PHASE II ENVIRONMENTAL SITE ASSESSMENT

Pathmark Supermarket
410 West 207th Street
New York, New York

PROJECT NO. 191710847

REPORT TO **The Great Atlantic & Pacific Tea Company**
2 Paragon Drive
Montvale, NJ 07645

FOR **Pathmark Supermarket**
410 West 207th Street
New York, New York

ON **Phase II Environmental Site Assessment**

December 8, 2011

Stantec Consulting Services Inc.
5 Dartmouth Drive, Suite 101
Auburn, NH 03032

Phone: (603) 669-8672
Fax: (603) 669-7636

www.stantec.com

Project Manager: Donald F. Moore

Donald F. Moore, P.G
Associate

Senior Associate: David A. Allwine

David A. Allwine
Senior Associate

Table of Contents

Table of Contents (con't)

Tables

Figures

Appendices

1.0 INTRODUCTION

The Great Atlantic and Pacific Tea Company, Inc. (A&P) contracted Stantec Consulting Services Inc. (Stantec) to conduct a Phase II Environmental Site Assessment (ESA) of the Pathmark Supermarket property located at 410 West 207th Street, New York, New York (the "property"). The property consists of two lots; a lot that is owned by A&P (Section 8, Block 2203 Lot 9), and a lot that is leased by A&P (Section 8, Block 2203, Lot 21). This ESA was conducted in general accordance with the American Society of Testing and Materials (ASTM) Standard Practices for Environmental Site Assessments: Phase II ESA Process (ASTM E1903-97) and with Stantec's executed proposal dated April 14, 2011.

1.1 PURPOSE

The purpose of this Phase II ESA was to evaluate the recognized environmental conditions (RECs) identified in a Phase I ESA prepared by Whitestone Associates, Inc. (October 4, 2007) and in a Phase I ESA prepared by EBI Consulting (October 7, 2010). Stantec relied upon these reports and has not conducted an independent assessment for actual or potential RECs at or nearby the subject property. The identified RECs include:

- A gasoline station operated in the northeastern portion of the property from 1947 to 1968;
- The site may have been filled with material imported from off-site sources during development. The fill may have unknown origins and has the potential to contain contaminant concentrations above regulatory cleanup criteria; and
- The site building utilizes two hydraulic elevators. Potential releases of hydraulic fluid from the underground elevator cylinders could have impacted soil and groundwater at the site.

1.2 SCOPE OF SERVICES

The scope of work for this assessment was in general accordance with ASTM E1903-97 and Stantec's proposal dated April 14, 2011. The methodologies used represent good commercial and customary practice for conducting a Phase II ESA of a property for the purpose of evaluating RECs.

The general scope of work included the following tasks:

- Review of existing information;
- Field exploration including the advancement of test borings, installation of temporary monitoring wells, and elevator inspections;

- Sampling and chemical analyses of selected soil samples, groundwater samples, and water/oil sample from standing water in elevator shaft;
- Evaluation of results; and
- Discussion of findings and conclusions

1.3 LIMITATIONS AND EXCEPTIONS OF ASSESSMENTS

This report has been prepared in accordance with generally accepted environmental methodologies referred to in ASTM E1903-97 and contains all of the limitations inherent in those methodologies. No other warranties, expressed or implied, are made as to the professional services provided under the terms of Stantec's contract and included in this report.

1.4 LIMITING CONDITIONS AND METHODOLOGIES USED

No ESA can eliminate all uncertainty. Furthermore, any sample, either surface or subsurface, taken for chemical analysis may or may not be representative of the property as a whole. Professional judgment and interpretation are inherent in the process and uncertainty is inevitable. Additional assessment may be able to reduce the uncertainty.

Even when Phase II ESA work is executed with an appropriate site-specific standard of care, certain conditions present difficult detection problems. Such conditions may include complex geological settings, the fate and transport characteristics of certain hazardous substances and petroleum products, the distribution of existing contamination, physical limitations imposed by the location of utilities and other man-made objects, and the limitations of assessment technologies.

Phase II ESAs do not generally require an exhaustive assessment of environmental conditions at a property. There is a point at which the cost of information obtained and the time required to obtain it outweigh the usefulness of the information and, in fact, may be a detriment to the completion of transactions. If hazardous substance or petroleum releases are confirmed on a parcel of property, the extent of further assessment is related to the degree of uncertainty that is acceptable to the user with respect to a real estate transaction.

Measurements and sampling data only represent the site conditions at the time of data collection. Therefore, the usability of data collected as part of this Phase II ESA may have a finite lifetime depending of the application and use being made of the data. An environmental professional should evaluate whether the generated data are appropriate for any subsequent use beyond the original purpose for which it was collected.

Evaluation of data generated through Phase II Environmental Assessment may trigger regulatory notification and subsequent actions for compliance with federal, state or local rules and regulations. Stantec takes no responsibility for such notifications or compliance if warranted or any other responsibility to a third party. Stantec will assist the Client if requested should such conditions exist that trigger notifications and response actions.

2.0 BACKGROUND

2.1 SITE DESCRIPTION AND FEATURES

The subject property is located at 410 West 207th Street, New York, New York and consists of a Pathmark supermarket located in the western portion of the property and associated paved parking areas in the eastern portion. The Site encompasses 2.285 acres and is rectangular in shape. The Site consists of two lots; a lot that is owned by A&P (Section 8, Block 2203 Lot 9), and a lot that is leased by A&P (Section 8, Block 2203, Lots 21).

The site location is shown on Figures 1 and 2.

2.2 PHYSICAL SETTING

The property is currently used as a Pathmark supermarket/grocery store. The property is located at an elevation of approximately 20 feet above mean sea level (msl). The topography of the property is relatively flat and slopes gently to the southeast. Two artificial basins are located on the western portion of the property. The property is located in a relatively flat area with the general slope of the surrounding area is to the southeast. No natural surface water bodies were identified on or adjacent to the property. The nearest surface water feature is the Harlem River, located approximately 1,000 feet southeast of the property (see Figure 1).

The site building is currently serviced by electricity, natural gas, public water, and municipal sanitary sewer. Underground electric, natural gas, and water lines enter the property from 206th Street to the south. Underground sanitary sewer lines enter the property from 207th Street to the north.

2.3 CURRENT AND PAST USES OF THE PROPERTY

The property is currently occupied by a Pathmark supermarket located in the A&P-owned, western portion of the property. The eastern, leased portion of the property and the roof of the site building are utilized as parking areas. According to the aforementioned Phase I ESA reports, the site building was constructed in 1988 and has been utilized as a supermarket/grocery store since its initial construction. It is reported that:

- From 1926 to at least 1963, the property was occupied by Miramar Baths, which consisted of a three-story structure located in the northern portion of the site that contained a restaurant, locker rooms and dance hall, and a swimming pool located in the northwestern portion of the site.

- From 1947 to 1968, a gasoline station was located in the northeastern area of the leased portion of the site.

- From 1925 to 1968, an automobile garage and office had been located in the southeastern area of the leased portion of the site.

2.4 ADJACENT PROPERTY USE

Property use in the vicinity of the Pathmark property is primarily characterized by residential and retail/commercial development:

North The Pathmark property is bounded to the north by West 207th Street, beyond which is a Hess Service Station.

South The Pathmark property is bounded to the south by West 206th Street, beyond which is a residential apartment building and an auto repair facility (Westside Auto Repair).

East The Pathmark property is bounded to the east by 9th Avenue, beyond which is Beer and Soda Wholesale.

West The Pathmark property is bounded to the west by apartment and retail buildings, beyond which is 10th Avenue.

3.0 PHASE II ACTIVITIES

3.1 TEST BORINGS

On July 19, 2011, total of three soil borings were advanced at the site using a direct push (Geoprobe®) drill rig by Hawk Drilling of Washington, NJ. Prior to drilling, Dig Safely New York was contacted to clear utilities at each location. Hawk Drilling also cleared each boring location to five-feet below land surface (bls) using an air knife before proceeding with the drilling operations.

The three borings (identified as B-101, B-102, and B-103 on Figure 2) were drilled on July 19, 2011 to predetermined depths of 5 to 7 feet below the field identified water table, which was encountered at approximately 9 feet bls. Each boring was subsequently advanced to 16 feet bls. B-101 was advanced on the A&P-owned lot near the southeast side of the site building to evaluate potential release(s) associated with the hydraulic elevators; B-102 and B-103 were advanced in the northeastern area of the leased portion of the property to evaluate potential release(s) associated with the former gasoline station.

Soil samples were collected continuously, via Macrocore sampling, and visually classified. Soil samples were also screened in the field for volatile organic compounds (VOCs) using a properly calibrated photo-ionization detector (PID). Selected soil samples were submitted for laboratory analysis based on the presence of field evidence of contamination (visual, olfactory, or PID). If

no field evidence of contamination was noted, the soil sample from just above the field-identified water table was selected.

On October 24, 2011, two additional soil borings (B-104 and B-105 on Figure 2) were advanced on the A&P-owned lot in the approximate central portion of the parking lot. Prior to drilling, a detailed survey map of the property was evaluated. The property line between the A&P owned lot (Block 2203 Lot 9) and the leased lot (Block 2203, Lot 21) was identified from this map at 130 feet east of the supermarket building. Borings B-104 and B-105 were subsequently drilled 110 feet east of the supermarket building.

At the B-104 location, refusal on fill type material (such as brick and wood) was encountered at six locations at depths ranging from 3 to 6 feet bls. Eventually the boring was able to be advanced beyond this interval and was continued to depth. No refusal was encountered at the B-105 location. A third boring was also attempted on 10/24/11 near the supermarket building. However, refusal on fill material was again encountered at similar depths of 3 to 6 feet bls at this location. Due to time constraints, this boring location was abandoned after several attempts. Geoprobe drilling and sampling were conducted in the same manner as describe above.

Soil description and headspace readings are provided on the boring logs presented in Appendix A.

3.2 TEMPORARY MONITORING WELL INSTALLATION

Following completion of the boreholes to the selected depth (5-7 feet below the field-identified water table), temporary 1-inch polyvinyl chloride (PVC) wells were installed to allow for the collection of groundwater samples for laboratory analysis. Temporary well completion details are presented in Table 1. The wells were developed to reduce the amount of fines in the collected groundwater samples. Prior to sampling, the wells were gauged for water level.

After well development and gauging, groundwater samples were collected from temporary wells B-101 to B-103 on July 19, 2011 and from temporary wells B-104 and B-105 on October 24, 2011 using dedicated equipment (HDPE tubing and peristaltic pumps) and submitted for laboratory analysis.

3.3 ELEVATOR INSPECTIONS

On August 25, 2011 Stantec met with A&P's elevator vendor Liberty Elevator (Liberty) on site to inspect the two elevators located in the site building. The elevator located on the western side of the building (see Figure 2) is an 8'x8' freight elevator at the rear of the building near the loading dock. Liberty raised and secured the elevator, and opened the doors to reveal the pit. The pit had approximately 4-inches of water in the bottom concrete floor. The elevator piston had visible score marks/scratches along its exposed length. There was a 5-gallon bucket set in the pit, adjacent to the piston to apparently capture leaking hydraulic fluid. According to Liberty, 10 gallons of #32 hydraulic fluid was added in January 2011, 5-gallons in March 2011, and 5 gallons in July 2011. Stantec could not determine the origins of the observed water in the

bottom of the elevator pit. The pit has a sump pump that pumps into a second sump located in an adjoining elevator mechanical room. The water from the second sump is then pumped out through a piping system to a destination that could not be determined by Stantec. The fluid in this pit was also observed to have a visible sheen.

The second elevator shaft, located on the eastern side of the building, was also inspected by Stantec after Liberty raised and secured the elevator. This pit was of similar size. Stantec observed some water in the bottom of the pit, but it did not totally cover the concrete floor. Stantec observed no evidence of oil leakage in this second elevator shaft.

3.4 SAMPLING AND CHEMICAL ANALYSES

3.4.1 Soil

The following soil samples were submitted for chemical analysis.

- B-101 (4.8-6.1 ft bls), based on field evidence of contamination.
- B-102 (6.5-7.0 ft bls), based on field evidence of contamination.
- B-103 (6.5-7.3 ft bls), based on field evidence of contamination.

- B-104 (8.0-10.0 ft bls), based on field-identified water table.
- B-105 (8.0-10.0 ft bls), based on field-identified water table.

The soil samples were submitted to Spectrum Analytical Inc., a New York State certified laboratory, of Agawam, Massachusetts for analysis of VOCs via EPA Method 8260B, polynuclear aromatic hydrocarbons (PAHs) via EPA Method 8270C, and RCRA metals by EPA 200/6000/7000 series methods. .

3.4.2 Groundwater

The following groundwater samples were submitted for chemical analysis during the July 19, 2011 sampling event.

- B-101
- B-102
- B-103

The groundwater samples were submitted to Spectrum for analysis of VOCs via EPA Method 8260B, PAHs via EPA Method 8270C, and RCRA metals by EPA 200/6000/7000 series methods. One trip blank for VOC analysis accompanied the soil and groundwater samples for control/quality assurance purposes.

The following groundwater samples were submitted for chemical analysis during the October 24, 2011 sampling event.

- B-104
- B-105

The groundwater samples were submitted to Spectrum for analysis of VOCs via EPA Method 8260B, PAHs via EPA Method 8270C, and RCRA metals by EPA 200/6000/7000 series methods. One trip blank for VOC analysis accompanied the soil and groundwater samples for control/quality assurance purposes. Please note that the two sample bottles for PAH analysis from B-105 were broken during shipment to the laboratory. Therefore, PAH results from B-105 are not available.

3.4.3 Other

Stantec collected a sample of the fluid (oil and water) from the elevator shaft located at the rear/western portion of the site building. The sample was collected into a one liter amber glass bottle and transported to Spectrum for analysis. During transit, approximately 2-3 hours, the oil separated from the water within the liter glass bottle into a distinct layer. Stantec therefore instructed the laboratory to analyze the oil matrix layer for polychlorinated biphenyls (PCBs) by EPA Method 8082.

4.0 RESULTS

4.1 GEOLOGY

According to available maps and information, the site is located within the Manhattan Prong of the New England Uplands Physiographic Province. Bedrock underlying the site is mapped as the Manhattan Schist, which includes pelitic schist and amphibolites.

Approximately six-inches of asphalt and base material (1" to 1.5" stone) were encountered at each location. Underlying the pavement, the soils encountered during the drilling activities generally consisted of fine to medium sand in varying layers to depths ranging from 13 ft bls at B-101 to 16 ft bls at B-102. At B-101, from 13 to 13.5 ft bls, B-103, from 14.5 to 16 ft bls, and from 14 to 16 ft at B-104 and B-105, a layer of sand with organics was encountered. This sand with organic material may be indicative of original or native ground surface, which could suggest the sandy material overlying the sand with organic layer is fill material. At B-101, a clayey silt layer was encountered from 13.5 to 16 ft bls. Bedrock was not encountered at any of the five borings.

4.2 HYDROLOGY

Depth to groundwater in the borings, as observed during drilling activities and as measured in the temporary wells, ranged from 9.2 ft bls in B-103 to 13.1 ft bls in B-101 on July 19 and approximately 10 ft bls in B-104 and B-105 on October 24 (see Table 1). Since the purpose of

the temporary wells was to act as a means of collecting groundwater samples for chemical analysis, a survey of measuring point elevations was not conducted. Therefore, groundwater flow direction at the site was not determined.

4.3 SOIL SCREENING RESULTS

The soil sample PID field screening results for soil samples collected from the Geoprobe borings indicated the presence of VOCs at concentrations elevated above background (nominally 0 parts per million by volume [ppmv]) in several samples. Measured PID concentrations in the top four to five feet of overburden material were 0.0 ppmv at B-101, 0.0 to187 ppmv at B-102, and 20.3 ppmv at B-103. PID readings in the soil samples collected from 5 to 16 feet bls ranged from 0.0 to 1.2 ppmv at B-101, from 462 to 858 ppmv at B-102, and from 72 to 1275 ppmv at B-103.

PID readings in the soil samples collected from B-104 and B-105 were consistently measured at levels between 0.3 and 1.1 ppmv.

Although there are no regulatory criteria for VOC vapors in soil, PID readings are often used as a field screening tool to practically identify soils impacted with VOCs and/or petroleum hydrocarbons. As previously noted, the soil sample from each boring exhibiting the greatest evidence of impacts (at B-101 through B-103) was subsequently submitted for laboratory analysis. The PID readings are provided on the attached borehole logs. Laboratory analytical results for soil samples are discussed in Section 4.4.2.

4.4 LABORATORY ANLAYTICAL RESULTS

4.4.1 Applicable Standards

In October 2010, the New York State Department of Environmental Conservation (NYSDEC) issued CP-51/Soil Cleanup Guidance, which applies to each of the remedial programs administered by NYSDEC's Division of Environmental Remediation (including the Inactive Hazardous Waste Disposal Site Remediation Program, the Brownfield Cleanup Program, Voluntary Cleanup Program, and the Spill Response Program). The new guidance replaces Technical Administrative Guidance Memorandum ("TAGM") 4046: Determination of Soil Cleanup Objectives and Cleanup Levels, dated January 24, 1994.

Therefore, in accordance with NYSDEC Policy – CP-15/Soil Cleanup Guidance, dated 10/21/10, the reported analytical concentrations for the analyzed constituents detected in soil at the property were compared to the unrestricted Soil Cleanup Objectives (SCOs) provided in 6 NYCCR Table 375-6.8(a). As described in the CP-15/Soil Cleanup Guidance (Section V, F) "the SCOs may be used to identify areas of soil contamination and to determine the extent of soil contamination, and that the exceedance of one or more applicable SCOs or Supplemental SCOs (which is the lower of protection of public health, protection of groundwater, or protection of ecological resources soil cleanup objectives), alone does not trigger the need for remedial

action, define “unacceptable” levels of contaminants in soil, or indicates that a site qualifies for any DEC remedial program.”

Reported analytical groundwater results for the analyzed constituents were compared to NYSDEC Technical and Operational Guidance Series (TOGS) groundwater standards and guidance values.

There are no promulgated free-phase product cleanup standards in New York. It is also uncertain if the standing water (with visible oil sheen) observed in the elevator pit is contained in this pit or is impacting groundwater. Therefore it is recommended that the Division of Environmental Remediation Spill Response Guidance Policy – Spill Guidance Manual, which discusses evaluating and remediating free-phase product, be utilized going forward.

4.4.2 Soil Analytical Results

Soil analytical results along with the appropriate unrestricted SCOs are summarized in Table 2. Neither VOCs, PAHs, nor RCRA metals were detected above SCOs in the soil samples from B-101, B-103, and B-104.

Several VOCs, primarily gasoline related compounds, were detected in the soil sample collected from B-102 at concentrations above SCOs. One PAH compound (naphthalene) was reported above its SCO in the B-102 soil sample. Three RCRA metals (cadmium, chromium, and lead) were also reported above their respective SCOs in the B-102 soil sample.

Neither VOCs nor PAHs were detected above SCOs in the soil samples from B-105. One RCRA metal (lead at 70.6 mg/kg) was reported above its respective SCO of 63 mg/kg in the B-105 sample

4.4.3 Groundwater Analytical Results

Groundwater analytical results along with the appropriate NYSDEC TOGS Groundwater Standards and guidance values are summarized in Table 3. Neither VOCs, PAHs, nor RCRA metals were detected above TOGS Groundwater Quality Standards in the groundwater samples from B-101, B-104 or B-105.

Several gasoline related VOCs and one PAH (naphthalene) were detected in the groundwater samples from B-102 and B-103 at concentrations above TOGS Groundwater Quality Standards.

No RCRA metals were detected above TOGS Groundwater Quality Standards in the groundwater samples from B-102 or B-103.

4.4.4 Other

Results of the PCB analysis on the oil matrix/layer from the standing water in the elevator shaft are presented in Table 4. The standard practice for this type of analysis is for the oil to be

analyzed by weight, therefore the results are presented in micrograms per kilogram (ug/kg) units.

As shown on Table 4, there were no PCBs detected above laboratory reporting limits in this oil matrix sample.

5.0 CONCLUSIONS

Stantec, on behalf of A&P, has completed a Phase II Environmental Site Assessment (ESA) of the property located at 410 West 207th Street, New York, New York. The recognized environmental conditions assessed as part of this Phase II ESA were a former gasoline station located in the northeastern area of the leased portion of the site, fill material imported from off-site sources that may contain contaminants, and two hydraulic elevators within the site building.

The assessments performed to evaluate the RECs were the installation and sampling of five soil borings and five temporary monitoring wells at the property (B-101 near the site building on the A&P owned lot, B-102 and B-103 in the vicinity of the former gasoline station in the northeastern area of the leased lot, and B-104 and B-105 in the northeastern area of the A&P-owned lot), along with a visual inspection of the two elevator shafts/pits within the site building. In addition to the analysis of selected soil and groundwater samples, a sample of the oil observed at the bottom of one of the elevator pits was analyzed. The purpose of this work was to evaluate potential impacts to soil and groundwater quality at the property. Based on the data presented above, the following conclusions can be made:

- Most soils encountered during the drilling activities generally consisted of fine to medium sand, which were indicative of fill material.
- Depth to groundwater ranged from approximately 9 to 13 feet below ground surface.
- Field screening of soil samples from the Geoprobe borings indicated olfactory evidence of contamination (petroleum odors) in the top seven feet in B-102. Elevated PID readings were also observed in samples collected from borings B-102 and B-103.
- Gasoline-related VOCs and one PAH compound (naphthalene) were detected at concentrations above SCOs in the soil sample collected from B-102.
- Three RCRA metals (cadmium, chromium, and lead) were reported above their respective SCO in the B-102 soil sample. One RCRA metal (lead) was reported above its respective SCO in the B-105 soil sample.

- VOCs, PAHs, and RCRA metals were not detected above Groundwater Quality Standards in the groundwater sample collected from B-101, B-104, and B-105.
- RCRA metals were not detected above Groundwater Quality Standards in the groundwater sample collected from B-102 and B-103.
- Gasoline-related VOCs were detected at concentrations above Groundwater Quality Standards in the groundwater samples collected from B-102 and B-103.
- One PAH compound (naphthalene) was reported above its Groundwater Quality Standard in the B-102 and B-103 groundwater samples.
- PCBs were not detected above laboratory reporting limits in the elevator pit oil sample.

The soil and groundwater analytical results do not indicate impacts on the A&P-owned lot from the former gasoline station located on the A&P-leased lot.

6.0 RECOMMENDATIONS

Based on the results of this assessment the following further work is recommended:

- Construction plans and/or specifications of the elevator shaft(s) and site building should be reviewed, if available, to evaluate the potential source of observed standing water in the elevator shafts, and the discharge point for water pumped from the elevator sumps.
- Advance hand augers or Geoprobe borings through the bottom of the elevator shaft and/or at loading dock area to evaluate potential hydraulic oil releases to underlying soils and groundwater from the elevator.

LIMITATIONS

1. The conclusions presented in this report are based on soil and groundwater data collected from widely-spaced explorations targeting areas of suspected contamination based on Stantec's site reconnaissance and review of available information.
2. The conclusions presented on this report rely on the soil and water quality data provided by the subcontracted analytical laboratory and has not been independently confirmed and validated.
3. Soil and groundwater samples were analyzed for suspected parameters based on available information indicating the types of operations that have been performed and the suspected types of chemicals used and stored at the site. Other operations or uses

may have occurred at the Site that were not identified in our review of available information or were not communicated during interviews with knowledgeable individuals at the site.

4. Groundwater and soil contaminant concentrations fluctuate due to subsurface heterogeneities, variations in moisture content, biodegradation, natural attenuation, seasonal variations, and other factors.

5. Sampling methods employed were selected to meet the objectives of identifying the potential presence of subsurface contamination and are consistent with standard industry practice for due diligence assessments. These sampling methods were not designed to meet requirements for regulated release sites.

6. No environmental site assessment can wholly eliminate uncertainty regarding the existence of contamination in connection with a property. This study was designed to reduce, but not wholly eliminate, uncertainty regarding the existence of such conditions in a manner that recognizes reasonable limits of time and cost. Based on the scope of work, Stantec cannot warrant subsurface conditions in areas not tested.

7. This report has been prepared for the exclusive use of A&P (the Client) by the authority of Mr. David O'Sullivan and should not be reproduced or disseminated without the written approval of Stantec and the Client. Stantec has retained a copy of this report. No additions or deletions are permitted without the express written consent of Stantec. Use of this report in whole or in part by parties other than the Client is prohibited.

TABLES

Table 1
Well Construction Details
A & P Pathmark: 410 West 207th Street, NY, NY

Well No	Well Type	Date of Installation	Total Depth (ft bls)	Depth to Bedrock (ft bls)	Screened Interval Bot (ft bls)		Top (ft bls)	Depth to Water 7/19/2011 (ft bls)
B-101	TWT	7/19/2011	16.0	NE	16	-	6	13.1
B-102	TWT	7/19/2011	16.0	NE	16	-	6	9.3
B-103	TWT	7/19/2011	16.0	NE	16	-	6	9.2
B-104	TWT	10/24/2011	16.0	NE	16	-	6	10.0 *
B-105	TWT	10/24/2011	16.0	NE	16	-	6	9.9 *

Notes:
TWT = Temporary Water Table
ft bls = Feet below land surface
NE = Not encountered
* = Water levels measured in B-104 and B-105 on 10/24/11

Table 2
Summary of Soil Analytical Results
A & P Pathmark: 410 West 207th Street, NY, NY

Analyte/Method[1]	units[2]	NYSDEC Soil Cleanup Objectives [3]	Sample ID						
			B-101	B-102	B-103	Trip Blank	B-104	B-105	Trip Blank
Sample Depth	feet		4.8-6.1	6.5-7.0	6.5-7.3		8.0-10.0	8.0-10.0	
Sample Collection Date			7/19/2011	7/19/2011	7/19/2011	7/19/2011	10/14/2011	10/24/2011	10/24/2011
Volatile Organic Compounds (VOCs) by EPA Method 8260B									
n-Butylbenzene	mg/kg	12		**59.1**	1.610				
sec-Butylbenxene	mg/kg	11		**20.7**	0.499				
Ethylbenzene	mg/kg	1		**15.4**					
Isopropylbenzene	mg/kg	NS		30.9	0.404				
4-Isopropyltoluene	mg/kg	NS		10.4					
Methylene Chloride	mg/kg	0.05	0.0013 J				0.0047 J	0.0031 J	
Naphthalene	mg/kg	12		**140.0**			0.0308		
n-Propylbenzene	mg/kg	3.9		**111.0**	2.14				
1,2,4-Trimethylbenzene	mg/kg	3.6		**184.0**	0.146				
1,3,5-Trimethylbenzene	mg/kg	8.5		**60.5**					
Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8270C									
Acenaphthene	mg/kg	20				NA	0.0485 J		NA
Anthracene	mg/kg	100					0.135 J		
Benzo(a)anthracene	mg/kg	1			0.0328 J	NA	0.232	0.0319 J	NA
Benzo(a)pyrene	mg/kg	1				NA	0.202	0.0347 J	NA
Benzo(b)fluoranthene	mg/kg	1				NA	0.172 J	0.0218 J	NA
Benzo(g,h,i)perylene	mg/kg	100				NA	0.117 J		NA
Benzo(k)fluoranthene	mg/kg	0.8				NA	0.156 J	0.0395 J	NA
Chrysene	mg/kg	1			0.0328 J	NA	0.194	0.0319 J	NA
Dibenz(a,h)anthracene	mg/kg	0.33				NA			NA
Fluoranthene	mg/kg	100			0.0657 J	NA	0.546	0.0676 J	NA
Flourene	mg/kg	30			0.0838 J	NA	0.0597 J		NA
Indeno(1,2,3-cd)pyrene	mg/kg	0.5				NA	0.117 J		NA
1-Methylnaphthalene	mg/kg	NS		27.7	0.308	NA			NA
2-Methylnaphthalene	mg/kg	NS		54.3	0.436	NA			NA
Naphthalene	mg/kg	12		**56.3**		NA			NA
Phenanthrene	mg/kg	100			0.155 J	NA	0.479	0.0350 J	NA
Pyrene	mg/kg	100			0.0768 J	NA	0.442	0.0537 J	NA
Total Metals by EPA 200 Series Methods									
Silver	mg/kg	2			0.326 J	NA		0.300 J	NA
Arsenic	mg/kg	13	0.243	4.36	0.704 J	NA	2.74	0.648 J	NA
Barium	mg/kg	350	8.87	266	19.0	NA	50.7	68.1	NA
Cadmium	mg/kg	2.5		**2.67**		NA	0.466 J	0.910	NA
Chromium	mg/kg	30	6.07	**37.1**	17.8	NA	17.6	21.1	NA
Mercury	mg/kg	0.18		0.103	0.109	NA	0.0225 J	0.0849	NA
Lead	mg/kg	63	0.957 J	**175**	5.32	NA	14.4	**70.6**	NA
Selenium	mg/kg	3.9		0.380			0.585 J	0.653 J	

Notes:

[1] Only detected compounds listed - all others below laboratory detection limits

[2] mg/kg = miligrams per kilogram = parts per million (ppm)

[3] Unrestricted Use Soil Cleanup Objectives from 6 NYCCR Table 375-6.8(a).

Bold = concentration exceeds Soil Cleanup Objectives

NS = No Standard

NA = Not Analyzed

J = Detected above Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration.

Table 3
Summary of Groundwater Analytical Results
A & P Pathmark: 410 West 207th Street, NY, NY

Analyte/Method[1]	units[2]	NYSDEC TOGS Groundwater Quality Standard[3]	Sample ID						
			B-101	B-102	B-103	Trip Blank	B-104	B-105	Trip Blank
Sample Collection Date			7/19/2011	7/19/2011	7/19/2011	7/19/2011	10/24/2011	10/24/2011	10/24/2011
Volatile Organic Compounds (VOCs) by EPA Method 8260B									
Acetone	µg/l	50 *	<10.0	11.6			4.7 J	4.0 J	
Benzene	µg/l	1	<1.0	**3.6**	**10.7**				
2-Butanone (MEK)	µg/l	50 *	<10	2.7 J					
n-Butylbenzene	µg/l	5	<1.0	**54.2**	**56.1**				
sec-Butylbenzene	µg/l	5	<1.0	**30.3**	**24.2**				
tert-butylbenzene	µg/l	5	<1.0	4.3					
Carbon disulfide	µg/l	NS	<2.0	0.7 J					
Ethylbenzene	µg/l	5	<1.0	**46.6**	**12.3**				
Isopropylbenzene	µg/l	5	<1.0	**129 E**	**128**				
4-Isopropyltoluene	µg/l	5	<1.0	**10**					
Methyl tert butyl ether	µg/l	NS	0.7 J						
Naphthalene	µg/l	10 *	1.0	**182 E**	**133**		1.0		
n-Propylbenzene	µg/l	5	0.8 J	**311 E**	**383**				
Toluene	µg/l	5	<1.0	2.6					
1,2,4-Trimethylbenzene	µg/l	5	<1.0	**172 E**					
1,3,5-Trimethylbenzene	µg/l	5	<1.0	**51.3**					
m,p-Xylene	µg/l	5	<2.0	**10.5**					
o-Xylene	µg/l	5	<1.0	3.4					
Total Xylenes	µg/l	NS	<3.0	13.9					
Tert butyl alcohol	µg/l	NS	<10.0	9.0 J					
Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8270C									
Anthracene	µg/l	50 *	<6.33		1.22 J	NA	0.945 J	NT	NA
Benzo (a) anthracene	µg/l	0.002 *				NA	2.14 J	NT	NA
Benzo(a)pyrene	µg/l	NS				NA	1.82 J	NT	NA
Benzo(b)fluoranthene	µg/l	0.002 *				NA	1.37 J	NT	NA
Benzo(g,h,i)perylene	µg/l	NS				NA		NT	NA
Benzo(k)fluoranthene	µg/l	0.002 *				NA	1.84 J	NT	NA
Chrysene	µg/l	0.002 *				NA	1.71 J	NT	NA
Fluoranthene	µg/l	50				NA	3.87 J	NT	NA
Fluorene	µg/l	50 *	<6.33		1.22 J	NA		NT	NA
1-Methylnaphthalene	µg/l	NS	<6.33	57.8	22.7	NA		NT	NA
2-Methylnaphthalene	µg/l	NS	<6.33	25.9	28.5	NA		NT	NA
Naphthalene	µg/l	10 *	<6.33	**52.6**	**32.4**	NA		NT	NA
Phenanthrene	µg/l	50 *	<6.33		2.00 J	NA	3.13 J	NT	NA
Pyrene	µg/l	50 *				NA	3.84 J	NT	NA
Total Metals by EPA 200/6000/7000 Series Methods									
Arsenic	mg/l	0.025				NA	0.0107		NA
Barium	mg/l	1	0.372	0.335	0.451	NA	0.540	0.181	NA
Cadmium	mg/l	0.005	<0.0025	0.003 J	0.0004 J	NA	0.0008 J		NA
Chromium	mg/l	0.050				NA		0.0138	NA
Mercury	mg/l	0.0007	0.00007 J			NA			NA
Lead	mg/l	0.025	<0.0075	0.0120		NA			NA
Field Parameters									
pH	units		NA	6.90	6.84	NA	6.68	7.05	NA
Specific Conductivity	umhos/cm		NA	5,120	5,710	NA	5,880	2,800	NA

Notes:

[1] Only detected compounds listed - all others below laboratory detection limits

[2] µg/l = micrograms per liter = parts per billion (ppb)

[3] NYSDEC Technical and Operational Guidence Memo 1.1.1 Groundwater Quality Standard

[*] Guidence Value

Bold = concentration exceeds Groundwater Quality Standard

NS = No Standard

NA = Not Analyzed

NT = Not Tested, sample bottles broken during shipment to laboratory.

