | 81 | | 62 | | 78 | |
| L022513PSOX2 | 80 | | 87 | | 76 | | 84 | |
| LD022513PSOX2 | 85 | | 91 | | 75 | | 82 | |
| 74887-1,1:10 | 86 | | 100 | | 88 | | 93 | |
| 74887-2,1:10 | 90 | | 97 | | 105 | | 97 | |
| 74887-3,1:5 | 89 | | 89 | | 89 | | 90 | |
| 74887-4,1:10 | 86 | | 83 | | 89 | | 90 | |
| 74887-5,1:200 | D | | D | | D | | D | |
| 74887-6,1:5 | 85 | | 89 | | 89 | | 88 | |
| 74887-7,1:50 | D | | D | | D | | D | |
| 74887-8,1:10 | 87 | | 80 | | 94 | | 83 | |
| 74887-9,1:50 | D | | D | | D | | D | |
| 74887-10,1:10 | 73 | | 80 | | 70 | | 86 | |
| 74887-11,1:2 | 49 | | 33 | * | 50 | | 35 | * |
| 74887-12,1:2 | 86 | | 77 | | 85 | | 68 | |

| | | Lower Limit | Upper Limit |
|---|---|---|---|
| SMC #1 = | TCX | 40 | 130 |
| SMC #2 = | DCB | 40 | 130 |

# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74887

| | Column #1 | | | | Column #2 | | | |
|---|---|---|---|---|---|---|---|---|
| SAMPLE ID | SMC 1 (%) | # | SMC 2 (%) | # | SMC 1 (%) | # | SMC 2 (%) | # |
| B022513PSOX2,RR | 81 | | 84 | | 71 | | 79 | |
| 74887-13 | 111 | | 88 | | 99 | | 83 | |
| 74887-14 | 100 | | 83 | | 94 | | 78 | |
| 74887-15,1:2 | 98 | | 79 | | 94 | | 73 | |
| 74887-16,1:500 | D | | D | | D | | D | |
| 74887-17,1:10 | 110 | | 88 | | 109 | | 87 | |
| 74887-18,1:10 | 109 | | 84 | | 107 | | 99 | |
| 74887-18,MS,1:10 | 86 | | 77 | | 80 | | 98 | |
| 74887-18,MSD,1:11 | 107 | | 76 | | 102 | | 110 | |
| 74887-19,1:20 | D | | D | | D | | D | |
| 74887-20,1:2 | 100 | | 100 | | 94 | | 100 | |

| | Lower Limit | Upper Limit |
|---|---|---|
| SMC #1 = TCX | 40 | 130 |
| SMC #2 = DCB | 40 | 130 |

# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG:

Non-spiked sample: B022613PSOX

Spike: L022613PSOX

Spike duplicate: LD022613PSOX

| COMPOUND | LCS SPIKE ADDED (ug/kg) | LCSD SPIKE ADDED (ug/kg) | LOWER LIMIT | UPPER LIMIT | RPD LIMIT | NON-SPIKE RESULT (ug/kg) | SPIKE RESULT (ug/kg) | SPIKE % REC | # | SPIKE DUP RESULT (ug/kg) | SPIKE DUP % REC | # | RPD | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 200 | 200 | 65 | 140 | 30 | 0 | 181 | 90 | | 195 | 97 | | 7.5 | |
| PCB 1260 | 200 | 200 | 60 | 130 | 30 | 0 | 182 | 91 | | 187 | 94 | | 2.9 | |
| PCB 1016 #2 | 200 | 200 | 65 | 140 | 30 | 0 | 167 | 83 | | 179 | 90 | | 7.3 | |
| PCB 1260 #2 | 200 | 200 | 60 | 130 | 30 | 0 | 192 | 96 | | 189 | 94 | | 1.7 | |

# Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG:

Non-spiked sample: B022513PSOX2

Spike: L022513PSOX2

Spike duplicate: LD022513PSOX2

| COMPOUND | LCS SPIKE ADDED (ug/kg) | LCSD SPIKE ADDED (ug/kg) | LOWER LIMIT | UPPER LIMIT | RPD LIMIT | NON-SPIKE RESULT (ug/kg) | SPIKE RESULT (ug/kg) | SPIKE % REC | # | SPIKE DUP RESULT (ug/kg) | SPIKE DUP % REC | # | RPD | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 200 | 200 | 65 | 140 | 30 | 0 | 186 | 93 | | 172 | 86 | | 7.9 | |
| PCB 1260 | 200 | 200 | 60 | 130 | 30 | 0 | 173 | 87 | | 178 | 89 | | 2.6 | |
| PCB 1016 #2 | 200 | 200 | 65 | 140 | 30 | 0 | 183 | 91 | | 176 | 88 | | 3.8 | |
| PCB 1260 #2 | 200 | 200 | 60 | 130 | 30 | 0 | 208 | 104 | | 190 | 95 | | 9.0 | |

# Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

PCB SOIL
MATRIX SPIKE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 74887

Non-spiked sample: 74887-18,1:10

Spike: 74887-18,MS,1:10

Spike duplicate: 74887-18,MSD,1:11

| COMPOUND | MS SPIKE ADDED (ug/kg) | MSD SPIKE ADDED (ug/kg) | LOWER LIMIT | UPPER LIMIT | RPD LIMIT | NON-SPIKE RESULT (ug/kg) | SPIKE RESULT (ug/kg) | SPIKE % REC | # | SPIKE DUP RESULT (ug/kg) | SPIKE DUP % REC | # | RPD | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 204 | 213 | 65 | 140 | 30 | 0 | 276 | 135 | | 274 | 129 | | 1.0 | |
| PCB 1260 | 204 | 213 | 60 | 130 | 30 | 3933 | 4767 | 408 | * | 3731 | -95 | * | 24.4 | |
| PCB 1016 #2 | 204 | 213 | 65 | 140 | 30 | 0 | 221 | 108 | | 232 | 109 | | 5.2 | |
| PCB 1260 #2 | 204 | 213 | 60 | 130 | 30 | 3450 | 3013 | -214 | * | 3389 | -29 | * | 11.7 | |

# Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

MS/MSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

analytics environmental laboratory LLC

# CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

# Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 4.0
3) Received in good condition: Y or N
4) pH checked by:
5) Labels checked by: KEJ 02/22/13

Project Name: MAINE ENERGY
Project#: 12-3259.1
Company: SUMMIT
Report to: JOHN CRESSEY
Address: 646 MAIN ST. LEWISTON, ME 04240
Phone: (207) 795-6009
Quote #:
PO# (if required): 12-3259.1

Preservation Code:
Preseravtion Key: A= HCL, B= 4°C, C= Unpres, D = MeOH, E = HNO3, F = H2SO4, G = Hexane, H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please fill in preservation code here

Matrix Key: C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

| Sample Identification | Sample Date | Sample Time | Field Filtered? Y or N | VOC: 8260 524.2 624 | SVOC: 8270 625 PAH only SIM | Pesticides: 8081 608 | PCB: 8082 608 Soxhlet? Y or N | TPH: 8015 (Gas Range) ME4217 | TPH: 8015 (Diesel Range) 8100M ME4125 | EPH: Full or Ranges only TETPH | VPH: Full or Ranges only | Metals: RCRA8 PP13 TAL23 Other** | Matrix | No. of Containers | pH checked | Analytics Sample # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SE-SB-227 (0-2') | 2-20 | 1346 | N | | | | X | | | | | | S | 1 | | 74887-1 |
| SE-SB-227 (2-4') | 2-20 | 1350 | N | | | | X | | | | | | S | 1 | | -2 |
| SE-SB-227 (4-6') | 2-20 | 1351 | N | | | | X | | | | | | S | 1 | | -3 |
| SE-SB-227 (6-8') | 2-20 | 1354 | N | | | | X | | | | | | S | 1 | | -4 |
| SE-SB-228 (0-2') | 2-20 | 1400 | N | | | | X | | | | | | S | 1 | | -5 |
| SE-SB-228 (2-4') | 2-20 | 1404 | N | | | | X | | | | | | S | 1 | | -6 |
| SE-SB-228 (4-6') | 2-20 | 1408 | N | | | | X | | | | | | S | 1 | | -7 |
| SE-SB-228 (6-8') | 2-20 | 1414 | N | | | | X | | | | | | S | 1 | | -8 |
| SE-SB-228 (8-10') | 2-20 | 1416 | N | | | | X | | | | | | S | 1 | | -9 |
| SE-SB-222 (0-2') | 2-20 | 1440 | N | | | | X | | | | | | S | 1 | | -10 |

Email Results to: JCRESSEY@SUMMITENV.COM

Comments, Additional Analyses, or Special Instructions:
** List requested metals here

Turnaround Time (TAT)
- 1 Day*
- 2 Days*
- 3 Days*
- 4 Days*
- 5 Days
- [X] Standard (8-10 business days)

*Fee may apply; lab approval required

*Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.*

Project Requirements: *Fee may apply

Report Type:
- MCP*
- Level II*
- CTRCP*
- Level III*
- DOD*
- Level IV*
- [X] Standard

State:
- NH
- MA
- [X] ME
- CT
- RI
- Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y* N
Type:

Sampler Name (Print): JOHN CRESSEY

| | | | | |
|---|---|---|---|---|
| Relinquished By Sampler: | Date: 2-21 | Time: 9:00 | Received By: GENERAL COURIER | |
| Relinquished By: General Courier | Date: 2/22/13 | Time: 856 | Received By: | |
| Relinquished By: | Date: | Time: | Received By: | |

# Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only:
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 4°
3) Received in good condition: Y or N
4) pH checked by:
5) Labels checked by: KCB 07/22/13

Project Name: MAINE ENERGY
Project#: 12-3259.1
Company: SUMMIT
Report to: JOHN CRESSEY
Address: 640 MAIN ST. LEWISTON, ME 04240
Phone: (207) 795-6009
Quote #:
PO# (if required): 12-3259.1

Preservation Code:
Preservation Key: A= HCL, B= 4°C, C= Unpres, D = MeOH, E = HNO3, F = H2SO4, G = Hexane, H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please fill in preservation code here

Matrix Key: C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

| Sample Identification | Sample Date | Sample Time | Field Filtered? Y or N | VOC: 8260 524.2 624 | SVOC: 8270 625 PAH only SIM | Pesticides: 8081 608 | PCB: 8082 508 Soxhlet Y or N | TPH: 8015 (Gas Range) ME4217 | TPH: 8015 (Diesel Range) 8100M ME4125 | EPH: Full or Ranges only TETPH | VPH: Full or Ranges only | Metals: RCRA8 PP13 TAL23 Other** | Matrix | No. of Containers | pH checked | Analytics Sample # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SE-SB-222 (2-4') | 2-20 | 1443 | N | | | | X | | | | | | S | 1 | | 74887-11 |
| SE-SB-222 (4-6') | 2-20 | 1445 | N | | | | X | | | | | | S | 1 | | -12 |
| SE-SB-222 (6-8') | 2-20 | 1448 | N | | | | X | | | | | | S | 1 | | -13 |
| SE-SB-222 (8-10') | 2-20 | 1453 | N | | | | X | | | | | | S | 1 | | -14 |
| SE-SB-223 (0-2') | 2-20 | 1500 | N | | | | X | | | | | | S | 1 | | -15 |
| SE-SB-223 (2-4') | 2-20 | 1502 | N | | | | X | | | | | | S | 1 | | -16 |
| SE-SB-223 (4-6') | 2-20 | 1505 | N | | | | X | | | | | | S | 1 | | -17 |
| SE-SB-223 (6-8') | 2-20 | 1509 | N | | | | X | | | | | | S | 1 | | -18 |
| SE-SB-223 (8-10') | 2-20 | 1515 | N | | | | X | | | | | | S | 1 | | -19 |
| SE-SB-218 (0-2') | 2-20 | 1524 | N | | | | X | | | | | | S | 1 | | -20 |

Email Results to: JCRESSEY@SUMMITENV.COM

Turnaround Time (TAT): 1 Day*, 2 Days*, 3 Days*, 4 Days*, 5 Days, Standard (8-10 business days)
*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: ** List requested metals here

*Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.*

Project Requirements: *Fee may apply
Report Type: MCP*, Level II*, CTRCP*, Level III*, DOD*, Level IV*, Standard
State: NH, MA, ME, CT, RI, Other:
State Standard: (eg. S-1 or GW-1)
EDD Required: Y N
Type:

Sampler Name (Print): JOHN CRESSEY
Relinquished By Sampler: Date: 2-21 Time: 9:00 Received By: GENERAL COURIER
Relinquished By: General Courier Date: 2/22/13 Time: 856 Received By:
Relinquished By: Date: Time: Received By:

# Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 4°
3) Received in good condition: Y or N
4) pH checked by:
5) Labels checked by: 02/22/13

Project Name: MAINE ENERGY
Project#: 12-3259.1
Company: SUMMIT
Report to: JOHN CRESKY
Address: 640 MAIN ST. LEWISTON, ME 04240
Phone: (207) 795-6009
Quote #:
PO# (if required): 12-3259.1