J = Detected above Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration.

E = Concentration indicted is an estimated value.

Table 4
Summary of Elevator Pit Oil Analytical Results
A & P Pathmark: 410 West 207th Street, NY, NY

Analyte/Method	units[1]	Sample ID
		Oil
Sample Collection Date		**8/25/2011**
Polychlorinated Biphenylls (PCBs) by EPA Method 8082A		
Aroclor - 1016	µg/kg	< 160
Aroclor - 1221	µg/kg	< 197
Aroclor - 1232	µg/kg	< 162
Aroclor - 1242	µg/kg	< 217
Aroclor - 1248	µg/kg	< 186
Aroclor - 1254	µg/kg	< 102
Aroclor - 1260	µg/kg	< 145
Aroclor - 1262	µg/kg	< 341
Aroclor - 1268	µg/kg	< 132

Notes:

[1] µg/kg = micrograms per kilogram = parts per billion (ppb)

FIGURES

MAP SOURCE:

MICROSOFT RESEARCH MAPS

USGS CENTRAL PARK [NY] QUAD
40.8637'N, 73.9175'W (NAD83/WGS84)

NORTH

NEW YORK

2000 0 2000

Scale in feet

File: NY_8-18-11.dwg
AUGUST, 2011
191710847

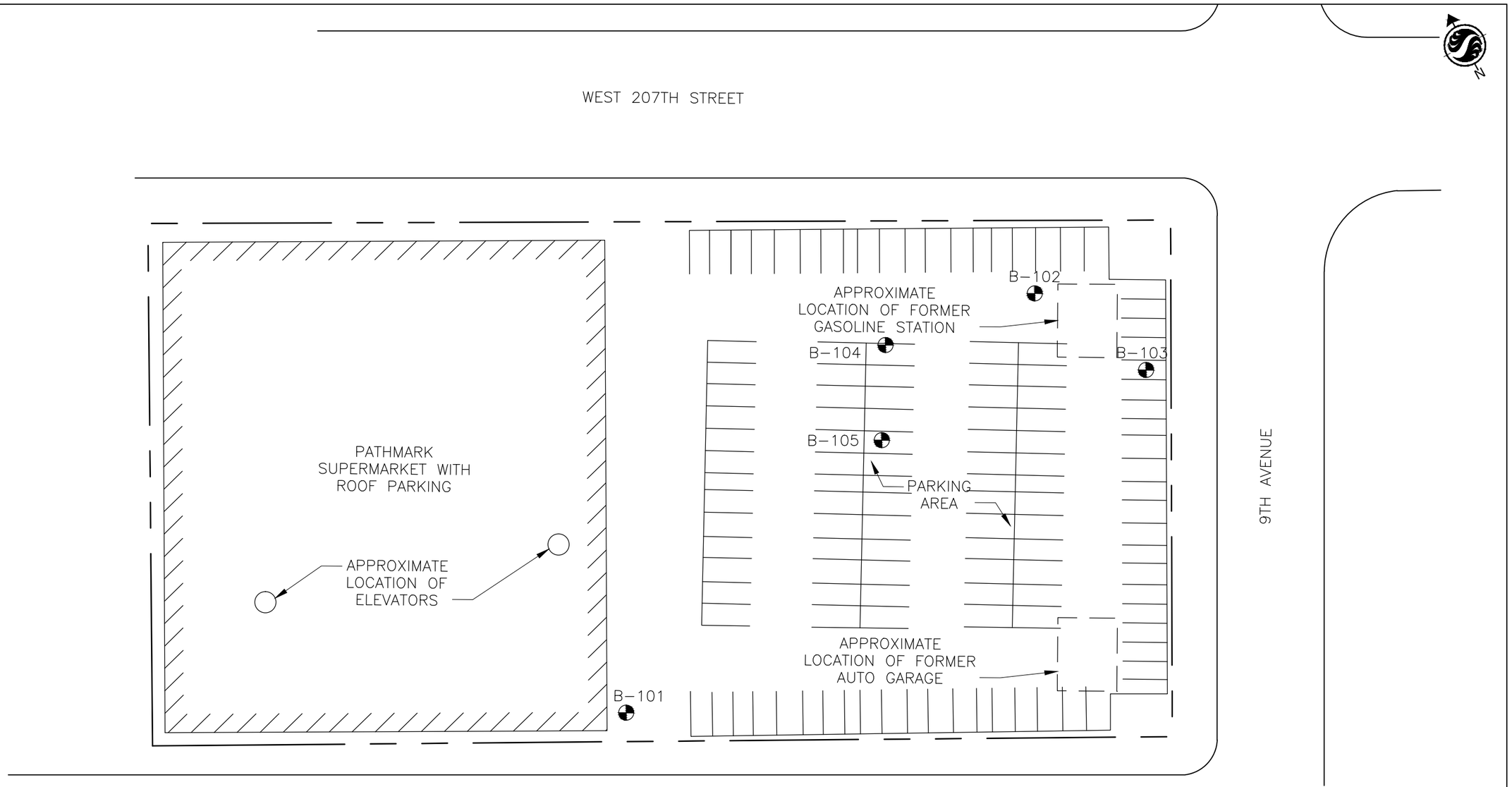
ORIGINAL SHEET – ANSI A

Stantec Consulting Services Inc.
5 Dartmouth Drive, Suite 101
Auburn NH U.S.A.
03032-3984
Tel. 603.669.8672
Fax. 603.669.7636
www.stantec.com

Client/Project
THE GREAT A&P TEA COMPANY
PATHMARK SUPERMARKET
410 WEST 207TH ST NY, NY

Figure No.
1.0

Title
SITE LOCATION MAP



ORIGINAL SHEET – ANSI B

File: NY_8-18-11.dwg
AUGUST, 2011
191710847

Stantec Consulting Services Inc.
5 Dartmouth Drive, Suite 101
Auburn NH U.S.A.
03032–3984
Tel. 603.669.8672
Fax. 603.669.7636
www.stantec.com

Legend

B–101 – BORING LOCATION (APPROXIMATE)

Notes

THIS PLAN BASED UPON BASE PLAN PROVIDED BY WHITESTONE ASSOCIATED, INC.

0 40' 80'

Client/Project
THE GREAT A&P TEA COMPANY
PATHMARK SUPERMARKET
410 WEST 207TH ST NY, NY

Figure No.
2.0

Title
BORING LOCATION PLAN

APPENDIX A

Boring Logs

BOREHOLE LOG

B-101

Stantec

CLIENT **A&P**

LOCATION **410 West 207th Street, Inwood, NY**

EXPLORATION DATE **7/19/2011 to 7/19/2011**

WATER LEVEL **13.1**

PROJECT No. **191710847**

EXPLORATION No. **B-101**

DATUM **Ground Surface**

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY (in.)	SPT blows / 6"	SPT N-Value	PID Reading (PPM)
0		Asphalt base								
		Clear boring to 4 feet below grade using an air knife Large cobble at 4 feet			GRAB	1				0.0
		Dark brown fine to medium SAND*								1.2
5		Very pale yellow medium SAND			PUSH	2	41			0.0
		Red/brown fine SAND								
		Red/brown silty fine SAND			PUSH	3	24			0.0
10		Dark brown silty fine SAND and organics		▽						
		Olive clayey SILT with some fine sand			PUSH	4	36			0.0
15		Boring terminated at 16 feet below ground surface. No refusal encountered. Temporary 1-inch PVC monitoring well installed to collect a groundwater sample.								

Undrained Shear Strength - tsf

1 2 3 4

Water Content & Atterberg Limits W_P W W_L

Dynamic Penetration Test, blows/foot ★

Standard Penetration Test, blows/foot ●

10 20 30 40 50 60 70 80 90

Driller: Hawk Drilling, Inc.; Supervisor: B. Bline

* Sample submitted for laboratory analysis

△ Unconfined Compression Test

□ Field Vane Test ■ Remolded

✖ Pocket Penetrometer / Torvane

STANTEC-GEO-I-VOC INWOOD BORING LOGS.GPJ JW NHP.GDT 9/9/11

BOREHOLE LOG

B-102

Stantec

CLIENT **A&P**

LOCATION **410 West 207th Street, Inwood, NY**

EXPLORATION DATE **7/19/2011 to 7/19/2011** WATER LEVEL **9.3**

PROJECT No. **191710847**

EXPLORATION No. **B-102**

DATUM **Ground Surface**

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY in.	SAMPLES SPT blows / 6"	SAMPLES SPT N-Value	PID Reading (PPM)
0		Asphalt base								0.0
		Clear boring to 5 feet below grade using an air knife								
		Cuttings consist of dark gray/brown medium SAND with some silt and fine sand; petroleum odor			GRAB	1				187
										48
5		Gray/black fine SAND								
		Dark brown fine SAND; petroleum odor*			PUSH	2	34			858
		Gray fine to medium SAND								
		Cave-in		▽						
10		Light gray fine SAND			PUSH	3	42			462
		Gray/dark brown fine SAND								
		Light gray/dark gray fine to medium SAND								
		Chocolate brown fine SAND								
		Gray brown fine to medium SAND								
		Reddish brown fine silty SAND			PUSH	4	48			
15		Dark brown silty fine SAND								
		Boring terminated at 16 feet below ground surface. No refusal encountered. Temporary 1-inch PVC monitoring well installed to collect a groundwater sample.								

Undrained Shear Strength - tsf

1 2 3 4

Water Content & Atterberg Limits W_P W W_L

Dynamic Penetration Test, blows/foot ★

Standard Penetration Test, blows/foot ●

10 20 30 40 50 60 70 80 90

Driller: Hawk Drilling, Inc.; Supervisor: B. Bline

* Sample submitted for laboratory analysis

△ Unconfined Compression Test

□ Field Vane Test ■ Remolded

✖ Pocket Penetrometer / Torvane

STANTEC-GEO-I-VOC INWOOD BORING LOGS.GPJ JW NHP.GDT 9/9/11

BOREHOLE LOG

B-103

Stantec

CLIENT **A&P**

LOCATION **410 West 207th Street, Inwood, NY**

EXPLORATION DATE **7/19/2011 to 7/19/2011** WATER LEVEL **9.2**

PROJECT No. **191710847**

EXPLORATION No. **B-103**

DATUM **Ground Surface**

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY in.	SAMPLES SPT blows / 6"	SAMPLES SPT N-Value	PID Reading (PPM)
0		Asphalt base								
		Clear boring to 5 feet below grade using an air knife			GRAB	1				20.3
5		Dark brown silty fine SAND			PUSH	2	28			1275
		Light gray/dark gray fine to medium SAND*								
		Light gray/dark gray silty fine SAND with trace gravel		▽						72
10		Gray silty fine SAND grading to chocolate brown silty fine SAND			PUSH	3	30			
		Chocolate brown silty fine SAND			PUSH	4	48			
		Gray medium SAND								
15		Dark brown silty fine SAND with organics								
		Boring terminated at 16 feet below ground surface. No refusal encountered. Temporary 1-inch PVC monitoring well installed to collect a groundwater sample.								

Undrained Shear Strength - tsf

1 2 3 4

Water Content & Atterberg Limits W_P W W_L

Dynamic Penetration Test, blows/foot ★

Standard Penetration Test, blows/foot ●

10 20 30 40 50 60 70 80 90

Driller: Hawk Drilling, Inc.; Supervisor: B. Bline

* Sample submitted for laboratory analysis

△ Unconfined Compression Test

□ Field Vane Test ■ Remolded

✖ Pocket Penetrometer / Torvane

STANTEC-GEO-I-VOC INWOOD BORING LOGS.GPJ JW NHP.GDT 9/9/11

BOREHOLE LOG

B-104

Stantec

CLIENT A&P

LOCATION 410 West 207th Street, Inwood, NY

EXPLORATION DATE 10/24/2011 to 10/24/2011

WATER LEVEL 10

PROJECT No. 191710847

EXPLORATION No. B-104

DATUM Ground Surface

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES SPT blows / 6"	SAMPLES SPT N-Value	PID Reading (PPM)
		Asphalt Pavement					in.			
0		ASPHALT								
		Gray poorly graded fine GRAVEL with medium to coarse sand			GRAB	1				0.3
		Brown to reddish brown well graded fine to medium SAND with gravel			PUSH	2	17			0.8
5					PUSH	3	45			0.6 0.6
		Reddish brown to dark brown silty fine to medium SAND								
10				▽	PUSH	4	42			0.7 0.5
		Reddish brown poorly graded fine SAND								
		Dark brown ORGANIC SOIL			PUSH	5	44			0.9 0.8
15										
		Boring terminated at 16 feet below ground surface. No refusal encountered. Temporary 1-inch PVC monitoring well installed to collect a groundwater sample.								

Undrained Shear Strength - tsf

1 2 3 4

W_P W W_L

Water Content & Atterberg Limits

Dynamic Penetration Test, blows/foot ★

Standard Penetration Test, blows/foot ●

10 20 30 40 50 60 70 80 90

Driller: Hawk Drilling, Inc.; Supervisor: D. Chapman

Soil sample from 8-10' submitted for laboratory analysis

△ Unconfined Compression Test

□ Field Vane Test ■ Remolded

✖ Pocket Penetrometer / Torvane

STANTEC-GEO-I-VOC INWOOD BORING LOGS OCTOBER 2011.GPJ JW NHP.GDT 10/27/11

BOREHOLE LOG

B-105

Stantec

CLIENT A&P

LOCATION 410 West 207th Street, Inwood, NY

EXPLORATION DATE 10/24/2011 to 10/24/2011

WATER LEVEL 9.9

PROJECT No. 191710847

EXPLORATION No. B-105

DATUM Ground Surface

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES SPT blows / 6"	SAMPLES SPT N-Value	PID Reading (PPM)
		Asphalt Pavement					in.			
0		ASPHALT								
		Gray poorly graded fine GRAVEL with medium to coarse sand			GRAB	1				0.7
		Dark brown well graded medium to coarse SAND with gravel			PUSH	2	13			0.4
		White to light brown poorly graded fine to medium SAND, trace fine gravel			PUSH	3	41			0.4 1.1
5										
10				▽	PUSH	4	37			0.3 0.6
		Light yellowish brown poorly graded fine to medium SAND, trace fine gravel								
		Reddish brown poorly graded fine SAND								
		Dark brown ORGANIC SOIL			PUSH	5	44			0.4 0.5
15										
		Boring terminated at 16 feet below ground surface. No refusal encountered. Temporary 1-inch PVC monitoring well installed to collect a groundwater sample.								

Undrained Shear Strength - tsf

1 2 3 4

W_P W W_L

Water Content & Atterberg Limits

Dynamic Penetration Test, blows/foot ★

Standard Penetration Test, blows/foot ●

10 20 30 40 50 60 70 80 90

Driller: Hawk Drilling, Inc.; Supervisor: D. Chapman

Soil sample from 8-10' submitted for laboratory analysis

△ Unconfined Compression Test

□ Field Vane Test ■ Remolded

✖ Pocket Penetrometer / Torvane

STANTEC-GEO-I-VOC INWOOD BORING LOGS OCTOBER 2011.GPJ JW NHP.GDT 10/27/11

APPENDIX B

Laboratory Report
July 19, 2011 Soil and Ground Water Sampling Event

Report Date:
02-Aug-11 13:38

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Stantec Consulting Services
5 Dartmouth Drive, Suite 101
Auburn, NH 03032
Attn: Don Moore

Project: A&P Inwood - New York, NY
Project #: 191710847/Task 200

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB32020-01	Trip Blank	Distilled Water	19-Jul-11 00:00	20-Jul-11 10:00
SB32020-02	B-102 (6.5'-7.0')	Soil	19-Jul-11 09:50	20-Jul-11 10:00
SB32020-03	B-102	Ground Water	19-Jul-11 11:00	20-Jul-11 10:00
SB32020-04	B-103 (6.5'-7.3')	Soil	19-Jul-11 11:15	20-Jul-11 10:00
SB32020-05	B-103	Ground Water	19-Jul-11 12:30	20-Jul-11 10:00
SB32020-06	B-101 (4.8'-6.1')	Soil	19-Jul-11 13:40	20-Jul-11 10:00
SB32020-07	B-101	Ground Water	19-Jul-11 14:00	20-Jul-11 10:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.
Please note that this report contains 66 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

CASE NARRATIVE:

The samples were received 4.6 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Additional dilution factors may be required to keep analyte concentration within instrument calibration.

This method is designed for use on samples containing low levels of VOCs, ranging 0.5 to 200 ug/Kg. Target analytes that are less responsive to purge and trap may be reported at concentrations over 200 ug/Kg if rerunning the sample from the methanol preserved vial via method SW846 5030 would result in the concentration being non-reportable. This would be due to the difference in final reporting limits between the two methods.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 6010C

Duplicates:

1114450-DUP1 *Source: SB32020-06*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Arsenic

1114453-DUP1 *Source: SB32020-05*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Cadmium

SW846 8260C

Calibration:

1106031

Analyte quantified by quadratic equation type calibration.

Acetone
Ethanol
Vinyl chloride

This affected the following samples:

1114738-BLK1
1114738-BS1
1114738-BSD1
B-102
S105593-ICV1
S106596-CCV1
Trip Blank

1107002

Analyte quantified by quadratic equation type calibration.

Naphthalene
trans-1,4-Dichloro-2-butene

SW846 8260C

Calibration:

1107002

This affected the following samples:

1114828-BLK1
1114828-BS1
1114828-BSD1
B-101 (4.8'-6.1')
S105925-ICV1
S106644-CCV1

1107021

Analyte quantified by quadratic equation type calibration.

1,1,1-Trichloroethane
1,2-Dibromo-3-chloropropane
1,4-Dioxane
2,2-Dichloropropane
2-Hexanone (MBK)
Bromodichloromethane
Bromoform
Carbon disulfide
Carbon tetrachloride
cis-1,3-Dichloropropene
Dibromochloromethane
trans-1,3-Dichloropropene

This affected the following samples:

S106315-ICV1

1107027

Analyte quantified by quadratic equation type calibration.

1,1,1,2-Tetrachloroethane
1,2-Dibromo-3-chloropropane
1,2-Dibromoethane (EDB)
Acrylonitrile
Bromoform
cis-1,3-Dichloropropene
Dibromochloromethane
trans-1,3-Dichloropropene

This affected the following samples:

1114853-BLK1
1114853-BS1
1114853-BSD1
B-101
B-103
S106527-ICV1
S106621-CCV1

S106527-ICV1

Analyte percent recovery is outside individual acceptance criteria (70-130).

Carbon tetrachloride (132%)

SW846 8260C

Calibration:

S106527-ICV1

This affected the following samples:

1114853-BLK1
1114853-BS1
1114853-BSD1
B-101
B-103
S106621-CCV1

Laboratory Control Samples:

1114630 BS/BSD

Acetone percent recoveries (71/58) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-102 (6.5'-7.0')

1114847 BS/BSD

2-Butanone (MEK) percent recoveries (60/87) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-103 (6.5'-7.3')

Acetone percent recoveries (56/50) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-103 (6.5'-7.3')

Carbon tetrachloride percent recoveries (127/131) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-103 (6.5'-7.3')

Chloromethane percent recoveries (68/72) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-103 (6.5'-7.3')

1114853 BS/BSD

1,2-Dibromo-3-chloropropane percent recoveries (129/134) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-101
B-103

2-Butanone (MEK) percent recoveries (138/116) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-101
B-103

Carbon tetrachloride percent recoveries (138/130) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-101
B-103

SW846 8260C

Laboratory Control Samples:

1114853 BS/BSD

Ethanol percent recoveries (136/112) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-101
B-103

Naphthalene percent recoveries (131/124) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-101
B-102
B-103

Spikes:

1114630-MS1 *Source: SB32020-06*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1,1-Trichloroethane
1,3,5-Trimethylbenzene
1,4-Dioxane
4-Isopropyltoluene
4-Methyl-2-pentanone (MIBK)
Acetone
Bromomethane
Carbon disulfide
Carbon tetrachloride
Dichlorodifluoromethane (Freon12)
m,p-Xylene
Naphthalene
o-Xylene
sec-Butylbenzene
tert-Butylbenzene
Tetrachloroethene
Vinyl chloride

1114630-MSD1 *Source: SB32020-06*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,3,5-Trimethylbenzene
1,4-Dioxane
4-Isopropyltoluene
4-Methyl-2-pentanone (MIBK)
Acetone
Bromomethane
Carbon disulfide
Dichlorodifluoromethane (Freon12)
n-Propylbenzene
sec-Butylbenzene
tert-Butylbenzene
Vinyl chloride

Samples:

S106572-CCV1

SW846 8260C

Samples:

S106572-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Chloromethane (-27.6%)
tert-Butylbenzene (20.5%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

1,1,1-Trichloroethane (26.4%)
1,2-Dibromo-3-chloropropane (27.7%)
4-Methyl-2-pentanone (MIBK) (26.2%)
Acetone (-28.8%)
Bromoform (22.2%)
Carbon tetrachloride (27.2%)
Dibromochloromethane (23.6%)
Tert-amyl methyl ether (25.4%)
Tert-Butanol / butyl alcohol (21.4%)
Tetrahydrofuran (27.6%)
trans-1,3-Dichloropropene (24.2%)

This affected the following samples:

1114630-BLK1
1114630-BS1
1114630-BSD1
1114630-MS1
1114630-MSD1
B-102 (6.5'-7.0')

S106596-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2-Butanone (MEK) (-20.9%)
Acrylonitrile (-23.6%)
Dichlorodifluoromethane (Freon12) (-27.3%)
Ethyl ether (-22.8%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Acetone (-22.4%)

This affected the following samples:

1114738-BLK1
1114738-BS1
1114738-BSD1
B-102
Trip Blank

S106607-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Bromomethane (-20.4%)
Chloroethane (-23.5%)
Chloromethane (-34.6%)
Di-isopropyl ether (-23.6%)
Ethanol (-24.0%)
Naphthalene (26.0%)

SW846 8260C

Samples:

S106607-CCV1

This affected the following samples:

1114847-BLK1
1114847-BS1
1114847-BSD1
B-103 (6.5'-7.3')

S106621-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Bromomethane (24.3%)
Carbon tetrachloride (29.8%)
Naphthalene (24.2%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

1,2-Dibromo-3-chloropropane (34.2%)

This affected the following samples:

1114853-BLK1
1114853-BS1
1114853-BSD1
B-101
B-102
B-103

S106644-CCV1

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Acetone (26.8%)

This affected the following samples:

1114828-BLK1
1114828-BS1
1114828-BSD1
B-101 (4.8'-6.1')

SB32020-02 *B-102 (6.5'-7.0')*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB32020-03 *B-102*

The concentration indicated for this analyte is an estimated value. This value is considered an estimate (CLP E-flag).

1,2,4-Trimethylbenzene
Isopropylbenzene
Naphthalene
n-Propylbenzene

SB32020-03RE1 *B-102*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB32020-04 *B-103 (6.5'-7.3')*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

SB32020-05 *B-103*

SW846 8260C

Samples:

SB32020-05 *B-103*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SW846 8270D

Samples:

S106537-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2-Methylnaphthalene (-54.5%)

This affected the following samples:

1114373-BLK1

SB32020-02 *B-102 (6.5'-7.0')*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	191710847/Task 200	Distilled Water	19-Jul-11 00:00	20-Jul-11
SB32020-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds													
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.6	1	SW846 8260C	27-Jul-11	27-Jul-11	JRO	1114738	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.1	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	1.7	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	1.0	1	"	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	1.5	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BDL	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	191710847/Task 200	Distilled Water	19-Jul-11 00:00	20-Jul-11
SB32020-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds													
Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.6	1	SW846 8260C	27-Jul-11	27-Jul-11	JRO	1114738	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.9	1	"	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
100-42-5	Styrene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	2.0	1.4	1	"	"	"	"	"	
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	8.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	14.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	BDL	U	µg/l	5.0	0.8	1	"	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	35.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	98			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	100			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	110			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	106			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-102 (6.5'-7.0')	191710847/Task 200	Soil	19-Jul-11 09:50	20-Jul-11
SB32020-02				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction	22-Jul-11	22-Jul-11	JLH	1114462	
Volatile Organic Compounds			GS1										
Prepared by method SW846 5030 Soil (high level)							Initial weight: 20.21 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/kg dry	4460	2980	5000	SW846 8260C	26-Jul-11	27-Jul-11	naa	1114630	X
67-64-1	Acetone	BDL	U	µg/kg dry	44600	33500	5000	"	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/kg dry	4460	3990	5000	"	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/kg dry	4460	2340	5000	"	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/kg dry	4460	2850	5000	"	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/kg dry	4460	1460	5000	"	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/kg dry	4460	1690	5000	"	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/kg dry	4460	3080	5000	"	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/kg dry	8930	8040	5000	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/kg dry	44600	38300	5000	"	"	"	"	"	X
104-51-8	n-Butylbenzene	59,100		µg/kg dry	4460	2230	5000	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	20,700		µg/kg dry	4460	4330	5000	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/kg dry	4460	3230	5000	"	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/kg dry	8930	6380	5000	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/kg dry	4460	4440	5000	"	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/kg dry	4460	2500	5000	"	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/kg dry	8930	6320	5000	"	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/kg dry	4460	2180	5000	"	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/kg dry	8930	2250	5000	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/kg dry	4460	2720	5000	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/kg dry	4460	3990	5000	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/kg dry	8930	8440	5000	"	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/kg dry	4460	2140	5000	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/kg dry	4460	2770	5000	"	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/kg dry	4460	4450	5000	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/kg dry	4460	3590	5000	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/kg dry	4460	4440	5000	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/kg dry	4460	3010	5000	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BDL	U	µg/kg dry	8930	7530	5000	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/kg dry	4460	4080	5000	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/kg dry	4460	2500	5000	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/kg dry	4460	2210	5000	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/kg dry	4460	1870	5000	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/kg dry	4460	3700	5000	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/kg dry	4460	2270	5000	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/kg dry	4460	2250	5000	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/kg dry	4460	1800	5000	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/kg dry	4460	2750	5000	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/kg dry	4460	2430	5000	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/kg dry	4460	1260	5000	"	"	"	"	"	X
100-41-4	Ethylbenzene	15,400		µg/kg dry	4460	2720	5000	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/kg dry	4460	3850	5000	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-102 (6.5'-7.0')	191710847/Task 200	Soil	19-Jul-11 09:50	20-Jul-11
SB32020-02				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds			GS1										
Prepared by method SW846 5030 Soil (high level)							Initial weight: 20.21 g						
591-78-6	2-Hexanone (MBK)	BDL	U	µg/kg dry	44600	11400	5000	SW846 8260C	26-Jul-11	27-Jul-11	naa	1114630	X
98-82-8	Isopropylbenzene	30,900		µg/kg dry	4460	2240	5000	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	10,400		µg/kg dry	4460	1850	5000	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/kg dry	4460	3240	5000	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/kg dry	44600	14500	5000	"	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/kg dry	8930	2270	5000	"	"	"	"	"	X
91-20-3	Naphthalene	140,000		µg/kg dry	4460	2770	5000	"	"	"	"	"	X
103-65-1	n-Propylbenzene	111,000		µg/kg dry	4460	2680	5000	"	"	"	"	"	X
100-42-5	Styrene	BDL	U	µg/kg dry	4460	3300	5000	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/kg dry	4460	4280	5000	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/kg dry	4460	3390	5000	"	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/kg dry	4460	2550	5000	"	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/kg dry	4460	4000	5000	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/kg dry	4460	3870	5000	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/kg dry	4460	3360	5000	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/kg dry	4460	3160	5000	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/kg dry	4460	3580	5000	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/kg dry	4460	3840	5000	"	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/kg dry	4460	3420	5000	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/kg dry	4460	1800	5000	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/kg dry	4460	2020	5000	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	184,000		µg/kg dry	4460	1460	5000	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	60,500		µg/kg dry	4460	4420	5000	"	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/kg dry	4460	4190	5000	"	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/kg dry	8930	8650	5000	"	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/kg dry	4460	3050	5000	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/kg dry	8930	8260	5000	"	"	"	"	"	
60-29-7	Ethyl ether	BDL	U	µg/kg dry	4460	4160	5000	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BDL	U	µg/kg dry	4460	3520	5000	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/kg dry	4460	1560	5000	"	"	"	"	"	
108-20-3	Di-isopropyl ether	BDL	U	µg/kg dry	4460	1440	5000	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/kg dry	44600	25300	5000	"	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/kg dry	89300	73100	5000	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/kg dry	22300	11400	5000	"	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/kg dry	1790000	373000	5000	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	111			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	105			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	101			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	103			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-102 (6.5'-7.0')	191710847/Task 200	Soil	19-Jul-11 09:50	20-Jul-11
SB32020-02				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270C			GS1										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	BDL	U	µg/kg dry	534	60.2	1	SW846 8270D	25-Jul-11	26-Jul-11	MSL	1114505	X
208-96-8	Acenaphthylene	BDL	U	µg/kg dry	5340	612	10	"	"	"	"	"	X
120-12-7	Anthracene	BDL	U	µg/kg dry	5340	628	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	BDL	U	µg/kg dry	5340	621	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BDL	U	µg/kg dry	5340	706	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BDL	U	µg/kg dry	5340	644	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BDL	U	µg/kg dry	5340	819	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BDL	U	µg/kg dry	5340	945	10	"	"	"	"	"	X
218-01-9	Chrysene	BDL	U	µg/kg dry	5340	638	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BDL	U	µg/kg dry	5340	738	10	"	"	"	"	"	X
206-44-0	Fluoranthene	BDL	U	µg/kg dry	5340	977	10	"	"	"	"	"	X
86-73-7	Fluorene	BDL	U	µg/kg dry	5340	680	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BDL	U	µg/kg dry	5340	987	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	27,700		µg/kg dry	5340	783	10	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	54,300		µg/kg dry	5340	631	10	"	"	"	"	"	X
91-20-3	Naphthalene	56,300		µg/kg dry	5340	540	10	"	"	"	"	"	X
85-01-8	Phenanthrene	BDL	U	µg/kg dry	5340	602	10	"	"	"	"	"	X
129-00-0	Pyrene	BDL	U	µg/kg dry	5340	1070	10	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	79			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	92			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	BDL	U	mg/kg dry	1.50	0.231	1	SW846 6010C	26-Jul-11	29-Jul-11	ARF\A	1114450	X
7440-38-2	Arsenic	4.36		mg/kg dry	1.50	0.241	1	"	"	"	"	"	X
7440-39-3	Barium	266		mg/kg dry	0.999	0.241	1	"	"	"	"	"	X
7440-43-9	Cadmium	2.67		mg/kg dry	0.500	0.0552	1	"	"	"	"	"	X
7440-47-3	Chromium	37.1		mg/kg dry	0.999	0.364	1	"	"	"	"	"	X
7439-97-6	Mercury	0.103		mg/kg dry	0.0318	0.0065	1	SW846 7471B	"	01-Aug-11	EDT	1114451	X
7439-92-1	Lead	175		mg/kg dry	1.50	0.178	1	SW846 6010C	"	29-Jul-11	ARF\A	1114450	X
7782-49-2	Selenium	0.380	J	mg/kg dry	1.50	0.222	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	92.0		%			1	SM2540 G Mod.	22-Jul-11	22-Jul-11	DT	1114432	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-102	191710847/Task 200	Ground Water	19-Jul-11 11:00	20-Jul-11
SB32020-03				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds													
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.6	1	SW846 8260C	27-Jul-11	27-Jul-11	JRO	1114738	X
67-64-1	Acetone	11.6		µg/l	10.0	2.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	3.6		µg/l	1.0	0.7	1	"	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.1	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	2.7	J	µg/l	10.0	1.7	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	54.2		µg/l	1.0	0.6	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	30.3		µg/l	1.0	0.8	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	4.3		µg/l	1.0	0.7	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	0.7	J	µg/l	2.0	0.6	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	1.0	1	"	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	1.5	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BDL	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	46.6		µg/l	1.0	0.7	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-102	191710847/Task 200	Ground Water	19-Jul-11 11:00	20-Jul-11
SB32020-03				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds													
Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	129	E	µg/l	1.0	0.6	1	SW846 8260C	27-Jul-11	27-Jul-11	JRO	1114738	X
99-87-6	4-Isopropyltoluene	10.0		µg/l	1.0	0.6	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.9	1	"	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	"	X
91-20-3	Naphthalene	182	E	µg/l	1.0	0.3	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	311	E	µg/l	1.0	0.8	1	"	"	"	"	"	X
100-42-5	Styrene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
108-88-3	Toluene	2.6		µg/l	1.0	0.8	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	172	E	µg/l	1.0	0.8	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	51.3		µg/l	1.0	0.7	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	10.5		µg/l	2.0	1.6	1	"	"	"	"	"	X
95-47-6	o-Xylene	3.4		µg/l	1.0	0.9	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	2.0	1.4	1	"	"	"	"	"	
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	9.0	J	µg/l	10.0	8.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	14.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	BDL	U	µg/l	5.0	0.8	1	"	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	35.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	98			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	102			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	105			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	103			*70-130 %*			"	"	"	"	"	
Re-analysis of Volatile Organic Compounds			GS1										
Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	146		µg/l	5.0	3.1	5	SW846 8260C	28-Jul-11	28-Jul-11	eq	1114853	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-102	191710847/Task 200	Ground Water	19-Jul-11 11:00	20-Jul-11
SB32020-03				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds			GS1										
Prepared by method SW846 5030 Water MS													
91-20-3	Naphthalene	223		µg/l	5.0	1.7	5	SW846 8260C	28-Jul-11	28-Jul-11	eq	1114853	X
103-65-1	n-Propylbenzene	387		µg/l	5.0	3.8	5	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	154		µg/l	5.0	3.8	5	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	103			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	102			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	114			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	111			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270C													
Prepared by method SW846 3510C													
83-32-9	Acenaphthene	BDL	U	µg/l	6.10	0.988	1	SW846 8270D	22-Jul-11	28-Jul-11	ML	1114373	X
208-96-8	Acenaphthylene	BDL	U	µg/l	6.10	1.23	1	"	"	"	"	"	X
120-12-7	Anthracene	BDL	U	µg/l	6.10	0.902	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	BDL	U	µg/l	6.10	0.683	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BDL	U	µg/l	6.10	1.02	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BDL	U	µg/l	6.10	1.17	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BDL	U	µg/l	6.10	1.77	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BDL	U	µg/l	6.10	1.85	1	"	"	"	"	"	X
218-01-9	Chrysene	BDL	U	µg/l	6.10	0.805	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BDL	U	µg/l	6.10	1.60	1	"	"	"	"	"	X
206-44-0	Fluoranthene	BDL	U	µg/l	6.10	2.61	1	"	"	"	"	"	X
86-73-7	Fluorene	BDL	U	µg/l	6.10	1.11	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BDL	U	µg/l	6.10	1.63	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	57.8		µg/l	6.10	1.34	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	25.9		µg/l	6.10	1.56	1	"	"	"	"	"	X
91-20-3	Naphthalene	52.6		µg/l	6.10	0.915	1	"	"	"	"	"	X
85-01-8	Phenanthrene	BDL	U	µg/l	6.10	0.732	1	"	"	"	"	"	X
129-00-0	Pyrene	BDL	U	µg/l	6.10	3.01	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	66			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	70			*30-130 %*			"	"	"	"	"	
Soluble Metals by EPA 200/6000 Series Methods													
	Filtration	Field Filtered		N/A			1	EPA 200.7/3005A/6010			LA	1114461	
Soluble Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	BDL	U	mg/l	0.0050	0.0020	1	SW846 6010C	27-Jul-11	30-Jul-11	ARF/E	1114453	X
7440-38-2	Arsenic	BDL	U	mg/l	0.0040	0.0032	1	"	"	"	"	"	X
7440-39-3	Barium	0.335		mg/l	0.0050	0.0034	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.0003	J	mg/l	0.0025	0.0001	1	"	"	"	"	"	X
7440-47-3	Chromium	BDL	U	mg/l	0.0050	0.0034	1	"	"	"	"	"	X
7439-92-1	Lead	0.0120		mg/l	0.0075	0.0045	1	"	"	"	"	"	X
7782-49-2	Selenium	BDL	U	mg/l	0.0150	0.0024	1	"	"	"	"	"	X
Soluble Metals by EPA 200 Series Methods													
7439-97-6	Mercury	BDL	U	mg/l	0.00020	0.00007	1	EPA 245.1/7470A	27-Jul-11	28-Jul-11	EDT	1114454	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-103 (6.5'-7.3')	191710847/Task 200	Soil	19-Jul-11 11:15	20-Jul-11
SB32020-04				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction	22-Jul-11	22-Jul-11	JLH	1114462	
Volatile Organic Compounds			R05										
Prepared by method SW846 5030 Soil (high level)							Initial weight: 29.72 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/kg dry	118	78.4	200	SW846 8260C	28-Jul-11	28-Jul-11	naa	1114847	X
67-64-1	Acetone	BDL	U	µg/kg dry	1180	883	200	"	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/kg dry	118	105	200	"	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/kg dry	118	61.7	200	"	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/kg dry	118	75.0	200	"	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/kg dry	118	38.5	200	"	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/kg dry	118	44.4	200	"	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/kg dry	118	81.2	200	"	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/kg dry	235	212	200	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/kg dry	1180	1010	200	"	"	"	"	"	X
104-51-8	n-Butylbenzene	1,610		µg/kg dry	118	58.6	200	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	499		µg/kg dry	118	114	200	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/kg dry	118	85.0	200	"	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/kg dry	235	168	200	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/kg dry	118	117	200	"	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/kg dry	118	65.7	200	"	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/kg dry	235	166	200	"	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/kg dry	118	57.5	200	"	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/kg dry	235	59.1	200	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/kg dry	118	71.6	200	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/kg dry	118	105	200	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/kg dry	235	222	200	"	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/kg dry	118	56.4	200	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/kg dry	118	72.9	200	"	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/kg dry	118	117	200	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/kg dry	118	94.6	200	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/kg dry	118	117	200	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/kg dry	118	79.3	200	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BDL	U	µg/kg dry	235	198	200	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/kg dry	118	107	200	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/kg dry	118	65.7	200	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/kg dry	118	58.3	200	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/kg dry	118	49.4	200	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/kg dry	118	97.5	200	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/kg dry	118	59.8	200	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/kg dry	118	59.1	200	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/kg dry	118	47.4	200	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/kg dry	118	72.5	200	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/kg dry	118	64.0	200	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/kg dry	118	33.1	200	"	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/kg dry	118	71.6	200	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/kg dry	118	101	200	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-103 (6.5'-7.3')	191710847/Task 200	Soil	19-Jul-11 11:15	20-Jul-11
SB32020-04				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds			R05										
Prepared by method SW846 5030 Soil (high level)							Initial weight: 29.72 g						
591-78-6	2-Hexanone (MBK)	BDL	U	µg/kg dry	1180	300	200	SW846 8260C	28-Jul-11	28-Jul-11	naa	1114847	X
98-82-8	Isopropylbenzene	404		µg/kg dry	118	59.0	200	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/kg dry	118	48.6	200	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/kg dry	118	85.4	200	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/kg dry	1180	382	200	"	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/kg dry	235	59.7	200	"	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/kg dry	118	73.0	200	"	"	"	"	"	X
103-65-1	n-Propylbenzene	2,140		µg/kg dry	118	70.5	200	"	"	"	"	"	X
100-42-5	Styrene	BDL	U	µg/kg dry	118	87.0	200	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/kg dry	118	113	200	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/kg dry	118	89.3	200	"	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/kg dry	118	67.2	200	"	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/kg dry	118	105	200	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/kg dry	118	102	200	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/kg dry	118	88.4	200	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/kg dry	118	83.2	200	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/kg dry	118	94.1	200	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/kg dry	118	101	200	"	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/kg dry	118	90.0	200	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/kg dry	118	47.5	200	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/kg dry	118	53.1	200	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	146		µg/kg dry	118	38.4	200	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/kg dry	118	116	200	"	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/kg dry	118	110	200	"	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/kg dry	235	228	200	"	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/kg dry	118	80.3	200	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/kg dry	235	217	200	"	"	"	"	"	
60-29-7	Ethyl ether	BDL	U	µg/kg dry	118	110	200	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BDL	U	µg/kg dry	118	92.7	200	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/kg dry	118	41.0	200	"	"	"	"	"	
108-20-3	Di-isopropyl ether	BDL	U	µg/kg dry	118	37.8	200	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/kg dry	1180	665	200	"	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/kg dry	2350	1920	200	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/kg dry	588	301	200	"	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/kg dry	47000	9830	200	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	112			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	102			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	87			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	82			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-103 (6.5'-7.3')	191710847/Task 200	Soil	19-Jul-11 11:15	20-Jul-11
SB32020-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270C													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	BDL	U	µg/kg dry	250	28.2	1	SW846 8270D	25-Jul-11	26-Jul-11	MSL	1114505	X
208-96-8	Acenaphthylene	BDL	U	µg/kg dry	250	28.6	1	"	"	"	"	"	X
120-12-7	Anthracene	BDL	U	µg/kg dry	250	29.4	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	32.8	J	µg/kg dry	250	29.1	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BDL	U	µg/kg dry	250	33.0	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BDL	U	µg/kg dry	250	30.1	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BDL	U	µg/kg dry	250	38.3	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BDL	U	µg/kg dry	250	44.2	1	"	"	"	"	"	X
218-01-9	Chrysene	32.8	J	µg/kg dry	250	29.8	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BDL	U	µg/kg dry	250	34.5	1	"	"	"	"	"	X
206-44-0	Fluoranthene	65.7	J	µg/kg dry	250	45.8	1	"	"	"	"	"	X
86-73-7	Fluorene	83.8	J	µg/kg dry	250	31.8	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BDL	U	µg/kg dry	250	46.2	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	308		µg/kg dry	250	36.7	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	436		µg/kg dry	250	29.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/kg dry	250	25.3	1	"	"	"	"	"	X
85-01-8	Phenanthrene	155	J	µg/kg dry	250	28.2	1	"	"	"	"	"	X
129-00-0	Pyrene	76.8	J	µg/kg dry	250	50.3	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	67			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	72			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	0.326	J	mg/kg dry	1.44	0.221	1	SW846 6010C	26-Jul-11	29-Jul-11	ARF\A	1114450	X
7440-38-2	Arsenic	0.704	J	mg/kg dry	1.44	0.231	1	"	"	"	"	"	X
7440-39-3	Barium	19.0		mg/kg dry	0.958	0.231	1	"	"	"	"	"	X
7440-43-9	Cadmium	BDL	U	mg/kg dry	0.479	0.0529	1	"	"	"	"	"	X
7440-47-3	Chromium	17.8		mg/kg dry	0.958	0.349	1	"	"	"	"	"	X
7439-97-6	Mercury	0.109		mg/kg dry	0.0276	0.0056	1	SW846 7471B	"	01-Aug-11	EDT	1114451	X
7439-92-1	Lead	5.32		mg/kg dry	1.44	0.170	1	SW846 6010C	"	29-Jul-11	ARF\A	1114450	X
7782-49-2	Selenium	BDL	U	mg/kg dry	1.44	0.212	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	94.8		%			1	SM2540 G Mod.	22-Jul-11	22-Jul-11	DT	1114432	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-103	191710847/Task 200	Ground Water	19-Jul-11 12:30	20-Jul-11
SB32020-05				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds			GS1										
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	10.0	6.5	10	SW846 8260C	28-Jul-11	28-Jul-11	eq	1114853	X
67-64-1	Acetone	BDL	U	µg/l	100	25.6	10	"	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	5.0	4.6	10	"	"	"	"	"	X
71-43-2	Benzene	10.7		µg/l	10.0	6.7	10	"	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	10.0	7.2	10	"	"	"	"	"	
74-97-5	Bromochloromethane	BDL	U	µg/l	10.0	7.1	10	"	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	5.0	4.8	10	"	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	10.0	6.0	10	"	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	20.0	11.4	10	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	100	17.3	10	"	"	"	"	"	X
104-51-8	n-Butylbenzene	56.1		µg/l	10.0	5.6	10	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	24.2		µg/l	10.0	8.2	10	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	10.0	7.4	10	"	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	20.0	6.3	10	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	10.0	5.5	10	"	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	10.0	6.5	10	"	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	20.0	10.3	10	"	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	10.0	6.9	10	"	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	20.0	14.7	10	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	10.0	7.9	10	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	10.0	7.3	10	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	20.0	9.3	10	"	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	5.0	2.9	10	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	5.0	3.3	10	"	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	10.0	6.7	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	10.0	6.7	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	10.0	7.1	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	10.0	6.2	10	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BDL	U	µg/l	20.0	4.5	10	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	10.0	6.8	10	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	10.0	7.8	10	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	10.0	4.9	10	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	10.0	7.2	10	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	10.0	6.8	10	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	10.0	7.1	10	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	10.0	8.1	10	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	10.0	6.0	10	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	10.0	6.4	10	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	5.0	2.5	10	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	5.0	5.0	10	"	"	"	"	"	X
100-41-4	Ethylbenzene	12.3		µg/l	10.0	7.3	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	5.0	4.5	10	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	100	5.4	10	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-103	191710847/Task 200	Ground Water	19-Jul-11 12:30	20-Jul-11
SB32020-05				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds			GS1										
Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	128		µg/l	10.0	6.2	10	SW846 8260C	28-Jul-11	28-Jul-11	eq	1114853	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	10.0	6.1	10	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	10.0	6.5	10	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	100	9.3	10	"	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	20.0	6.9	10	"	"	"	"	"	X
91-20-3	Naphthalene	133		µg/l	10.0	3.3	10	"	"	"	"	"	X
103-65-1	n-Propylbenzene	383		µg/l	10.0	7.6	10	"	"	"	"	"	X
100-42-5	Styrene	BDL	U	µg/l	10.0	6.2	10	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	10.0	6.3	10	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	5.0	3.5	10	"	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	10.0	7.4	10	"	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	10.0	8.1	10	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	10.0	3.8	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	10.0	3.6	10	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	10.0	7.8	10	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	10.0	5.8	10	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	10.0	6.4	10	"	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	10.0	7.6	10	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	10.0	6.3	10	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	10.0	7.4	10	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	10.0	7.6	10	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	10.0	7.4	10	"	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	10.0	8.1	10	"	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	20.0	16.4	10	"	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	10.0	8.8	10	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	20.0	14.4	10	"	"	"	"	"	
60-29-7	Ethyl ether	BDL	U	µg/l	10.0	6.9	10	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	10.0	7.2	10	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	10.0	7.8	10	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	10.0	7.3	10	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	100	86.4	10	"	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	200	140	10	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	BDL	U	µg/l	50.0	7.7	10	"	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	4000	357	10	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	102			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	103			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	116			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	106			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270C													
Prepared by method SW846 3510C													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-103	191710847/Task 200	Ground Water	19-Jul-11 12:30	20-Jul-11
SB32020-05				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270C													
Prepared by method SW846 3510C													
83-32-9	Acenaphthene	BDL	U	µg/l	5.88	0.953	1	SW846 8270D	22-Jul-11	28-Jul-11	ML	1114373	X
208-96-8	Acenaphthylene	BDL	U	µg/l	5.88	1.19	1	"	"	"	"	"	X
120-12-7	Anthracene	BDL	U	µg/l	5.88	0.871	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	BDL	U	µg/l	5.88	0.659	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BDL	U	µg/l	5.88	0.988	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BDL	U	µg/l	5.88	1.13	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BDL	U	µg/l	5.88	1.71	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BDL	U	µg/l	5.88	1.79	1	"	"	"	"	"	X
218-01-9	Chrysene	BDL	U	µg/l	5.88	0.776	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BDL	U	µg/l	5.88	1.54	1	"	"	"	"	"	X
206-44-0	Fluoranthene	BDL	U	µg/l	5.88	2.52	1	"	"	"	"	"	X
86-73-7	Fluorene	1.22	J	µg/l	5.88	1.07	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BDL	U	µg/l	5.88	1.58	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	22.7		µg/l	5.88	1.29	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	28.5		µg/l	5.88	1.51	1	"	"	"	"	"	X
91-20-3	Naphthalene	32.4		µg/l	5.88	0.882	1	"	"	"	"	"	X
85-01-8	Phenanthrene	2.00	J	µg/l	5.88	0.706	1	"	"	"	"	"	X
129-00-0	Pyrene	BDL	U	µg/l	5.88	2.91	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	65			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	69			*30-130 %*			"	"	"	"	"	
Soluble Metals by EPA 200/6000 Series Methods													
	Filtration	Field Filtered		N/A			1	EPA 200.7/3005A/6010			LA	1114461	
Soluble Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	BDL	U	mg/l	0.0050	0.0020	1	SW846 6010C	27-Jul-11	30-Jul-11	ARF/E	1114453	X
7440-38-2	Arsenic	BDL	U	mg/l	0.0040	0.0032	1	"	"	"	"	"	X
7440-39-3	Barium	0.451		mg/l	0.0050	0.0034	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.0004	J	mg/l	0.0025	0.0001	1	"	"	"	"	"	X
7440-47-3	Chromium	BDL	U	mg/l	0.0050	0.0034	1	"	"	"	"	"	X
7439-92-1	Lead	BDL	U	mg/l	0.0075	0.0045	1	"	"	"	"	"	X
7782-49-2	Selenium	BDL	U	mg/l	0.0150	0.0024	1	"	"	"	"	"	X
Soluble Metals by EPA 200 Series Methods													
7439-97-6	Mercury	BDL	U	mg/l	0.00020	0.00007	1	EPA 245.1/7470A	27-Jul-11	28-Jul-11	EDT	1114454	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-101 (4.8'-6.1')	191710847/Task 200	Soil	19-Jul-11 13:40	20-Jul-11
SB32020-06				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction	22-Jul-11	22-Jul-11	JLH	1114462	
Re-analysis of Volatile Organic Compounds													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 13.13 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/kg dry	2.0	1.3	1	SW846 8260C	28-Jul-11	28-Jul-11	JRO	1114828	X
67-64-1	Acetone	BDL	U	µg/kg dry	19.7	14.8	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/kg dry	2.0	1.8	1	"	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/kg dry	2.0	1.0	1	"	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/kg dry	2.0	1.3	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/kg dry	2.0	0.6	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/kg dry	2.0	0.7	1	"	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/kg dry	2.0	1.4	1	"	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/kg dry	3.9	3.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/kg dry	19.7	16.9	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/kg dry	2.0	1.0	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/kg dry	2.0	1.9	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/kg dry	2.0	1.4	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/kg dry	3.9	2.8	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/kg dry	2.0	2.0	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/kg dry	2.0	1.1	1	"	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/kg dry	3.9	2.8	1	"	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/kg dry	2.0	1.0	1	"	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/kg dry	3.9	1.0	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/kg dry	2.0	1.2	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/kg dry	2.0	1.8	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/kg dry	3.9	3.7	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/kg dry	2.0	0.9	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/kg dry	2.0	1.2	1	"	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/kg dry	2.0	2.0	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/kg dry	2.0	1.6	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/kg dry	2.0	2.0	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/kg dry	2.0	1.3	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BDL	U	µg/kg dry	3.9	3.3	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/kg dry	2.0	1.8	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/kg dry	2.0	1.1	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/kg dry	2.0	1.0	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/kg dry	2.0	0.8	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/kg dry	2.0	1.6	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/kg dry	2.0	1.0	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/kg dry	2.0	1.0	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/kg dry	2.0	0.8	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/kg dry	2.0	1.2	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/kg dry	2.0	1.1	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/kg dry	2.0	0.6	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/kg dry	2.0	1.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/kg dry	2.0	1.7	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-101 (4.8'-6.1')	191710847/Task 200	Soil	19-Jul-11 13:40	20-Jul-11
SB32020-06				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 13.13 g						
591-78-6	2-Hexanone (MBK)	BDL	U	µg/kg dry	19.7	5.0	1	SW846 8260C	28-Jul-11	28-Jul-11	JRO	1114828	X
98-82-8	Isopropylbenzene	BDL	U	µg/kg dry	2.0	1.0	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/kg dry	2.0	0.8	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/kg dry	2.0	1.4	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/kg dry	19.7	6.4	1	"	"	"	"	"	X
75-09-2	Methylene chloride	1.3	J	µg/kg dry	3.9	1.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/kg dry	2.0	1.2	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/kg dry	2.0	1.2	1	"	"	"	"	"	X
100-42-5	Styrene	BDL	U	µg/kg dry	2.0	1.5	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/kg dry	2.0	1.9	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/kg dry	2.0	1.5	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/kg dry	2.0	1.1	1	"	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/kg dry	2.0	1.8	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/kg dry	2.0	1.7	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/kg dry	2.0	1.5	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/kg dry	2.0	1.4	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/kg dry	2.0	1.6	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/kg dry	2.0	1.7	1	"	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/kg dry	2.0	1.5	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/kg dry	2.0	0.8	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/kg dry	2.0	0.9	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/kg dry	2.0	0.6	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/kg dry	2.0	2.0	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/kg dry	2.0	1.8	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/kg dry	3.9	3.8	1	"	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/kg dry	2.0	1.3	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/kg dry	3.9	3.6	1	"	"	"	"	"	
60-29-7	Ethyl ether	BDL	U	µg/kg dry	2.0	1.8	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BDL	U	µg/kg dry	2.0	1.6	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/kg dry	2.0	0.7	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	BDL	U	µg/kg dry	2.0	0.6	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/kg dry	19.7	11.1	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/kg dry	39.4	32.2	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/kg dry	9.8	5.0	1	"	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/kg dry	787	165	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	96			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	99			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	119			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	105			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-101 (4.8'-6.1')	191710847/Task 200	Soil	19-Jul-11 13:40	20-Jul-11
SB32020-06				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270C													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	BDL	U	µg/kg dry	166	18.7	1	SW846 8270D	25-Jul-11	25-Jul-11	ML	1114505	X
208-96-8	Acenaphthylene	BDL	U	µg/kg dry	166	19.0	1	"	"	"	"	"	X
120-12-7	Anthracene	BDL	U	µg/kg dry	166	19.5	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	BDL	U	µg/kg dry	166	19.3	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BDL	U	µg/kg dry	166	21.9	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BDL	U	µg/kg dry	166	20.0	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BDL	U	µg/kg dry	166	25.5	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BDL	U	µg/kg dry	166	29.4	1	"	"	"	"	"	X
218-01-9	Chrysene	BDL	U	µg/kg dry	166	19.8	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BDL	U	µg/kg dry	166	23.0	1	"	"	"	"	"	X
206-44-0	Fluoranthene	BDL	U	µg/kg dry	166	30.4	1	"	"	"	"	"	X
86-73-7	Fluorene	BDL	U	µg/kg dry	166	21.1	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BDL	U	µg/kg dry	166	30.7	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BDL	U	µg/kg dry	166	24.4	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	BDL	U	µg/kg dry	166	19.6	1	"	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/kg dry	166	16.8	1	"	"	"	"	"	X
85-01-8	Phenanthrene	BDL	U	µg/kg dry	166	18.7	1	"	"	"	"	"	X
129-00-0	Pyrene	BDL	U	µg/kg dry	166	33.4	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	77			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	83			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	BDL	U	mg/kg dry	1.30	0.201	1	SW846 6010C	26-Jul-11	29-Jul-11	ARF\A	1114450	X
7440-38-2	Arsenic	0.243	J	mg/kg dry	1.30	0.210	1	"	"	"	"	"	X
7440-39-3	Barium	8.87		mg/kg dry	0.870	0.210	1	"	"	"	"	"	X
7440-43-9	Cadmium	BDL	U	mg/kg dry	0.435	0.0480	1	"	"	"	"	"	X
7440-47-3	Chromium	6.07		mg/kg dry	0.870	0.317	1	"	"	"	"	"	X
7439-97-6	Mercury	BDL	U	mg/kg dry	0.0287	0.0059	1	SW846 7471B	"	01-Aug-11	EDT	1114451	X
7439-92-1	Lead	0.957	J	mg/kg dry	1.30	0.155	1	SW846 6010C	"	29-Jul-11	ARF\A	1114450	X
7782-49-2	Selenium	BDL	U	mg/kg dry	1.30	0.193	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	99.1		%			1	SM2540 G Mod.	22-Jul-11	22-Jul-11	DT	1114432	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-101	191710847/Task 200	Ground Water	19-Jul-11 14:00	20-Jul-11
SB32020-07				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds													
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.6	1	SW846 8260C	28-Jul-11	28-Jul-11	eq	1114853	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.1	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	1.7	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	1.0	1	"	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	1.5	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BDL	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-101	191710847/Task 200	Ground Water	19-Jul-11 14:00	20-Jul-11
SB32020-07				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds													
Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.6	1	SW846 8260C	28-Jul-11	28-Jul-11	eq	1114853	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	0.7	J	µg/l	1.0	0.7	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.9	1	"	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	"	X
91-20-3	Naphthalene	1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	0.8	J	µg/l	1.0	0.8	1	"	"	"	"	"	X
100-42-5	Styrene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	2.0	1.4	1	"	"	"	"	"	
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	8.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	14.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	BDL	U	µg/l	5.0	0.8	1	"	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	35.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	101			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	98			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	106			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	103			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270C													
Prepared by method SW846 3510C													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-101	191710847/Task 200	Ground Water	19-Jul-11 14:00	20-Jul-11
SB32020-07				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270C													
Prepared by method SW846 3510C													
83-32-9	Acenaphthene	BDL	U	µg/l	6.33	1.03	1	SW846 8270D	22-Jul-11	28-Jul-11	ML	1114373	X
208-96-8	Acenaphthylene	BDL	U	µg/l	6.33	1.28	1	"	"	"	"	"	X
120-12-7	Anthracene	BDL	U	µg/l	6.33	0.937	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	BDL	U	µg/l	6.33	0.709	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BDL	U	µg/l	6.33	1.06	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BDL	U	µg/l	6.33	1.22	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BDL	U	µg/l	6.33	1.84	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BDL	U	µg/l	6.33	1.92	1	"	"	"	"	"	X
218-01-9	Chrysene	BDL	U	µg/l	6.33	0.835	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BDL	U	µg/l	6.33	1.66	1	"	"	"	"	"	X
206-44-0	Fluoranthene	BDL	U	µg/l	6.33	2.71	1	"	"	"	"	"	X
86-73-7	Fluorene	BDL	U	µg/l	6.33	1.15	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BDL	U	µg/l	6.33	1.70	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BDL	U	µg/l	6.33	1.39	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	BDL	U	µg/l	6.33	1.62	1	"	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	6.33	0.949	1	"	"	"	"	"	X
85-01-8	Phenanthrene	BDL	U	µg/l	6.33	0.759	1	"	"	"	"	"	X
129-00-0	Pyrene	BDL	U	µg/l	6.33	3.13	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	74			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	76			*30-130 %*			"	"	"	"	"	
Soluble Metals by EPA 200/6000 Series Methods													
	Filtration	Field Filtered		N/A			1	EPA 200.7/3005A/6010			LA	1114461	
Soluble Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	BDL	U	mg/l	0.0050	0.0020	1	SW846 6010C	27-Jul-11	30-Jul-11	ARF/E	1114453	X
7440-38-2	Arsenic	BDL	U	mg/l	0.0040	0.0032	1	"	"	"	"	"	X
7440-39-3	Barium	0.372		mg/l	0.0050	0.0034	1	"	"	"	"	"	X
7440-43-9	Cadmium	BDL	U	mg/l	0.0025	0.0001	1	"	"	"	"	"	X
7440-47-3	Chromium	BDL	U	mg/l	0.0050	0.0034	1	"	"	"	"	"	X
7439-92-1	Lead	BDL	U	mg/l	0.0075	0.0045	1	"	"	"	"	"	X
7782-49-2	Selenium	BDL	U	mg/l	0.0150	0.0024	1	"	"	"	"	"	X
Soluble Metals by EPA 200 Series Methods													
7439-97-6	Mercury	0.00007	J	mg/l	0.00020	0.00007	1	EPA 245.1/7470A	27-Jul-11	28-Jul-11	EDT	1114454	X