Preservation Code: B
Preservation Key: A= HCL, B= 4°C, C= Unpres, D = MeOH, E = HNO3, F = H2SO4, G = Hexane, H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please fill in preservation code here

Matrix Key: C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

| Sample Identification | Sample Date | Sample Time | Field Filtered? Y or N | VOC: 8260 524.2 624 | SVOC: 8270 625 PAH only SIM | Pesticides: 8081 608 | PCB: 8082 608 | Soxhlet? Y or N | TPH: 8015 (Gas Range) ME4217 | TPH: 8015 (Diesel Range) 8100M ME4125 | EPH: Full or Ranges only TETPH | VPH: Full or Ranges only | Metals: RCRA8 PP13 TAL23 Other** | Matrix | No. of Containers | pH checked | Analytics Sample # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SE-SB-218 (2-4') | 2-20 | 1526 | N | | | | X | | | | | | | S | 1 | | 74887-21 |
| SE-SB-236 (0-2') | 2-20 | 1540 | N | | | | X | | | | | | | S | 1 | | |
| SE-SB-236 (2-4') | 2-20 | 1548 | N | | | | X | | | | | | | S | 1 | | |
| SE-SB-236 (4-6') | 2-20 | 1593 | N | | | | X | | | | | | | S | 1 | | |
| SE-SB-236 (6-8') | 2-20 | 1600 | N | | | | X | | | | | | | S | 1 | | |
| SE-SB-236 (8-10') | 2-20 | 1606 | N | | | | X | | | | | | | SC | 1 | | |
| SE-SB-236 (10-12') | 2-20 | 1610 | N | | | | X | | | | | | | S | 1 | | |
| SE-SB-236 (12-14') | 2-20 | 1616 | N | | | | X | | | | | | | S | 1 | | |
| SE-SB-231 (8-10') | 2-20 | 1240 | N | | | | X | | | | | | | S | 1 | | -22 |

Email Results to: KRESKY@SUMMITENV.COM

Turnaround Time (TAT)
- [ ] 1 Day*
- [ ] 2 Days*
- [ ] 3 Days*
- [ ] 4 Days*
- [ ] 5 Days
- [x] Standard (8-10 business days)

*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: ** List requested metals here

ONLY ANALYZE SE-SB-236 SAMPLES IF PCB RESULTS ABOVE 1 PPM FROM SE-SB-214 ARE REPORTED.

*Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.*

Project Requirements: *Fee may apply

Report Type:
- [ ] MCP*
- [ ] Level II*
- [ ] CTRCP*
- [ ] Level III*
- [ ] DOD*
- [ ] Level IV*
- [x] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI

Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y* N

Type:

Sampler Name (Print): JOHN CRESKY

| | | | |
|---|---|---|---|
| Relinquished By Sampler: | Date: 2-21 | Time: 9:00 | Received By: GENERAL COURIER |
| Relinquished By: General Courier | Date: 2/22/13 | Time: 8:26 | Received By: |
| Relinquished By: | Date: | Time: | Received By: |

Page 5 of 5

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 74887

CLIENT: Summit

PROJECT: Maine Energy

COOLER NUMBER: 255

NUMBER OF COOLERS: 1

**A: PRELIMINARY EXAMINATION:**

1. Cooler received by(initials): JB

DATE COOLER RECEIVED/OPENED: 2/22/13

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N

3a. Enter carrier name and airbill number here: 504730

4. Were custody seals on the outside of cooler? Y N
How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y N/A

6. COC#: _____

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was enough ice used to chill the cooler? Y N Temp. of cooler: 4°C

**B. Log-In:** Date samples were logged in: 2/22/13 By: JB

11. Were all bottles sealed in separate plastic bags? Y N

12. Did all bottles arrive unbroken and were labels in good condition? Y N

13. Were all bottle labels complete(ID,Date,time,etc.) Y N

14. Did all bottle labels agree with custody papers? Y N

15. Were the correct containers used for the tests indicated: Y N

16. Were samples received at the correct pH? Y N/A

17. Was sufficient amount of sample sent for the tests indicated? Y N

18. Were all samples submitted within holding time? Y N

19. Were all containers used within AEL 's expiration date?** Y N/A

20. Were VOA samples absent of greater than pea-sized bubbles? Y N/A
(Note:Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatiles data.)

*If NO, List Sample ID's, Lab #s: _____

When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): KGZ Date: 02/22/13

**The expiration date is recommended by Analytics Environmental Laboratory and not the method. Therefore this does not mean that the results are non-compliant.

C:ANLYTICS LLC\AEL DOCUMENTS\FORMS\SMPL CHKLST\Edit 4908

Rev. 6, 8/27/12

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| FROM | SHIP TO |
|---|---|
| Summit Environmental | Analytics Lab |
| 640 Main St | 195 Commerce Way |
| Lewiston, Me | Portsmouth, N.H. |

BILLING INFORMATION

| QUANTITY | DESCRIPTION | PRICE |
|---|---|---|
| Cooler | | |

Signature Jacyn

Time 856 2/22/13

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

March 6, 2013

Mr. John Cressey
Summit Environmental
640 Main Street
Lewiston ME 04240

**RE: Analytical Results Case Narrative**
**Analytics # 74946**
**Maine Energy**
**Project No: 12-3259.1**

Dear Mr. Cressey;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082A.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples
PCB Form 3 MS/MSD (LCS) Recoveries and Blanks
Chromatograms
Chain of Custody (COC) Forms

## QC NON CONFORMANCE SUMMARY

**Sample Receipt:**
No exceptions.

**PCBs by EPA Method 8082:**
No results were reported below the quantitation limit.

All samples except 74946-1 and 74946-7 required dilution due to concentrations of PCBs that exceeded the calibration range of the instrument or matrix affect.

The MS/MSD analyzed on sample 74946-1-1 did not meet acceptance criteria for PCB 1260 recoveries due to the parent sample having concentrations of PCB 1260 that exceeded the calibration range of the instrument. In addition the MS/MSD pair had three high RPDs. The laboratory control samples (L030413PSOX/LD030413PSOX) were in control for all recoveries but had high RPDs. Results were reported without qualification.

If you have any questions on this data submittal, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

**Report Number: 74946**

**Revision: Rev. 0**

**Re: Maine Energy (Project No: 12-3259.1)**

Enclosed are the results of the analyses on your sample(s). Samples were received on 22 February 2013 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

| Lab Number | Sample Date | Station Location | Analysis | Comments |
|---|---|---|---|---|
| 74946-1 | 02/20/13 | SE-SB-236 (0-2') | EPA 8082 (PCBs only) | |
| 74946-2 | 02/20/13 | SE-SB-236 (2-4') | EPA 8082 (PCBs only) | |
| 74946-3 | 02/20/13 | SE-SB-236 (4-6') | EPA 8082 (PCBs only) | |
| 74946-4 | 02/20/13 | SE-SB-236 (6-8') | EPA 8082 (PCBs only) | |
| 74946-5 | 02/20/13 | SE-SB-236 (8-10') | EPA 8082 (PCBs only) | |
| 74946-6 | 02/20/13 | SE-SB-236 (10-12') | EPA 8082 (PCBs only) | |
| 74946-7 | 02/20/13 | SE-SB-236 (12-14') | EPA 8082 (PCBs only) | |

**Sample Receipt Exceptions:** None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 3/6/2013

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analytics environmental laboratory LLC

## Surrogate Compound Limits

| Matrix: | Aqueous | Solid | |
|---|---|---|---|
| Units: | % Recovery | % Recovery | Method |
| **Volatile Organic Compounds - Drinking Water** | | | |
| 1,4-Difluorobenzene | 70-130 | | EPA 524.2 |
| Bromofluorobenzene | 70-130 | | |
| 1,2-Dichlorobenzene-d4 | 70-130 | | |
| **Volatile Organic Compounds** | | | |
| 1,2-Dichloroethane-d4 | 70-120 | 70-120 | EPA 624/8260B |
| Toluene-d8 | 85-120 | 85-120 | |
| Bromofluorobenzene | 75-120 | 75-120 | |
| **Semi-Volatile Organic Compounds** | | | |
| 2-Fluorophenol | 20-110 | 35-105 | EPA 625/8270C |
| d5-Phenol | 15-110 | 40-100 | |
| d5-nitrobenzene | 40-110 | 35-100 | |
| 2-Fluorobiphenyl | 50-110 | 45-105 | |
| 2,4,6-Tribromophenol | 40-110 | 40-125 | |
| d14-p-terphenyl | 50-130 | 30-125 | |
| **PAH's by SIM** | | | |
| d5-nitrobenzene | 21-110 | 35-110 | EPA 8270C |
| 2-Fluorobiphenyl | 36-121 | 45-105 | |
| d14-p-terphenyl | 33-141 | 30-125 | |
| **Pesticides and PCBs** | | | |
| 2,4,5,6-Tetrachloro-m-xylene (TCX) | 46-122 | 40-130 | EPA 608/8082 |
| Decachlorobiphenyl (DCB) | 40-135 | 40-130 | |
| **Herbicides** | | | |
| Dichloroacetic acid (DCAA) | 30-150 | 30-150 | |
| **Gasoline Range Organics/TPH Gasoline** | | | |
| Trifluorotoluene TFT (FID) | 60-140 | 60-140 | MEDEP 4217/EPA 8015 |
| Bromofluorobenzene (BFB) (FID) | 60-140 | 60-140 | |
| Trifluorotoluene TFT (PID) | 60-140 | 60-140 | |
| Bromofluorobenzene (BFB) (PID) | 60-140 | 60-140 | |
| **Diesel Range Organics/TPH Diesel** | | | |
| m-terphenyl | 60-140 | 60-140 | MEDEP 4125/EPA 8015/CT ETPH |
| **Volatile Petroleum Hydrocarbons** | | | |
| 2,5-Dibromotoluene (PID) | 70-130 | 70-130 | MADEP VPH May 2004 Rev1.1 |
| 2,5-Dibromotoluene (FID) | 70-130 | 70-130 | |
| **Extracatable Petroleum Hydrocarbons** | | | |
| 1-chloro-octadecane (aliphatic) | 40-140 | 40-140 | MADEP EPH May 2004 Rev1.1 |
| o-Terphenyl (aromatic) | 40-140 | 40-140 | |
| 2-Fluorobiphenyl (Fractionation) | 40-140 | 40-140 | |
| 2-Bromonaphthalene (fractionation) | 40-140 | 40-140 | |

analytics environmental laboratory LLC

# PCB
# DATA SUMMARIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCB.doc

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 6, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74946-1 |
| **Matrix:** | Solid |
| **Percent Solid:** | 96 |
| **Dilution Factor:** | 1.0 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 03/04/13 |
| **Analysis Date:** | 03/05/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | Maine Energy |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-236 (0-2') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | **174** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 92 | % |
| Decachlorobiphenyl | 79 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG:
Sample: 74946-1,,A/C
Data File: M67921.D
Dilution Factor: 1.0

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 174 | 166 | 4.7 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