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114630 - SW846 5030 Soil (high level)										
Blank (1114630-BLK1)					Prepared: 26-Jul-11 Analyzed: 27-Jul-11					
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	U	µg/kg wet	33.4						
Acetone	BRL	U	µg/kg wet	376						
Acrylonitrile	BRL	U	µg/kg wet	44.8						
Benzene	BRL	U	µg/kg wet	26.2						
Bromobenzene	BRL	U	µg/kg wet	31.9						
Bromochloromethane	BRL	U	µg/kg wet	16.4						
Bromodichloromethane	BRL	U	µg/kg wet	18.9						
Bromoform	BRL	U	µg/kg wet	34.6						
Bromomethane	BRL	U	µg/kg wet	90.0						
2-Butanone (MEK)	BRL	U	µg/kg wet	429						
n-Butylbenzene	BRL	U	µg/kg wet	25.0						
sec-Butylbenzene	BRL	U	µg/kg wet	48.5						
tert-Butylbenzene	BRL	U	µg/kg wet	36.2						
Carbon disulfide	BRL	U	µg/kg wet	71.4						
Carbon tetrachloride	BRL	U	µg/kg wet	49.7						
Chlorobenzene	BRL	U	µg/kg wet	28.0						
Chloroethane	BRL	U	µg/kg wet	70.8						
Chloroform	BRL	U	µg/kg wet	24.4						
Chloromethane	BRL	U	µg/kg wet	25.2						
2-Chlorotoluene	BRL	U	µg/kg wet	30.4						
4-Chlorotoluene	BRL	U	µg/kg wet	44.8						
1,2-Dibromo-3-chloropropane	BRL	U	µg/kg wet	94.6						
Dibromochloromethane	BRL	U	µg/kg wet	24.0						
1,2-Dibromoethane (EDB)	BRL	U	µg/kg wet	31.0						
Dibromomethane	BRL	U	µg/kg wet	49.9						
1,2-Dichlorobenzene	BRL	U	µg/kg wet	40.2						
1,3-Dichlorobenzene	BRL	U	µg/kg wet	49.8						
1,4-Dichlorobenzene	BRL	U	µg/kg wet	33.8						
Dichlorodifluoromethane (Freon12)	BRL	U	µg/kg wet	84.4						
1,1-Dichloroethane	BRL	U	µg/kg wet	45.6						
1,2-Dichloroethane	BRL	U	µg/kg wet	28.0						
1,1-Dichloroethene	BRL	U	µg/kg wet	24.8						
cis-1,2-Dichloroethene	BRL	U	µg/kg wet	21.0						
trans-1,2-Dichloroethene	BRL	U	µg/kg wet	41.5						
1,2-Dichloropropane	BRL	U	µg/kg wet	25.4						
1,3-Dichloropropane	BRL	U	µg/kg wet	25.2						
2,2-Dichloropropane	BRL	U	µg/kg wet	20.2						
1,1-Dichloropropene	BRL	U	µg/kg wet	30.8						
cis-1,3-Dichloropropene	BRL	U	µg/kg wet	27.2						
trans-1,3-Dichloropropene	BRL	U	µg/kg wet	14.1						
Ethylbenzene	BRL	U	µg/kg wet	30.4						
Hexachlorobutadiene	BRL	U	µg/kg wet	43.1						
2-Hexanone (MBK)	BRL	U	µg/kg wet	128						
Isopropylbenzene	BRL	U	µg/kg wet	25.1						
4-Isopropyltoluene	BRL	U	µg/kg wet	20.7						
Methyl tert-butyl ether	BRL	U	µg/kg wet	36.4						
4-Methyl-2-pentanone (MIBK)	BRL	U	µg/kg wet	163						
Methylene chloride	BRL	U	µg/kg wet	25.4						
Naphthalene	BRL	U	µg/kg wet	31.0						
n-Propylbenzene	BRL	U	µg/kg wet	30.0						
Styrene	BRL	U	µg/kg wet	37.0						
1,1,1,2-Tetrachloroethane	BRL	U	µg/kg wet	48.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114630 - SW846 5030 Soil (high level)										
Blank (1114630-BLK1)					Prepared: 26-Jul-11 Analyzed: 27-Jul-11					
1,1,2,2-Tetrachloroethane	BRL	U	µg/kg wet	38.0						
Tetrachloroethene	BRL	U	µg/kg wet	28.6						
Toluene	BRL	U	µg/kg wet	44.8						
1,2,3-Trichlorobenzene	BRL	U	µg/kg wet	43.3						
1,2,4-Trichlorobenzene	BRL	U	µg/kg wet	37.6						
1,3,5-Trichlorobenzene	BRL	U	µg/kg wet	35.4						
1,1,1-Trichloroethane	BRL	U	µg/kg wet	40.0						
1,1,2-Trichloroethane	BRL	U	µg/kg wet	43.0						
Trichloroethene	BRL	U	µg/kg wet	38.3						
Trichlorofluoromethane (Freon 11)	BRL	U	µg/kg wet	20.2						
1,2,3-Trichloropropane	BRL	U	µg/kg wet	22.6						
1,2,4-Trimethylbenzene	BRL	U	µg/kg wet	16.4						
1,3,5-Trimethylbenzene	BRL	U	µg/kg wet	49.6						
Vinyl chloride	BRL	U	µg/kg wet	46.9						
m,p-Xylene	BRL	U	µg/kg wet	97.0						
o-Xylene	BRL	U	µg/kg wet	34.2						
Tetrahydrofuran	BRL	U	µg/kg wet	92.5						
Ethyl ether	BRL	U	µg/kg wet	46.6						
Tert-amyl methyl ether	BRL	U	µg/kg wet	39.4						
Ethyl tert-butyl ether	BRL	U	µg/kg wet	17.4						
Di-isopropyl ether	BRL	U	µg/kg wet	16.1						
Tert-Butanol / butyl alcohol	BRL	U	µg/kg wet	283						
1,4-Dioxane	BRL	U	µg/kg wet	819						
trans-1,4-Dichloro-2-butene	BRL	U	µg/kg wet	128						
Ethanol	BRL	U	µg/kg wet	4180						
Surrogate: 4-Bromofluorobenzene	*30.2*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*30.5*		µg/kg wet		*30.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*31.6*		µg/kg wet		*30.0*		*105*	*70-130*		
Surrogate: Dibromofluoromethane	*27.2*		µg/kg wet		*30.0*		*91*	*70-130*		
LCS (1114630-BS1)					Prepared: 26-Jul-11 Analyzed: 27-Jul-11					
1,1,2-Trichlorotrifluoroethane (Freon 113)	18.5		µg/kg wet		20.0		93	70-130		
Acetone	14.2		µg/kg wet		20.0		71	70-130		
Acrylonitrile	18.2		µg/kg wet		20.0		91	70-130		
Benzene	20.8		µg/kg wet		20.0		104	70-130		
Bromobenzene	22.5		µg/kg wet		20.0		112	70-130		
Bromochloromethane	20.3		µg/kg wet		20.0		102	70-130		
Bromodichloromethane	23.3		µg/kg wet		20.0		116	70-130		
Bromoform	24.4		µg/kg wet		20.0		122	70-130		
Bromomethane	16.9		µg/kg wet		20.0		84	70-130		
2-Butanone (MEK)	19.8		µg/kg wet		20.0		99	70-130		
n-Butylbenzene	19.5		µg/kg wet		20.0		98	70-130		
sec-Butylbenzene	22.4		µg/kg wet		20.0		112	70-130		
tert-Butylbenzene	24.1		µg/kg wet		20.0		120	70-130		
Carbon disulfide	17.6		µg/kg wet		20.0		88	70-130		
Carbon tetrachloride	25.4		µg/kg wet		20.0		127	70-130		
Chlorobenzene	21.1		µg/kg wet		20.0		106	70-130		
Chloroethane	16.6		µg/kg wet		20.0		83	70-130		
Chloroform	18.3		µg/kg wet		20.0		92	70-130		
Chloromethane	14.5		µg/kg wet		20.0		72	70-130		
2-Chlorotoluene	21.4		µg/kg wet		20.0		107	70-130		
4-Chlorotoluene	22.2		µg/kg wet		20.0		111	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114630 - SW846 5030 Soil (high level)										
LCS (1114630-BS1)					Prepared: 26-Jul-11 Analyzed: 27-Jul-11					
1,2-Dibromo-3-chloropropane	25.5		µg/kg wet		20.0		128	70-130		
Dibromochloromethane	24.7		µg/kg wet		20.0		124	70-130		
1,2-Dibromoethane (EDB)	22.4		µg/kg wet		20.0		112	70-130		
Dibromomethane	23.1		µg/kg wet		20.0		116	70-130		
1,2-Dichlorobenzene	21.2		µg/kg wet		20.0		106	70-130		
1,3-Dichlorobenzene	21.3		µg/kg wet		20.0		107	70-130		
1,4-Dichlorobenzene	20.7		µg/kg wet		20.0		104	70-130		
Dichlorodifluoromethane (Freon12)	18.7		µg/kg wet		20.0		94	70-130		
1,1-Dichloroethane	18.1		µg/kg wet		20.0		91	70-130		
1,2-Dichloroethane	21.3		µg/kg wet		20.0		107	70-130		
1,1-Dichloroethene	18.3		µg/kg wet		20.0		91	70-130		
cis-1,2-Dichloroethene	18.6		µg/kg wet		20.0		93	70-130		
trans-1,2-Dichloroethene	18.4		µg/kg wet		20.0		92	70-130		
1,2-Dichloropropane	20.6		µg/kg wet		20.0		103	70-130		
1,3-Dichloropropane	22.2		µg/kg wet		20.0		111	70-130		
2,2-Dichloropropane	19.3		µg/kg wet		20.0		96	70-130		
1,1-Dichloropropene	21.5		µg/kg wet		20.0		107	70-130		
cis-1,3-Dichloropropene	23.2		µg/kg wet		20.0		116	70-130		
trans-1,3-Dichloropropene	24.8		µg/kg wet		20.0		124	70-130		
Ethylbenzene	22.2		µg/kg wet		20.0		111	70-130		
Hexachlorobutadiene	20.4		µg/kg wet		20.0		102	70-130		
2-Hexanone (MBK)	20.0		µg/kg wet		20.0		100	70-130		
Isopropylbenzene	21.6		µg/kg wet		20.0		108	70-130		
4-Isopropyltoluene	23.2		µg/kg wet		20.0		116	70-130		
Methyl tert-butyl ether	21.4		µg/kg wet		20.0		107	70-130		
4-Methyl-2-pentanone (MIBK)	25.2		µg/kg wet		20.0		126	70-130		
Methylene chloride	17.2		µg/kg wet		20.0		86	70-130		
Naphthalene	23.2		µg/kg wet		20.0		116	70-130		
n-Propylbenzene	22.5		µg/kg wet		20.0		113	70-130		
Styrene	20.1		µg/kg wet		20.0		101	70-130		
1,1,1,2-Tetrachloroethane	23.3		µg/kg wet		20.0		117	70-130		
1,1,2,2-Tetrachloroethane	23.1		µg/kg wet		20.0		115	70-130		
Tetrachloroethene	22.7		µg/kg wet		20.0		114	70-130		
Toluene	21.2		µg/kg wet		20.0		106	70-130		
1,2,3-Trichlorobenzene	20.2		µg/kg wet		20.0		101	70-130		
1,2,4-Trichlorobenzene	20.7		µg/kg wet		20.0		103	70-130		
1,3,5-Trichlorobenzene	20.6		µg/kg wet		20.0		103	70-130		
1,1,1-Trichloroethane	25.3		µg/kg wet		20.0		126	70-130		
1,1,2-Trichloroethane	23.0		µg/kg wet		20.0		115	70-130		
Trichloroethene	21.7		µg/kg wet		20.0		109	70-130		
Trichlorofluoromethane (Freon 11)	18.7		µg/kg wet		20.0		94	70-130		
1,2,3-Trichloropropane	23.2		µg/kg wet		20.0		116	70-130		
1,2,4-Trimethylbenzene	20.9		µg/kg wet		20.0		105	70-130		
1,3,5-Trimethylbenzene	23.8		µg/kg wet		20.0		119	70-130		
Vinyl chloride	18.9		µg/kg wet		20.0		95	70-130		
m,p-Xylene	45.8		µg/kg wet		40.0		114	70-130		
o-Xylene	23.2		µg/kg wet		20.0		116	70-130		
Tetrahydrofuran	25.5		µg/kg wet		20.0		128	70-130		
Ethyl ether	20.0		µg/kg wet		20.0		100	70-130		
Tert-amyl methyl ether	25.1		µg/kg wet		20.0		125	70-130		
Ethyl tert-butyl ether	21.0		µg/kg wet		20.0		105	70-130		
Di-isopropyl ether	16.9		µg/kg wet		20.0		85	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114630 - SW846 5030 Soil (high level)										
LCS (1114630-BS1)					Prepared: 26-Jul-11 Analyzed: 27-Jul-11					
Tert-Butanol / butyl alcohol	243		µg/kg wet		200		121	70-130		
1,4-Dioxane	231		µg/kg wet		200		115	70-130		
trans-1,4-Dichloro-2-butene	18.0		µg/kg wet		20.0		90	70-130		
Ethanol	346		µg/kg wet		400		86	70-130		
Surrogate: 4-Bromofluorobenzene	*31.0*		µg/kg wet		*30.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*30.7*		µg/kg wet		*30.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*30.8*		µg/kg wet		*30.0*		*103*	*70-130*		
Surrogate: Dibromofluoromethane	*28.4*		µg/kg wet		*30.0*		*95*	*70-130*		
LCS Dup (1114630-BSD1)					Prepared: 26-Jul-11 Analyzed: 27-Jul-11					
1,1,2-Trichlorotrifluoroethane (Freon 113)	18.4		µg/kg wet		20.0		92	70-130	0.8	25
Acetone	11.7		µg/kg wet		20.0		58	70-130	20	50
Acrylonitrile	17.1		µg/kg wet		20.0		85	70-130	6	25
Benzene	20.0		µg/kg wet		20.0		100	70-130	4	25
Bromobenzene	21.5		µg/kg wet		20.0		108	70-130	4	25
Bromochloromethane	19.0		µg/kg wet		20.0		95	70-130	7	25
Bromodichloromethane	22.4		µg/kg wet		20.0		112	70-130	4	25
Bromoform	23.7		µg/kg wet		20.0		119	70-130	3	25
Bromomethane	16.2		µg/kg wet		20.0		81	70-130	4	50
2-Butanone (MEK)	19.2		µg/kg wet		20.0		96	70-130	3	50
n-Butylbenzene	17.2		µg/kg wet		20.0		86	70-130	13	25
sec-Butylbenzene	21.5		µg/kg wet		20.0		107	70-130	4	25
tert-Butylbenzene	23.0		µg/kg wet		20.0		115	70-130	5	25
Carbon disulfide	17.2		µg/kg wet		20.0		86	70-130	3	25
Carbon tetrachloride	25.2		µg/kg wet		20.0		126	70-130	0.7	25
Chlorobenzene	19.8		µg/kg wet		20.0		99	70-130	7	25
Chloroethane	15.6		µg/kg wet		20.0		78	70-130	6	50
Chloroform	17.6		µg/kg wet		20.0		88	70-130	4	25
Chloromethane	14.0		µg/kg wet		20.0		70	70-130	4	25
2-Chlorotoluene	20.1		µg/kg wet		20.0		100	70-130	7	25
4-Chlorotoluene	21.1		µg/kg wet		20.0		106	70-130	5	25
1,2-Dibromo-3-chloropropane	23.5		µg/kg wet		20.0		118	70-130	8	25
Dibromochloromethane	23.8		µg/kg wet		20.0		119	70-130	4	50
1,2-Dibromoethane (EDB)	21.8		µg/kg wet		20.0		109	70-130	3	25
Dibromomethane	22.5		µg/kg wet		20.0		113	70-130	3	25
1,2-Dichlorobenzene	19.3		µg/kg wet		20.0		96	70-130	9	25
1,3-Dichlorobenzene	20.5		µg/kg wet		20.0		102	70-130	4	25
1,4-Dichlorobenzene	18.2		µg/kg wet		20.0		91	70-130	13	25
Dichlorodifluoromethane (Freon12)	19.1		µg/kg wet		20.0		96	70-130	2	50
1,1-Dichloroethane	17.0		µg/kg wet		20.0		85	70-130	6	25
1,2-Dichloroethane	20.5		µg/kg wet		20.0		103	70-130	4	25
1,1-Dichloroethene	17.4		µg/kg wet		20.0		87	70-130	5	25
cis-1,2-Dichloroethene	18.1		µg/kg wet		20.0		90	70-130	3	25
trans-1,2-Dichloroethene	17.8		µg/kg wet		20.0		89	70-130	3	25
1,2-Dichloropropane	20.1		µg/kg wet		20.0		100	70-130	3	25
1,3-Dichloropropane	21.9		µg/kg wet		20.0		109	70-130	2	25
2,2-Dichloropropane	17.8		µg/kg wet		20.0		89	70-130	8	25
1,1-Dichloropropene	20.4		µg/kg wet		20.0		102	70-130	5	25
cis-1,3-Dichloropropene	22.6		µg/kg wet		20.0		113	70-130	2	25
trans-1,3-Dichloropropene	23.9		µg/kg wet		20.0		120	70-130	4	25
Ethylbenzene	21.2		µg/kg wet		20.0		106	70-130	5	25
Hexachlorobutadiene	18.8		µg/kg wet		20.0		94	70-130	8	50

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114630 - SW846 5030 Soil (high level)										
LCS Dup (1114630-BSD1)					Prepared: 26-Jul-11 Analyzed: 27-Jul-11					
2-Hexanone (MBK)	20.9		µg/kg wet		20.0		105	70-130	4	25
Isopropylbenzene	20.5		µg/kg wet		20.0		102	70-130	5	25
4-Isopropyltoluene	20.7		µg/kg wet		20.0		103	70-130	11	25
Methyl tert-butyl ether	20.2		µg/kg wet		20.0		101	70-130	6	25
4-Methyl-2-pentanone (MIBK)	21.6		µg/kg wet		20.0		108	70-130	15	50
Methylene chloride	16.9		µg/kg wet		20.0		85	70-130	2	25
Naphthalene	21.5		µg/kg wet		20.0		108	70-130	8	25
n-Propylbenzene	21.7		µg/kg wet		20.0		109	70-130	4	25
Styrene	18.7		µg/kg wet		20.0		94	70-130	7	25
1,1,1,2-Tetrachloroethane	21.6		µg/kg wet		20.0		108	70-130	8	25
1,1,2,2-Tetrachloroethane	22.3		µg/kg wet		20.0		111	70-130	4	25
Tetrachloroethene	21.7		µg/kg wet		20.0		109	70-130	4	25
Toluene	20.5		µg/kg wet		20.0		103	70-130	3	25
1,2,3-Trichlorobenzene	19.0		µg/kg wet		20.0		95	70-130	6	25
1,2,4-Trichlorobenzene	19.5		µg/kg wet		20.0		97	70-130	6	25
1,3,5-Trichlorobenzene	18.9		µg/kg wet		20.0		95	70-130	8	25
1,1,1-Trichloroethane	24.4		µg/kg wet		20.0		122	70-130	3	25
1,1,2-Trichloroethane	21.8		µg/kg wet		20.0		109	70-130	5	25
Trichloroethene	21.3		µg/kg wet		20.0		106	70-130	2	25
Trichlorofluoromethane (Freon 11)	18.2		µg/kg wet		20.0		91	70-130	3	50
1,2,3-Trichloropropane	22.0		µg/kg wet		20.0		110	70-130	6	25
1,2,4-Trimethylbenzene	19.7		µg/kg wet		20.0		99	70-130	6	25
1,3,5-Trimethylbenzene	22.8		µg/kg wet		20.0		114	70-130	4	25
Vinyl chloride	15.6		µg/kg wet		20.0		78	70-130	19	25
m,p-Xylene	43.1		µg/kg wet		40.0		108	70-130	6	25
o-Xylene	21.7		µg/kg wet		20.0		109	70-130	6	25
Tetrahydrofuran	24.4		µg/kg wet		20.0		122	70-130	4	25
Ethyl ether	18.6		µg/kg wet		20.0		93	70-130	7	50
Tert-amyl methyl ether	23.8		µg/kg wet		20.0		119	70-130	5	25
Ethyl tert-butyl ether	19.6		µg/kg wet		20.0		98	70-130	7	25
Di-isopropyl ether	16.2		µg/kg wet		20.0		81	70-130	4	25
Tert-Butanol / butyl alcohol	221		µg/kg wet		200		110	70-130	9	25
1,4-Dioxane	258		µg/kg wet		200		129	70-130	11	25
trans-1,4-Dichloro-2-butene	17.5		µg/kg wet		20.0		87	70-130	3	25
Ethanol	335		µg/kg wet		400		84	70-130	3	30
Surrogate: 4-Bromofluorobenzene	*32.2*		µg/kg wet		*30.0*		*107*	*70-130*		
Surrogate: Toluene-d8	*30.8*		µg/kg wet		*30.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*30.2*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: Dibromofluoromethane	*27.4*		µg/kg wet		*30.0*		*91*	*70-130*		
Matrix Spike (1114630-MS1)			**Source: SB32020-06**		Prepared: 26-Jul-11 Analyzed: 27-Jul-11					
1,1,2-Trichlorotrifluoroethane (Freon 113)	16.4		µg/kg dry		20.0	BRL	82	70-130		
Acetone	11.5	QM7	µg/kg dry		20.0	BRL	58	70-130		
Acrylonitrile	15.4		µg/kg dry		20.0	BRL	77	70-130		
Benzene	23.0		µg/kg dry		20.0	BRL	115	70-130		
Bromobenzene	25.4		µg/kg dry		20.0	BRL	127	70-130		
Bromochloromethane	20.0		µg/kg dry		20.0	BRL	100	70-130		
Bromodichloromethane	22.5		µg/kg dry		20.0	BRL	113	70-130		
Bromoform	22.9		µg/kg dry		20.0	BRL	114	70-130		
Bromomethane	9.3	QM7	µg/kg dry		20.0	BRL	47	70-130		
2-Butanone (MEK)	16.9		µg/kg dry		20.0	BRL	84	70-130		
n-Butylbenzene	22.2		µg/kg dry		20.0	BRL	111	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114630 - SW846 5030 Soil (high level)										
Matrix Spike (1114630-MS1)			**Source: SB32020-06**		Prepared: 26-Jul-11 Analyzed: 27-Jul-11					
sec-Butylbenzene	26.3	QM7	µg/kg dry		20.0	BRL	131	70-130		
tert-Butylbenzene	28.8	QM7	µg/kg dry		20.0	BRL	144	70-130		
Carbon disulfide	12.1	QM7	µg/kg dry		20.0	BRL	61	70-130		
Carbon tetrachloride	26.2	QM7	µg/kg dry		20.0	BRL	131	70-130		
Chlorobenzene	24.1		µg/kg dry		20.0	BRL	120	70-130		
Chloroethane	15.6		µg/kg dry		20.0	BRL	78	70-130		
Chloroform	17.9		µg/kg dry		20.0	BRL	89	70-130		
Chloromethane	17.3		µg/kg dry		20.0	BRL	86	70-130		
2-Chlorotoluene	23.3		µg/kg dry		20.0	BRL	117	70-130		
4-Chlorotoluene	25.1		µg/kg dry		20.0	BRL	125	70-130		
1,2-Dibromo-3-chloropropane	22.6		µg/kg dry		20.0	BRL	113	70-130		
Dibromochloromethane	24.5		µg/kg dry		20.0	BRL	123	70-130		
1,2-Dibromoethane (EDB)	24.8		µg/kg dry		20.0	BRL	124	70-130		
Dibromomethane	23.7		µg/kg dry		20.0	BRL	118	70-130		
1,2-Dichlorobenzene	23.4		µg/kg dry		20.0	BRL	117	70-130		
1,3-Dichlorobenzene	23.7		µg/kg dry		20.0	BRL	119	70-130		
1,4-Dichlorobenzene	22.0		µg/kg dry		20.0	BRL	110	70-130		
Dichlorodifluoromethane (Freon12)	13.0	QM7	µg/kg dry		20.0	BRL	65	70-130		
1,1-Dichloroethane	18.2		µg/kg dry		20.0	BRL	91	70-130		
1,2-Dichloroethane	21.4		µg/kg dry		20.0	BRL	107	70-130		
1,1-Dichloroethene	18.2		µg/kg dry		20.0	BRL	91	70-130		
cis-1,2-Dichloroethene	18.9		µg/kg dry		20.0	BRL	95	70-130		
trans-1,2-Dichloroethene	18.6		µg/kg dry		20.0	BRL	93	70-130		
1,2-Dichloropropane	22.8		µg/kg dry		20.0	BRL	114	70-130		
1,3-Dichloropropane	24.9		µg/kg dry		20.0	BRL	124	70-130		
2,2-Dichloropropane	18.3		µg/kg dry		20.0	BRL	91	70-130		
1,1-Dichloropropene	24.4		µg/kg dry		20.0	BRL	122	70-130		
cis-1,3-Dichloropropene	23.5		µg/kg dry		20.0	BRL	118	70-130		
trans-1,3-Dichloropropene	24.8		µg/kg dry		20.0	BRL	124	70-130		
Ethylbenzene	25.1		µg/kg dry		20.0	BRL	125	70-130		
Hexachlorobutadiene	25.7		µg/kg dry		20.0	BRL	129	70-130		
2-Hexanone (MBK)	23.7		µg/kg dry		20.0	BRL	118	70-130		
Isopropylbenzene	25.3		µg/kg dry		20.0	BRL	127	70-130		
4-Isopropyltoluene	26.7	QM7	µg/kg dry		20.0	BRL	134	70-130		
Methyl tert-butyl ether	20.8		µg/kg dry		20.0	BRL	104	70-130		
4-Methyl-2-pentanone (MIBK)	27.7	QM7	µg/kg dry		20.0	BRL	138	70-130		
Methylene chloride	17.5		µg/kg dry		20.0	BRL	88	70-130		
Naphthalene	26.7	QM7	µg/kg dry		20.0	BRL	134	70-130		
n-Propylbenzene	25.9		µg/kg dry		20.0	BRL	130	70-130		
Styrene	22.6		µg/kg dry		20.0	BRL	113	70-130		
1,1,1,2-Tetrachloroethane	24.9		µg/kg dry		20.0	BRL	125	70-130		
1,1,2,2-Tetrachloroethane	24.3		µg/kg dry		20.0	BRL	122	70-130		
Tetrachloroethene	27.0	QM7	µg/kg dry		20.0	BRL	135	70-130		
Toluene	24.3		µg/kg dry		20.0	BRL	122	70-130		
1,2,3-Trichlorobenzene	23.4		µg/kg dry		20.0	BRL	117	70-130		
1,2,4-Trichlorobenzene	24.2		µg/kg dry		20.0	BRL	121	70-130		
1,3,5-Trichlorobenzene	23.8		µg/kg dry		20.0	BRL	119	70-130		
1,1,1-Trichloroethane	26.3	QM7	µg/kg dry		20.0	BRL	132	70-130		
1,1,2-Trichloroethane	26.0		µg/kg dry		20.0	BRL	130	70-130		
Trichloroethene	25.2		µg/kg dry		20.0	BRL	126	70-130		
Trichlorofluoromethane (Freon 11)	16.2		µg/kg dry		20.0	BRL	81	70-130		
1,2,3-Trichloropropane	24.5		µg/kg dry		20.0	BRL	122	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114630 - SW846 5030 Soil (high level)										
Matrix Spike (1114630-MS1)			**Source: SB32020-06**		Prepared: 26-Jul-11 Analyzed: 27-Jul-11					
1,2,4-Trimethylbenzene	23.6		µg/kg dry		20.0	BRL	118	70-130		
1,3,5-Trimethylbenzene	27.3	QM7	µg/kg dry		20.0	BRL	137	70-130		
Vinyl chloride	13.1	QM7	µg/kg dry		20.0	BRL	65	70-130		
m,p-Xylene	52.6	QM7	µg/kg dry		40.0	BRL	132	70-130		
o-Xylene	26.2	QM7	µg/kg dry		20.0	BRL	131	70-130		
Tetrahydrofuran	24.4		µg/kg dry		20.0	BRL	122	70-130		
Ethyl ether	18.8		µg/kg dry		20.0	BRL	94	70-130		
Tert-amyl methyl ether	25.9		µg/kg dry		20.0	BRL	129	70-130		
Ethyl tert-butyl ether	22.3		µg/kg dry		20.0	BRL	111	70-130		
Di-isopropyl ether	16.6		µg/kg dry		20.0	BRL	83	70-130		
Tert-Butanol / butyl alcohol	257		µg/kg dry		200	BRL	128	70-130		
1,4-Dioxane	294	QM7	µg/kg dry		200	BRL	147	70-130		
trans-1,4-Dichloro-2-butene	19.6		µg/kg dry		20.0	BRL	98	70-130		
Ethanol	391		µg/kg dry		400	BRL	98	70-130		
Surrogate: 4-Bromofluorobenzene	*31.8*		µg/kg dry		*30.0*		*106*	*70-130*		
Surrogate: Toluene-d8	*31.4*		µg/kg dry		*30.0*		*105*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*29.0*		µg/kg dry		*30.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*26.0*		µg/kg dry		*30.0*		*87*	*70-130*		
Matrix Spike Dup (1114630-MSD1)			**Source: SB32020-06**		Prepared: 26-Jul-11 Analyzed: 27-Jul-11					
1,1,2-Trichlorotrifluoroethane (Freon 113)	15.7		µg/kg dry		20.0	BRL	79	70-130	4	30
Acetone	11.6	QM7	µg/kg dry		20.0	BRL	58	70-130	0.4	30
Acrylonitrile	15.2		µg/kg dry		20.0	BRL	76	70-130	0.9	30
Benzene	21.8		µg/kg dry		20.0	BRL	109	70-130	5	30
Bromobenzene	24.8		µg/kg dry		20.0	BRL	124	70-130	2	30
Bromochloromethane	18.9		µg/kg dry		20.0	BRL	95	70-130	6	30
Bromodichloromethane	22.1		µg/kg dry		20.0	BRL	110	70-130	2	30
Bromoform	22.7		µg/kg dry		20.0	BRL	114	70-130	0.8	30
Bromomethane	8.9	QM7	µg/kg dry		20.0	BRL	45	70-130	4	30
2-Butanone (MEK)	21.4		µg/kg dry		20.0	BRL	107	70-130	24	30
n-Butylbenzene	21.8		µg/kg dry		20.0	BRL	109	70-130	1	30
sec-Butylbenzene	26.2	QM7	µg/kg dry		20.0	BRL	131	70-130	0.4	30
tert-Butylbenzene	28.5	QM7	µg/kg dry		20.0	BRL	143	70-130	1	30
Carbon disulfide	12.4	QM7	µg/kg dry		20.0	BRL	62	70-130	2	30
Carbon tetrachloride	24.9		µg/kg dry		20.0	BRL	125	70-130	5	30
Chlorobenzene	23.5		µg/kg dry		20.0	BRL	117	70-130	2	30
Chloroethane	14.3		µg/kg dry		20.0	BRL	72	70-130	9	30
Chloroform	17.5		µg/kg dry		20.0	BRL	88	70-130	2	30
Chloromethane	16.5		µg/kg dry		20.0	BRL	82	70-130	5	30
2-Chlorotoluene	23.4		µg/kg dry		20.0	BRL	117	70-130	0.3	30
4-Chlorotoluene	25.0		µg/kg dry		20.0	BRL	125	70-130	0.2	30
1,2-Dibromo-3-chloropropane	21.2		µg/kg dry		20.0	BRL	106	70-130	6	30
Dibromochloromethane	23.9		µg/kg dry		20.0	BRL	119	70-130	3	30
1,2-Dibromoethane (EDB)	24.0		µg/kg dry		20.0	BRL	120	70-130	3	30
Dibromomethane	23.1		µg/kg dry		20.0	BRL	116	70-130	2	30
1,2-Dichlorobenzene	22.6		µg/kg dry		20.0	BRL	113	70-130	3	30
1,3-Dichlorobenzene	23.8		µg/kg dry		20.0	BRL	119	70-130	0.3	30
1,4-Dichlorobenzene	22.2		µg/kg dry		20.0	BRL	111	70-130	1	30
Dichlorodifluoromethane (Freon12)	11.5	QM7	µg/kg dry		20.0	BRL	58	70-130	12	30
1,1-Dichloroethane	17.4		µg/kg dry		20.0	BRL	87	70-130	4	30
1,2-Dichloroethane	20.2		µg/kg dry		20.0	BRL	101	70-130	6	30
1,1-Dichloroethene	17.3		µg/kg dry		20.0	BRL	86	70-130	6	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114630 - SW846 5030 Soil (high level)										
Matrix Spike Dup (1114630-MSD1)			**Source: SB32020-06**		Prepared: 26-Jul-11 Analyzed: 27-Jul-11					
cis-1,2-Dichloroethene	18.6		µg/kg dry		20.0	BRL	93	70-130	2	30
trans-1,2-Dichloroethene	18.4		µg/kg dry		20.0	BRL	92	70-130	1	30
1,2-Dichloropropane	21.6		µg/kg dry		20.0	BRL	108	70-130	5	30
1,3-Dichloropropane	23.7		µg/kg dry		20.0	BRL	118	70-130	5	30
2,2-Dichloropropane	17.4		µg/kg dry		20.0	BRL	87	70-130	5	30
1,1-Dichloropropene	23.0		µg/kg dry		20.0	BRL	115	70-130	6	30
cis-1,3-Dichloropropene	23.2		µg/kg dry		20.0	BRL	116	70-130	1	30
trans-1,3-Dichloropropene	24.2		µg/kg dry		20.0	BRL	121	70-130	3	30
Ethylbenzene	24.7		µg/kg dry		20.0	BRL	124	70-130	1	30
Hexachlorobutadiene	24.8		µg/kg dry		20.0	BRL	124	70-130	4	30
2-Hexanone (MBK)	22.4		µg/kg dry		20.0	BRL	112	70-130	6	30
Isopropylbenzene	24.6		µg/kg dry		20.0	BRL	123	70-130	3	30
4-Isopropyltoluene	26.3	QM7	µg/kg dry		20.0	BRL	132	70-130	2	30
Methyl tert-butyl ether	20.2		µg/kg dry		20.0	BRL	101	70-130	3	30
4-Methyl-2-pentanone (MIBK)	27.1	QM7	µg/kg dry		20.0	BRL	135	70-130	2	30
Methylene chloride	17.1		µg/kg dry		20.0	BRL	85	70-130	2	30
Naphthalene	25.4		µg/kg dry		20.0	BRL	127	70-130	5	30
n-Propylbenzene	26.8	QM7	µg/kg dry		20.0	BRL	134	70-130	3	30
Styrene	23.0		µg/kg dry		20.0	BRL	115	70-130	2	30
1,1,1,2-Tetrachloroethane	24.4		µg/kg dry		20.0	BRL	122	70-130	2	30
1,1,2,2-Tetrachloroethane	23.6		µg/kg dry		20.0	BRL	118	70-130	3	30
Tetrachloroethene	25.6		µg/kg dry		20.0	BRL	128	70-130	5	30
Toluene	23.8		µg/kg dry		20.0	BRL	119	70-130	2	30
1,2,3-Trichlorobenzene	23.1		µg/kg dry		20.0	BRL	116	70-130	1	30
1,2,4-Trichlorobenzene	24.1		µg/kg dry		20.0	BRL	121	70-130	0.1	30
1,3,5-Trichlorobenzene	23.7		µg/kg dry		20.0	BRL	119	70-130	0.5	30
1,1,1-Trichloroethane	25.1		µg/kg dry		20.0	BRL	126	70-130	5	30
1,1,2-Trichloroethane	24.9		µg/kg dry		20.0	BRL	125	70-130	4	30
Trichloroethene	24.1		µg/kg dry		20.0	BRL	120	70-130	5	30
Trichlorofluoromethane (Freon 11)	15.0		µg/kg dry		20.0	BRL	75	70-130	8	30
1,2,3-Trichloropropane	23.6		µg/kg dry		20.0	BRL	118	70-130	4	30
1,2,4-Trimethylbenzene	23.2		µg/kg dry		20.0	BRL	116	70-130	1	30
1,3,5-Trimethylbenzene	27.3	QM7	µg/kg dry		20.0	BRL	137	70-130	0.07	30
Vinyl chloride	12.5	QM7	µg/kg dry		20.0	BRL	63	70-130	4	30
m,p-Xylene	51.2		µg/kg dry		40.0	BRL	128	70-130	3	30
o-Xylene	25.6		µg/kg dry		20.0	BRL	128	70-130	2	30
Tetrahydrofuran	21.9		µg/kg dry		20.0	BRL	110	70-130	11	30
Ethyl ether	17.8		µg/kg dry		20.0	BRL	89	70-130	5	30
Tert-amyl methyl ether	25.0		µg/kg dry		20.0	BRL	125	70-130	3	30
Ethyl tert-butyl ether	20.5		µg/kg dry		20.0	BRL	102	70-130	8	30
Di-isopropyl ether	16.5		µg/kg dry		20.0	BRL	82	70-130	0.8	30
Tert-Butanol / butyl alcohol	255		µg/kg dry		200	BRL	127	70-130	0.9	30
1,4-Dioxane	295	QM7	µg/kg dry		200	BRL	147	70-130	0.3	30
trans-1,4-Dichloro-2-butene	18.7		µg/kg dry		20.0	BRL	93	70-130	5	30
Ethanol	386		µg/kg dry		400	BRL	97	70-130	1	30
Surrogate: 4-Bromofluorobenzene	*31.2*		µg/kg dry		*30.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*30.9*		µg/kg dry		*30.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.8*		µg/kg dry		*30.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*25.0*		µg/kg dry		*30.0*		*83*	*70-130*		
Batch 1114738 - SW846 5030 Water MS										
Blank (1114738-BLK1)					Prepared & Analyzed: 27-Jul-11					