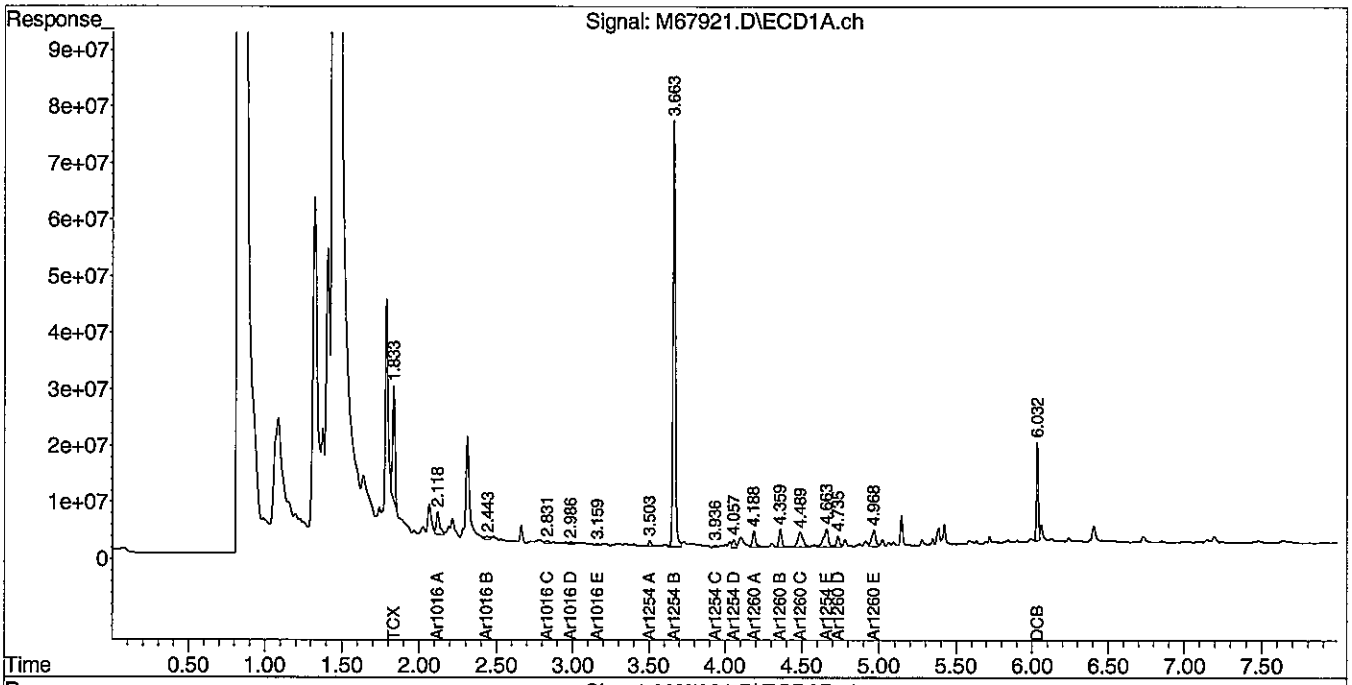
Comments: _____

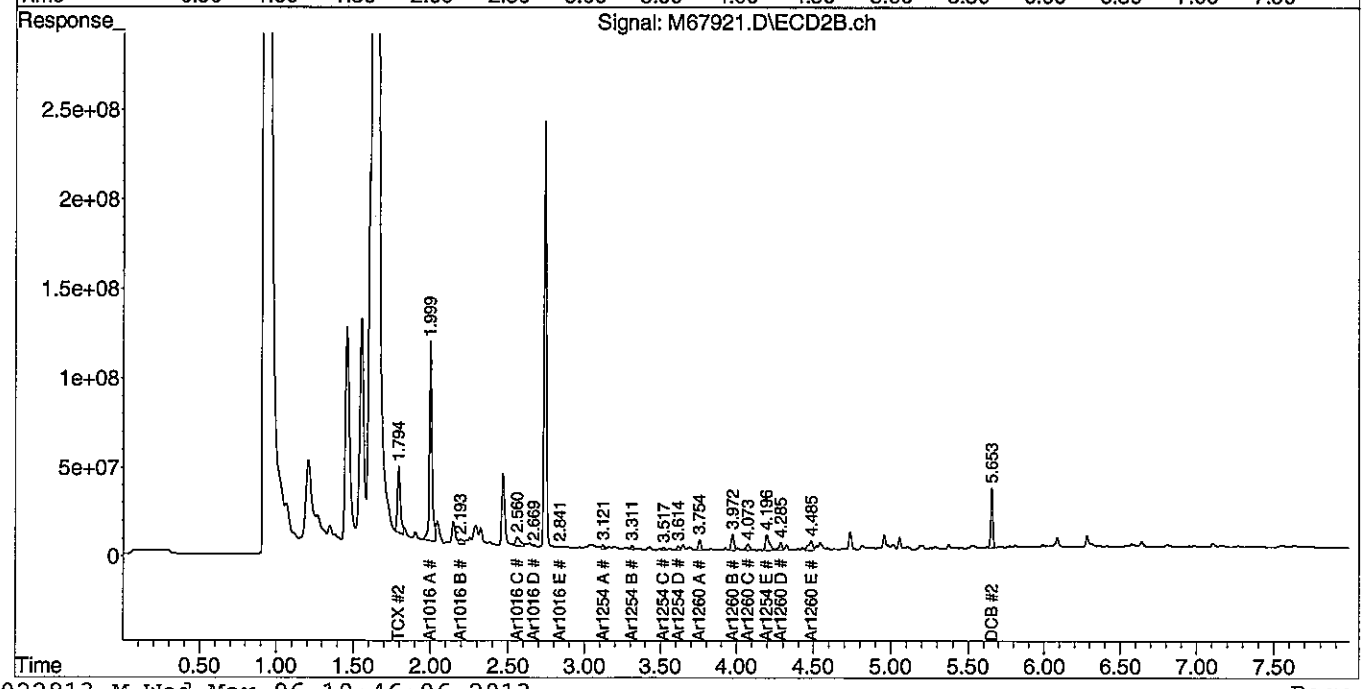
PCB FORM 10

Data Path : C:\msdchem\1\DATA\030513-M\
Data File : M67921.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Mar 2013 5:49 pm
Operator : JK
Sample : 74946-1,,A/C
Misc : SOIL
ALS Vial : 19 Sample Multiplier: 1

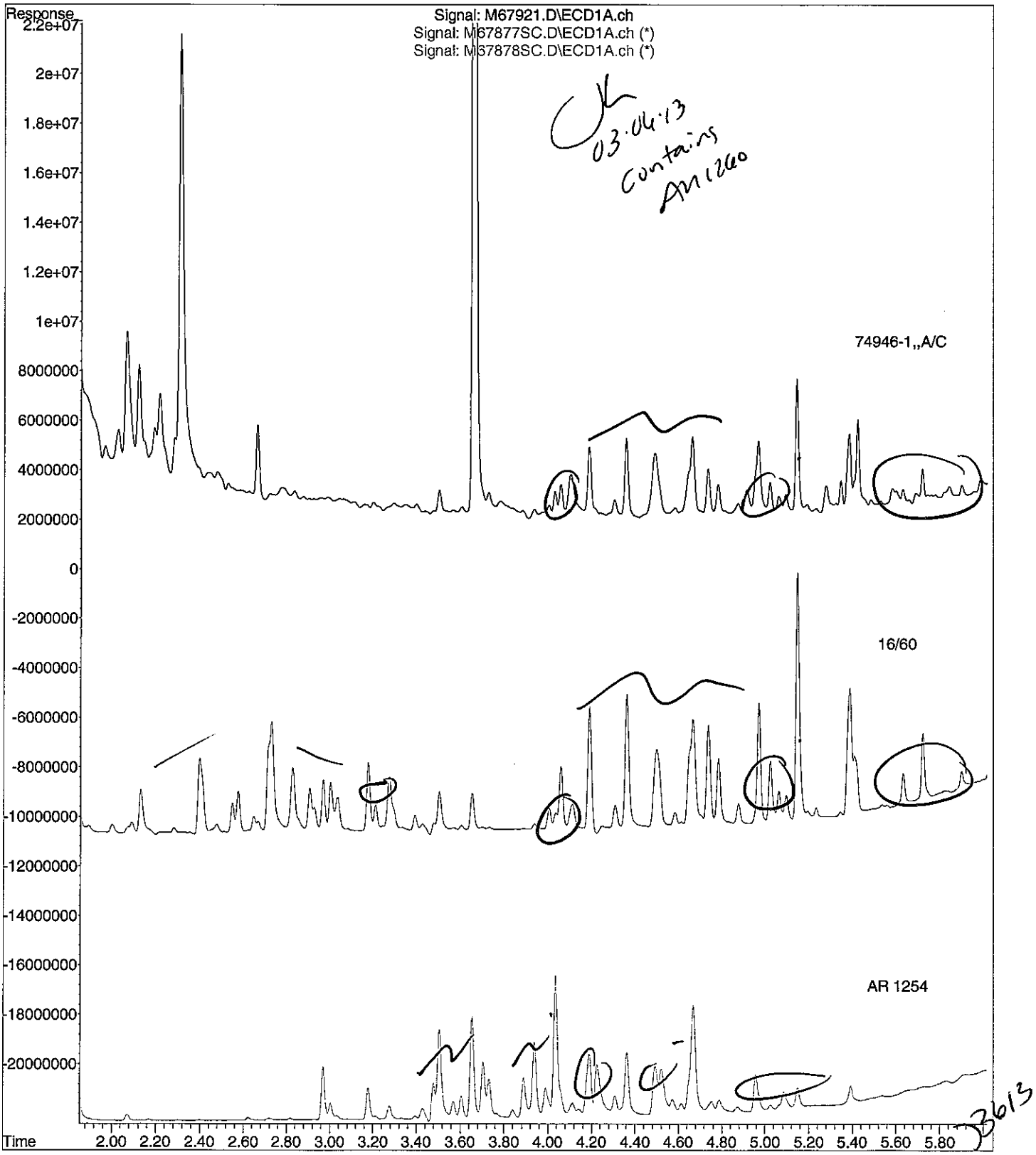
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 06 10:45:54 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Mar 06 10:28:44 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\030513-M\M67921.D
Operator : JK
Acquired : 5 Mar 2013 5:49 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 74946-1,,A/C
Misc Info : SOIL
Vial Number: 19



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 6, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74946-2 |
| **Matrix:** | Solid |
| **Percent Solid:** | 93 |
| **Dilution Factor:** | 2.1 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 03/04/13 |
| **Analysis Date:** | 03/05/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | Maine Energy |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-236 (2-4') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 69 | U |
| PCB-1221 | 69 | U |
| PCB-1232 | 69 | U |
| PCB-1242 | 69 | U |
| PCB-1248 | 69 | U |
| PCB-1254 | 69 | U |
| PCB-1260 | 69 | **670** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 112 | % |
| Decachlorobiphenyl | 89 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74946
Sample: 74946-2,1:2,,A/C
Data File: M67924.D
Dilution Factor: 2.1

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 662 | 670 | 1.2 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