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114738 - SW846 5030 Water MS										
Blank (1114738-BLK1)					Prepared & Analyzed: 27-Jul-11					
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	U	µg/l	0.6						
Acetone	BRL	U	µg/l	2.6						
Acrylonitrile	BRL	U	µg/l	0.5						
Benzene	BRL	U	µg/l	0.7						
Bromobenzene	BRL	U	µg/l	0.7						
Bromochloromethane	BRL	U	µg/l	0.7						
Bromodichloromethane	BRL	U	µg/l	0.5						
Bromoform	BRL	U	µg/l	0.6						
Bromomethane	BRL	U	µg/l	1.1						
2-Butanone (MEK)	BRL	U	µg/l	1.7						
n-Butylbenzene	BRL	U	µg/l	0.6						
sec-Butylbenzene	BRL	U	µg/l	0.8						
tert-Butylbenzene	BRL	U	µg/l	0.7						
Carbon disulfide	BRL	U	µg/l	0.6						
Carbon tetrachloride	BRL	U	µg/l	0.5						
Chlorobenzene	BRL	U	µg/l	0.7						
Chloroethane	BRL	U	µg/l	1.0						
Chloroform	BRL	U	µg/l	0.7						
Chloromethane	BRL	U	µg/l	1.5						
2-Chlorotoluene	BRL	U	µg/l	0.8						
4-Chlorotoluene	BRL	U	µg/l	0.7						
1,2-Dibromo-3-chloropropane	BRL	U	µg/l	0.9						
Dibromochloromethane	BRL	U	µg/l	0.3						
1,2-Dibromoethane (EDB)	BRL	U	µg/l	0.3						
Dibromomethane	BRL	U	µg/l	0.7						
1,2-Dichlorobenzene	BRL	U	µg/l	0.7						
1,3-Dichlorobenzene	BRL	U	µg/l	0.7						
1,4-Dichlorobenzene	BRL	U	µg/l	0.6						
Dichlorodifluoromethane (Freon12)	BRL	U	µg/l	0.4						
1,1-Dichloroethane	BRL	U	µg/l	0.7						
1,2-Dichloroethane	BRL	U	µg/l	0.8						
1,1-Dichloroethene	BRL	U	µg/l	0.5						
cis-1,2-Dichloroethene	BRL	U	µg/l	0.7						
trans-1,2-Dichloroethene	BRL	U	µg/l	0.7						
1,2-Dichloropropane	BRL	U	µg/l	0.7						
1,3-Dichloropropane	BRL	U	µg/l	0.8						
2,2-Dichloropropane	BRL	U	µg/l	0.6						
1,1-Dichloropropene	BRL	U	µg/l	0.6						
cis-1,3-Dichloropropene	BRL	U	µg/l	0.3						
trans-1,3-Dichloropropene	BRL	U	µg/l	0.5						
Ethylbenzene	BRL	U	µg/l	0.7						
Hexachlorobutadiene	BRL	U	µg/l	0.4						
2-Hexanone (MBK)	BRL	U	µg/l	0.5						
Isopropylbenzene	BRL	U	µg/l	0.6						
4-Isopropyltoluene	BRL	U	µg/l	0.6						
Methyl tert-butyl ether	BRL	U	µg/l	0.7						
4-Methyl-2-pentanone (MIBK)	BRL	U	µg/l	0.9						
Methylene chloride	BRL	U	µg/l	0.7						
Naphthalene	BRL	U	µg/l	0.3						
n-Propylbenzene	BRL	U	µg/l	0.8						
Styrene	BRL	U	µg/l	0.6						
1,1,1,2-Tetrachloroethane	BRL	U	µg/l	0.6						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114738 - SW846 5030 Water MS										
Blank (1114738-BLK1)						Prepared & Analyzed: 27-Jul-11				
1,1,2,2-Tetrachloroethane	BRL	U	µg/l	0.3						
Tetrachloroethene	BRL	U	µg/l	0.7						
Toluene	BRL	U	µg/l	0.8						
1,2,3-Trichlorobenzene	BRL	U	µg/l	0.4						
1,2,4-Trichlorobenzene	BRL	U	µg/l	0.4						
1,3,5-Trichlorobenzene	BRL	U	µg/l	0.8						
1,1,1-Trichloroethane	BRL	U	µg/l	0.6						
1,1,2-Trichloroethane	BRL	U	µg/l	0.6						
Trichloroethene	BRL	U	µg/l	0.8						
Trichlorofluoromethane (Freon 11)	BRL	U	µg/l	0.6						
1,2,3-Trichloropropane	BRL	U	µg/l	0.7						
1,2,4-Trimethylbenzene	BRL	U	µg/l	0.8						
1,3,5-Trimethylbenzene	BRL	U	µg/l	0.7						
Vinyl chloride	BRL	U	µg/l	0.8						
m,p-Xylene	BRL	U	µg/l	1.6						
o-Xylene	BRL	U	µg/l	0.9						
Tetrahydrofuran	BRL	U	µg/l	1.4						
Ethyl ether	BRL	U	µg/l	0.7						
Tert-amyl methyl ether	BRL	U	µg/l	0.7						
Ethyl tert-butyl ether	BRL	U	µg/l	0.8						
Di-isopropyl ether	BRL	U	µg/l	0.7						
Tert-Butanol / butyl alcohol	BRL	U	µg/l	8.6						
1,4-Dioxane	BRL	U	µg/l	14.0						
trans-1,4-Dichloro-2-butene	BRL	U	µg/l	0.8						
Ethanol	BRL	U	µg/l	35.7						
Surrogate: 4-Bromofluorobenzene	*50.0*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: Toluene-d8	*49.9*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*54.2*		µg/l		*50.0*		*108*	*70-130*		
Surrogate: Dibromofluoromethane	*53.4*		µg/l		*50.0*		*107*	*70-130*		
LCS (1114738-BS1)						Prepared & Analyzed: 27-Jul-11				
1,1,2-Trichlorotrifluoroethane (Freon 113)	18.1		µg/l		20.0		90	70-130		
Acetone	15.5		µg/l		20.0		78	70-130		
Acrylonitrile	16.6		µg/l		20.0		83	70-130		
Benzene	19.0		µg/l		20.0		95	70-130		
Bromobenzene	19.8		µg/l		20.0		99	70-130		
Bromochloromethane	19.6		µg/l		20.0		98	70-130		
Bromodichloromethane	20.2		µg/l		20.0		101	70-130		
Bromoform	22.5		µg/l		20.0		112	70-130		
Bromomethane	23.0		µg/l		20.0		115	70-130		
2-Butanone (MEK)	17.7		µg/l		20.0		89	70-130		
n-Butylbenzene	20.6		µg/l		20.0		103	70-130		
sec-Butylbenzene	22.0		µg/l		20.0		110	70-130		
tert-Butylbenzene	23.0		µg/l		20.0		115	70-130		
Carbon disulfide	17.4		µg/l		20.0		87	70-130		
Carbon tetrachloride	21.5		µg/l		20.0		108	70-130		
Chlorobenzene	18.6		µg/l		20.0		93	70-130		
Chloroethane	18.2		µg/l		20.0		91	70-130		
Chloroform	18.7		µg/l		20.0		94	70-130		
Chloromethane	19.8		µg/l		20.0		99	70-130		
2-Chlorotoluene	21.1		µg/l		20.0		106	70-130		
4-Chlorotoluene	21.7		µg/l		20.0		108	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114738 - SW846 5030 Water MS										
LCS (1114738-BS1)						Prepared & Analyzed: 27-Jul-11				
1,2-Dibromo-3-chloropropane	19.8		µg/l		20.0		99	70-130		
Dibromochloromethane	21.5		µg/l		20.0		107	70-130		
1,2-Dibromoethane (EDB)	19.8		µg/l		20.0		99	70-130		
Dibromomethane	18.6		µg/l		20.0		93	70-130		
1,2-Dichlorobenzene	19.3		µg/l		20.0		97	70-130		
1,3-Dichlorobenzene	20.5		µg/l		20.0		102	70-130		
1,4-Dichlorobenzene	18.2		µg/l		20.0		91	70-130		
Dichlorodifluoromethane (Freon12)	16.7		µg/l		20.0		83	70-130		
1,1-Dichloroethane	22.1		µg/l		20.0		110	70-130		
1,2-Dichloroethane	20.0		µg/l		20.0		100	70-130		
1,1-Dichloroethene	17.5		µg/l		20.0		88	70-130		
cis-1,2-Dichloroethene	19.2		µg/l		20.0		96	70-130		
trans-1,2-Dichloroethene	17.8		µg/l		20.0		89	70-130		
1,2-Dichloropropane	18.1		µg/l		20.0		91	70-130		
1,3-Dichloropropane	17.9		µg/l		20.0		90	70-130		
2,2-Dichloropropane	22.6		µg/l		20.0		113	70-130		
1,1-Dichloropropene	20.2		µg/l		20.0		101	70-130		
cis-1,3-Dichloropropene	20.6		µg/l		20.0		103	70-130		
trans-1,3-Dichloropropene	21.9		µg/l		20.0		110	70-130		
Ethylbenzene	20.3		µg/l		20.0		102	70-130		
Hexachlorobutadiene	21.6		µg/l		20.0		108	70-130		
2-Hexanone (MBK)	17.1		µg/l		20.0		85	70-130		
Isopropylbenzene	20.4		µg/l		20.0		102	70-130		
4-Isopropyltoluene	20.6		µg/l		20.0		103	70-130		
Methyl tert-butyl ether	21.9		µg/l		20.0		109	70-130		
4-Methyl-2-pentanone (MIBK)	17.6		µg/l		20.0		88	70-130		
Methylene chloride	19.1		µg/l		20.0		96	70-130		
Naphthalene	18.3		µg/l		20.0		91	70-130		
n-Propylbenzene	21.1		µg/l		20.0		106	70-130		
Styrene	21.6		µg/l		20.0		108	70-130		
1,1,1,2-Tetrachloroethane	21.2		µg/l		20.0		106	70-130		
1,1,2,2-Tetrachloroethane	18.7		µg/l		20.0		93	70-130		
Tetrachloroethene	20.4		µg/l		20.0		102	70-130		
Toluene	18.6		µg/l		20.0		93	70-130		
1,2,3-Trichlorobenzene	21.4		µg/l		20.0		107	70-130		
1,2,4-Trichlorobenzene	21.1		µg/l		20.0		105	70-130		
1,3,5-Trichlorobenzene	20.6		µg/l		20.0		103	70-130		
1,1,1-Trichloroethane	22.0		µg/l		20.0		110	70-130		
1,1,2-Trichloroethane	18.5		µg/l		20.0		92	70-130		
Trichloroethene	19.0		µg/l		20.0		95	70-130		
Trichlorofluoromethane (Freon 11)	20.4		µg/l		20.0		102	70-130		
1,2,3-Trichloropropane	18.5		µg/l		20.0		92	70-130		
1,2,4-Trimethylbenzene	23.1		µg/l		20.0		116	70-130		
1,3,5-Trimethylbenzene	22.9		µg/l		20.0		114	70-130		
Vinyl chloride	20.9		µg/l		20.0		104	70-130		
m,p-Xylene	42.5		µg/l		40.0		106	70-130		
o-Xylene	21.4		µg/l		20.0		107	70-130		
Tetrahydrofuran	18.0		µg/l		20.0		90	70-130		
Ethyl ether	16.4		µg/l		20.0		82	70-130		
Tert-amyl methyl ether	20.2		µg/l		20.0		101	70-130		
Ethyl tert-butyl ether	19.9		µg/l		20.0		99	70-130		
Di-isopropyl ether	18.4		µg/l		20.0		92	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114738 - SW846 5030 Water MS										
LCS (1114738-BS1)						Prepared & Analyzed: 27-Jul-11				
Tert-Butanol / butyl alcohol	178		µg/l		200		89	70-130		
1,4-Dioxane	181		µg/l		200		91	70-130		
trans-1,4-Dichloro-2-butene	16.6		µg/l		20.0		83	70-130		
Ethanol	346		µg/l		400		86	70-130		
Surrogate: 4-Bromofluorobenzene	*52.2*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*50.1*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*54.4*		µg/l		*50.0*		*109*	*70-130*		
Surrogate: Dibromofluoromethane	*52.5*		µg/l		*50.0*		*105*	*70-130*		
LCS Dup (1114738-BSD1)						Prepared & Analyzed: 27-Jul-11				
1,1,2-Trichlorotrifluoroethane (Freon 113)	17.3		µg/l		20.0		87	70-130	4	25
Acetone	16.4		µg/l		20.0		82	70-130	6	50
Acrylonitrile	15.8		µg/l		20.0		79	70-130	5	25
Benzene	17.9		µg/l		20.0		90	70-130	6	25
Bromobenzene	21.4		µg/l		20.0		107	70-130	8	25
Bromochloromethane	19.7		µg/l		20.0		98	70-130	0.6	25
Bromodichloromethane	19.1		µg/l		20.0		95	70-130	6	25
Bromoform	24.0		µg/l		20.0		120	70-130	6	25
Bromomethane	21.6		µg/l		20.0		108	70-130	6	50
2-Butanone (MEK)	18.3		µg/l		20.0		92	70-130	3	50
n-Butylbenzene	18.5		µg/l		20.0		92	70-130	11	25
sec-Butylbenzene	22.5		µg/l		20.0		112	70-130	2	25
tert-Butylbenzene	23.5		µg/l		20.0		118	70-130	2	25
Carbon disulfide	16.2		µg/l		20.0		81	70-130	7	25
Carbon tetrachloride	20.9		µg/l		20.0		105	70-130	3	25
Chlorobenzene	18.9		µg/l		20.0		94	70-130	2	25
Chloroethane	16.7		µg/l		20.0		83	70-130	9	50
Chloroform	18.0		µg/l		20.0		90	70-130	4	25
Chloromethane	17.6		µg/l		20.0		88	70-130	12	25
2-Chlorotoluene	20.9		µg/l		20.0		105	70-130	1	25
4-Chlorotoluene	21.6		µg/l		20.0		108	70-130	0.4	25
1,2-Dibromo-3-chloropropane	17.8		µg/l		20.0		89	70-130	10	25
Dibromochloromethane	21.4		µg/l		20.0		107	70-130	0.2	50
1,2-Dibromoethane (EDB)	19.7		µg/l		20.0		98	70-130	0.4	25
Dibromomethane	18.4		µg/l		20.0		92	70-130	1	25
1,2-Dichlorobenzene	18.9		µg/l		20.0		94	70-130	2	25
1,3-Dichlorobenzene	21.7		µg/l		20.0		109	70-130	6	25
1,4-Dichlorobenzene	17.4		µg/l		20.0		87	70-130	4	25
Dichlorodifluoromethane (Freon12)	15.7		µg/l		20.0		78	70-130	6	50
1,1-Dichloroethane	20.3		µg/l		20.0		102	70-130	8	25
1,2-Dichloroethane	18.5		µg/l		20.0		92	70-130	8	25
1,1-Dichloroethene	17.0		µg/l		20.0		85	70-130	3	25
cis-1,2-Dichloroethene	18.4		µg/l		20.0		92	70-130	4	25
trans-1,2-Dichloroethene	16.9		µg/l		20.0		85	70-130	5	25
1,2-Dichloropropane	16.9		µg/l		20.0		84	70-130	7	25
1,3-Dichloropropane	17.6		µg/l		20.0		88	70-130	2	25
2,2-Dichloropropane	20.6		µg/l		20.0		103	70-130	9	25
1,1-Dichloropropene	18.8		µg/l		20.0		94	70-130	7	25
cis-1,3-Dichloropropene	19.5		µg/l		20.0		97	70-130	5	25
trans-1,3-Dichloropropene	21.2		µg/l		20.0		106	70-130	3	25
Ethylbenzene	20.2		µg/l		20.0		101	70-130	0.7	25
Hexachlorobutadiene	21.8		µg/l		20.0		109	70-130	1	50

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114738 - SW846 5030 Water MS										
LCS Dup (1114738-BSD1)					Prepared & Analyzed: 27-Jul-11					
2-Hexanone (MBK)	17.6		µg/l		20.0		88	70-130	3	25
Isopropylbenzene	20.8		µg/l		20.0		104	70-130	2	25
4-Isopropyltoluene	19.3		µg/l		20.0		97	70-130	6	25
Methyl tert-butyl ether	21.1		µg/l		20.0		106	70-130	3	25
4-Methyl-2-pentanone (MIBK)	17.0		µg/l		20.0		85	70-130	3	50
Methylene chloride	19.4		µg/l		20.0		97	70-130	2	25
Naphthalene	17.8		µg/l		20.0		89	70-130	2	25
n-Propylbenzene	20.9		µg/l		20.0		104	70-130	1	25
Styrene	22.0		µg/l		20.0		110	70-130	2	25
1,1,1,2-Tetrachloroethane	22.2		µg/l		20.0		111	70-130	5	25
1,1,2,2-Tetrachloroethane	18.6		µg/l		20.0		93	70-130	0.1	25
Tetrachloroethene	20.9		µg/l		20.0		104	70-130	2	25
Toluene	18.0		µg/l		20.0		90	70-130	3	25
1,2,3-Trichlorobenzene	21.7		µg/l		20.0		108	70-130	2	25
1,2,4-Trichlorobenzene	20.7		µg/l		20.0		103	70-130	2	25
1,3,5-Trichlorobenzene	20.0		µg/l		20.0		100	70-130	3	25
1,1,1-Trichloroethane	20.9		µg/l		20.0		105	70-130	5	25
1,1,2-Trichloroethane	17.8		µg/l		20.0		89	70-130	4	25
Trichloroethene	18.4		µg/l		20.0		92	70-130	3	25
Trichlorofluoromethane (Freon 11)	19.4		µg/l		20.0		97	70-130	5	50
1,2,3-Trichloropropane	18.7		µg/l		20.0		93	70-130	1	25
1,2,4-Trimethylbenzene	23.6		µg/l		20.0		118	70-130	2	25
1,3,5-Trimethylbenzene	23.2		µg/l		20.0		116	70-130	2	25
Vinyl chloride	18.8		µg/l		20.0		94	70-130	10	25
m,p-Xylene	43.2		µg/l		40.0		108	70-130	2	25
o-Xylene	21.9		µg/l		20.0		109	70-130	2	25
Tetrahydrofuran	16.9		µg/l		20.0		85	70-130	6	25
Ethyl ether	15.8		µg/l		20.0		79	70-130	4	50
Tert-amyl methyl ether	18.7		µg/l		20.0		94	70-130	8	25
Ethyl tert-butyl ether	18.8		µg/l		20.0		94	70-130	6	25
Di-isopropyl ether	16.8		µg/l		20.0		84	70-130	9	25
Tert-Butanol / butyl alcohol	177		µg/l		200		89	70-130	0.1	25
1,4-Dioxane	190		µg/l		200		95	70-130	4	25
trans-1,4-Dichloro-2-butene	17.3		µg/l		20.0		87	70-130	4	25
Ethanol	325		µg/l		400		81	70-130	6	30
Surrogate: 4-Bromofluorobenzene	*53.3*		µg/l		*50.0*		*107*	*70-130*		
Surrogate: Toluene-d8	*50.5*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.0*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Dibromofluoromethane	*51.4*		µg/l		*50.0*		*103*	*70-130*		
Batch 1114828 - SW846 5035A Soil (low level)										
Blank (1114828-BLK1)					Prepared & Analyzed: 28-Jul-11					
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	U	µg/kg wet	3.3						
Acetone	BRL	U	µg/kg wet	37.6						
Acrylonitrile	BRL	U	µg/kg wet	4.5						
Benzene	BRL	U	µg/kg wet	2.6						
Bromobenzene	BRL	U	µg/kg wet	3.2						
Bromochloromethane	BRL	U	µg/kg wet	1.6						
Bromodichloromethane	BRL	U	µg/kg wet	1.9						
Bromoform	BRL	U	µg/kg wet	3.5						
Bromomethane	BRL	U	µg/kg wet	9.0						
2-Butanone (MEK)	BRL	U	µg/kg wet	42.9						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114828 - SW846 5035A Soil (low level)										
Blank (1114828-BLK1)						Prepared & Analyzed: 28-Jul-11				
n-Butylbenzene	BRL	U	µg/kg wet	2.5						
sec-Butylbenzene	BRL	U	µg/kg wet	4.8						
tert-Butylbenzene	BRL	U	µg/kg wet	3.6						
Carbon disulfide	BRL	U	µg/kg wet	7.1						
Carbon tetrachloride	BRL	U	µg/kg wet	5.0						
Chlorobenzene	BRL	U	µg/kg wet	2.8						
Chloroethane	BRL	U	µg/kg wet	7.1						
Chloroform	BRL	U	µg/kg wet	2.4						
Chloromethane	BRL	U	µg/kg wet	2.5						
2-Chlorotoluene	BRL	U	µg/kg wet	3.0						
4-Chlorotoluene	BRL	U	µg/kg wet	4.5						
1,2-Dibromo-3-chloropropane	BRL	U	µg/kg wet	9.5						
Dibromochloromethane	BRL	U	µg/kg wet	2.4						
1,2-Dibromoethane (EDB)	BRL	U	µg/kg wet	3.1						
Dibromomethane	BRL	U	µg/kg wet	5.0						
1,2-Dichlorobenzene	BRL	U	µg/kg wet	4.0						
1,3-Dichlorobenzene	BRL	U	µg/kg wet	5.0						
1,4-Dichlorobenzene	BRL	U	µg/kg wet	3.4						
Dichlorodifluoromethane (Freon12)	BRL	U	µg/kg wet	8.4						
1,1-Dichloroethane	BRL	U	µg/kg wet	4.6						
1,2-Dichloroethane	BRL	U	µg/kg wet	2.8						
1,1-Dichloroethene	BRL	U	µg/kg wet	2.5						
cis-1,2-Dichloroethene	BRL	U	µg/kg wet	2.1						
trans-1,2-Dichloroethene	BRL	U	µg/kg wet	4.2						
1,2-Dichloropropane	BRL	U	µg/kg wet	2.5						
1,3-Dichloropropane	BRL	U	µg/kg wet	2.5						
2,2-Dichloropropane	BRL	U	µg/kg wet	2.0						
1,1-Dichloropropene	BRL	U	µg/kg wet	3.1						
cis-1,3-Dichloropropene	BRL	U	µg/kg wet	2.7						
trans-1,3-Dichloropropene	BRL	U	µg/kg wet	1.4						
Ethylbenzene	BRL	U	µg/kg wet	3.0						
Hexachlorobutadiene	BRL	U	µg/kg wet	4.3						
2-Hexanone (MBK)	BRL	U	µg/kg wet	12.8						
Isopropylbenzene	BRL	U	µg/kg wet	2.5						
4-Isopropyltoluene	BRL	U	µg/kg wet	2.1						
Methyl tert-butyl ether	BRL	U	µg/kg wet	3.6						
4-Methyl-2-pentanone (MIBK)	BRL	U	µg/kg wet	16.3						
Methylene chloride	BRL	U	µg/kg wet	2.5						
Naphthalene	BRL	U	µg/kg wet	3.1						
n-Propylbenzene	BRL	U	µg/kg wet	3.0						
Styrene	BRL	U	µg/kg wet	3.7						
1,1,1,2-Tetrachloroethane	BRL	U	µg/kg wet	4.8						
1,1,2,2-Tetrachloroethane	BRL	U	µg/kg wet	3.8						
Tetrachloroethene	BRL	U	µg/kg wet	2.9						
Toluene	BRL	U	µg/kg wet	4.5						
1,2,3-Trichlorobenzene	BRL	U	µg/kg wet	4.3						
1,2,4-Trichlorobenzene	BRL	U	µg/kg wet	3.8						
1,3,5-Trichlorobenzene	BRL	U	µg/kg wet	3.5						
1,1,1-Trichloroethane	BRL	U	µg/kg wet	4.0						
1,1,2-Trichloroethane	BRL	U	µg/kg wet	4.3						
Trichloroethene	BRL	U	µg/kg wet	3.8						
Trichlorofluoromethane (Freon 11)	BRL	U	µg/kg wet	2.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114828 - SW846 5035A Soil (low level)										
Blank (1114828-BLK1)					Prepared & Analyzed: 28-Jul-11					
1,2,3-Trichloropropane	BRL	U	µg/kg wet	2.3						
1,2,4-Trimethylbenzene	BRL	U	µg/kg wet	1.6						
1,3,5-Trimethylbenzene	BRL	U	µg/kg wet	5.0						
Vinyl chloride	BRL	U	µg/kg wet	4.7						
m,p-Xylene	BRL	U	µg/kg wet	9.7						
o-Xylene	BRL	U	µg/kg wet	3.4						
Tetrahydrofuran	BRL	U	µg/kg wet	9.2						
Ethyl ether	BRL	U	µg/kg wet	4.7						
Tert-amyl methyl ether	BRL	U	µg/kg wet	3.9						
Ethyl tert-butyl ether	BRL	U	µg/kg wet	1.7						
Di-isopropyl ether	BRL	U	µg/kg wet	1.6						
Tert-Butanol / butyl alcohol	BRL	U	µg/kg wet	28.3						
1,4-Dioxane	BRL	U	µg/kg wet	81.9						
trans-1,4-Dichloro-2-butene	BRL	U	µg/kg wet	12.8						
Ethanol	BRL	U	µg/kg wet	418						
Surrogate: 4-Bromofluorobenzene	*48.1*		µg/kg wet		*50.0*		*96*	*70-130*		
Surrogate: Toluene-d8	*48.8*		µg/kg wet		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*56.2*		µg/kg wet		*50.0*		*112*	*70-130*		
Surrogate: Dibromofluoromethane	*53.8*		µg/kg wet		*50.0*		*108*	*70-130*		
LCS (1114828-BS1)					Prepared & Analyzed: 28-Jul-11					
1,1,2-Trichlorotrifluoroethane (Freon 113)	18.8		µg/kg wet		20.0		94	70-130		
Acetone	25.4		µg/kg wet		20.0		127	70-130		
Acrylonitrile	21.5		µg/kg wet		20.0		107	70-130		
Benzene	20.2		µg/kg wet		20.0		101	70-130		
Bromobenzene	21.6		µg/kg wet		20.0		108	70-130		
Bromochloromethane	21.0		µg/kg wet		20.0		105	70-130		
Bromodichloromethane	19.6		µg/kg wet		20.0		98	70-130		
Bromoform	21.3		µg/kg wet		20.0		107	70-130		
Bromomethane	20.4		µg/kg wet		20.0		102	70-130		
2-Butanone (MEK)	21.4		µg/kg wet		20.0		107	70-130		
n-Butylbenzene	20.2		µg/kg wet		20.0		101	70-130		
sec-Butylbenzene	21.9		µg/kg wet		20.0		110	70-130		
tert-Butylbenzene	22.0		µg/kg wet		20.0		110	70-130		
Carbon disulfide	20.1		µg/kg wet		20.0		101	70-130		
Carbon tetrachloride	18.5		µg/kg wet		20.0		92	70-130		
Chlorobenzene	20.8		µg/kg wet		20.0		104	70-130		
Chloroethane	19.4		µg/kg wet		20.0		97	70-130		
Chloroform	18.7		µg/kg wet		20.0		94	70-130		
Chloromethane	18.4		µg/kg wet		20.0		92	70-130		
2-Chlorotoluene	21.4		µg/kg wet		20.0		107	70-130		
4-Chlorotoluene	21.1		µg/kg wet		20.0		105	70-130		
1,2-Dibromo-3-chloropropane	21.9		µg/kg wet		20.0		110	70-130		
Dibromochloromethane	21.0		µg/kg wet		20.0		105	70-130		
1,2-Dibromoethane (EDB)	21.3		µg/kg wet		20.0		106	70-130		
Dibromomethane	20.0		µg/kg wet		20.0		100	70-130		
1,2-Dichlorobenzene	22.0		µg/kg wet		20.0		110	70-130		
1,3-Dichlorobenzene	21.8		µg/kg wet		20.0		109	70-130		
1,4-Dichlorobenzene	20.4		µg/kg wet		20.0		102	70-130		
Dichlorodifluoromethane (Freon12)	18.7		µg/kg wet		20.0		94	70-130		
1,1-Dichloroethane	19.3		µg/kg wet		20.0		96	70-130		
1,2-Dichloroethane	19.4		µg/kg wet		20.0		97	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114828 - SW846 5035A Soil (low level)										
LCS (1114828-BS1)					Prepared & Analyzed: 28-Jul-11					
1,1-Dichloroethene	20.0		µg/kg wet		20.0		100	70-130		
cis-1,2-Dichloroethene	20.0		µg/kg wet		20.0		100	70-130		
trans-1,2-Dichloroethene	19.3		µg/kg wet		20.0		97	70-130		
1,2-Dichloropropane	20.4		µg/kg wet		20.0		102	70-130		
1,3-Dichloropropane	21.6		µg/kg wet		20.0		108	70-130		
2,2-Dichloropropane	18.0		µg/kg wet		20.0		90	70-130		
1,1-Dichloropropene	19.9		µg/kg wet		20.0		100	70-130		
cis-1,3-Dichloropropene	19.3		µg/kg wet		20.0		97	70-130		
trans-1,3-Dichloropropene	19.2		µg/kg wet		20.0		96	70-130		
Ethylbenzene	21.4		µg/kg wet		20.0		107	70-130		
Hexachlorobutadiene	19.7		µg/kg wet		20.0		98	70-130		
2-Hexanone (MBK)	20.5		µg/kg wet		20.0		102	70-130		
Isopropylbenzene	21.4		µg/kg wet		20.0		107	70-130		
4-Isopropyltoluene	20.8		µg/kg wet		20.0		104	70-130		
Methyl tert-butyl ether	20.0		µg/kg wet		20.0		100	70-130		
4-Methyl-2-pentanone (MIBK)	23.0		µg/kg wet		20.0		115	70-130		
Methylene chloride	20.3		µg/kg wet		20.0		102	70-130		
Naphthalene	20.5		µg/kg wet		20.0		102	70-130		
n-Propylbenzene	21.3		µg/kg wet		20.0		106	70-130		
Styrene	22.4		µg/kg wet		20.0		112	70-130		
1,1,1,2-Tetrachloroethane	20.7		µg/kg wet		20.0		103	70-130		
1,1,2,2-Tetrachloroethane	21.8		µg/kg wet		20.0		109	70-130		
Tetrachloroethene	20.3		µg/kg wet		20.0		101	70-130		
Toluene	20.0		µg/kg wet		20.0		100	70-130		
1,2,3-Trichlorobenzene	19.9		µg/kg wet		20.0		100	70-130		
1,2,4-Trichlorobenzene	18.8		µg/kg wet		20.0		94	70-130		
1,3,5-Trichlorobenzene	21.2		µg/kg wet		20.0		106	70-130		
1,1,1-Trichloroethane	18.4		µg/kg wet		20.0		92	70-130		
1,1,2-Trichloroethane	20.9		µg/kg wet		20.0		104	70-130		
Trichloroethene	20.0		µg/kg wet		20.0		100	70-130		
Trichlorofluoromethane (Freon 11)	19.4		µg/kg wet		20.0		97	70-130		
1,2,3-Trichloropropane	21.4		µg/kg wet		20.0		107	70-130		
1,2,4-Trimethylbenzene	21.6		µg/kg wet		20.0		108	70-130		
1,3,5-Trimethylbenzene	21.8		µg/kg wet		20.0		109	70-130		
Vinyl chloride	19.5		µg/kg wet		20.0		98	70-130		
m,p-Xylene	43.5		µg/kg wet		40.0		109	70-130		
o-Xylene	22.4		µg/kg wet		20.0		112	70-130		
Tetrahydrofuran	20.8		µg/kg wet		20.0		104	70-130		
Ethyl ether	20.3		µg/kg wet		20.0		102	70-130		
Tert-amyl methyl ether	19.5		µg/kg wet		20.0		97	70-130		
Ethyl tert-butyl ether	19.6		µg/kg wet		20.0		98	70-130		
Di-isopropyl ether	19.9		µg/kg wet		20.0		100	70-130		
Tert-Butanol / butyl alcohol	179		µg/kg wet		200		90	70-130		
1,4-Dioxane	196		µg/kg wet		200		98	70-130		
trans-1,4-Dichloro-2-butene	20.0		µg/kg wet		20.0		100	70-130		
Ethanol	410		µg/kg wet		400		102	70-130		
Surrogate: 4-Bromofluorobenzene	*50.9*		µg/kg wet		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*48.7*		µg/kg wet		*50.0*		*97*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.1*		µg/kg wet		*50.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*50.6*		µg/kg wet		*50.0*		*101*	*70-130*		
LCS Dup (1114828-BSD1)					Prepared & Analyzed: 28-Jul-11					

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114828 - SW846 5035A Soil (low level)										
LCS Dup (1114828-BSD1)					Prepared & Analyzed: 28-Jul-11					
1,1,2-Trichlorotrifluoroethane (Freon 113)	18.5		µg/kg wet		20.0		92	70-130	1	25
Acetone	20.2		µg/kg wet		20.0		101	70-130	22	50
Acrylonitrile	19.6		µg/kg wet		20.0		98	70-130	9	25
Benzene	19.9		µg/kg wet		20.0		99	70-130	2	25
Bromobenzene	21.8		µg/kg wet		20.0		109	70-130	0.5	25
Bromochloromethane	20.8		µg/kg wet		20.0		104	70-130	1	25
Bromodichloromethane	19.3		µg/kg wet		20.0		97	70-130	1	25
Bromoform	21.0		µg/kg wet		20.0		105	70-130	1	25
Bromomethane	20.0		µg/kg wet		20.0		100	70-130	2	50
2-Butanone (MEK)	20.7		µg/kg wet		20.0		104	70-130	3	50
n-Butylbenzene	20.4		µg/kg wet		20.0		102	70-130	0.9	25
sec-Butylbenzene	21.5		µg/kg wet		20.0		108	70-130	2	25
tert-Butylbenzene	21.8		µg/kg wet		20.0		109	70-130	0.8	25
Carbon disulfide	19.4		µg/kg wet		20.0		97	70-130	4	25
Carbon tetrachloride	17.6		µg/kg wet		20.0		88	70-130	5	25
Chlorobenzene	20.9		µg/kg wet		20.0		104	70-130	0.3	25
Chloroethane	18.2		µg/kg wet		20.0		91	70-130	6	50
Chloroform	18.5		µg/kg wet		20.0		92	70-130	1	25
Chloromethane	17.8		µg/kg wet		20.0		89	70-130	3	25
2-Chlorotoluene	21.0		µg/kg wet		20.0		105	70-130	2	25
4-Chlorotoluene	20.7		µg/kg wet		20.0		103	70-130	2	25
1,2-Dibromo-3-chloropropane	20.8		µg/kg wet		20.0		104	70-130	5	25
Dibromochloromethane	19.7		µg/kg wet		20.0		99	70-130	6	50
1,2-Dibromoethane (EDB)	20.0		µg/kg wet		20.0		100	70-130	6	25
Dibromomethane	19.8		µg/kg wet		20.0		99	70-130	1	25
1,2-Dichlorobenzene	21.4		µg/kg wet		20.0		107	70-130	3	25
1,3-Dichlorobenzene	21.0		µg/kg wet		20.0		105	70-130	4	25
1,4-Dichlorobenzene	20.4		µg/kg wet		20.0		102	70-130	0.2	25
Dichlorodifluoromethane (Freon12)	18.0		µg/kg wet		20.0		90	70-130	4	50
1,1-Dichloroethane	18.6		µg/kg wet		20.0		93	70-130	3	25
1,2-Dichloroethane	18.4		µg/kg wet		20.0		92	70-130	5	25
1,1-Dichloroethene	19.3		µg/kg wet		20.0		97	70-130	3	25
cis-1,2-Dichloroethene	19.8		µg/kg wet		20.0		99	70-130	1	25
trans-1,2-Dichloroethene	19.2		µg/kg wet		20.0		96	70-130	0.3	25
1,2-Dichloropropane	19.5		µg/kg wet		20.0		97	70-130	5	25
1,3-Dichloropropane	19.8		µg/kg wet		20.0		99	70-130	9	25
2,2-Dichloropropane	17.0		µg/kg wet		20.0		85	70-130	6	25
1,1-Dichloropropene	19.1		µg/kg wet		20.0		96	70-130	4	25
cis-1,3-Dichloropropene	19.0		µg/kg wet		20.0		95	70-130	2	25
trans-1,3-Dichloropropene	18.3		µg/kg wet		20.0		91	70-130	5	25
Ethylbenzene	21.2		µg/kg wet		20.0		106	70-130	1	25
Hexachlorobutadiene	20.0		µg/kg wet		20.0		100	70-130	2	50
2-Hexanone (MBK)	18.6		µg/kg wet		20.0		93	70-130	10	25
Isopropylbenzene	21.2		µg/kg wet		20.0		106	70-130	1	25
4-Isopropyltoluene	20.7		µg/kg wet		20.0		104	70-130	0.3	25
Methyl tert-butyl ether	19.1		µg/kg wet		20.0		95	70-130	5	25
4-Methyl-2-pentanone (MIBK)	19.2		µg/kg wet		20.0		96	70-130	18	50
Methylene chloride	18.7		µg/kg wet		20.0		94	70-130	8	25
Naphthalene	20.0		µg/kg wet		20.0		100	70-130	2	25
n-Propylbenzene	21.6		µg/kg wet		20.0		108	70-130	1	25
Styrene	21.8		µg/kg wet		20.0		109	70-130	3	25
1,1,1,2-Tetrachloroethane	20.6		µg/kg wet		20.0		103	70-130	0.5	25

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114828 - SW846 5035A Soil (low level)										
LCS Dup (1114828-BSD1)					Prepared & Analyzed: 28-Jul-11					
1,1,2,2-Tetrachloroethane	21.6		µg/kg wet		20.0		108	70-130	0.7	25
Tetrachloroethene	19.0		µg/kg wet		20.0		95	70-130	7	25
Toluene	19.2		µg/kg wet		20.0		96	70-130	4	25
1,2,3-Trichlorobenzene	20.2		µg/kg wet		20.0		101	70-130	1	25
1,2,4-Trichlorobenzene	18.3		µg/kg wet		20.0		92	70-130	3	25
1,3,5-Trichlorobenzene	21.2		µg/kg wet		20.0		106	70-130	0.05	25
1,1,1-Trichloroethane	18.5		µg/kg wet		20.0		92	70-130	0.3	25
1,1,2-Trichloroethane	20.2		µg/kg wet		20.0		101	70-130	3	25
Trichloroethene	19.1		µg/kg wet		20.0		95	70-130	5	25
Trichlorofluoromethane (Freon 11)	17.8		µg/kg wet		20.0		89	70-130	9	50
1,2,3-Trichloropropane	20.7		µg/kg wet		20.0		103	70-130	4	25
1,2,4-Trimethylbenzene	21.8		µg/kg wet		20.0		109	70-130	0.9	25
1,3,5-Trimethylbenzene	21.6		µg/kg wet		20.0		108	70-130	0.7	25
Vinyl chloride	18.7		µg/kg wet		20.0		94	70-130	4	25
m,p-Xylene	43.7		µg/kg wet		40.0		109	70-130	0.4	25
o-Xylene	22.5		µg/kg wet		20.0		112	70-130	0.6	25
Tetrahydrofuran	19.4		µg/kg wet		20.0		97	70-130	7	25
Ethyl ether	20.1		µg/kg wet		20.0		101	70-130	0.8	50
Tert-amyl methyl ether	19.0		µg/kg wet		20.0		95	70-130	2	25
Ethyl tert-butyl ether	18.6		µg/kg wet		20.0		93	70-130	5	25
Di-isopropyl ether	19.3		µg/kg wet		20.0		97	70-130	3	25
Tert-Butanol / butyl alcohol	173		µg/kg wet		200		87	70-130	3	25
1,4-Dioxane	198		µg/kg wet		200		99	70-130	0.7	25
trans-1,4-Dichloro-2-butene	17.2		µg/kg wet		20.0		86	70-130	15	25
Ethanol	385		µg/kg wet		400		96	70-130	6	30
Surrogate: 4-Bromofluorobenzene	*50.6*		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*48.4*		µg/kg wet		*50.0*		*97*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*46.9*		µg/kg wet		*50.0*		*94*	*70-130*		
Surrogate: Dibromofluoromethane	*49.9*		µg/kg wet		*50.0*		*100*	*70-130*		
Batch 1114847 - SW846 5030 Soil (high level)										
Blank (1114847-BLK1)					Prepared & Analyzed: 28-Jul-11					
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	U	µg/kg wet	33.4						
Acetone	BRL	U	µg/kg wet	376						
Acrylonitrile	BRL	U	µg/kg wet	44.8						
Benzene	BRL	U	µg/kg wet	26.2						
Bromobenzene	BRL	U	µg/kg wet	31.9						
Bromochloromethane	BRL	U	µg/kg wet	16.4						
Bromodichloromethane	BRL	U	µg/kg wet	18.9						
Bromoform	BRL	U	µg/kg wet	34.6						
Bromomethane	BRL	U	µg/kg wet	90.0						
2-Butanone (MEK)	BRL	U	µg/kg wet	429						
n-Butylbenzene	BRL	U	µg/kg wet	25.0						
sec-Butylbenzene	BRL	U	µg/kg wet	48.5						
tert-Butylbenzene	BRL	U	µg/kg wet	36.2						
Carbon disulfide	BRL	U	µg/kg wet	71.4						
Carbon tetrachloride	BRL	U	µg/kg wet	49.7						
Chlorobenzene	BRL	U	µg/kg wet	28.0						
Chloroethane	BRL	U	µg/kg wet	70.8						
Chloroform	BRL	U	µg/kg wet	24.4						
Chloromethane	BRL	U	µg/kg wet	25.2						
2-Chlorotoluene	BRL	U	µg/kg wet	30.4						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114847 - SW846 5030 Soil (high level)										
Blank (1114847-BLK1)						Prepared & Analyzed: 28-Jul-11				
4-Chlorotoluene	BRL	U	µg/kg wet	44.8						
1,2-Dibromo-3-chloropropane	BRL	U	µg/kg wet	94.6						
Dibromochloromethane	BRL	U	µg/kg wet	24.0						
1,2-Dibromoethane (EDB)	BRL	U	µg/kg wet	31.0						
Dibromomethane	BRL	U	µg/kg wet	49.9						
1,2-Dichlorobenzene	BRL	U	µg/kg wet	40.2						
1,3-Dichlorobenzene	BRL	U	µg/kg wet	49.8						
1,4-Dichlorobenzene	BRL	U	µg/kg wet	33.8						
Dichlorodifluoromethane (Freon12)	BRL	U	µg/kg wet	84.4						
1,1-Dichloroethane	BRL	U	µg/kg wet	45.6						
1,2-Dichloroethane	BRL	U	µg/kg wet	28.0						
1,1-Dichloroethene	BRL	U	µg/kg wet	24.8						
cis-1,2-Dichloroethene	BRL	U	µg/kg wet	21.0						
trans-1,2-Dichloroethene	BRL	U	µg/kg wet	41.5						
1,2-Dichloropropane	BRL	U	µg/kg wet	25.4						
1,3-Dichloropropane	BRL	U	µg/kg wet	25.2						
2,2-Dichloropropane	BRL	U	µg/kg wet	20.2						
1,1-Dichloropropene	BRL	U	µg/kg wet	30.8						
cis-1,3-Dichloropropene	BRL	U	µg/kg wet	27.2						
trans-1,3-Dichloropropene	BRL	U	µg/kg wet	14.1						
Ethylbenzene	BRL	U	µg/kg wet	30.4						
Hexachlorobutadiene	BRL	U	µg/kg wet	43.1						
2-Hexanone (MBK)	BRL	U	µg/kg wet	128						
Isopropylbenzene	BRL	U	µg/kg wet	25.1						
4-Isopropyltoluene	BRL	U	µg/kg wet	20.7						
Methyl tert-butyl ether	BRL	U	µg/kg wet	36.4						
4-Methyl-2-pentanone (MIBK)	BRL	U	µg/kg wet	163						
Methylene chloride	BRL	U	µg/kg wet	25.4						
Naphthalene	BRL	U	µg/kg wet	31.0						
n-Propylbenzene	BRL	U	µg/kg wet	30.0						
Styrene	BRL	U	µg/kg wet	37.0						
1,1,1,2-Tetrachloroethane	BRL	U	µg/kg wet	48.0						
1,1,2,2-Tetrachloroethane	BRL	U	µg/kg wet	38.0						
Tetrachloroethene	BRL	U	µg/kg wet	28.6						
Toluene	BRL	U	µg/kg wet	44.8						
1,2,3-Trichlorobenzene	BRL	U	µg/kg wet	43.3						
1,2,4-Trichlorobenzene	BRL	U	µg/kg wet	37.6						
1,3,5-Trichlorobenzene	BRL	U	µg/kg wet	35.4						
1,1,1-Trichloroethane	BRL	U	µg/kg wet	40.0						
1,1,2-Trichloroethane	BRL	U	µg/kg wet	43.0						
Trichloroethene	BRL	U	µg/kg wet	38.3						
Trichlorofluoromethane (Freon 11)	BRL	U	µg/kg wet	20.2						
1,2,3-Trichloropropane	BRL	U	µg/kg wet	22.6						
1,2,4-Trimethylbenzene	BRL	U	µg/kg wet	16.4						
1,3,5-Trimethylbenzene	BRL	U	µg/kg wet	49.6						
Vinyl chloride	BRL	U	µg/kg wet	46.9						
m,p-Xylene	BRL	U	µg/kg wet	97.0						
o-Xylene	BRL	U	µg/kg wet	34.2						
Tetrahydrofuran	BRL	U	µg/kg wet	92.5						
Ethyl ether	BRL	U	µg/kg wet	46.6						
Tert-amyl methyl ether	BRL	U	µg/kg wet	39.4						
Ethyl tert-butyl ether	BRL	U	µg/kg wet	17.4						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114847 - SW846 5030 Soil (high level)										
Blank (1114847-BLK1)					Prepared & Analyzed: 28-Jul-11					
Di-isopropyl ether	BRL	U	µg/kg wet	16.1						
Tert-Butanol / butyl alcohol	BRL	U	µg/kg wet	283						
1,4-Dioxane	BRL	U	µg/kg wet	819						
trans-1,4-Dichloro-2-butene	BRL	U	µg/kg wet	128						
Ethanol	BRL	U	µg/kg wet	4180						
Surrogate: 4-Bromofluorobenzene	*30.7*		µg/kg wet		*30.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*30.1*		µg/kg wet		*30.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*29.8*		µg/kg wet		*30.0*		*99*	*70-130*		
Surrogate: Dibromofluoromethane	*26.4*		µg/kg wet		*30.0*		*88*	*70-130*		
LCS (1114847-BS1)					Prepared & Analyzed: 28-Jul-11					
1,1,2-Trichlorotrifluoroethane (Freon 113)	19.0		µg/kg wet		20.0		95	70-130		
Acetone	11.2		µg/kg wet		20.0		56	70-130		
Acrylonitrile	17.0		µg/kg wet		20.0		85	70-130		
Benzene	19.7		µg/kg wet		20.0		98	70-130		
Bromobenzene	22.4		µg/kg wet		20.0		112	70-130		
Bromochloromethane	19.6		µg/kg wet		20.0		98	70-130		
Bromodichloromethane	21.3		µg/kg wet		20.0		107	70-130		
Bromoform	22.8		µg/kg wet		20.0		114	70-130		
Bromomethane	17.2		µg/kg wet		20.0		86	70-130		
2-Butanone (MEK)	12.0		µg/kg wet		20.0		60	70-130		
n-Butylbenzene	18.9		µg/kg wet		20.0		95	70-130		
sec-Butylbenzene	22.8		µg/kg wet		20.0		114	70-130		
tert-Butylbenzene	24.8		µg/kg wet		20.0		124	70-130		
Carbon disulfide	16.9		µg/kg wet		20.0		85	70-130		
Carbon tetrachloride	25.4		µg/kg wet		20.0		127	70-130		
Chlorobenzene	20.8		µg/kg wet		20.0		104	70-130		
Chloroethane	15.8		µg/kg wet		20.0		79	70-130		
Chloroform	17.6		µg/kg wet		20.0		88	70-130		
Chloromethane	13.6		µg/kg wet		20.0		68	70-130		
2-Chlorotoluene	21.9		µg/kg wet		20.0		109	70-130		
4-Chlorotoluene	22.8		µg/kg wet		20.0		114	70-130		
1,2-Dibromo-3-chloropropane	22.2		µg/kg wet		20.0		111	70-130		
Dibromochloromethane	22.3		µg/kg wet		20.0		112	70-130		
1,2-Dibromoethane (EDB)	21.8		µg/kg wet		20.0		109	70-130		
Dibromomethane	21.9		µg/kg wet		20.0		109	70-130		
1,2-Dichlorobenzene	21.5		µg/kg wet		20.0		108	70-130		
1,3-Dichlorobenzene	21.5		µg/kg wet		20.0		108	70-130		
1,4-Dichlorobenzene	20.0		µg/kg wet		20.0		100	70-130		
Dichlorodifluoromethane (Freon12)	18.8		µg/kg wet		20.0		94	70-130		
1,1-Dichloroethane	17.2		µg/kg wet		20.0		86	70-130		
1,2-Dichloroethane	19.8		µg/kg wet		20.0		99	70-130		
1,1-Dichloroethene	18.6		µg/kg wet		20.0		93	70-130		
cis-1,2-Dichloroethene	18.4		µg/kg wet		20.0		92	70-130		
trans-1,2-Dichloroethene	18.4		µg/kg wet		20.0		92	70-130		
1,2-Dichloropropane	18.7		µg/kg wet		20.0		94	70-130		
1,3-Dichloropropane	20.8		µg/kg wet		20.0		104	70-130		
2,2-Dichloropropane	21.4		µg/kg wet		20.0		107	70-130		
1,1-Dichloropropene	21.2		µg/kg wet		20.0		106	70-130		
cis-1,3-Dichloropropene	22.1		µg/kg wet		20.0		111	70-130		
trans-1,3-Dichloropropene	22.3		µg/kg wet		20.0		111	70-130		
Ethylbenzene	22.4		µg/kg wet		20.0		112	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114847 - SW846 5030 Soil (high level)										
LCS (1114847-BS1)						Prepared & Analyzed: 28-Jul-11				
Hexachlorobutadiene	21.4		µg/kg wet		20.0		107	70-130		
2-Hexanone (MBK)	18.8		µg/kg wet		20.0		94	70-130		
Isopropylbenzene	22.3		µg/kg wet		20.0		111	70-130		
4-Isopropyltoluene	23.5		µg/kg wet		20.0		117	70-130		
Methyl tert-butyl ether	19.5		µg/kg wet		20.0		98	70-130		
4-Methyl-2-pentanone (MIBK)	20.6		µg/kg wet		20.0		103	70-130		
Methylene chloride	16.7		µg/kg wet		20.0		84	70-130		
Naphthalene	23.2		µg/kg wet		20.0		116	70-130		
n-Propylbenzene	22.9		µg/kg wet		20.0		114	70-130		
Styrene	20.1		µg/kg wet		20.0		101	70-130		
1,1,1,2-Tetrachloroethane	21.9		µg/kg wet		20.0		110	70-130		
1,1,2,2-Tetrachloroethane	23.3		µg/kg wet		20.0		116	70-130		
Tetrachloroethene	22.2		µg/kg wet		20.0		111	70-130		
Toluene	20.2		µg/kg wet		20.0		101	70-130		
1,2,3-Trichlorobenzene	21.5		µg/kg wet		20.0		107	70-130		
1,2,4-Trichlorobenzene	21.5		µg/kg wet		20.0		107	70-130		
1,3,5-Trichlorobenzene	21.2		µg/kg wet		20.0		106	70-130		
1,1,1-Trichloroethane	24.2		µg/kg wet		20.0		121	70-130		
1,1,2-Trichloroethane	21.7		µg/kg wet		20.0		108	70-130		
Trichloroethene	21.4		µg/kg wet		20.0		107	70-130		
Trichlorofluoromethane (Freon 11)	18.9		µg/kg wet		20.0		94	70-130		
1,2,3-Trichloropropane	22.4		µg/kg wet		20.0		112	70-130		
1,2,4-Trimethylbenzene	20.8		µg/kg wet		20.0		104	70-130		
1,3,5-Trimethylbenzene	24.5		µg/kg wet		20.0		122	70-130		
Vinyl chloride	18.7		µg/kg wet		20.0		93	70-130		
m,p-Xylene	45.9		µg/kg wet		40.0		115	70-130		
o-Xylene	22.6		µg/kg wet		20.0		113	70-130		
Tetrahydrofuran	22.3		µg/kg wet		20.0		112	70-130		
Ethyl ether	17.8		µg/kg wet		20.0		89	70-130		
Tert-amyl methyl ether	21.8		µg/kg wet		20.0		109	70-130		
Ethyl tert-butyl ether	18.5		µg/kg wet		20.0		93	70-130		
Di-isopropyl ether	15.2		µg/kg wet		20.0		76	70-130		
Tert-Butanol / butyl alcohol	207		µg/kg wet		200		103	70-130		
1,4-Dioxane	204		µg/kg wet		200		102	70-130		
trans-1,4-Dichloro-2-butene	20.3		µg/kg wet		20.0		101	70-130		
Ethanol	308		µg/kg wet		400		77	70-130		
Surrogate: 4-Bromofluorobenzene	*31.4*		µg/kg wet		*30.0*		*105*	*70-130*		
Surrogate: Toluene-d8	*29.7*		µg/kg wet		*30.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*29.6*		µg/kg wet		*30.0*		*99*	*70-130*		
Surrogate: Dibromofluoromethane	*27.1*		µg/kg wet		*30.0*		*90*	*70-130*		
LCS Dup (1114847-BSD1)						Prepared & Analyzed: 28-Jul-11				
1,1,2-Trichlorotrifluoroethane (Freon 113)	19.0		µg/kg wet		20.0		95	70-130	0.1	25
Acetone	9.9		µg/kg wet		20.0		50	70-130	13	50
Acrylonitrile	15.7		µg/kg wet		20.0		78	70-130	8	25
Benzene	20.5		µg/kg wet		20.0		102	70-130	4	25
Bromobenzene	23.0		µg/kg wet		20.0		115	70-130	3	25
Bromochloromethane	20.0		µg/kg wet		20.0		100	70-130	2	25
Bromodichloromethane	21.8		µg/kg wet		20.0		109	70-130	2	25
Bromoform	23.8		µg/kg wet		20.0		119	70-130	4	25
Bromomethane	17.3		µg/kg wet		20.0		86	70-130	0.3	50
2-Butanone (MEK)	17.4		µg/kg wet		20.0		87	70-130	36	50

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114847 - SW846 5030 Soil (high level)										
LCS Dup (1114847-BSD1)					Prepared & Analyzed: 28-Jul-11					
n-Butylbenzene	19.6		µg/kg wet		20.0		98	70-130	3	25
sec-Butylbenzene	24.2		µg/kg wet		20.0		121	70-130	6	25
tert-Butylbenzene	25.7		µg/kg wet		20.0		129	70-130	3	25
Carbon disulfide	17.4		µg/kg wet		20.0		87	70-130	3	25
Carbon tetrachloride	26.2	QM9	µg/kg wet		20.0		131	70-130	3	25
Chlorobenzene	21.6		µg/kg wet		20.0		108	70-130	4	25
Chloroethane	16.3		µg/kg wet		20.0		81	70-130	3	50
Chloroform	18.1		µg/kg wet		20.0		90	70-130	3	25
Chloromethane	14.4		µg/kg wet		20.0		72	70-130	6	25
2-Chlorotoluene	22.6		µg/kg wet		20.0		113	70-130	3	25
4-Chlorotoluene	24.0		µg/kg wet		20.0		120	70-130	5	25
1,2-Dibromo-3-chloropropane	23.7		µg/kg wet		20.0		118	70-130	7	25
Dibromochloromethane	23.4		µg/kg wet		20.0		117	70-130	5	50
1,2-Dibromoethane (EDB)	21.9		µg/kg wet		20.0		109	70-130	0.6	25
Dibromomethane	22.3		µg/kg wet		20.0		112	70-130	2	25
1,2-Dichlorobenzene	21.8		µg/kg wet		20.0		109	70-130	1	25
1,3-Dichlorobenzene	22.4		µg/kg wet		20.0		112	70-130	4	25
1,4-Dichlorobenzene	20.7		µg/kg wet		20.0		103	70-130	3	25
Dichlorodifluoromethane (Freon12)	19.0		µg/kg wet		20.0		95	70-130	1	50
1,1-Dichloroethane	17.4		µg/kg wet		20.0		87	70-130	1	25
1,2-Dichloroethane	20.1		µg/kg wet		20.0		100	70-130	1	25
1,1-Dichloroethene	18.7		µg/kg wet		20.0		94	70-130	0.7	25
cis-1,2-Dichloroethene	18.7		µg/kg wet		20.0		93	70-130	2	25
trans-1,2-Dichloroethene	19.0		µg/kg wet		20.0		95	70-130	3	25
1,2-Dichloropropane	19.6		µg/kg wet		20.0		98	70-130	4	25
1,3-Dichloropropane	21.2		µg/kg wet		20.0		106	70-130	2	25
2,2-Dichloropropane	21.5		µg/kg wet		20.0		108	70-130	0.7	25
1,1-Dichloropropene	21.8		µg/kg wet		20.0		109	70-130	3	25
cis-1,3-Dichloropropene	22.2		µg/kg wet		20.0		111	70-130	0.6	25
trans-1,3-Dichloropropene	23.5		µg/kg wet		20.0		118	70-130	5	25
Ethylbenzene	23.6		µg/kg wet		20.0		118	70-130	5	25
Hexachlorobutadiene	23.0		µg/kg wet		20.0		115	70-130	7	50
2-Hexanone (MBK)	18.5		µg/kg wet		20.0		92	70-130	2	25
Isopropylbenzene	23.2		µg/kg wet		20.0		116	70-130	4	25
4-Isopropyltoluene	24.0		µg/kg wet		20.0		120	70-130	2	25
Methyl tert-butyl ether	19.2		µg/kg wet		20.0		96	70-130	2	25
4-Methyl-2-pentanone (MIBK)	22.0		µg/kg wet		20.0		110	70-130	7	50
Methylene chloride	16.9		µg/kg wet		20.0		85	70-130	1	25
Naphthalene	24.0		µg/kg wet		20.0		120	70-130	3	25
n-Propylbenzene	24.1		µg/kg wet		20.0		121	70-130	5	25
Styrene	20.8		µg/kg wet		20.0		104	70-130	3	25
1,1,1,2-Tetrachloroethane	23.2		µg/kg wet		20.0		116	70-130	6	25
1,1,2,2-Tetrachloroethane	22.8		µg/kg wet		20.0		114	70-130	2	25
Tetrachloroethene	22.7		µg/kg wet		20.0		113	70-130	2	25
Toluene	21.2		µg/kg wet		20.0		106	70-130	5	25
1,2,3-Trichlorobenzene	22.1		µg/kg wet		20.0		110	70-130	3	25
1,2,4-Trichlorobenzene	22.5		µg/kg wet		20.0		112	70-130	5	25
1,3,5-Trichlorobenzene	21.9		µg/kg wet		20.0		109	70-130	3	25
1,1,1-Trichloroethane	25.0		µg/kg wet		20.0		125	70-130	3	25
1,1,2-Trichloroethane	22.0		µg/kg wet		20.0		110	70-130	1	25
Trichloroethene	22.6		µg/kg wet		20.0		113	70-130	5	25
Trichlorofluoromethane (Freon 11)	19.3		µg/kg wet		20.0		96	70-130	2	50

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114847 - SW846 5030 Soil (high level)										
LCS Dup (1114847-BSD1)					Prepared & Analyzed: 28-Jul-11					
1,2,3-Trichloropropane	22.5		µg/kg wet		20.0		112	70-130	0.3	25
1,2,4-Trimethylbenzene	22.1		µg/kg wet		20.0		111	70-130	6	25
1,3,5-Trimethylbenzene	25.5		µg/kg wet		20.0		127	70-130	4	25
Vinyl chloride	18.1		µg/kg wet		20.0		90	70-130	3	25
m,p-Xylene	47.4		µg/kg wet		40.0		118	70-130	3	25
o-Xylene	23.7		µg/kg wet		20.0		118	70-130	5	25
Tetrahydrofuran	18.7		µg/kg wet		20.0		93	70-130	18	25
Ethyl ether	18.4		µg/kg wet		20.0		92	70-130	3	50
Tert-amyl methyl ether	21.8		µg/kg wet		20.0		109	70-130	0.1	25
Ethyl tert-butyl ether	18.9		µg/kg wet		20.0		95	70-130	2	25
Di-isopropyl ether	15.3		µg/kg wet		20.0		77	70-130	1	25
Tert-Butanol / butyl alcohol	203		µg/kg wet		200		101	70-130	2	25
1,4-Dioxane	222		µg/kg wet		200		111	70-130	9	25
trans-1,4-Dichloro-2-butene	19.5		µg/kg wet		20.0		97	70-130	4	25
Ethanol	285		µg/kg wet		400		71	70-130	8	30
Surrogate: 4-Bromofluorobenzene	*32.0*		µg/kg wet		*30.0*		*107*	*70-130*		
Surrogate: Toluene-d8	*30.3*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*29.3*		µg/kg wet		*30.0*		*98*	*70-130*		
Surrogate: Dibromofluoromethane	*27.9*		µg/kg wet		*30.0*		*93*	*70-130*		
Batch 1114853 - SW846 5030 Water MS										
Blank (1114853-BLK1)					Prepared & Analyzed: 28-Jul-11					
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	U	µg/l	0.6						
Acetone	BRL	U	µg/l	2.6						
Acrylonitrile	BRL	U	µg/l	0.5						
Benzene	BRL	U	µg/l	0.7						
Bromobenzene	BRL	U	µg/l	0.7						
Bromochloromethane	BRL	U	µg/l	0.7						
Bromodichloromethane	BRL	U	µg/l	0.5						
Bromoform	BRL	U	µg/l	0.6						
Bromomethane	BRL	U	µg/l	1.1						
2-Butanone (MEK)	BRL	U	µg/l	1.7						
n-Butylbenzene	BRL	U	µg/l	0.6						
sec-Butylbenzene	BRL	U	µg/l	0.8						
tert-Butylbenzene	BRL	U	µg/l	0.7						
Carbon disulfide	BRL	U	µg/l	0.6						
Carbon tetrachloride	BRL	U	µg/l	0.5						
Chlorobenzene	BRL	U	µg/l	0.7						
Chloroethane	BRL	U	µg/l	1.0						
Chloroform	BRL	U	µg/l	0.7						
Chloromethane	BRL	U	µg/l	1.5						
2-Chlorotoluene	BRL	U	µg/l	0.8						
4-Chlorotoluene	BRL	U	µg/l	0.7						
1,2-Dibromo-3-chloropropane	BRL	U	µg/l	0.9						
Dibromochloromethane	BRL	U	µg/l	0.3						
1,2-Dibromoethane (EDB)	BRL	U	µg/l	0.3						
Dibromomethane	BRL	U	µg/l	0.7						
1,2-Dichlorobenzene	BRL	U	µg/l	0.7						
1,3-Dichlorobenzene	BRL	U	µg/l	0.7						
1,4-Dichlorobenzene	BRL	U	µg/l	0.6						
Dichlorodifluoromethane (Freon12)	BRL	U	µg/l	0.4						
1,1-Dichloroethane	BRL	U	µg/l	0.7						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114853 - SW846 5030 Water MS										
Blank (1114853-BLK1)						Prepared & Analyzed: 28-Jul-11				
1,2-Dichloroethane	BRL	U	µg/l	0.8						
1,1-Dichloroethene	BRL	U	µg/l	0.5						
cis-1,2-Dichloroethene	BRL	U	µg/l	0.7						
trans-1,2-Dichloroethene	BRL	U	µg/l	0.7						
1,2-Dichloropropane	BRL	U	µg/l	0.7						
1,3-Dichloropropane	BRL	U	µg/l	0.8						
2,2-Dichloropropane	BRL	U	µg/l	0.6						
1,1-Dichloropropene	BRL	U	µg/l	0.6						
cis-1,3-Dichloropropene	BRL	U	µg/l	0.3						
trans-1,3-Dichloropropene	BRL	U	µg/l	0.5						
Ethylbenzene	BRL	U	µg/l	0.7						
Hexachlorobutadiene	BRL	U	µg/l	0.4						
2-Hexanone (MBK)	BRL	U	µg/l	0.5						
Isopropylbenzene	BRL	U	µg/l	0.6						
4-Isopropyltoluene	BRL	U	µg/l	0.6						
Methyl tert-butyl ether	BRL	U	µg/l	0.7						
4-Methyl-2-pentanone (MIBK)	BRL	U	µg/l	0.9						
Methylene chloride	BRL	U	µg/l	0.7						
Naphthalene	BRL	U	µg/l	0.3						
n-Propylbenzene	BRL	U	µg/l	0.8						
Styrene	BRL	U	µg/l	0.6						
1,1,1,2-Tetrachloroethane	BRL	U	µg/l	0.6						
1,1,2,2-Tetrachloroethane	BRL	U	µg/l	0.3						
Tetrachloroethene	BRL	U	µg/l	0.7						
Toluene	BRL	U	µg/l	0.8						
1,2,3-Trichlorobenzene	BRL	U	µg/l	0.4						
1,2,4-Trichlorobenzene	BRL	U	µg/l	0.4						
1,3,5-Trichlorobenzene	BRL	U	µg/l	0.8						
1,1,1-Trichloroethane	BRL	U	µg/l	0.6						
1,1,2-Trichloroethane	BRL	U	µg/l	0.6						
Trichloroethene	BRL	U	µg/l	0.8						
Trichlorofluoromethane (Freon 11)	BRL	U	µg/l	0.6						
1,2,3-Trichloropropane	BRL	U	µg/l	0.7						
1,2,4-Trimethylbenzene	BRL	U	µg/l	0.8						
1,3,5-Trimethylbenzene	BRL	U	µg/l	0.7						
Vinyl chloride	BRL	U	µg/l	0.8						
m,p-Xylene	BRL	U	µg/l	1.6						
o-Xylene	BRL	U	µg/l	0.9						
Tetrahydrofuran	BRL	U	µg/l	1.4						
Ethyl ether	BRL	U	µg/l	0.7						
Tert-amyl methyl ether	BRL	U	µg/l	0.7						
Ethyl tert-butyl ether	BRL	U	µg/l	0.8						
Di-isopropyl ether	BRL	U	µg/l	0.7						
Tert-Butanol / butyl alcohol	BRL	U	µg/l	8.6						
1,4-Dioxane	BRL	U	µg/l	14.0						
trans-1,4-Dichloro-2-butene	BRL	U	µg/l	0.8						
Ethanol	BRL	U	µg/l	35.7						
Surrogate: 4-Bromofluorobenzene	*29.4*		µg/l		*30.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*27.8*		µg/l		*30.0*		*93*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*30.8*		µg/l		*30.0*		*102*	*70-130*		
Surrogate: Dibromofluoromethane	*30.9*		µg/l		*30.0*		*103*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114853 - SW846 5030 Water MS										
LCS (1114853-BS1)						Prepared & Analyzed: 28-Jul-11				
1,1,2-Trichlorotrifluoroethane (Freon 113)	24.5		µg/l		20.0		123	70-130		
Acetone	20.1		µg/l		20.0		101	70-130		
Acrylonitrile	23.7		µg/l		20.0		118	70-130		
Benzene	18.7		µg/l		20.0		94	70-130		
Bromobenzene	18.7		µg/l		20.0		94	70-130		
Bromochloromethane	19.3		µg/l		20.0		97	70-130		
Bromodichloromethane	21.4		µg/l		20.0		107	70-130		
Bromoform	21.9		µg/l		20.0		109	70-130		
Bromomethane	24.3		µg/l		20.0		121	70-130		
2-Butanone (MEK)	27.6		µg/l		20.0		138	70-130		
n-Butylbenzene	20.3		µg/l		20.0		102	70-130		
sec-Butylbenzene	19.8		µg/l		20.0		99	70-130		
tert-Butylbenzene	20.2		µg/l		20.0		101	70-130		
Carbon disulfide	20.6		µg/l		20.0		103	70-130		
Carbon tetrachloride	27.7	QM9	µg/l		20.0		138	70-130		
Chlorobenzene	18.6		µg/l		20.0		93	70-130		
Chloroethane	19.2		µg/l		20.0		96	70-130		
Chloroform	19.2		µg/l		20.0		96	70-130		
Chloromethane	20.5		µg/l		20.0		102	70-130		
2-Chlorotoluene	19.0		µg/l		20.0		95	70-130		
4-Chlorotoluene	18.2		µg/l		20.0		91	70-130		
1,2-Dibromo-3-chloropropane	25.9		µg/l		20.0		129	70-130		
Dibromochloromethane	23.5		µg/l		20.0		117	70-130		
1,2-Dibromoethane (EDB)	22.8		µg/l		20.0		114	70-130		
Dibromomethane	19.4		µg/l		20.0		97	70-130		
1,2-Dichlorobenzene	19.9		µg/l		20.0		100	70-130		
1,3-Dichlorobenzene	19.0		µg/l		20.0		95	70-130		
1,4-Dichlorobenzene	19.3		µg/l		20.0		97	70-130		
Dichlorodifluoromethane (Freon12)	25.1		µg/l		20.0		126	70-130		
1,1-Dichloroethane	19.8		µg/l		20.0		99	70-130		
1,2-Dichloroethane	20.4		µg/l		20.0		102	70-130		
1,1-Dichloroethene	21.0		µg/l		20.0		105	70-130		
cis-1,2-Dichloroethene	19.5		µg/l		20.0		98	70-130		
trans-1,2-Dichloroethene	20.0		µg/l		20.0		100	70-130		
1,2-Dichloropropane	17.9		µg/l		20.0		90	70-130		
1,3-Dichloropropane	20.0		µg/l		20.0		100	70-130		
2,2-Dichloropropane	20.1		µg/l		20.0		100	70-130		
1,1-Dichloropropene	20.6		µg/l		20.0		103	70-130		
cis-1,3-Dichloropropene	20.0		µg/l		20.0		100	70-130		
trans-1,3-Dichloropropene	20.7		µg/l		20.0		104	70-130		
Ethylbenzene	19.0		µg/l		20.0		95	70-130		
Hexachlorobutadiene	20.3		µg/l		20.0		102	70-130		
2-Hexanone (MBK)	24.2		µg/l		20.0		121	70-130		
Isopropylbenzene	19.0		µg/l		20.0		95	70-130		
4-Isopropyltoluene	20.7		µg/l		20.0		104	70-130		
Methyl tert-butyl ether	21.1		µg/l		20.0		106	70-130		
4-Methyl-2-pentanone (MIBK)	20.0		µg/l		20.0		100	70-130		
Methylene chloride	17.3		µg/l		20.0		86	70-130		
Naphthalene	26.1	QM9	µg/l		20.0		131	70-130		
n-Propylbenzene	19.6		µg/l		20.0		98	70-130		
Styrene	18.3		µg/l		20.0		92	70-130		
1,1,1,2-Tetrachloroethane	20.7		µg/l		20.0		103	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114853 - SW846 5030 Water MS										
LCS (1114853-BS1)						Prepared & Analyzed: 28-Jul-11				
1,1,2,2-Tetrachloroethane	20.7		µg/l		20.0		103	70-130		
Tetrachloroethene	20.0		µg/l		20.0		100	70-130		
Toluene	18.2		µg/l		20.0		91	70-130		
1,2,3-Trichlorobenzene	20.8		µg/l		20.0		104	70-130		
1,2,4-Trichlorobenzene	20.1		µg/l		20.0		100	70-130		
1,3,5-Trichlorobenzene	19.0		µg/l		20.0		95	70-130		
1,1,1-Trichloroethane	22.2		µg/l		20.0		111	70-130		
1,1,2-Trichloroethane	21.2		µg/l		20.0		106	70-130		
Trichloroethene	19.3		µg/l		20.0		96	70-130		
Trichlorofluoromethane (Freon 11)	24.2		µg/l		20.0		121	70-130		
1,2,3-Trichloropropane	21.2		µg/l		20.0		106	70-130		
1,2,4-Trimethylbenzene	19.8		µg/l		20.0		99	70-130		
1,3,5-Trimethylbenzene	19.7		µg/l		20.0		98	70-130		
Vinyl chloride	24.3		µg/l		20.0		121	70-130		
m,p-Xylene	38.3		µg/l		40.0		96	70-130		
o-Xylene	19.9		µg/l		20.0		100	70-130		
Tetrahydrofuran	22.1		µg/l		20.0		111	70-130		
Ethyl ether	20.7		µg/l		20.0		104	70-130		
Tert-amyl methyl ether	18.2		µg/l		20.0		91	70-130		
Ethyl tert-butyl ether	19.7		µg/l		20.0		98	70-130		
Di-isopropyl ether	19.8		µg/l		20.0		99	70-130		
Tert-Butanol / butyl alcohol	251		µg/l		200		126	70-130		
1,4-Dioxane	254		µg/l		200		127	70-130		
trans-1,4-Dichloro-2-butene	20.0		µg/l		20.0		100	70-130		
Ethanol	546	QM9	µg/l		400		136	70-130		
Surrogate: 4-Bromofluorobenzene	*29.1*		µg/l		*30.0*		*97*	*70-130*		
Surrogate: Toluene-d8	*29.3*		µg/l		*30.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*30.6*		µg/l		*30.0*		*102*	*70-130*		
Surrogate: Dibromofluoromethane	*31.1*		µg/l		*30.0*		*104*	*70-130*		
LCS Dup (1114853-BSD1)						Prepared & Analyzed: 28-Jul-11				
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.7		µg/l		20.0		109	70-130	12	25
Acetone	24.0		µg/l		20.0		120	70-130	17	50
Acrylonitrile	22.8		µg/l		20.0		114	70-130	4	25
Benzene	18.3		µg/l		20.0		92	70-130	2	25
Bromobenzene	18.9		µg/l		20.0		94	70-130	1	25
Bromochloromethane	19.6		µg/l		20.0		98	70-130	1	25
Bromodichloromethane	21.3		µg/l		20.0		106	70-130	0.7	25
Bromoform	22.3		µg/l		20.0		112	70-130	2	25
Bromomethane	24.9		µg/l		20.0		124	70-130	2	50
2-Butanone (MEK)	23.2		µg/l		20.0		116	70-130	17	50
n-Butylbenzene	21.0		µg/l		20.0		105	70-130	3	25
sec-Butylbenzene	20.4		µg/l		20.0		102	70-130	3	25
tert-Butylbenzene	20.3		µg/l		20.0		102	70-130	0.6	25
Carbon disulfide	19.8		µg/l		20.0		99	70-130	4	25
Carbon tetrachloride	26.0		µg/l		20.0		130	70-130	6	25
Chlorobenzene	19.4		µg/l		20.0		97	70-130	4	25
Chloroethane	18.9		µg/l		20.0		94	70-130	2	50
Chloroform	19.1		µg/l		20.0		96	70-130	0.4	25
Chloromethane	18.5		µg/l		20.0		92	70-130	10	25
2-Chlorotoluene	19.1		µg/l		20.0		95	70-130	0.5	25
4-Chlorotoluene	19.0		µg/l		20.0		95	70-130	5	25