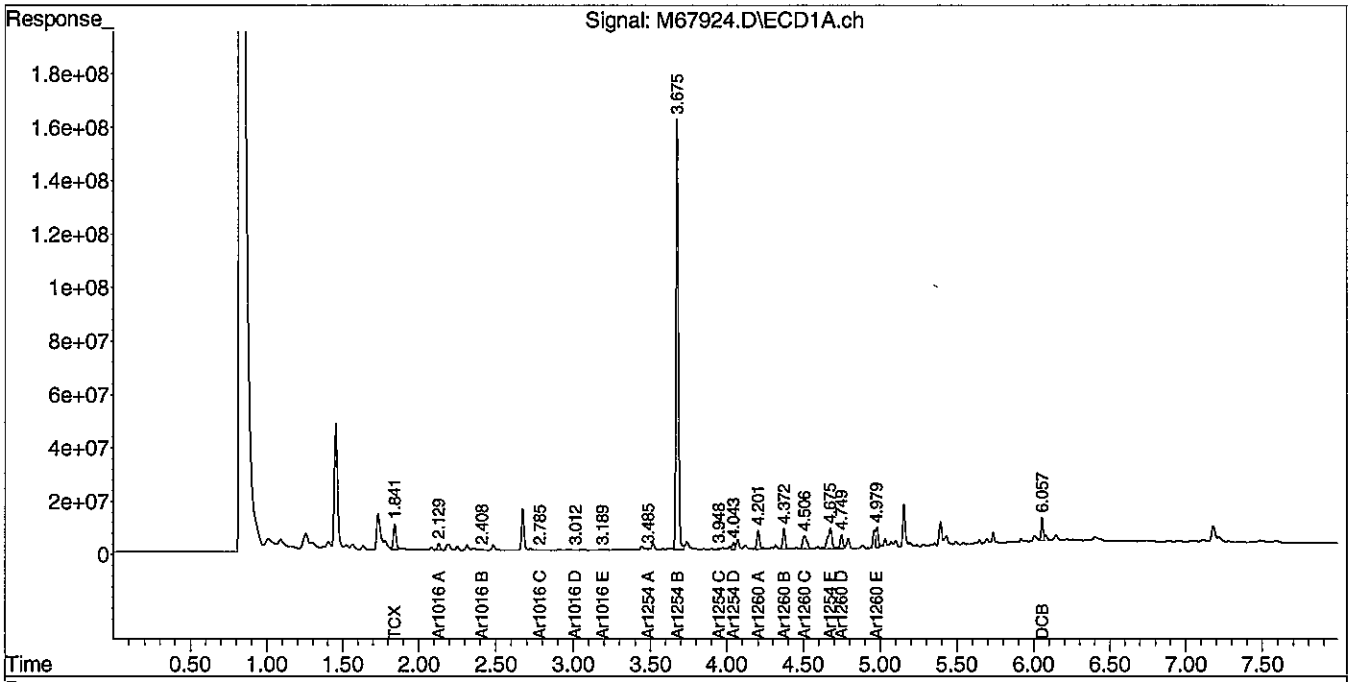
Comments: _____

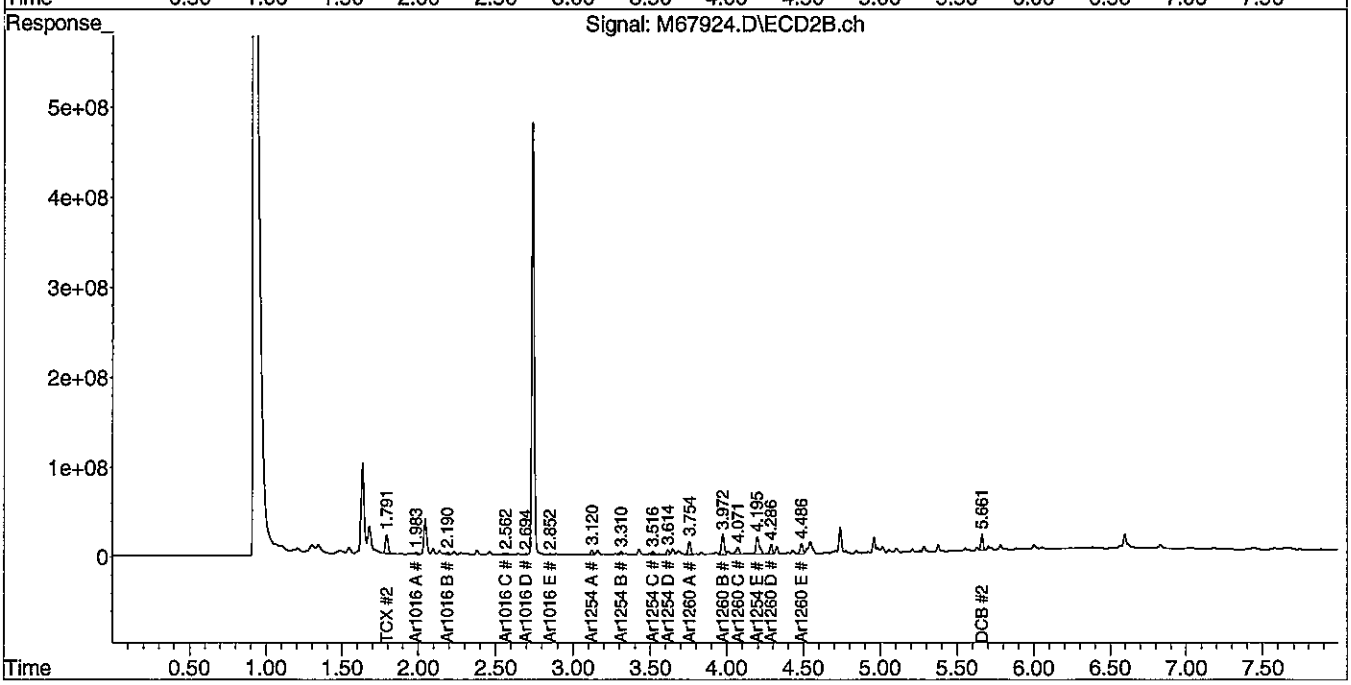
PCB FORM 10

Data Path : C:\msdchem\1\DATA\030513-M\
Data File : M67924.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Mar 2013 9:15 pm
Operator : JK
Sample : 74946-2,1:2,,A/C
Misc : SOIL
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 06 10:52:01 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Mar 06 10:28:44 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 6, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74946-3 |
| **Matrix:** | Solid |
| **Percent Solid:** | 89 |
| **Dilution Factor:** | 6 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 03/04/13 |
| **Analysis Date:** | 03/05/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | Maine Energy |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-236 (4-6') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 198 | U |
| PCB-1221 | 198 | U |
| PCB-1232 | 198 | U |
| PCB-1242 | 198 | U |
| PCB-1248 | 198 | U |
| PCB-1254 | 198 | U |
| PCB-1260 | 198 | **2240** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 124 | % |
| Decachlorobiphenyl | 97 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74946
Sample: 74946-3,1:5,,A/C
Data File: M67925.D
Dilution Factor: 5.5

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 2236 | 2214 | 1.0 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

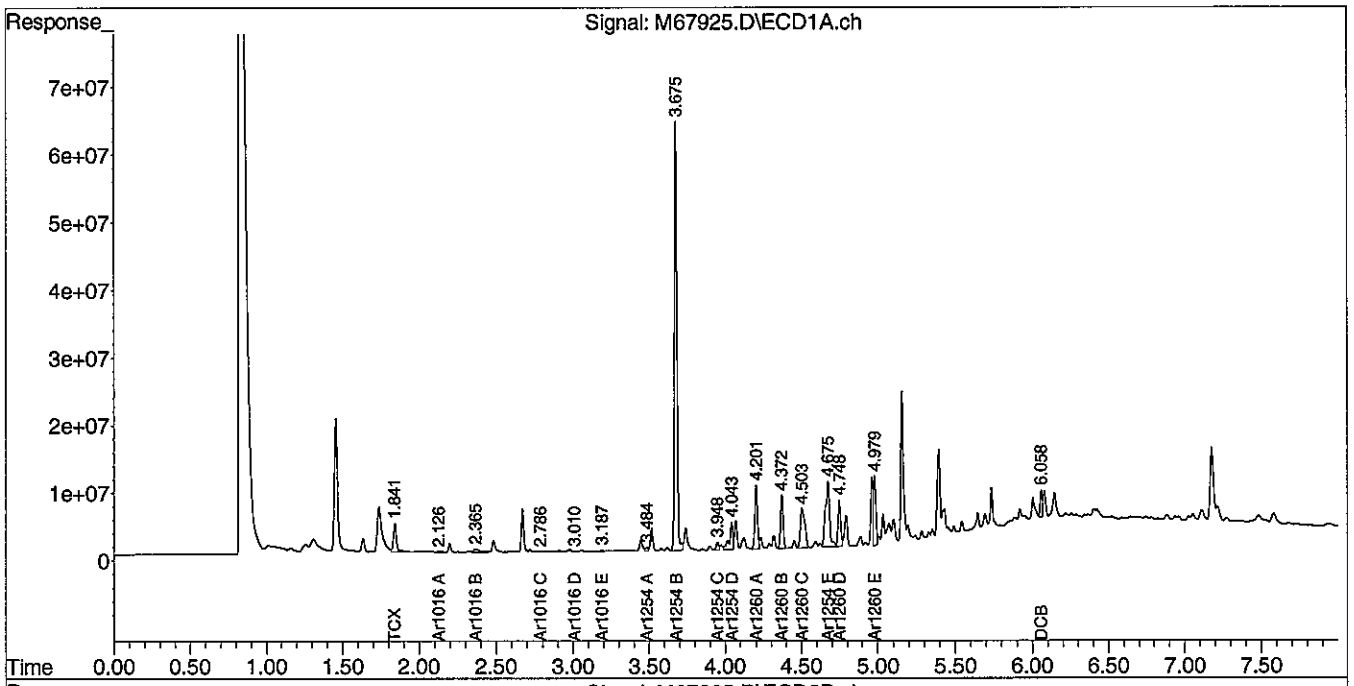
Comments: _____

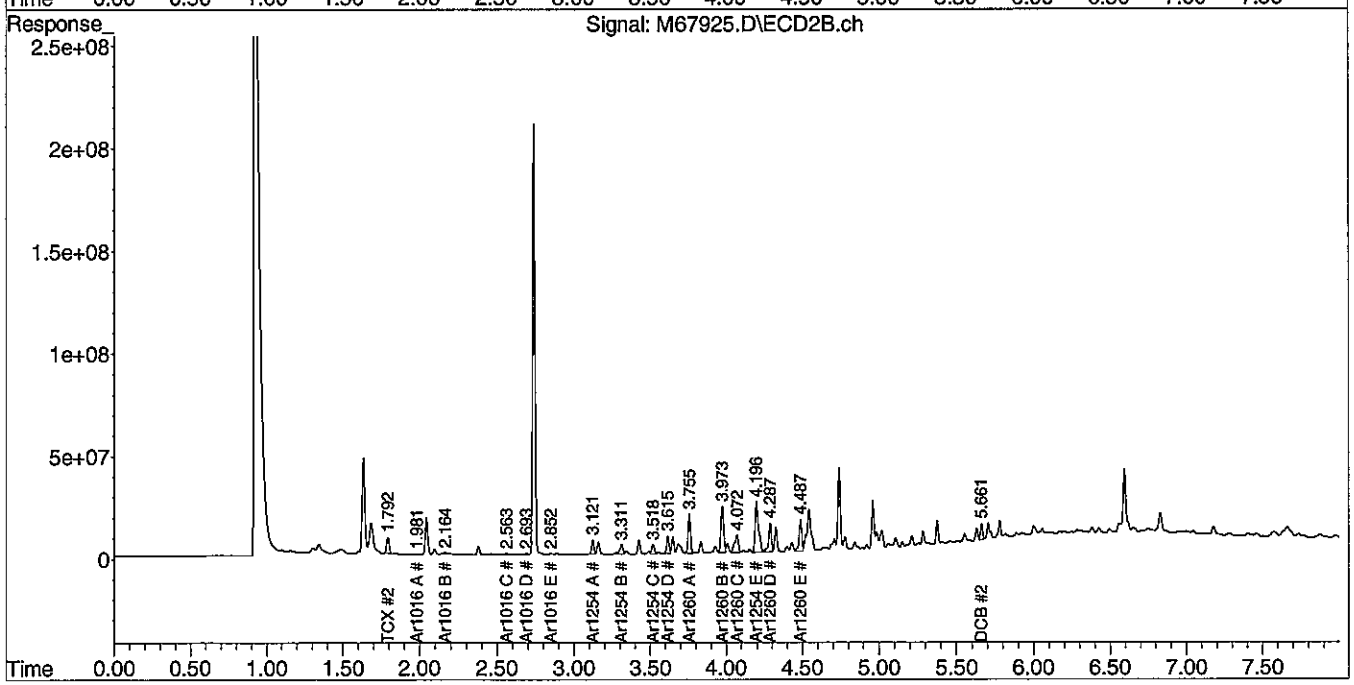
PCB FORM 10

Data Path : C:\msdchem\1\DATA\030513-M\
Data File : M67925.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Mar 2013 9:44 pm
Operator : JK
Sample : 74946-3,1:5,,A/C
Misc : SOIL
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 06 10:53:05 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Mar 06 10:28:44 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 6, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74946-4 |
| **Matrix:** | Solid |
| **Percent Solid:** | 91 |
| **Dilution Factor:** | 6 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 03/04/13 |
| **Analysis Date:** | 03/05/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | Maine Energy |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-236 (6-8') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 198 | U |
| PCB-1221 | 198 | U |
| PCB-1232 | 198 | U |
| PCB-1242 | 198 | U |
| PCB-1248 | 198 | U |
| PCB-1254 | 198 | U |
| PCB-1260 | 198 | **2120** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 89 | % |
| Decachlorobiphenyl | 77 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74946
Sample: 74946-4,1:5,,A/C
Data File: M67926.D
Dilution Factor: 5.5

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 2121 | 2062 | 2.8 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