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114853 - SW846 5030 Water MS										
LCS Dup (1114853-BSD1)					Prepared & Analyzed: 28-Jul-11					
1,2-Dibromo-3-chloropropane	26.8	QM9	µg/l		20.0		134	70-130	4	25
Dibromochloromethane	22.4		µg/l		20.0		112	70-130	5	50
1,2-Dibromoethane (EDB)	22.6		µg/l		20.0		113	70-130	1	25
Dibromomethane	20.1		µg/l		20.0		100	70-130	4	25
1,2-Dichlorobenzene	20.4		µg/l		20.0		102	70-130	2	25
1,3-Dichlorobenzene	20.0		µg/l		20.0		100	70-130	5	25
1,4-Dichlorobenzene	19.9		µg/l		20.0		100	70-130	3	25
Dichlorodifluoromethane (Freon12)	21.7		µg/l		20.0		109	70-130	15	50
1,1-Dichloroethane	18.4		µg/l		20.0		92	70-130	8	25
1,2-Dichloroethane	19.5		µg/l		20.0		97	70-130	5	25
1,1-Dichloroethene	19.8		µg/l		20.0		99	70-130	6	25
cis-1,2-Dichloroethene	19.6		µg/l		20.0		98	70-130	0.2	25
trans-1,2-Dichloroethene	19.4		µg/l		20.0		97	70-130	4	25
1,2-Dichloropropane	18.5		µg/l		20.0		92	70-130	3	25
1,3-Dichloropropane	19.1		µg/l		20.0		96	70-130	5	25
2,2-Dichloropropane	19.9		µg/l		20.0		100	70-130	1	25
1,1-Dichloropropene	19.0		µg/l		20.0		95	70-130	8	25
cis-1,3-Dichloropropene	19.9		µg/l		20.0		100	70-130	0.5	25
trans-1,3-Dichloropropene	21.0		µg/l		20.0		105	70-130	2	25
Ethylbenzene	19.7		µg/l		20.0		98	70-130	4	25
Hexachlorobutadiene	20.0		µg/l		20.0		100	70-130	2	50
2-Hexanone (MBK)	23.7		µg/l		20.0		119	70-130	2	25
Isopropylbenzene	20.0		µg/l		20.0		100	70-130	5	25
4-Isopropyltoluene	21.1		µg/l		20.0		105	70-130	2	25
Methyl tert-butyl ether	20.1		µg/l		20.0		100	70-130	5	25
4-Methyl-2-pentanone (MIBK)	21.4		µg/l		20.0		107	70-130	6	50
Methylene chloride	17.4		µg/l		20.0		87	70-130	0.6	25
Naphthalene	24.8		µg/l		20.0		124	70-130	5	25
n-Propylbenzene	19.8		µg/l		20.0		99	70-130	1	25
Styrene	19.6		µg/l		20.0		98	70-130	7	25
1,1,1,2-Tetrachloroethane	23.8		µg/l		20.0		119	70-130	14	25
1,1,2,2-Tetrachloroethane	22.2		µg/l		20.0		111	70-130	7	25
Tetrachloroethene	20.3		µg/l		20.0		101	70-130	1	25
Toluene	18.1		µg/l		20.0		91	70-130	0.7	25
1,2,3-Trichlorobenzene	21.3		µg/l		20.0		106	70-130	2	25
1,2,4-Trichlorobenzene	20.3		µg/l		20.0		102	70-130	1	25
1,3,5-Trichlorobenzene	19.7		µg/l		20.0		99	70-130	4	25
1,1,1-Trichloroethane	21.5		µg/l		20.0		107	70-130	3	25
1,1,2-Trichloroethane	20.5		µg/l		20.0		102	70-130	3	25
Trichloroethene	19.3		µg/l		20.0		96	70-130	0.1	25
Trichlorofluoromethane (Freon 11)	23.2		µg/l		20.0		116	70-130	5	50
1,2,3-Trichloropropane	22.0		µg/l		20.0		110	70-130	4	25
1,2,4-Trimethylbenzene	19.9		µg/l		20.0		100	70-130	0.3	25
1,3,5-Trimethylbenzene	20.3		µg/l		20.0		102	70-130	3	25
Vinyl chloride	22.2		µg/l		20.0		111	70-130	9	25
m,p-Xylene	38.5		µg/l		40.0		96	70-130	0.7	25
o-Xylene	19.0		µg/l		20.0		95	70-130	5	25
Tetrahydrofuran	20.1		µg/l		20.0		101	70-130	9	25
Ethyl ether	20.1		µg/l		20.0		101	70-130	3	50
Tert-amyl methyl ether	18.5		µg/l		20.0		93	70-130	2	25
Ethyl tert-butyl ether	19.4		µg/l		20.0		97	70-130	1	25
Di-isopropyl ether	19.5		µg/l		20.0		97	70-130	1	25

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114853 - SW846 5030 Water MS										
LCS Dup (1114853-BSD1)					Prepared & Analyzed: 28-Jul-11					
Tert-Butanol / butyl alcohol	227		µg/l		200		113	70-130	10	25
1,4-Dioxane	223		µg/l		200		111	70-130	13	25
trans-1,4-Dichloro-2-butene	22.7		µg/l		20.0		114	70-130	13	25
Ethanol	446		µg/l		400		112	70-130	20	30
Surrogate: 4-Bromofluorobenzene	*30.0*		µg/l		*30.0*		*100*	*70-130*		
Surrogate: Toluene-d8	*29.5*		µg/l		*30.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*29.2*		µg/l		*30.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*31.1*		µg/l		*30.0*		*104*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114373 - SW846 3510C										
Blank (1114373-BLK1)					Prepared: 22-Jul-11 Analyzed: 25-Jul-11					
Acenaphthene	BRL	U	µg/l	0.810						
Acenaphthylene	BRL	U	µg/l	1.01						
Anthracene	BRL	U	µg/l	0.740						
Benzo (a) anthracene	BRL	U	µg/l	0.560						
Benzo (a) pyrene	BRL	U	µg/l	0.840						
Benzo (b) fluoranthene	BRL	U	µg/l	0.960						
Benzo (g,h,i) perylene	BRL	U	µg/l	1.45						
Benzo (k) fluoranthene	BRL	U	µg/l	1.52						
Chrysene	BRL	U	µg/l	0.660						
Dibenzo (a,h) anthracene	BRL	U	µg/l	1.31						
Fluoranthene	BRL	U	µg/l	2.14						
Fluorene	BRL	U	µg/l	0.910						
Indeno (1,2,3-cd) pyrene	BRL	U	µg/l	1.34						
1-Methylnaphthalene	BRL	U	µg/l	1.10						
2-Methylnaphthalene	BRL	U	µg/l	1.28						
Naphthalene	BRL	U	µg/l	0.750						
Phenanthrene	BRL	U	µg/l	0.600						
Pyrene	BRL	U	µg/l	2.47						
Surrogate: 2-Fluorobiphenyl	*24.6*		µg/l		*50.0*		*49*	*30-130*		
Surrogate: Terphenyl-dl4	*26.0*		µg/l		*50.0*		*52*	*30-130*		
LCS (1114373-BS1)					Prepared: 22-Jul-11 Analyzed: 25-Jul-11					
Acenaphthene	28.7		µg/l	0.810	50.0		57	40-140		
Acenaphthylene	27.3		µg/l	1.01	50.0		55	40-140		
Anthracene	31.9		µg/l	0.740	50.0		64	40-140		
Benzo (a) anthracene	28.9		µg/l	0.560	50.0		58	40-140		
Benzo (a) pyrene	28.0		µg/l	0.840	50.0		56	40-140		
Benzo (b) fluoranthene	25.2		µg/l	0.960	50.0		50	40-140		
Benzo (g,h,i) perylene	28.5		µg/l	1.45	50.0		57	40-140		
Benzo (k) fluoranthene	29.7		µg/l	1.52	50.0		59	40-140		
Chrysene	28.6		µg/l	0.660	50.0		57	40-140		
Dibenzo (a,h) anthracene	27.5		µg/l	1.31	50.0		55	40-140		
Fluoranthene	29.8		µg/l	2.14	50.0		60	40-140		
Fluorene	28.8		µg/l	0.910	50.0		58	40-140		
Indeno (1,2,3-cd) pyrene	27.4		µg/l	1.34	50.0		55	40-140		
1-Methylnaphthalene	27.2		µg/l	1.10	50.0		54	40-140		
2-Methylnaphthalene	26.3		µg/l	1.28	50.0		53	40-140		
Naphthalene	23.8		µg/l	0.750	50.0		48	40-140		
Phenanthrene	28.3		µg/l	0.600	50.0		57	40-140		
Pyrene	28.3		µg/l	2.47	50.0		57	40-140		
Surrogate: 2-Fluorobiphenyl	*29.4*		µg/l		*50.0*		*59*	*30-130*		
Surrogate: Terphenyl-dl4	*33.6*		µg/l		*50.0*		*67*	*30-130*		
LCS Dup (1114373-BSD1)					Prepared: 22-Jul-11 Analyzed: 25-Jul-11					
Acenaphthene	27.7		µg/l	0.810	50.0		55	40-140	4	20
Acenaphthylene	26.5		µg/l	1.01	50.0		53	40-140	3	20
Anthracene	31.1		µg/l	0.740	50.0		62	40-140	3	20
Benzo (a) anthracene	28.2		µg/l	0.560	50.0		56	40-140	2	20
Benzo (a) pyrene	27.5		µg/l	0.840	50.0		55	40-140	2	20
Benzo (b) fluoranthene	24.5		µg/l	0.960	50.0		49	40-140	3	20
Benzo (g,h,i) perylene	27.7		µg/l	1.45	50.0		55	40-140	3	20
Benzo (k) fluoranthene	29.3		µg/l	1.52	50.0		59	40-140	1	20
Chrysene	28.1		µg/l	0.660	50.0		56	40-140	2	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114373 - SW846 3510C										
LCS Dup (1114373-BSD1)						Prepared: 22-Jul-11 Analyzed: 25-Jul-11				
Dibenzo (a,h) anthracene	26.9		µg/l	1.31	50.0		54	40-140	2	20
Fluoranthene	29.2		µg/l	2.14	50.0		58	40-140	2	20
Fluorene	28.0		µg/l	0.910	50.0		56	40-140	3	20
Indeno (1,2,3-cd) pyrene	26.8		µg/l	1.34	50.0		54	40-140	2	20
1-Methylnaphthalene	26.7		µg/l	1.10	50.0		53	40-140	2	20
2-Methylnaphthalene	25.5		µg/l	1.28	50.0		51	40-140	3	20
Naphthalene	23.4		µg/l	0.750	50.0		47	40-140	2	20
Phenanthrene	27.5		µg/l	0.600	50.0		55	40-140	3	20
Pyrene	27.7		µg/l	2.47	50.0		55	40-140	2	20
Surrogate: 2-Fluorobiphenyl	*27.4*		µg/l		*50.0*		*55*	*30-130*		
Surrogate: Terphenyl-dl4	*32.4*		µg/l		*50.0*		*65*	*30-130*		
Batch 1114505 - SW846 3545A										
Blank (1114505-BLK1)						Prepared & Analyzed: 25-Jul-11				
Acenaphthene	BRL	U	µg/kg wet	18.6						
Acenaphthylene	BRL	U	µg/kg wet	18.9						
Anthracene	BRL	U	µg/kg wet	19.4						
Benzo (a) anthracene	BRL	U	µg/kg wet	19.2						
Benzo (a) pyrene	BRL	U	µg/kg wet	21.8						
Benzo (b) fluoranthene	BRL	U	µg/kg wet	19.9						
Benzo (g,h,i) perylene	BRL	U	µg/kg wet	25.3						
Benzo (k) fluoranthene	BRL	U	µg/kg wet	29.2						
Chrysene	BRL	U	µg/kg wet	19.7						
Dibenzo (a,h) anthracene	BRL	U	µg/kg wet	22.8						
Fluoranthene	BRL	U	µg/kg wet	30.2						
Fluorene	BRL	U	µg/kg wet	21.0						
Indeno (1,2,3-cd) pyrene	BRL	U	µg/kg wet	30.5						
1-Methylnaphthalene	BRL	U	µg/kg wet	24.2						
2-Methylnaphthalene	BRL	U	µg/kg wet	19.5						
Naphthalene	BRL	U	µg/kg wet	16.7						
Phenanthrene	BRL	U	µg/kg wet	18.6						
Pyrene	BRL	U	µg/kg wet	33.2						
Surrogate: 2-Fluorobiphenyl	*1420*		µg/kg wet		*1670*		*85*	*30-130*		
Surrogate: Terphenyl-dl4	*1430*		µg/kg wet		*1670*		*86*	*30-130*		
LCS (1114505-BS1)						Prepared & Analyzed: 25-Jul-11				
Acenaphthene	1240		µg/kg wet	18.6	1670		74	40-140		
Acenaphthylene	1170		µg/kg wet	18.9	1670		70	40-140		
Anthracene	1370		µg/kg wet	19.4	1670		82	40-140		
Benzo (a) anthracene	1240		µg/kg wet	19.2	1670		75	40-140		
Benzo (a) pyrene	1210		µg/kg wet	21.8	1670		73	40-140		
Benzo (b) fluoranthene	1130		µg/kg wet	19.9	1670		68	40-140		
Benzo (g,h,i) perylene	1230		µg/kg wet	25.3	1670		74	40-140		
Benzo (k) fluoranthene	1210		µg/kg wet	29.2	1670		73	40-140		
Chrysene	1240		µg/kg wet	19.7	1670		75	40-140		
Dibenzo (a,h) anthracene	1190		µg/kg wet	22.8	1670		72	40-140		
Fluoranthene	1270		µg/kg wet	30.2	1670		76	40-140		
Fluorene	1240		µg/kg wet	21.0	1670		74	40-140		
Indeno (1,2,3-cd) pyrene	1130		µg/kg wet	30.5	1670		68	40-140		
1-Methylnaphthalene	1170		µg/kg wet	24.2	1670		70	40-140		
2-Methylnaphthalene	1090		µg/kg wet	19.5	1670		65	40-140		
Naphthalene	999		µg/kg wet	16.7	1670		60	40-140		
Phenanthrene	1220		µg/kg wet	18.6	1670		73	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114505 - SW846 3545A										
LCS (1114505-BS1)					Prepared & Analyzed: 25-Jul-11					
Pyrene	1190		µg/kg wet	33.2	1670		72	40-140		
Surrogate: 2-Fluorobiphenyl	*1380*		µg/kg wet		*1670*		*83*	*30-130*		
Surrogate: Terphenyl-dl4	*1480*		µg/kg wet		*1670*		*89*	*30-130*		
Duplicate (1114505-DUP1)			**Source: SB32020-06**		Prepared & Analyzed: 25-Jul-11					
Acenaphthene	BRL	U	µg/kg dry	18.4		BRL				50
Acenaphthylene	BRL	U	µg/kg dry	18.7		BRL				50
Anthracene	BRL	U	µg/kg dry	19.2		BRL				50
Benzo (a) anthracene	BRL	U	µg/kg dry	19.0		BRL				50
Benzo (a) pyrene	BRL	U	µg/kg dry	21.5		BRL				50
Benzo (b) fluoranthene	BRL	U	µg/kg dry	19.7		BRL				50
Benzo (g,h,i) perylene	BRL	U	µg/kg dry	25.0		BRL				50
Benzo (k) fluoranthene	BRL	U	µg/kg dry	28.9		BRL				50
Chrysene	BRL	U	µg/kg dry	19.5		BRL				50
Dibenzo (a,h) anthracene	BRL	U	µg/kg dry	22.5		BRL				50
Fluoranthene	BRL	U	µg/kg dry	29.8		BRL				50
Fluorene	BRL	U	µg/kg dry	20.8		BRL				50
Indeno (1,2,3-cd) pyrene	BRL	U	µg/kg dry	30.1		BRL				50
1-Methylnaphthalene	BRL	U	µg/kg dry	23.9		BRL				50
2-Methylnaphthalene	BRL	U	µg/kg dry	19.3		BRL				50
Naphthalene	BRL	U	µg/kg dry	16.5		BRL				50
Phenanthrene	BRL	U	µg/kg dry	18.4		BRL				50
Pyrene	BRL	U	µg/kg dry	32.8		BRL				50
Surrogate: 2-Fluorobiphenyl	*1360*		µg/kg dry		*1650*		*83*	*30-130*		
Surrogate: Terphenyl-dl4	*1410*		µg/kg dry		*1650*		*86*	*30-130*		
Matrix Spike (1114505-MS1)			**Source: SB32020-06**		Prepared & Analyzed: 25-Jul-11					
Acenaphthene	1150		µg/kg dry	18.5	1660	BRL	69	40-140		
Acenaphthylene	1080		µg/kg dry	18.8	1660	BRL	65	40-140		
Anthracene	1280		µg/kg dry	19.3	1660	BRL	77	40-140		
Benzo (a) anthracene	1150		µg/kg dry	19.1	1660	BRL	69	40-140		
Benzo (a) pyrene	1130		µg/kg dry	21.7	1660	BRL	68	40-140		
Benzo (b) fluoranthene	1000		µg/kg dry	19.8	1660	BRL	60	40-140		
Benzo (g,h,i) perylene	1120		µg/kg dry	25.2	1660	BRL	67	40-140		
Benzo (k) fluoranthene	1200		µg/kg dry	29.1	1660	BRL	72	40-140		
Chrysene	1150		µg/kg dry	19.6	1660	BRL	69	30-130		
Dibenzo (a,h) anthracene	1090		µg/kg dry	22.7	1660	BRL	65	30-130		
Fluoranthene	1190		µg/kg dry	30.1	1660	BRL	72	40-140		
Fluorene	1140		µg/kg dry	20.9	1660	BRL	69	40-140		
Indeno (1,2,3-cd) pyrene	1030		µg/kg dry	30.4	1660	BRL	62	40-140		
1-Methylnaphthalene	1100		µg/kg dry	24.1	1660	BRL	66	40-140		
2-Methylnaphthalene	1010		µg/kg dry	19.4	1660	BRL	61	40-140		
Naphthalene	939		µg/kg dry	16.7	1660	BRL	57	40-140		
Phenanthrene	1120		µg/kg dry	18.5	1660	BRL	68	40-140		
Pyrene	1120		µg/kg dry	33.1	1660	BRL	68	40-140		
Surrogate: 2-Fluorobiphenyl	*1260*		µg/kg dry		*1660*		*76*	*30-130*		
Surrogate: Terphenyl-dl4	*1380*		µg/kg dry		*1660*		*83*	*30-130*		
Matrix Spike Dup (1114505-MSD1)			**Source: SB32020-06**		Prepared & Analyzed: 25-Jul-11					
Acenaphthene	1120		µg/kg dry	18.8	1680	BRL	67	40-140	3	30
Acenaphthylene	1060		µg/kg dry	19.1	1680	BRL	63	40-140	3	30
Anthracene	1260		µg/kg dry	19.6	1680	BRL	75	40-140	3	30
Benzo (a) anthracene	1130		µg/kg dry	19.4	1680	BRL	67	40-140	3	30

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114505 - SW846 3545A										
Matrix Spike Dup (1114505-MSD1)			**Source: SB32020-06**		Prepared & Analyzed: 25-Jul-11					
Benzo (a) pyrene	1110		µg/kg dry	22.0	1680	BRL	66	40-140	3	30
Benzo (b) fluoranthene	1010		µg/kg dry	20.1	1680	BRL	60	40-140	0.4	30
Benzo (g,h,i) perylene	1100		µg/kg dry	25.5	1680	BRL	66	40-140	3	30
Benzo (k) fluoranthene	1140		µg/kg dry	29.5	1680	BRL	68	40-140	6	30
Chrysene	1140		µg/kg dry	19.9	1680	BRL	68	30-130	2	30
Dibenzo (a,h) anthracene	1070		µg/kg dry	23.0	1680	BRL	64	30-130	3	30
Fluoranthene	1170		µg/kg dry	30.5	1680	BRL	69	40-140	3	30
Fluorene	1120		µg/kg dry	21.2	1680	BRL	67	40-140	3	30
Indeno (1,2,3-cd) pyrene	1030		µg/kg dry	30.8	1680	BRL	61	40-140	2	30
1-Methylnaphthalene	1070		µg/kg dry	24.4	1680	BRL	64	40-140	3	30
2-Methylnaphthalene	997		µg/kg dry	19.7	1680	BRL	59	40-140	3	30
Naphthalene	925		µg/kg dry	16.8	1680	BRL	55	40-140	3	30
Phenanthrene	1100		µg/kg dry	18.8	1680	BRL	66	40-140	3	30
Pyrene	1100		µg/kg dry	33.5	1680	BRL	65	40-140	4	30
Surrogate: 2-Fluorobiphenyl	*1270*		µg/kg dry		*1680*		*75*	*30-130*		
Surrogate: Terphenyl-dl4	*1360*		µg/kg dry		*1680*		*81*	*30-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114450 - SW846 3050B										
Blank (1114450-BLK1)					Prepared: 26-Jul-11 Analyzed: 29-Jul-11					
Lead	BRL	U	mg/kg wet	0.154						
Selenium	BRL	U	mg/kg wet	0.192						
Cadmium	BRL	U	mg/kg wet	0.0477						
Chromium	BRL	U	mg/kg wet	0.315						
Arsenic	BRL	U	mg/kg wet	0.208						
Silver	BRL	U	mg/kg wet	0.200						
Barium	BRL	U	mg/kg wet	0.209						
Duplicate (1114450-DUP1)			**Source: SB32020-06**		Prepared: 26-Jul-11 Analyzed: 29-Jul-11					
Selenium	BRL	U	mg/kg dry	0.223		BRL				20
Lead	0.810	J	mg/kg dry	0.179		0.957			17	20
Arsenic	0.408	QR8, J	mg/kg dry	0.243		0.243			50	20
Cadmium	BRL	U	mg/kg dry	0.0556		BRL				20
Chromium	6.69		mg/kg dry	0.367		6.07			10	20
Silver	BRL	U	mg/kg dry	0.233		BRL				20
Barium	9.01		mg/kg dry	0.243		8.87			2	20
Matrix Spike (1114450-MS1)			**Source: SB32020-06**		Prepared: 26-Jul-11 Analyzed: 29-Jul-11					
Selenium	138		mg/kg dry	0.223	126	BRL	110	75-125		
Lead	124		mg/kg dry	0.179	126	0.957	98	75-125		
Arsenic	140		mg/kg dry	0.242	126	0.243	112	75-125		
Cadmium	122		mg/kg dry	0.0554	126	BRL	97	75-125		
Chromium	127		mg/kg dry	0.366	126	6.07	97	75-125		
Silver	146		mg/kg dry	0.232	126	BRL	116	75-125		
Barium	141		mg/kg dry	0.243	126	8.87	105	75-125		
Matrix Spike Dup (1114450-MSD1)			**Source: SB32020-06**		Prepared: 26-Jul-11 Analyzed: 29-Jul-11					
Lead	121		mg/kg dry	0.173	122	0.957	98	75-125	3	20
Selenium	134		mg/kg dry	0.216	122	BRL	110	75-125	3	20
Cadmium	118		mg/kg dry	0.0537	122	BRL	97	75-125	3	20
Chromium	124		mg/kg dry	0.355	122	6.07	97	75-125	3	20
Arsenic	137		mg/kg dry	0.235	122	0.243	113	75-125	2	20
Silver	141		mg/kg dry	0.225	122	BRL	116	75-125	3	20
Barium	138		mg/kg dry	0.235	122	8.87	106	75-125	3	20
Post Spike (1114450-PS1)			**Source: SB32020-06**		Prepared: 26-Jul-11 Analyzed: 29-Jul-11					
Selenium	119		mg/kg dry	0.193	109	BRL	109	80-120		
Lead	106		mg/kg dry	0.155	109	0.957	97	80-120		
Arsenic	121		mg/kg dry	0.210	109	0.243	111	80-120		
Silver	124		mg/kg dry	0.201	109	BRL	114	80-120		
Cadmium	103		mg/kg dry	0.0480	109	BRL	95	80-120		
Chromium	112		mg/kg dry	0.317	109	6.07	97	80-120		
Barium	123		mg/kg dry	0.210	109	8.87	105	80-120		
Reference (1114450-SRM1)					Prepared: 26-Jul-11 Analyzed: 29-Jul-11					
Lead	41.7		mg/kg wet	0.178	38.5		108	83.6-116.5		
Selenium	68.1		mg/kg wet	0.222	64.1		106	80.3-119.7		
Cadmium	43.2		mg/kg wet	0.0552	40.5		107	84-115.9		
Chromium	64.4		mg/kg wet	0.364	59.1		109	81.7-117.9		
Arsenic	57.6		mg/kg wet	0.241	55.0		105	82.94-117.4		
Silver	22.3		mg/kg wet	0.231	20.7		108	66.1-133.7		
Barium	110		mg/kg wet	0.242	104		106	83.5-116.5		
Reference (1114450-SRM2)					Prepared: 26-Jul-11 Analyzed: 29-Jul-11					
Selenium	66.2		mg/kg wet	0.222	65.0		102	80.3-119.7		
Lead	40.3		mg/kg wet	0.178	39.0		103	83.6-116.5		
Chromium	62.6		mg/kg wet	0.364	59.9		105	81.7-117.9		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114450 - SW846 3050B										
Reference (1114450-SRM2)					Prepared: 26-Jul-11 Analyzed: 29-Jul-11					
Cadmium	41.7		mg/kg wet	0.0552	41.0		102	84-115.9		
Arsenic	56.0		mg/kg wet	0.241	55.8		101	82.94-117.4		
Silver	22.0		mg/kg wet	0.231	21.0		105	66.1-133.7		
Barium	109		mg/kg wet	0.242	105		104	83.5-116.5		
Batch 1114451 - EPA200/SW7000 Series										
Blank (1114451-BLK1)					Prepared: 26-Jul-11 Analyzed: 01-Aug-11					
Mercury	BRL	U	mg/kg wet	0.0057						
Duplicate (1114451-DUP1)			**Source: SB32020-06**		Prepared: 26-Jul-11 Analyzed: 01-Aug-11					
Mercury	BRL	U	mg/kg dry	0.0056		BRL				20
Matrix Spike (1114451-MS1)			**Source: SB32020-06**		Prepared: 26-Jul-11 Analyzed: 01-Aug-11					
Mercury	0.426		mg/kg dry	0.0290	0.394	BRL	108	75-125		
Matrix Spike Dup (1114451-MSD1)			**Source: SB32020-06**		Prepared: 26-Jul-11 Analyzed: 01-Aug-11					
Mercury	0.415		mg/kg dry	0.0289	0.392	BRL	106	75-125	3	20
Post Spike (1114451-PS1)			**Source: SB32020-06**		Prepared: 26-Jul-11 Analyzed: 01-Aug-11					
Mercury	0.455		mg/kg dry	0.0294	0.399	BRL	114	80-120		
Reference (1114451-SRM1)					Prepared: 26-Jul-11 Analyzed: 01-Aug-11					
Mercury	2.17		mg/kg wet	0.0614	2.18		99	71.8-127.8		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114453 - SW846 3005A										
Blank (1114453-BLK1)					Prepared: 27-Jul-11 Analyzed: 30-Jul-11					
Selenium	BRL	U	mg/l	0.0024						
Lead	BRL	U	mg/l	0.0045						
Silver	BRL	U	mg/l	0.0020						
Arsenic	BRL	U	mg/l	0.0032						
Barium	BRL	U	mg/l	0.0034						
Cadmium	BRL	U	mg/l	0.0001						
Chromium	BRL	U	mg/l	0.0034						
LCS (1114453-BS1)					Prepared: 27-Jul-11 Analyzed: 30-Jul-11					
Selenium	1.20		mg/l	0.0024	1.25		96	85-115		
Lead	1.27		mg/l	0.0045	1.25		102	85-115		
Cadmium	1.30		mg/l	0.0001	1.25		104	85-115		
Barium	1.28		mg/l	0.0034	1.25		102	85-115		
Arsenic	1.22		mg/l	0.0032	1.25		98	85-115		
Chromium	1.20		mg/l	0.0034	1.25		96	85-115		
Silver	1.19		mg/l	0.0020	1.25		95	85-115		
LCS Dup (1114453-BSD1)					Prepared: 27-Jul-11 Analyzed: 30-Jul-11					
Lead	1.27		mg/l	0.0045	1.25		102	85-115	0.4	20
Selenium	1.20		mg/l	0.0024	1.25		96	85-115	0	20
Silver	1.20		mg/l	0.0020	1.25		96	85-115	0.4	20
Chromium	1.20		mg/l	0.0034	1.25		96	85-115	0.6	20
Cadmium	1.30		mg/l	0.0001	1.25		104	85-115	0.08	20
Barium	1.27		mg/l	0.0034	1.25		102	85-115	0.5	20
Arsenic	1.22		mg/l	0.0032	1.25		97	85-115	0.2	20
Duplicate (1114453-DUP1)			**Source: SB32020-05**		Prepared: 27-Jul-11 Analyzed: 30-Jul-11					
Selenium	BRL	U	mg/l	0.0024		BRL				20
Lead	BRL	U	mg/l	0.0045		BRL				20
Barium	0.435		mg/l	0.0034		0.451			3	20
Chromium	BRL	U	mg/l	0.0034		BRL				20
Cadmium	0.0002	QR8, J	mg/l	0.0001		0.0004			73	20
Silver	BRL	U	mg/l	0.0020		BRL				20
Arsenic	BRL	U	mg/l	0.0032		BRL				20
Matrix Spike (1114453-MS1)			**Source: SB32020-03**		Prepared: 27-Jul-11 Analyzed: 30-Jul-11					
Selenium	1.21		mg/l	0.0024	1.25	BRL	97	75-125		
Lead	1.20		mg/l	0.0045	1.25	0.0120	95	75-125		
Barium	1.65		mg/l	0.0034	1.25	0.335	105	75-125		
Cadmium	1.25		mg/l	0.0001	1.25	0.0003	100	75-125		
Arsenic	1.38		mg/l	0.0032	1.25	BRL	110	75-125		
Silver	1.29		mg/l	0.0020	1.25	BRL	103	75-125		
Chromium	1.13		mg/l	0.0034	1.25	BRL	91	75-125		
Matrix Spike Dup (1114453-MSD1)			**Source: SB32020-03**		Prepared: 27-Jul-11 Analyzed: 30-Jul-11					
Lead	1.17		mg/l	0.0045	1.25	0.0120	93	75-125	2	20
Selenium	1.18		mg/l	0.0024	1.25	BRL	95	75-125	2	20
Cadmium	1.22		mg/l	0.0001	1.25	0.0003	98	75-125	2	20
Silver	1.25		mg/l	0.0020	1.25	BRL	100	75-125	2	20
Chromium	1.11		mg/l	0.0034	1.25	BRL	88	75-125	3	20
Barium	1.60		mg/l	0.0034	1.25	0.335	101	75-125	3	20
Arsenic	1.34		mg/l	0.0032	1.25	BRL	107	75-125	3	20
Post Spike (1114453-PS1)			**Source: SB32020-03**		Prepared: 27-Jul-11 Analyzed: 30-Jul-11					
Selenium	1.29		mg/l	0.0024	1.25	BRL	103	80-120		
Lead	1.15		mg/l	0.0045	1.25	0.0120	91	80-120		
Arsenic	1.31		mg/l	0.0032	1.25	BRL	105	80-120		