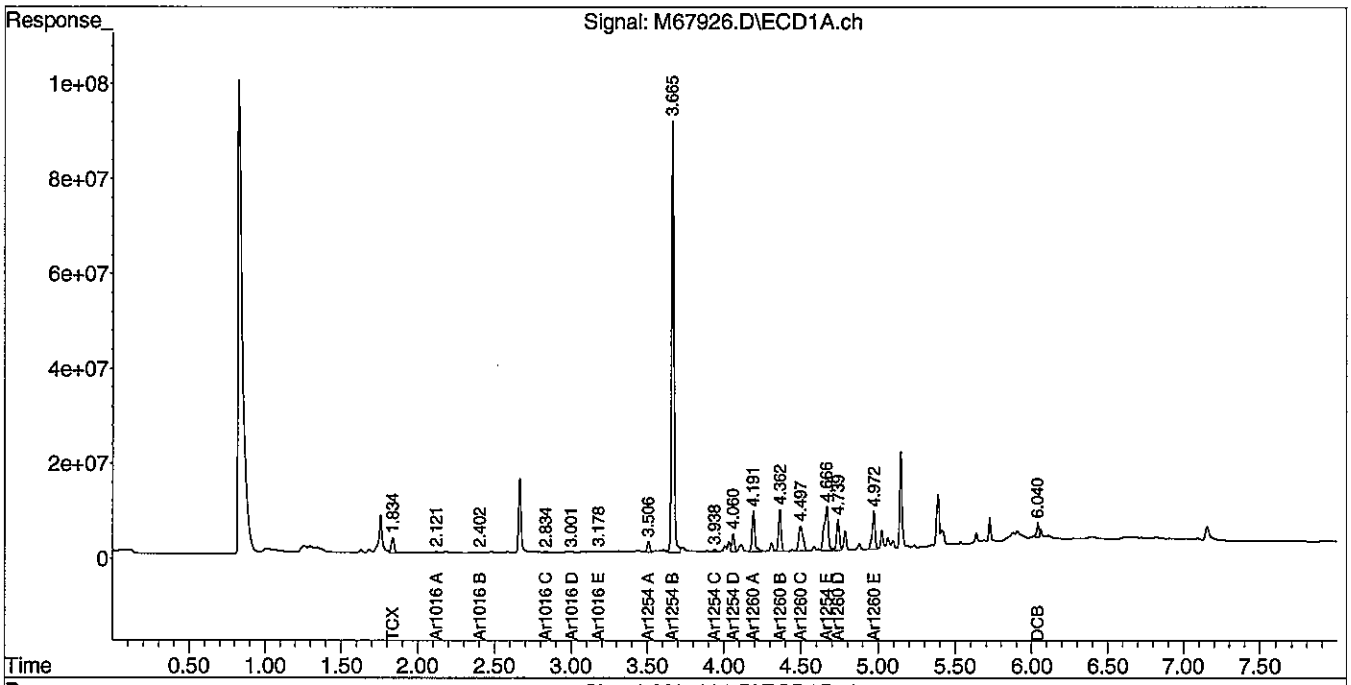
Comments: _____

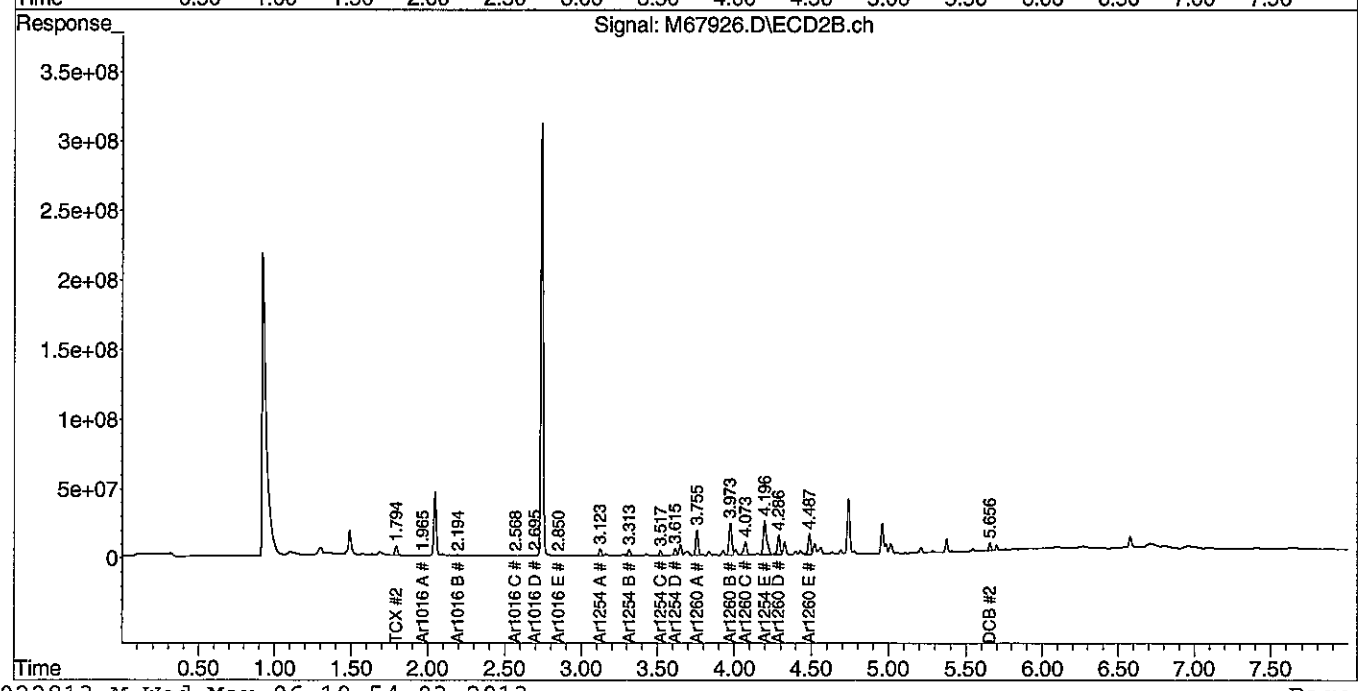
PCB FORM 10

Data Path : C:\msdchem\1\DATA\030513-M\
Data File : M67926.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Mar 2013 9:54 pm
Operator : JK
Sample : 74946-4,1:5,,A/C
Misc : SOIL
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 06 10:53:53 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Mar 06 10:28:44 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 6, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74946-5 |
| **Matrix:** | Solid |
| **Percent Solid:** | 90 |
| **Dilution Factor:** | 2.2 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 03/04/13 |
| **Analysis Date:** | 03/05/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | Maine Energy |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-236 (8-10') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 73 | U |
| PCB-1221 | 73 | U |
| PCB-1232 | 73 | U |
| PCB-1242 | 73 | U |
| PCB-1248 | 73 | U |
| PCB-1254 | 73 | U |
| PCB-1260 | 73 | **975** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 70 | % |
| Decachlorobiphenyl | 62 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74946
Sample: 74946-5,1:2,,A/C
Data File: M67927.D
Dilution Factor: 2.2

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 975 | 948 | 2.8 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

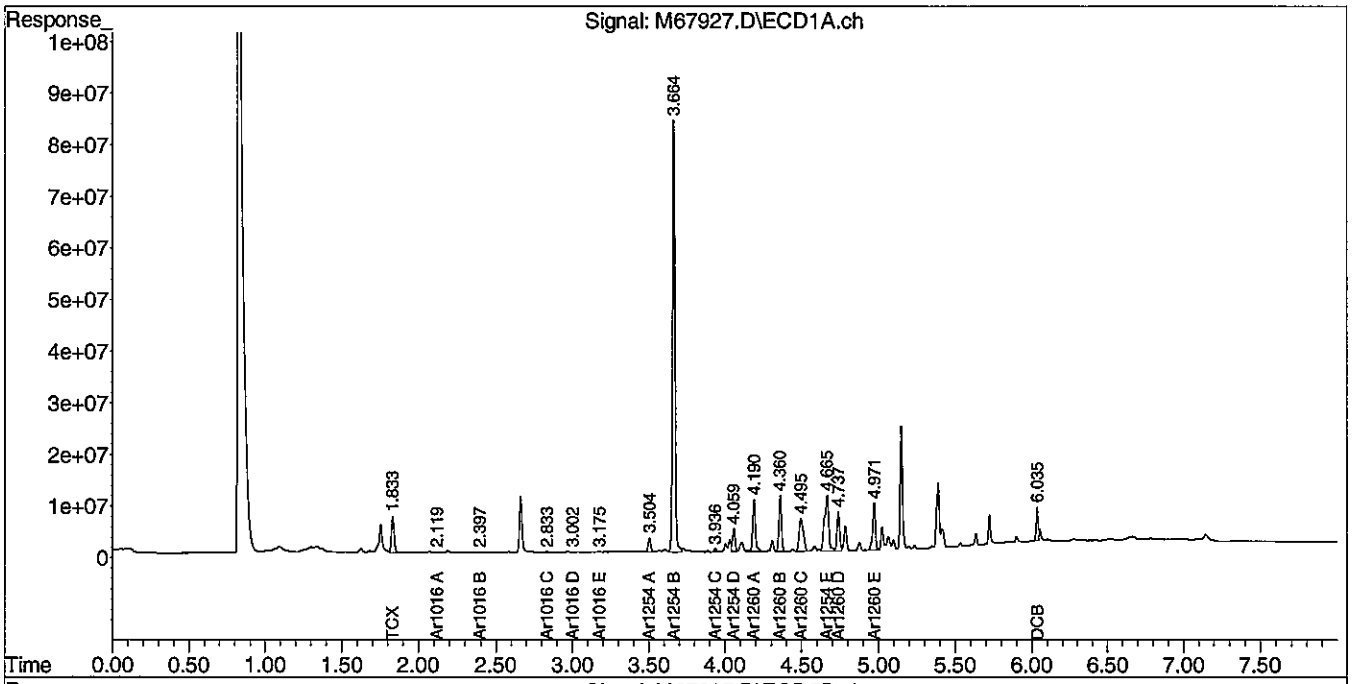
Comments: _____

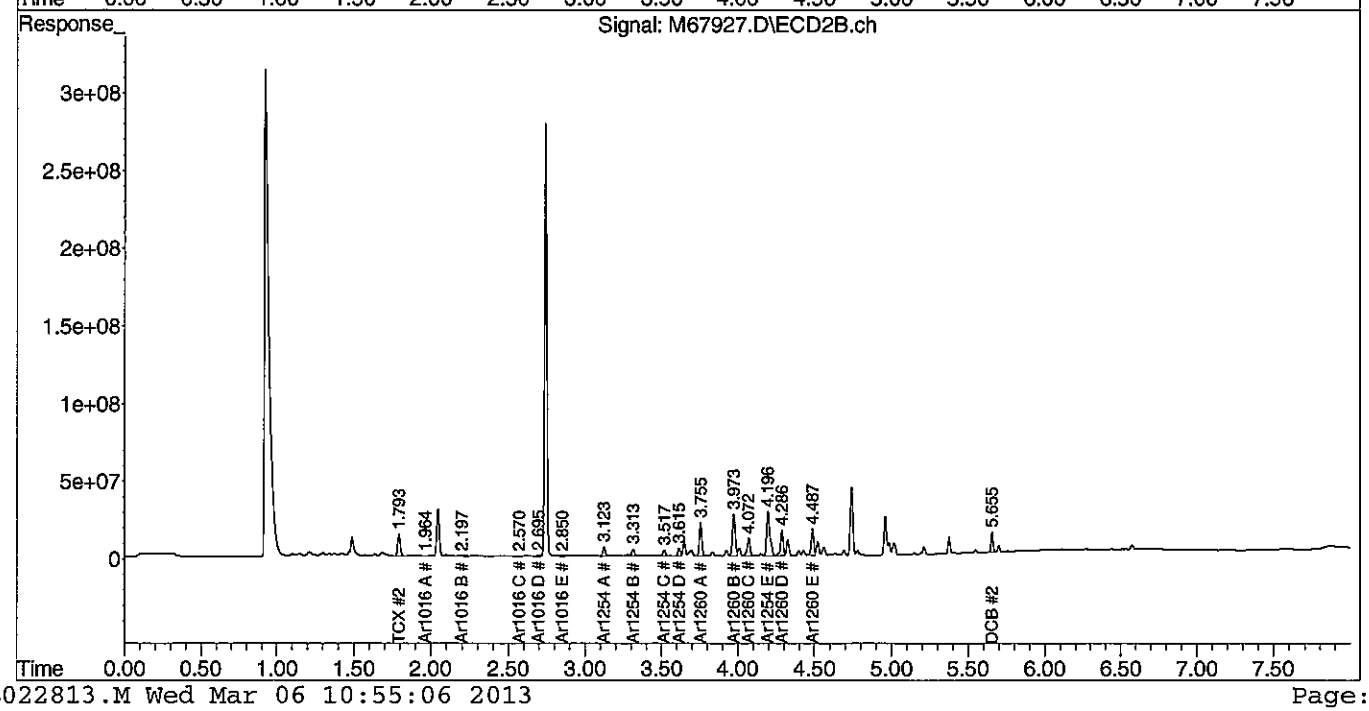
PCB FORM 10

Data Path : C:\msdchem\1\DATA\030513-M\
Data File : M67927.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Mar 2013 10:04 pm
Operator : JK
Sample : 74946-5,1:2,,A/C
Misc : SOIL
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 06 10:54:51 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Mar 06 10:28:44 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 6, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74946-6 |
| **Matrix:** | Solid |
| **Percent Solid:** | 93 |
| **Dilution Factor:** | 2.1 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 03/04/13 |
| **Analysis Date:** | 03/05/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | Maine Energy |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-236 (10-12') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 69 | U |
| PCB-1221 | 69 | U |
| PCB-1232 | 69 | U |
| PCB-1242 | 69 | U |
| PCB-1248 | 69 | U |
| PCB-1254 | 69 | U |
| PCB-1260 | 69 | **735** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 68 | % |
| Decachlorobiphenyl | 64 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74946
Sample: 74946-6,1:2,,A/C
Data File: M67928.D
Dilution Factor: 2.1

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 735 | 719 | 2.2 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

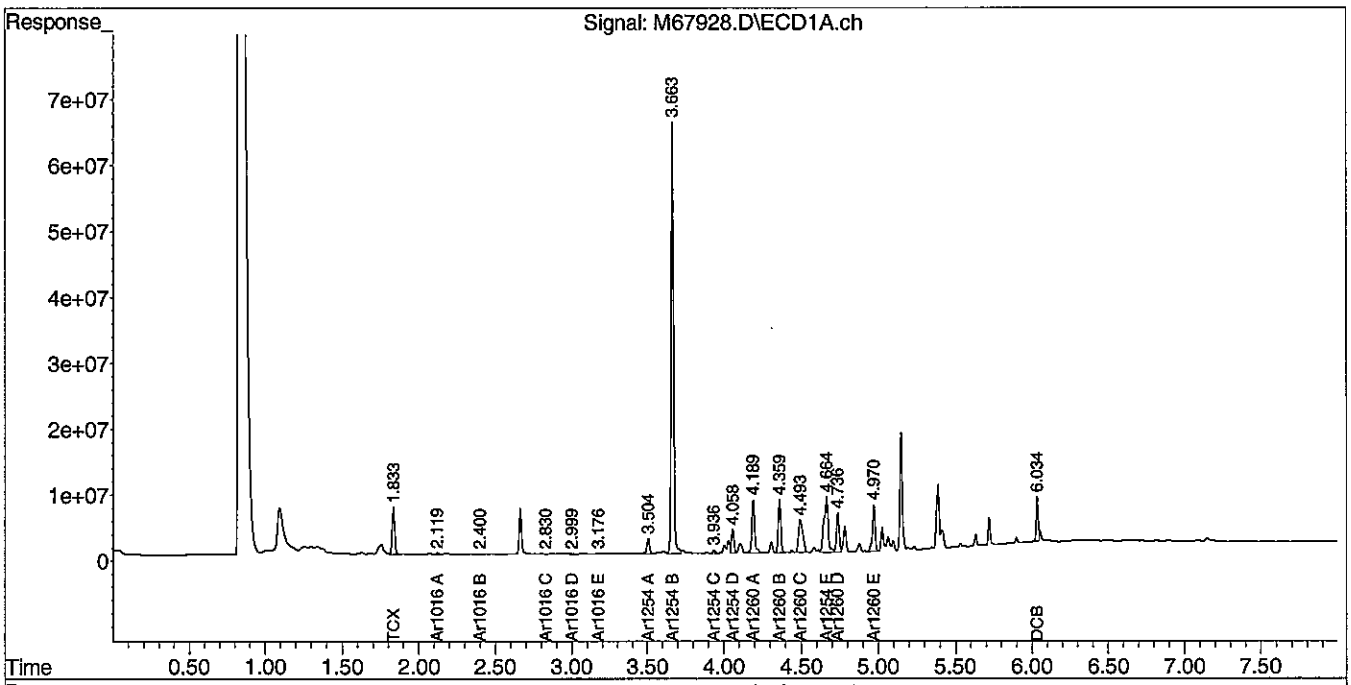
Comments: _____

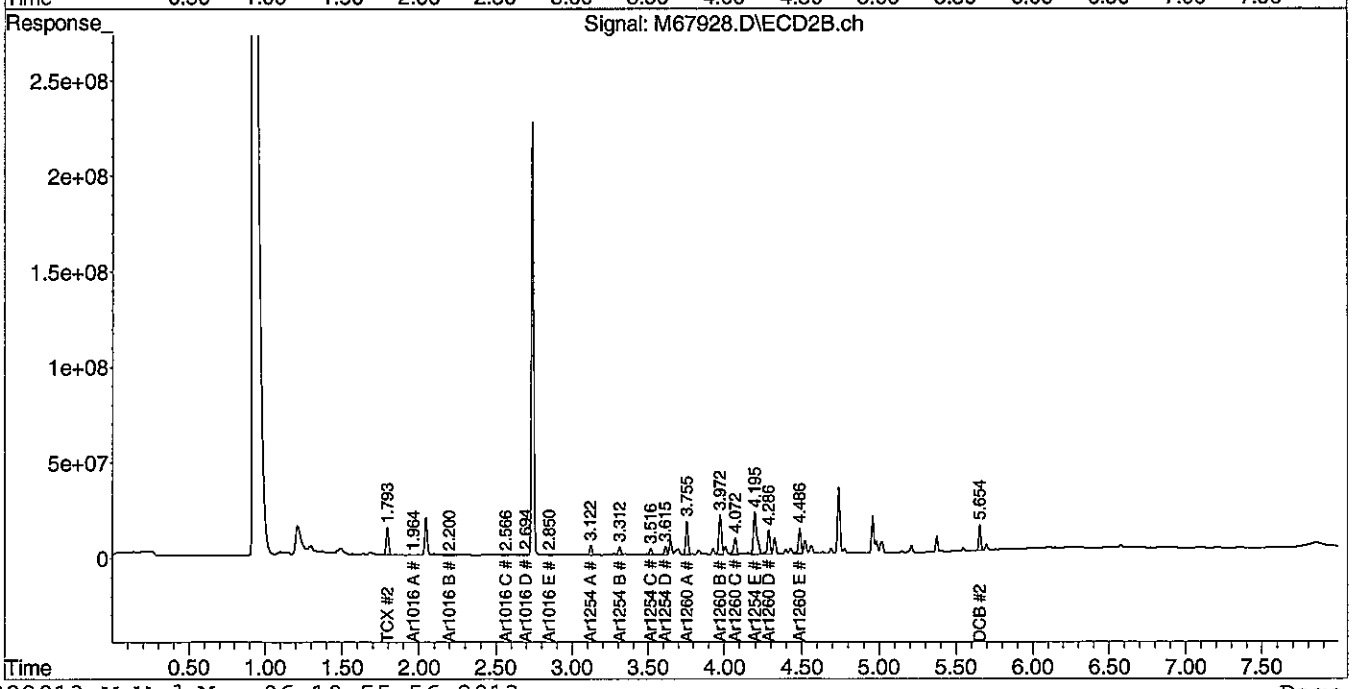
PCB FORM 10

Data Path : C:\msdchem\1\DATA\030513-M\
Data File : M67928.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Mar 2013 10:14 pm
Operator : JK
Sample : 74946-6,1:2,,A/C
Misc : SOIL
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 06 10:55:48 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Mar 06 10:28:44 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 6, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | 74946-7 |
| **Matrix:** | Solid |
| **Percent Solid:** | 88 |
| **Dilution Factor:** | 1.1 |
| **Collection Date:** | 02/20/13 |
| **Lab Receipt Date:** | 02/22/13 |
| **Extraction Date:** | 03/04/13 |
| **Analysis Date:** | 03/05/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | Maine Energy |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | SE-SB-236 (12-14') |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 36 | U |
| PCB-1221 | 36 | U |
| PCB-1232 | 36 | U |
| PCB-1242 | 36 | U |
| PCB-1248 | 36 | U |
| PCB-1254 | 36 | U |
| PCB-1260 | 36 | **472** |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 78 | % |
| Decachlorobiphenyl | 85 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74946
Sample: 74946-7,,A/C
Data File: M67929.D
Dilution Factor: 1.1

| | Column #1 | Column #2 | | |
|---|---|---|---|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 472 | 447 | 5.3 | |

# Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

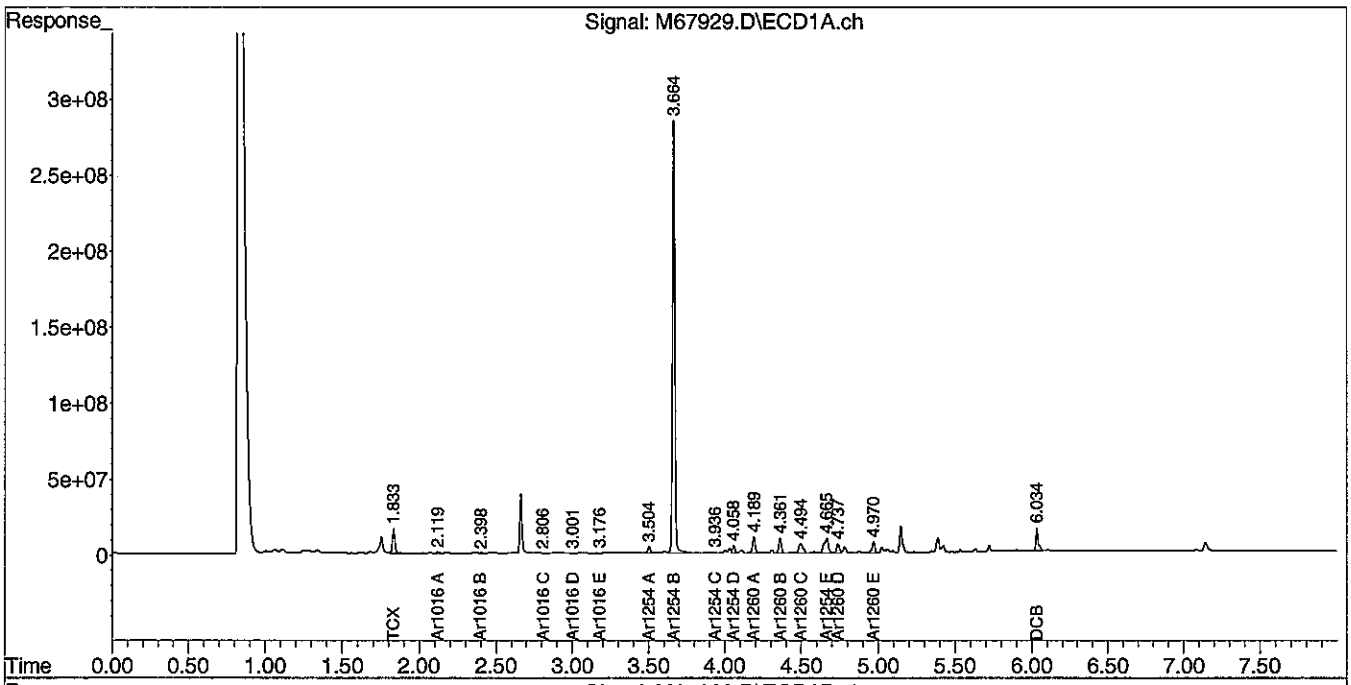
Comments: _____

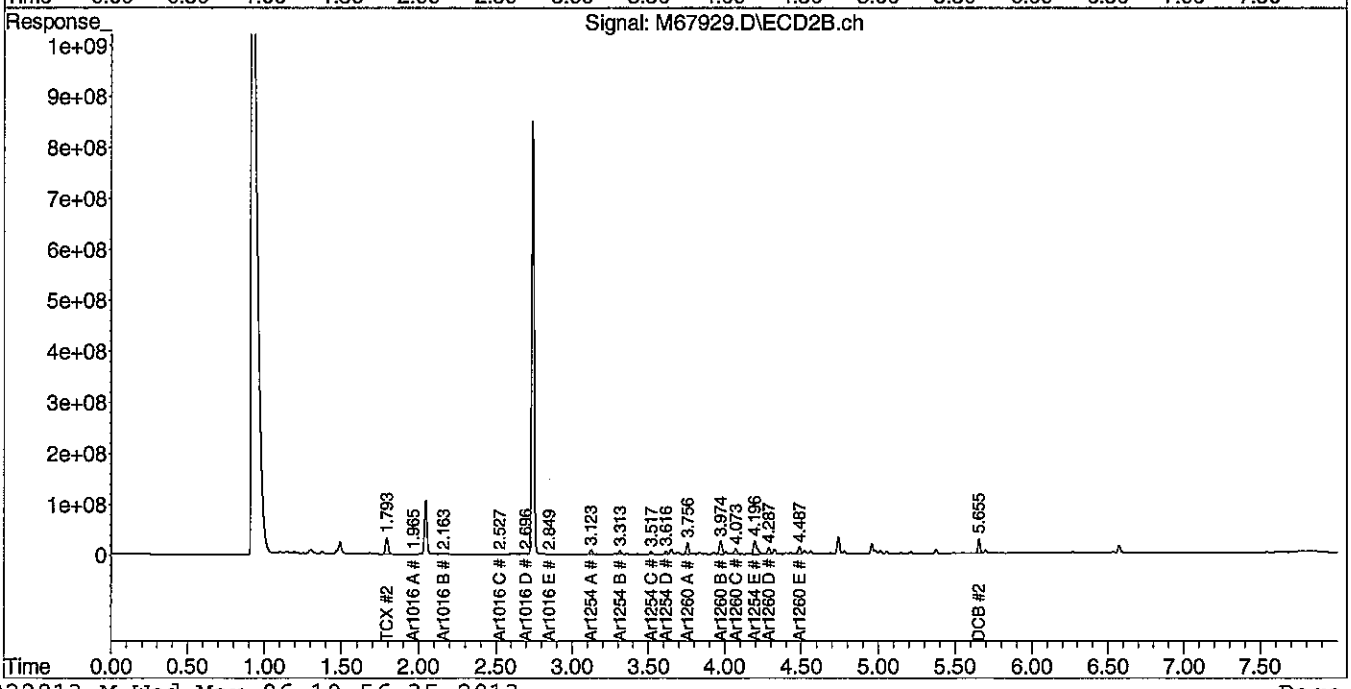
PCB FORM 10

Data Path : C:\msdchem\1\DATA\030513-M\
Data File : M67929.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Mar 2013 10:24 pm
Operator : JK
Sample : 74946-7,,A/C
Misc : SOIL
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 06 10:43:25 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Mar 06 10:28:44 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 6, 2013

**SAMPLE DATA**

| | |
|---|---|
| **Lab Sample ID:** | B030413PSOX |
| **Matrix:** | Soil |
| **Percent Solid:** | 100 |
| **Dilution Factor:** | 1.0 |
| **Collection Date:** | |
| **Lab Receipt Date:** | |
| **Extraction Date:** | 03/04/13 |
| **Analysis Date:** | 03/05/13 |

**CLIENT SAMPLE ID**

| | |
|---|---|
| **Project Name:** | Maine Energy |
| **Project Number:** | 12-3259.1 |
| **Field Sample ID:** | Lab QC |

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 103 | % |
| Decachlorobiphenyl | 87 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

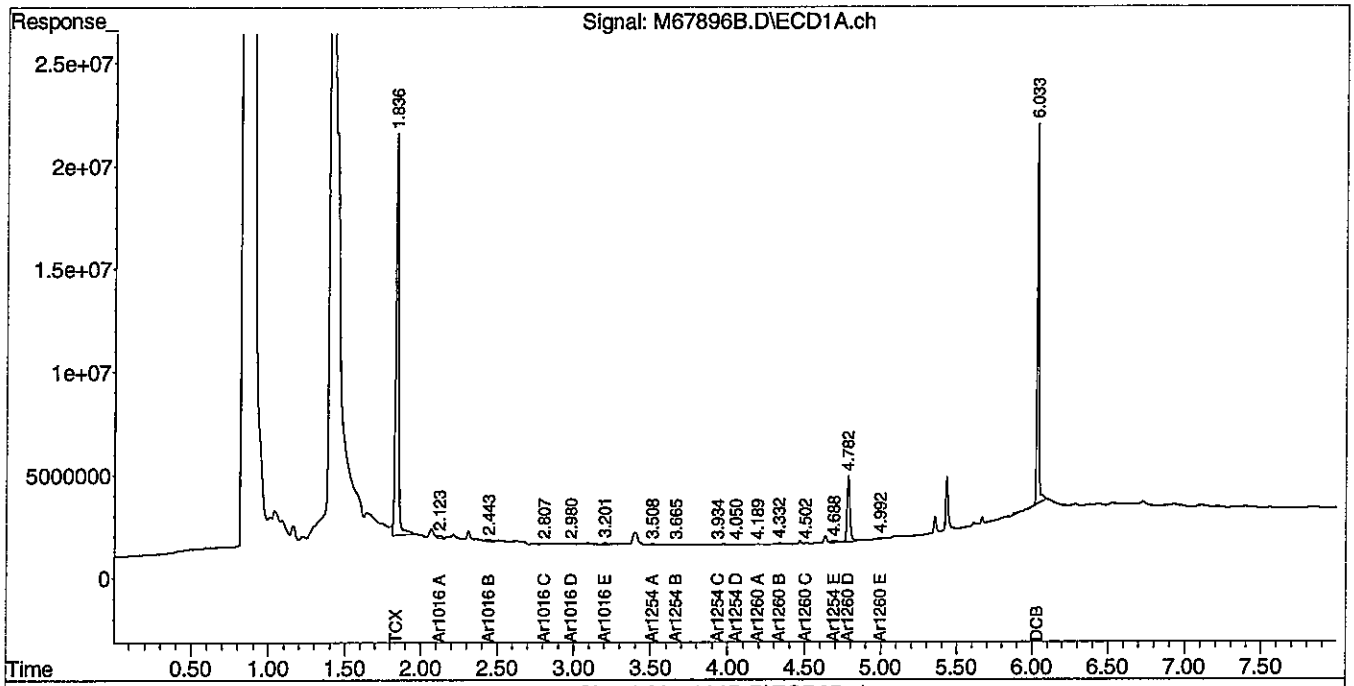
PCB Report

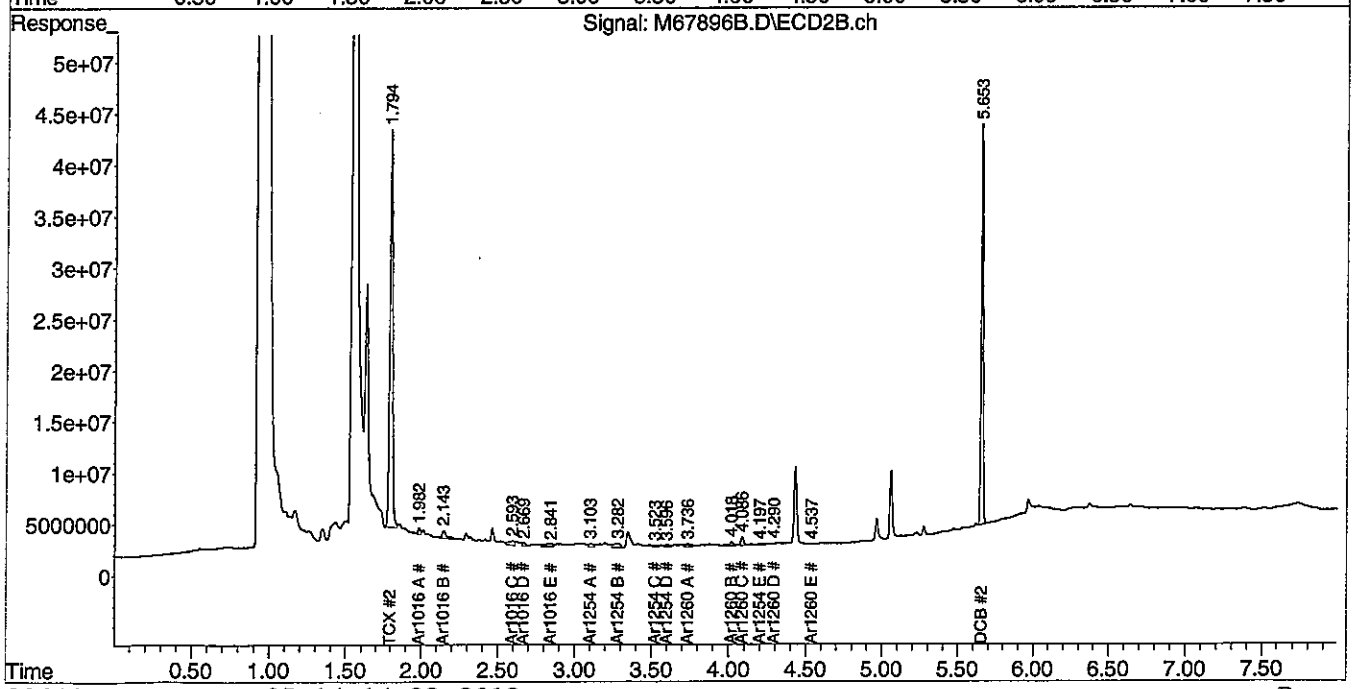
Authorized signature

Data Path : C:\msdchem\1\DATA\030513-M\
Data File : M67896B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Mar 2013 1:37 pm
Operator : JK
Sample : B030413PSOX,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 14:14:27 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Mar 05 10:44:12 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Mr. John Cressey
Summit Environmental Consultants Inc.
640 Main Street
Lewiston ME 04240

March 6, 2013

**SAMPLE DATA**

**CLIENT SAMPLE ID**

**Project Name:** Maine Energy

**Project Number:** 12-3259.1

**Field Sample ID:** Lab QC

**Lab Sample ID:** B030413PSOX RR
**Matrix:** Soil
**Percent Solid:** 100
**Dilution Factor:** 1.0
**Collection Date:**
**Lab Receipt Date:**
**Extraction Date:** 03/04/13
**Analysis Date:** 03/05/13

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit µg/kg | Results µg/kg |
|---|---|---|
| PCB-1016 | 33 | U |
| PCB-1221 | 33 | U |
| PCB-1232 | 33 | U |
| PCB-1242 | 33 | U |
| PCB-1248 | 33 | U |
| PCB-1254 | 33 | U |
| PCB-1260 | 33 | U |

**Surrogate Standard Recovery**

| | | |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 101 | % |
| Decachlorobiphenyl | 86 | % |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082A. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

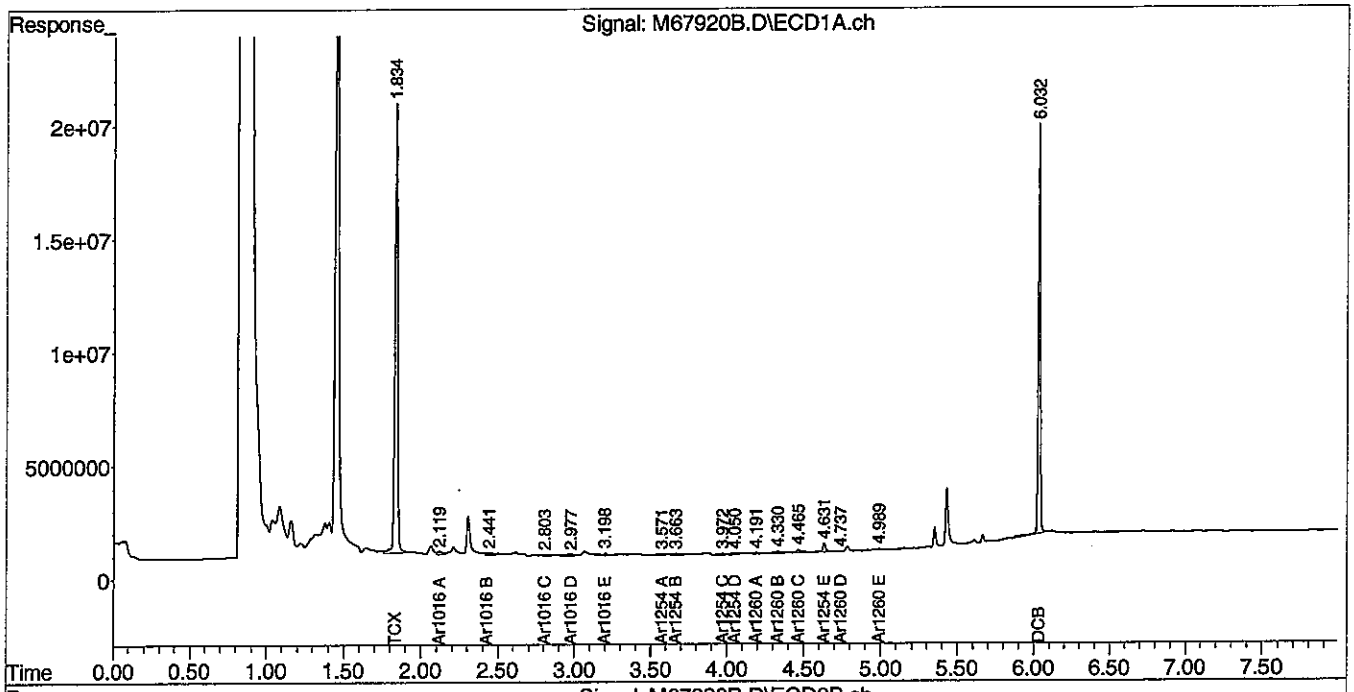
PCB Report

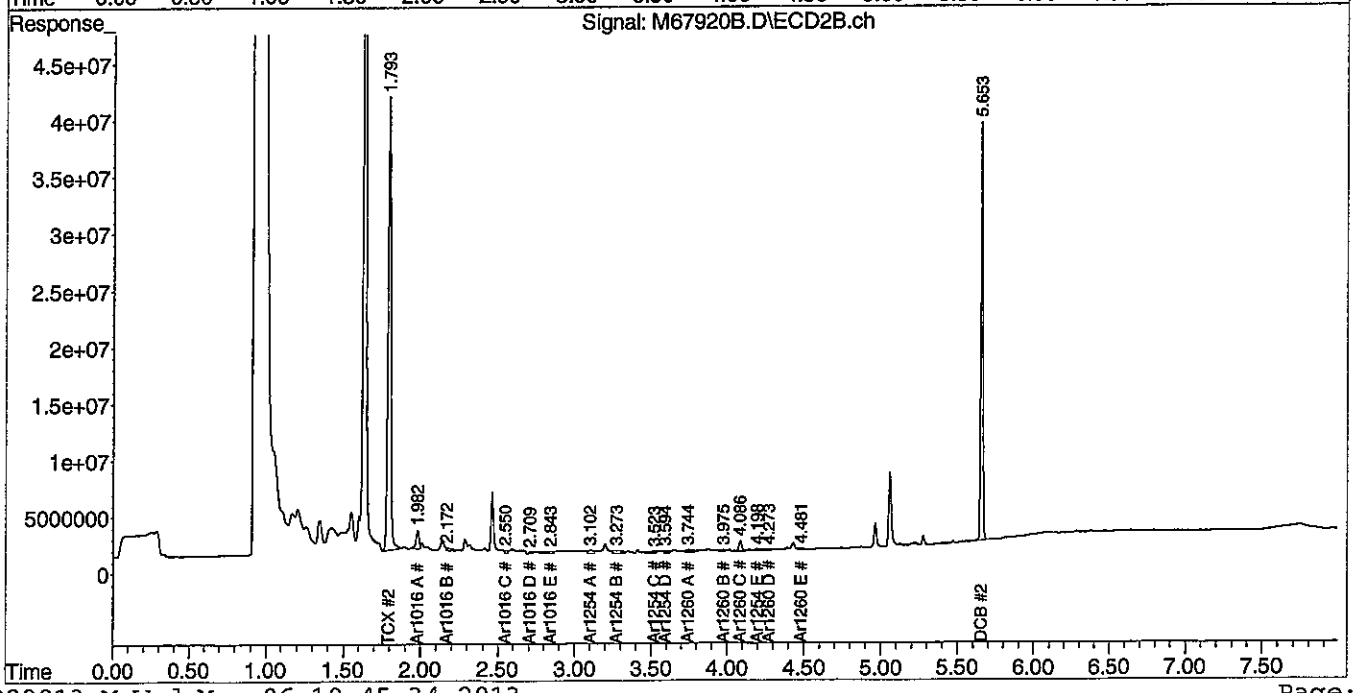
Authorized signature

Data Path : C:\msdchem\1\DATA\030513-M\
Data File : M67920B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Mar 2013 5:39 pm
Operator : JK
Sample : B030413PSOX,RR2,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 06 10:43:05 2013
Quant Method : C:\msdchem\1\METHODS\PCB022813.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Mar 06 10:28:43 2013
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74946

| | Column #1 | | | | Column #2 | | | |
|---|---|---|---|---|---|---|---|---|
| SAMPLE ID | SMC 1 (%) | # | SMC 2 (%) | # | SMC 1 (%) | # | SMC 2 (%) | # |
| B030413PSOX,,A/C | 103 | | 87 | | 98 | | 86 | |
| L030413PSOX,,A/C | 97 | | 106 | | 80 | | 84 | |
| LD030413PSOX,,A/C | 127 | | I | | 74 | | 89 | |

| | Lower Limit | Upper Limit |
|---|---|---|
| SMC #1 = TCX | 40 | 130 |
| SMC #2 = DCB | 40 | 130 |

# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 74946

| | Column #1 | | | | Column #2 | | | |
|---|---|---|---|---|---|---|---|---|
| SAMPLE ID | SMC 1 (%) | # | SMC 2 (%) | # | SMC 1 (%) | # | SMC 2 (%) | # |
| B030413PSOX,RR2,,A/C | 101 | | 86 | | 101 | | 83 | |
| 74946-1,,A/C | 92 | | 79 | | 101 | | 74 | |
| 74946-1,MS,,A/C | 90 | | 78 | | 98 | | 68 | |
| 74946-1,MSD,,A/C | I | | 104 | | 94 | | 107 | |
| 74946-2,1:2,,A/C | 112 | | 89 | | 108 | | 83 | |
| 74946-3,1:5,,A/C | 124 | | 97 | | 90 | | 91 | |
| 74946-4,1:5,,A/C | 89 | | 77 | | 73 | | 63 | |
| 74946-5,1:2,,A/C | 70 | | 62 | | 65 | | 54 | |
| 74946-6,1:2,,A/C | 68 | | 64 | | 65 | | 57 | |
| 74946-7,,A/C | 78 | | 85 | | 75 | | 63 | |

| | | Lower Limit | Upper Limit |
|---|---|---|---|
| SMC #1 = | TCX | 40 | 130 |
| SMC #2 = | DCB | 40 | 130 |

\# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG:

Non-spiked sample: B030413PSOX,,A/C

Spike: L030413PSOX,,A/C

Spike duplicate: LD030413PSOX,,A/C

| COMPOUND | LCS SPIKE ADDED (ug/kg) | LCSD SPIKE ADDED (ug/kg) | LOWER LIMIT | UPPER LIMIT | RPD LIMIT | NON-SPIKE RESULT (ug/kg) | SPIKE RESULT (ug/kg) | SPIKE % REC | # | SPIKE DUP RESULT (ug/kg) | SPIKE DUP % REC | # | RPD | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 200 | 200 | 65 | 140 | 30 | 0 | 177 | 89 | | 264 | 132 | | 39.3 | * |
| PCB 1260 | 200 | 200 | 60 | 130 | 30 | 0 | 159 | 79 | | 200 | 100 | | 23.2 | |
| PCB 1016 #2 | 200 | 200 | 65 | 140 | 30 | 0 | 155 | 78 | | 228 | 114 | | 37.8 | * |
| PCB 1260 #2 | 200 | 200 | 60 | 130 | 30 | 0 | 163 | 82 | | 222 | 111 | | 30.5 | * |

# Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

PCB SOIL
MATRIX SPIKE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG:

Non-spiked sample: 74946-1,,A/C

Spike: 74946-1,MS,,A/C

Spike duplicate: 74946-1,MSD,,A/C

| COMPOUND | MS SPIKE ADDED (ug/kg) | MSD SPIKE ADDED (ug/kg) | LOWER LIMIT | UPPER LIMIT | RPD LIMIT | NON-SPIKE RESULT (ug/kg) | SPIKE RESULT (ug/kg) | SPIKE % REC | # | SPIKE DUP RESULT (ug/kg) | SPIKE DUP % REC | # | RPD | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1016 | 203 | 204 | 65 | 140 | 30 | 0 | 204 | 100 | | 180 | 88 | | 12.6 | |
| PCB 1260 | 203 | 204 | 60 | 130 | 30 | 174 | 263 | 44 | * | 430 | 125 | | 48.4 | * |
| PCB 1016 #2 | 203 | 204 | 65 | 140 | 30 | 0 | 189 | 93 | | 287 | 140 | | 41.4 | * |
| PCB 1260 #2 | 203 | 204 | 60 | 130 | 30 | 166 | 250 | 42 | * | 440 | 134 | * | 54.9 | * |

# Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

MS/MSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

analytics environmental laboratory LLC

# CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

# Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603).430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 4°
3) Received in good condition: Y or N
4) pH checked by: N/A
5) Labels checked by: 3/4/13

Project Name: MAINE ENERGY
Project#: 12-3259.1
Company: SUMMIT
Report to: JOHN CRESSY
Address: 640 MAIN ST.
LEWISTON, ME 04240
Phone: (207) 795-6009
Quote #:
PO# (if required): 12-3259.1

Preservation Code:
Preservation Key: A = HCL, B = 4°C, C = Unpres, D = MeOH, E = HNO3, F = H2SO4, G = Hexane, H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please fill in preservation code here

Matrix Key: C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

| Sample Identification | Sample Date | Sample Time | Field Filtered? Y or N | VOC: 8260 524.2 624 | SVOC: 8270 625 PAH only SIM | Pesticides: 8081 608 | PCB: 8082 608 Soxhlet Y or N | TPH: 8015 (Gas Range) ME4217 | TPH: 8015 (Diesel Range) 8100M ME4125 | EPH: Full or Ranges only TETPH | VPH: Full or Ranges only | Metals: RCRA8 PP13 TAL23 Other** | Matrix | No. of Containers | pH checked | Analytics Sample # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SE-SB-218 (2-4') | 2-20 | 1526 | N | | | | X | | | | | | S | 1 | | 74946 |
| SE-SB-236 (0-2') | 2-20 | 1540 | N | | | | X | | | | | | S | 1 | | -1 |
| SE-SB-236 (2-4') | 2-20 | 1548 | N | | | | X | | | | | | S | 1 | | -2 |
| SE-SB-236 (4-6') | 2-20 | 1553 | N | | | | X | | | | | | S | 1 | | -3 |
| SE-SB-236 (6-8') | 2-20 | 1600 | N | | | | X | | | | | | S | 1 | | -4 |
| SE-SB-236 (8-10') | 2-20 | 1606 | N | | | | X | | | | | | S/C | 1 | | -5 |
| SE-SB-236 (10-12') | 2-20 | 1610 | N | | | | X | | | | | | S | 1 | | -6 |
| SE-SB-236 (12-14') | 2-20 | 1616 | N | | | | X | | | | | | S | 1 | | -7 |
| SE-SB-231 (8-10) | 2-20 | 1240 | N | | | | X | | | | | | S | 1 | | |

Email Results to: JCRESSY@SUMMITENV.COM

Turnaround Time (TAT)
- [ ] 1 Day*
- [ ] 2 Days*
- [ ] 3 Days*
- [ ] 4 Days*
- [ ] 5 Days
- [x] Standard (8-10 business days)

*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: ** List requested metals here
ONLY ANALYZE SE-SB-236 SAMPLES IF PCB RESULTS ABOVE 1 PPM FROM SE-SB-214 ARE REPORTED.

*Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.*

Project Requirements: *Fee may apply

Report Type:
- [ ] MCP*
- [ ] Level II*
- [ ] CTRCP*
- [ ] Level III*
- [ ] DOD*
- [ ] Level IV*
- [x] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI
- Other:

State Standard: (eg. S-1 or GW-1)
EDD Required: Y* N
Type:

Sampler Name (Print): JOHN CRESSY

| | | | | | |
|---|---|---|---|---|---|
| Relinquished By Sampler: | | Date: 2-21 | Time: 9:00 | Received By: | GENERAL COURIER |
| Relinquished By: | General Courier | Date: 2/22/13 | Time: 856 | Received By: | Jaclyn |
| Relinquished By: | | Date: | Time: | Received By: | |

# Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 4.0
3) Received in good condition: Y or N
4) pH checked by:
5) Labels checked by: CE 3/07/22/13

Project Name: MAINE ENERGY
Project#: 12-3259.1
Company: SUMMIT
Report to: JOHN CRESKY
Address: 640 MAIN ST.
LEWISTON, ME 04240
Phone: (207) 795-6009
Quote #:
PO# (if required): 12-3259.1

Preservation Code: B
Preservation Key: A= HCL, B= 4°C, C= Unpres, D = MeOH, E = HNO3, F = H2SO4, G = Hexane, H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please fill in preservation code here

Matrix Key: C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

| Sample Identification | Sample Date | Sample Time | Field Filtered? Y or N | VOC: 8260 524.2 624 | SVOC: 8270 625 PAH only SIM | Pesticides: 8081 608 | PCB: 8082 608 Soxhlet Y or N | TPH: 8015 (Gas Range) ME4217 | TPH: 8015 (Diesel Range) 8100M ME4125 | EPH: Full or Ranges only TETPH | VPH: Full or Ranges only | Metals: RCRA8 PP13 TAL23 Other** | Matrix | No. of Containers | pH checked | Analytics Sample # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SE-SB-218 (2-4') | 2-20 | 1526 | N | | | | X | | | | | | S | 1 | | ~~74881-27~~ |
| SE-SB-236 (0-2') | 2-20 | 1540 | N | | | | X | | | | | | S | 1 | | 74946-1 |
| SE-SB-236 (2-4') | 2-20 | 1548 | N | | | | X | | | | | | S | 1 | | -2 |
| SE-SB-236 (4-6') | 2-20 | 1553 | N | | | | X | | | | | | S | 1 | | -3 |
| SE-SB-236 (6-8') | 2-20 | 1600 | N | | | | X | | | | | | S | 1 | | -4 |
| SE-SB-236 (8-10') | 2-20 | 1606 | N | | | | X | | | | | | S | 1 | | -5 |
| SE-SB-236 (10-12') | 2-20 | 1610 | N | | | | X | | | | | | S | 1 | | -6 |
| SE-SB-236 (12-14') | 2-20 | 1616 | N | | | | X | | | | | | S | 1 | | -7 |
| SE-SB-231 (8-10') | 2-20 | 1240 | N | | | | X | | | | | | S | 1 | | -22 |

Email Results to: KRESKY@SUMMITENV.COM

Turnaround Time (TAT)
- [ ] 1 Day*
- [ ] 2 Days*
- [ ] 3 Days*
- [ ] 4 Days*
- [ ] 5 Days
- [x] Standard (8-10 business days)

*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: ** List requested metals here

ONLY ANALYZE SE-SB-236 SAMPLES IF PCB RESULTS ABOVE 1 PPM FROM SE-SB-214 ARE REPORTED.

*Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.*

Project Requirements: *Fee may apply

Report Type:
- [ ] MCP*
- [ ] Level II*
- [ ] CTRCP*
- [ ] Level III*
- [ ] DOD*
- [ ] Level IV*
- [x] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI

Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y* N

Type:

Sampler Name (Print): JOHN CRESKY

| Relinquished By Sampler: | Date: 2-21 | Time: 9:00 | Received By: GENERAL COURIER |
|---|---|---|---|
| Relinquished By: General Courier | Date: 3/22/13 | Time: 856 | Received By: |
| Relinquished By: | Date: | Time: | Received By: |

Page 5 of 5

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 74946

CLIENT: Summit

PROJECT: Maine Energy

COOLER NUMBER: 255

NUMBER OF COOLERS: 1

**A: PRELIMINARY EXAMINATION:**

1. Cooler received by(initials): JB

DATE COOLER RECEIVED/OPENED: 2/22/13

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N

3a. Enter carrier name and airbill number here: 504730

4. Were custody seals on the outside of cooler? Y N
How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y N/A

6. COC#: _____

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was enough ice used to chill the cooler? Y N Temp. of cooler: 4°C

**B. Log-In:** Date samples were logged in: 3/4/13 By: JB

11. Were all bottles sealed in separate plastic bags? Y N

12. Did all bottles arrive unbroken and were labels in good condition? Y N

13. Were all bottle labels complete(ID,Date,time,etc.) Y N

14. Did all bottle labels agree with custody papers? Y N

15. Were the correct containers used for the tests indicated: Y N

16. Were samples received at the correct pH? Y N/A

17. Was sufficient amount of sample sent for the tests indicated? Y N

18. Were all samples submitted within holding time? Y N

19. Were all containers used within AEL's expiration date?** Y N/A

20. Were VOA samples absent of greater than pea-sized bubbles? Y N/A
(Note:Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatiles data.)

*If NO, List Sample ID's, Lab #s: _____

When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): _____ Date: 3/4/13

**The expiration date is recommended by Analytics Environmental Laboratory and not the method. Therefore this does not mean that the results are non-compliant.

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