Soluble Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114453 - SW846 3005A										
Post Spike (1114453-PS1)			**Source: SB32020-03**			Prepared: 27-Jul-11 Analyzed: 30-Jul-11				
Silver	1.23		mg/l	0.0020	1.25	BRL	98	80-120		
Barium	1.57		mg/l	0.0034	1.25	0.335	99	80-120		
Cadmium	1.20		mg/l	0.0001	1.25	0.0003	96	80-120		
Chromium	1.09		mg/l	0.0034	1.25	BRL	87	80-120		

Soluble Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1114454 - EPA200/SW7000 Series										
Blank (1114454-BLK1)					Prepared: 27-Jul-11 Analyzed: 28-Jul-11					
Mercury	BRL	U	mg/l	0.00007						
LCS (1114454-BS1)					Prepared: 27-Jul-11 Analyzed: 28-Jul-11					
Mercury	0.00529		mg/l	0.00007	0.00500		106	85-115		
Duplicate (1114454-DUP1)			**Source: SB32020-05**		Prepared: 27-Jul-11 Analyzed: 28-Jul-11					
Mercury	BRL	U	mg/l	0.00007		BRL				20
Matrix Spike (1114454-MS1)			**Source: SB32020-03**		Prepared: 27-Jul-11 Analyzed: 28-Jul-11					
Mercury	0.00587		mg/l	0.00007	0.00500	BRL	117	80-120		
Matrix Spike Dup (1114454-MSD1)			**Source: SB32020-03**		Prepared: 27-Jul-11 Analyzed: 28-Jul-11					
Mercury	0.00563		mg/l	0.00007	0.00500	BRL	113	80-120	4	20
Post Spike (1114454-PS1)			**Source: SB32020-03**		Prepared: 27-Jul-11 Analyzed: 28-Jul-11					
Mercury	0.00553		mg/l	0.00007	0.00500	BRL	111	85-115		

Notes and Definitions

E	The concentration indicated for this analyte is an estimated value. This value is considered an estimate (CLP E-flag).
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
QR8	Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.
R05	Elevated Reporting Limits due to the presence of high levels of non-target analytes.
U	Analyte included in the analysis, but not detected
BDL	Below Detection Limit - Analyte NOT DETECTED at or above the minimum detection limit
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk

SB33020

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- [x] Standard TAT - 7 to 10 business days
- [ ] Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Stantec
5 Dartmouth Dr Suite 101
Auburn, NH 03032

Telephone #:
Project Mgr. Donald Moore

Invoice To: Same

P.O. No.: RQN:

Project No.: 191710847 / TASK 200
Site Name: A+P Inwood
Location: New York State: NY
Sampler(s): B Bline / STANTEC

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= 11=

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= Distilled H_2O X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: 8260 B	PAH 8270 C	RCRA Metals
33020-01	TRIP BLANK			G	X1	4				X		
-02	B-102(6.5'-7.0')	7/19/11	950	G	SO	3	2			X	X	X
-03	B-102	7/19/11	1100	G	GW	3	1		1	X	X	X
-04	B-103(6.5'-7.3')	7/19/11	1115	G	SO	3	2			X	X	X
-05	B-103	7/19/11	1230	G	GW	3	1		1	X	X	X
-06	B-101(4.8-6.1')	7/19/11	1340	G	SO	3	2			X	X	X
-07	B-101	7/19/11	1400	G	GW	3	1		1	X	X	X

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☐ No ☐

QA/QC Reporting Level
- [x] Standard ☐ No QC ☐ DQA*
- ☐ NY ASP A* ☐ NY ASP B*
- ☐ NJ Reduced* ☐ NJ Full*
- ☐ TIER II* ☐ TIER V*
- ☐ Other

State-specific reporting standards:

One received empty
metals are filtered 0.45µ
metals are filtered 0.45µ
metals filtered 0.45µ

Relinquished by:	Received by:	Date:	Time:	Temp°C
Fed EX	Fed EX			
	Tanya K	7/20/11	10:00	4.6

☐ EDD Format
☐ E-mail to

☐ Ambient ☒ Iced ☐ Refrigerated ☐ Fridge temp ___ °C ☐ Freezer temp ___ °C

APPENDIX C

Laboratory Report
August 25, 2011 Elevator Pit Oil Sheen Sampling Event

Report Date:
08-Sep-11 16:27

☐ Final Report
☐ Re-Issued Report
☑ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Stantec Consulting Services
5 Dartmouth Drive, Suite 101
Auburn, NH 03032
Attn: Don Moore

Project: A&P Inwood - New York, NY
Project #: 191710847

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB34396-01	Elevator Pit	Oil	25-Aug-11 14:00	26-Aug-11 10:05

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.
Please note that this report contains 5 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

CASE NARRATIVE:

The samples were received 0.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Matrix Change for SB34396-01 Case Narrative:

Per client request, the matrix for SB34396-01 (Elevator Pit) has been changed from ground water to oil. Please see the attached report.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Elevator Pit SB34396-01	191710847	Oil	25-Aug-11 14:00	26-Aug-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls by SW846 8082 Prepared by method SW846 3580A													
12674-11-2	Aroclor-1016	< 160	U	µg/kg	394	160	1	SW846 8082A	02-Sep-11	03-Sep-11	IMR	1117765	X
11104-28-2	Aroclor-1221	< 197	U	µg/kg	394	197	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 162	U	µg/kg	394	162	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 217	U	µg/kg	394	217	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 186	U	µg/kg	394	186	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 102	U	µg/kg	394	102	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 145	U	µg/kg	394	145	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 341	U	µg/kg	394	341	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 132	U	µg/kg	394	132	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1117765 - SW846 3580A										
Blank (1117765-BLK1)						Prepared: 02-Sep-11 Analyzed: 03-Sep-11				
Aroclor-1016	< 163	U	µg/kg	163						
Aroclor-1016 [2C]	< 102	U	µg/kg	102						
Aroclor-1221	< 200	U	µg/kg	200						
Aroclor-1221 [2C]	< 200	U	µg/kg	200						
Aroclor-1232	< 165	U	µg/kg	165						
Aroclor-1232 [2C]	< 133	U	µg/kg	133						
Aroclor-1242	< 220	U	µg/kg	220						
Aroclor-1242 [2C]	< 206	U	µg/kg	206						
Aroclor-1248	< 189	U	µg/kg	189						
Aroclor-1248 [2C]	< 191	U	µg/kg	191						
Aroclor-1254	< 104	U	µg/kg	104						
Aroclor-1254 [2C]	< 134	U	µg/kg	134						
Aroclor-1260	< 147	U	µg/kg	147						
Aroclor-1260 [2C]	< 113	U	µg/kg	113						
Aroclor-1262	< 346	U	µg/kg	346						
Aroclor-1262 [2C]	< 306	U	µg/kg	306						
Aroclor-1268	< 134	U	µg/kg	134						
Aroclor-1268 [2C]	< 203	U	µg/kg	203						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*360*		µg/kg		*400*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*420*		µg/kg		*400*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*380*		µg/kg		*400*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*400*		µg/kg		*400*		*100*	*30-150*		
LCS (1117765-BS1)						Prepared: 02-Sep-11 Analyzed: 03-Sep-11				
Aroclor-1016	**5600**		µg/kg	163	5000		112	50-140		
Aroclor-1016 [2C]	**5580**		µg/kg	102	5000		112	50-140		
Aroclor-1260	**5100**		µg/kg	147	5000		102	50-140		
Aroclor-1260 [2C]	**5580**		µg/kg	113	5000		112	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*420*		µg/kg		*400*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*460*		µg/kg		*400*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*440*		µg/kg		*400*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*480*		µg/kg		*400*		*120*	*30-150*		
LCS Dup (1117765-BSD1)						Prepared: 02-Sep-11 Analyzed: 03-Sep-11				
Aroclor-1016	**5580**		µg/kg	163	5000		112	50-140	0.4	30
Aroclor-1016 [2C]	**5640**		µg/kg	102	5000		113	50-140	1	30
Aroclor-1260	**5100**		µg/kg	147	5000		102	50-140	0	30
Aroclor-1260 [2C]	**5200**		µg/kg	113	5000		104	50-140	7	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*420*		µg/kg		*400*		*105*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*440*		µg/kg		*400*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*440*		µg/kg		*400*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*460*		µg/kg		*400*		*115*	*30-150*		

Notes and Definitions

U	Analyte included in the analysis, but not detected
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk

SB 34396 DM

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- [x] Standard TAT - 7 to 10 business days
- [ ] Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Stantec
5 Dartmouth Drive Suite 101
Auburn, NH 03032

Telephone #:
Project Mgr. Donald Moore

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 191710847
Site Name: A+P Inwood
Location: Inwood State: NY
Sampler(s): B Blive / Stantec

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= _____ 11= _____

List preservative code below: 2

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: 8260	Svoc, 8270	PCBs *	State-specific reporting standards:
34396-01	ELEVATOR PIT	8/25/11	1400	G	GW	3	1			X	X	X	Analyze oil layer
	~~Hold~~ Run analyses until notified by Donald Moore												Per client request.

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☐ No ☐

QA/QC Reporting Level
- [x] Standard ☐ No QC ☐ DQA*
- ☐ NY ASP A* ☐ NY ASP B*
- ☐ NJ Reduced* ☐ NJ Full*
- ☐ TIER II* ☐ TIER V*
- ☐ Other _____

Relinquished by:	Received by:	Date:	Time:	Temp°C
B Blive / Stantec		8/26/11	10:05	0.2

☐ EDD Format _____
☐ E-mail to _____

☐ Ambient ☒ Iced ☐ Refrigerated ☐ Fridge temp ___ °C ☐ Freezer temp ___ °C

APPENDIX D

Laboratory Report
October 24, 2011 Soil and Ground Water Sampling Event

Report Date:
27-Oct-11 15:36

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Stantec Consulting Services
5 Dartmouth Drive, Suite 101
Auburn, NH 03032
Attn: Don Moore

Project: A&P Inwood - New York, NY
Project #: 191710847.200

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB38052-01	Trip Blank	Distilled Water	24-Oct-11 00:00	25-Oct-11 10:12
SB38052-02	B-104 (8-10)	Soil	24-Oct-11 15:25	25-Oct-11 10:12
SB38052-03	B-104	Ground Water	24-Oct-11 15:30	25-Oct-11 10:12
SB38052-04	B-105 (8-10)	Soil	24-Oct-11 12:20	25-Oct-11 10:12
SB38052-05	B-105	Ground Water	24-Oct-11 12:30	25-Oct-11 10:12

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.
Please note that this report contains 35 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

CASE NARRATIVE:

The samples were received 1.9 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Additional dilution factors may be required to keep analyte concentration within instrument calibration.

Method SW846 5035A is designed to use on samples containing low levels of VOCs, ranging from 0.5 to 200 ug/Kg. Target analytes that are less responsive to purge and trap may be present at concentrations over 200ug/Kg but may not be reportable in the methanol preserved vial (SW846 5030). This is the result of the inherent dilution factor required for the methanol preservation.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 6010C

Duplicates:

1122211-DUP1 *Source: SB38052-03*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Cadmium

SW846 8260C

Calibration:

1109026

Analyte quantified by quadratic equation type calibration.

1,1,2,2-Tetrachloroethane
1,2-Dibromo-3-chloropropane
1,4-Dioxane
Bromodichloromethane
Bromoform
cis-1,3-Dichloropropene
Dibromochloromethane
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene
Vinyl chloride

This affected the following samples:

1122302-BLK1
1122302-BS1
1122302-BSD1
B-104
B-105
S108630-ICV1
S109879-CCV1
Trip Blank

1110031

SW846 8260C

Calibration:

1110031

Analyte quantified by quadratic equation type calibration.

1,2-Dibromo-3-chloropropane
Bromoform
Carbon disulfide
Naphthalene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene

This affected the following samples:

1122266-BLK1
1122266-BS1
1122266-BSD1
B-104 (8-10)
B-105 (8-10)
S109584-ICV1
S109881-CCV1

Laboratory Control Samples:

1122266 BS/BSD

Acetone percent recoveries (131/110) are outside individual acceptance criteria (70-130), but within overall method allowances.
All reported results of the following samples are considered to have a potentially high bias:

B-104 (8-10)
B-105 (8-10)

1122302 BS/BSD

Bromoform percent recoveries (140/142) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-104
B-105
Trip Blank

Samples:

S109879-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,3-Dichlorobenzene (23.4%)
Dichlorodifluoromethane (Freon12) (-24.1%)
Tert-Butanol / butyl alcohol (-20.7%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Bromoform (40.0%)
Dibromochloromethane (27.4%)

This affected the following samples:

1122302-BLK1
1122302-BS1
1122302-BSD1
B-104
B-105
Trip Blank

SB38052-02 *B-104 (8-10)*

SW846 8260C

Samples:

SB38052-02 *B-104 (8-10)*

This compound is a common laboratory contaminant.

Methylene chloride

SB38052-04 *B-105 (8-10)*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

Dibromofluoromethane

This compound is a common laboratory contaminant.

Methylene chloride

SW846 8270D

Samples:

S109890-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2-Methylnaphthalene (26.3%)

This affected the following samples:

1122244-BLK1
1122244-BS1
B-104 (8-10)
B-105 (8-10)

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	191710847.200	Distilled Water	24-Oct-11 00:00	25-Oct-11
SB38052-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds													
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.6	U	µg/l	1.0	0.6	1	SW846 8260C	26-Oct-11	26-Oct-11	naa	1122302	X
67-64-1	Acetone	< 2.6	U	µg/l	10.0	2.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
75-25-2	Bromoform	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 1.1	U	µg/l	2.0	1.1	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 1.7	U	µg/l	10.0	1.7	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.6	U	µg/l	2.0	0.6	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 1.0	U	µg/l	2.0	1.0	1	"	"	"	"	"	X
67-66-3	Chloroform	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 1.5	U	µg/l	2.0	1.5	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 0.9	U	µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.3	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.3	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 0.4	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.3	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.5	U	µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	191710847.200	Distilled Water	24-Oct-11 00:00	25-Oct-11
SB38052-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds													
Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 0.6	U	µg/l	1.0	0.6	1	SW846 8260C	26-Oct-11	26-Oct-11	naa	1122302	X
99-87-6	4-Isopropyltoluene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 0.9	U	µg/l	10.0	0.9	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 0.7	U	µg/l	2.0	0.7	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.3	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
108-88-3	Toluene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 1.6	U	µg/l	2.0	1.6	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 0.9	U	µg/l	1.0	0.9	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 1.4	U	µg/l	2.0	1.4	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 8.6	U	µg/l	10.0	8.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 14.0	U	µg/l	20.0	14.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 0.8	U	µg/l	5.0	0.8	1	"	"	"	"	"	X
64-17-5	Ethanol	< 35.7	U	µg/l	400	35.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*96*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*102*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*103*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*110*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-104 (8-10)	191710847.200	Soil	24-Oct-11 15:25	25-Oct-11
SB38052-02				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
	VOC Extraction	Lab extracted		N/A			1	VOC Soil Extraction	25-Oct-11	25-Oct-11	BD	1122228	
Volatile Organic Compounds													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 5.22 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.3	U	µg/kg dry	6.5	4.3	1	SW846 8260C	26-Oct-11	26-Oct-11	JRO	1122266	X
67-64-1	Acetone	< 48.6	U	µg/kg dry	64.7	48.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.8	U	µg/kg dry	6.5	5.8	1	"	"	"	"	"	X
71-43-2	Benzene	< 3.4	U	µg/kg dry	6.5	3.4	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.1	U	µg/kg dry	6.5	4.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 2.1	U	µg/kg dry	6.5	2.1	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 2.4	U	µg/kg dry	6.5	2.4	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.5	U	µg/kg dry	6.5	4.5	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 11.7	U	µg/kg dry	12.9	11.7	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 55.5	U	µg/kg dry	64.7	55.5	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 3.2	U	µg/kg dry	6.5	3.2	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 6.3	U	µg/kg dry	6.5	6.3	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.7	U	µg/kg dry	6.5	4.7	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 9.2	U	µg/kg dry	12.9	9.2	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 6.4	U	µg/kg dry	6.5	6.4	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 3.6	U	µg/kg dry	6.5	3.6	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 9.2	U	µg/kg dry	12.9	9.2	1	"	"	"	"	"	X
67-66-3	Chloroform	< 3.2	U	µg/kg dry	6.5	3.2	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 3.3	U	µg/kg dry	12.9	3.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 3.9	U	µg/kg dry	6.5	3.9	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.8	U	µg/kg dry	6.5	5.8	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 12.2	U	µg/kg dry	12.9	12.2	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 3.1	U	µg/kg dry	6.5	3.1	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.0	U	µg/kg dry	6.5	4.0	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 6.5	U	µg/kg dry	6.5	6.5	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.2	U	µg/kg dry	6.5	5.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 6.4	U	µg/kg dry	6.5	6.4	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.4	U	µg/kg dry	6.5	4.4	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.9	U	µg/kg dry	12.9	10.9	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.9	U	µg/kg dry	6.5	5.9	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 3.6	U	µg/kg dry	6.5	3.6	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.2	U	µg/kg dry	6.5	3.2	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.7	U	µg/kg dry	6.5	2.7	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.4	U	µg/kg dry	6.5	5.4	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.3	U	µg/kg dry	6.5	3.3	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 3.3	U	µg/kg dry	6.5	3.3	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 2.6	U	µg/kg dry	6.5	2.6	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.0	U	µg/kg dry	6.5	4.0	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 3.5	U	µg/kg dry	6.5	3.5	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 1.8	U	µg/kg dry	6.5	1.8	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 3.9	U	µg/kg dry	6.5	3.9	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 5.6	U	µg/kg dry	6.5	5.6	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-104 (8-10)	191710847.200	Soil	24-Oct-11 15:25	25-Oct-11
SB38052-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 5.22 g						
591-78-6	2-Hexanone (MBK)	< 16.5	U	µg/kg dry	64.7	16.5	1	SW846 8260C	26-Oct-11	26-Oct-11	JRO	1122266	X
98-82-8	Isopropylbenzene	< 3.2	U	µg/kg dry	6.5	3.2	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 2.7	U	µg/kg dry	6.5	2.7	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.7	U	µg/kg dry	6.5	4.7	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 21.0	U	µg/kg dry	64.7	21.0	1	"	"	"	"	"	X
75-09-2	Methylene chloride	4.7	O01, J	µg/kg dry	12.9	3.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	30.8		µg/kg dry	6.5	4.0	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 3.9	U	µg/kg dry	6.5	3.9	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.8	U	µg/kg dry	6.5	4.8	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 6.2	U	µg/kg dry	6.5	6.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.9	U	µg/kg dry	6.5	4.9	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.7	U	µg/kg dry	6.5	3.7	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.8	U	µg/kg dry	6.5	5.8	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.6	U	µg/kg dry	6.5	5.6	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.9	U	µg/kg dry	6.5	4.9	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.6	U	µg/kg dry	6.5	4.6	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 5.2	U	µg/kg dry	6.5	5.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.6	U	µg/kg dry	6.5	5.6	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.0	U	µg/kg dry	6.5	5.0	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 2.6	U	µg/kg dry	6.5	2.6	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 2.9	U	µg/kg dry	6.5	2.9	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 2.1	U	µg/kg dry	6.5	2.1	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 6.4	U	µg/kg dry	6.5	6.4	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 6.1	U	µg/kg dry	6.5	6.1	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 12.5	U	µg/kg dry	12.9	12.5	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 4.4	U	µg/kg dry	6.5	4.4	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 12.0	U	µg/kg dry	12.9	12.0	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 6.0	U	µg/kg dry	6.5	6.0	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	< 5.1	U	µg/kg dry	6.5	5.1	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 2.3	U	µg/kg dry	6.5	2.3	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 2.1	U	µg/kg dry	6.5	2.1	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 36.6	U	µg/kg dry	64.7	36.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 106	U	µg/kg dry	129	106	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 16.6	U	µg/kg dry	32.3	16.6	1	"	"	"	"	"	X
64-17-5	Ethanol	< 541	U	µg/kg dry	2590	541	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*115*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*90*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-104 (8-10)	191710847.200	Soil	24-Oct-11 15:25	25-Oct-11
SB38052-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270C													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	48.5	J	µg/kg dry	191	21.5	1	SW846 8270D	26-Oct-11	26-Oct-11	MSL	1122244	X
208-96-8	Acenaphthylene	< 21.8	U	µg/kg dry	191	21.8	1	"	"	"	"	"	X
120-12-7	Anthracene	135	J	µg/kg dry	191	22.4	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	232		µg/kg dry	191	22.2	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	202		µg/kg dry	191	25.2	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	172	J	µg/kg dry	191	23.0	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	117	J	µg/kg dry	191	29.2	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	156	J	µg/kg dry	191	33.7	1	"	"	"	"	"	X
218-01-9	Chrysene	194		µg/kg dry	191	22.8	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 26.3	U	µg/kg dry	191	26.3	1	"	"	"	"	"	X
206-44-0	Fluoranthene	546		µg/kg dry	191	34.9	1	"	"	"	"	"	X
86-73-7	Fluorene	59.7	J	µg/kg dry	191	24.3	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	117	J	µg/kg dry	191	35.2	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 27.9	U	µg/kg dry	191	27.9	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 22.5	U	µg/kg dry	191	22.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 19.3	U	µg/kg dry	191	19.3	1	"	"	"	"	"	X
85-01-8	Phenanthrene	479		µg/kg dry	191	21.5	1	"	"	"	"	"	X
129-00-0	Pyrene	442		µg/kg dry	191	38.3	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*58*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*62*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.263	U	mg/kg dry	1.70	0.263	1	SW846 6010C	25-Oct-11	25-Oct-11	ARF	1122183	X
7440-38-2	Arsenic	2.74		mg/kg dry	1.70	0.274	1	"	"	"	"	"	X
7440-39-3	Barium	50.7		mg/kg dry	1.14	0.275	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.466	J	mg/kg dry	0.568	0.0627	1	"	"	"	"	"	X
7440-47-3	Chromium	17.6		mg/kg dry	1.14	0.414	1	"	"	"	"	"	X
7439-97-6	Mercury	0.0225	J	mg/kg dry	0.0347	0.0071	1	SW846 7471B	"	26-Oct-11	EDT	1122184	X
7439-92-1	Lead	14.4		mg/kg dry	1.70	0.202	1	SW846 6010C	"	25-Oct-11	ARF	1122183	X
7782-49-2	Selenium	0.585	J	mg/kg dry	1.70	0.252	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	85.4		%			1	SM2540 G Mod.	25-Oct-11	25-Oct-11	KK	1122202	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-104	191710847.200	Ground Water	24-Oct-11 15:30	25-Oct-11
SB38052-03				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds													
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.6	U	µg/l	1.0	0.6	1	SW846 8260C	26-Oct-11	26-Oct-11	naa	1122302	X
67-64-1	Acetone	4.7	J	µg/l	10.0	2.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
75-25-2	Bromoform	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 1.1	U	µg/l	2.0	1.1	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 1.7	U	µg/l	10.0	1.7	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.6	U	µg/l	2.0	0.6	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 1.0	U	µg/l	2.0	1.0	1	"	"	"	"	"	X
67-66-3	Chloroform	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 1.5	U	µg/l	2.0	1.5	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 0.9	U	µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.3	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.3	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 0.4	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.3	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.5	U	µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-104	191710847.200	Ground Water	24-Oct-11 15:30	25-Oct-11
SB38052-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds													
Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 0.6	U	µg/l	1.0	0.6	1	SW846 8260C	26-Oct-11	26-Oct-11	naa	1122302	X
99-87-6	4-Isopropyltoluene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 0.9	U	µg/l	10.0	0.9	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 0.7	U	µg/l	2.0	0.7	1	"	"	"	"	"	X
91-20-3	Naphthalene	1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.3	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
108-88-3	Toluene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 1.6	U	µg/l	2.0	1.6	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 0.9	U	µg/l	1.0	0.9	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 1.4	U	µg/l	2.0	1.4	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 8.6	U	µg/l	10.0	8.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 14.0	U	µg/l	20.0	14.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 0.8	U	µg/l	5.0	0.8	1	"	"	"	"	"	X
64-17-5	Ethanol	< 35.7	U	µg/l	400	35.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*98*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*102*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*104*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*112*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270C													
Prepared by method SW846 3510C													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-104	191710847.200	Ground Water	24-Oct-11 15:30	25-Oct-11
SB38052-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270C													
Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 0.890	U	µg/l	5.49	0.890	1	SW846 8270D	25-Oct-11	26-Oct-11	ML	1122140	X
208-96-8	Acenaphthylene	< 1.11	U	µg/l	5.49	1.11	1	"	"	"	"	"	X
120-12-7	Anthracene	0.945	J	µg/l	5.49	0.813	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	2.14	J	µg/l	5.49	0.615	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	1.82	J	µg/l	5.49	0.923	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	1.37	J	µg/l	5.49	1.05	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 1.59	U	µg/l	5.49	1.59	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	1.84	J	µg/l	5.49	1.67	1	"	"	"	"	"	X
218-01-9	Chrysene	1.71	J	µg/l	5.49	0.725	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 1.44	U	µg/l	5.49	1.44	1	"	"	"	"	"	X
206-44-0	Fluoranthene	3.87	J	µg/l	5.49	2.35	1	"	"	"	"	"	X
86-73-7	Fluorene	< 1.00	U	µg/l	5.49	1.00	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 1.47	U	µg/l	5.49	1.47	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1.21	U	µg/l	5.49	1.21	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 1.41	U	µg/l	5.49	1.41	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 0.824	U	µg/l	5.49	0.824	1	"	"	"	"	"	X
85-01-8	Phenanthrene	3.13	J	µg/l	5.49	0.659	1	"	"	"	"	"	X
129-00-0	Pyrene	3.84	J	µg/l	5.49	2.71	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*57*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*60*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	Field Preserved		N/A			1	EPA 200/6000 methods	25-Oct-11	25-Oct-11	RH	1122219	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.0020	U	mg/l	0.0050	0.0020	1	SW846 6010C	25-Oct-11	25-Oct-11	EDT	1122211	X
7440-38-2	Arsenic	0.0107		mg/l	0.0040	0.0032	1	"	"	"	"	"	X
7440-39-3	Barium	0.540		mg/l	0.0050	0.0034	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.0008	J	mg/l	0.0025	0.0001	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0034	U	mg/l	0.0050	0.0034	1	"	"	"	"	"	X
7439-92-1	Lead	< 0.0045	U	mg/l	0.0075	0.0045	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0024	U	mg/l	0.0150	0.0024	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00007	U	mg/l	0.00020	0.00007	1	EPA 245.1/7470A	25-Oct-11	26-Oct-11	EDT	1122213	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-105 (8-10)	191710847.200	Soil	24-Oct-11 12:20	25-Oct-11
SB38052-04				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
	VOC Extraction	Lab extracted		N/A			1	VOC Soil Extraction	25-Oct-11	25-Oct-11	BD	1122228	
Volatile Organic Compounds													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 6.11 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.0	U	µg/kg dry	4.5	3.0	1	SW846 8260C	26-Oct-11	26-Oct-11	JRO	1122266	X
67-64-1	Acetone	< 33.7	U	µg/kg dry	44.9	33.7	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.0	U	µg/kg dry	4.5	4.0	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.4	U	µg/kg dry	4.5	2.4	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 2.9	U	µg/kg dry	4.5	2.9	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.5	U	µg/kg dry	4.5	1.5	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 1.7	U	µg/kg dry	4.5	1.7	1	"	"	"	"	"	X
75-25-2	Bromoform	< 3.1	U	µg/kg dry	4.5	3.1	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 8.1	U	µg/kg dry	9.0	8.1	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 38.5	U	µg/kg dry	44.9	38.5	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 2.2	U	µg/kg dry	4.5	2.2	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.4	U	µg/kg dry	4.5	4.4	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 3.2	U	µg/kg dry	4.5	3.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 6.4	U	µg/kg dry	9.0	6.4	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.5	U	µg/kg dry	4.5	4.5	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 2.5	U	µg/kg dry	4.5	2.5	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 6.4	U	µg/kg dry	9.0	6.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 2.2	U	µg/kg dry	4.5	2.2	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.3	U	µg/kg dry	9.0	2.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.7	U	µg/kg dry	4.5	2.7	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.0	U	µg/kg dry	4.5	4.0	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 8.5	U	µg/kg dry	9.0	8.5	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 2.2	U	µg/kg dry	4.5	2.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 2.8	U	µg/kg dry	4.5	2.8	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.5	U	µg/kg dry	4.5	4.5	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 3.6	U	µg/kg dry	4.5	3.6	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.5	U	µg/kg dry	4.5	4.5	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3.0	U	µg/kg dry	4.5	3.0	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 7.6	U	µg/kg dry	9.0	7.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.1	U	µg/kg dry	4.5	4.1	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 2.5	U	µg/kg dry	4.5	2.5	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 2.2	U	µg/kg dry	4.5	2.2	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.9	U	µg/kg dry	4.5	1.9	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 3.7	U	µg/kg dry	4.5	3.7	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 2.3	U	µg/kg dry	4.5	2.3	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 2.3	U	µg/kg dry	4.5	2.3	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.8	U	µg/kg dry	4.5	1.8	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 2.8	U	µg/kg dry	4.5	2.8	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2.4	U	µg/kg dry	4.5	2.4	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 1.3	U	µg/kg dry	4.5	1.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 2.7	U	µg/kg dry	4.5	2.7	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 3.9	U	µg/kg dry	4.5	3.9	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-105 (8-10)	191710847.200	Soil	24-Oct-11 12:20	25-Oct-11
SB38052-04				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 6.11 g						
591-78-6	2-Hexanone (MBK)	< 11.4	U	µg/kg dry	44.9	11.4	1	SW846 8260C	26-Oct-11	26-Oct-11	JRO	1122266	X
98-82-8	Isopropylbenzene	< 2.3	U	µg/kg dry	4.5	2.3	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 1.9	U	µg/kg dry	4.5	1.9	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.3	U	µg/kg dry	4.5	3.3	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 14.6	U	µg/kg dry	44.9	14.6	1	"	"	"	"	"	X
75-09-2	Methylene chloride	3.1	O01, J	µg/kg dry	9.0	2.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.8	U	µg/kg dry	4.5	2.8	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.7	U	µg/kg dry	4.5	2.7	1	"	"	"	"	"	X
100-42-5	Styrene	< 3.3	U	µg/kg dry	4.5	3.3	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.3	U	µg/kg dry	4.5	4.3	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 3.4	U	µg/kg dry	4.5	3.4	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 2.6	U	µg/kg dry	4.5	2.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.0	U	µg/kg dry	4.5	4.0	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 3.9	U	µg/kg dry	4.5	3.9	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3.4	U	µg/kg dry	4.5	3.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 3.2	U	µg/kg dry	4.5	3.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 3.6	U	µg/kg dry	4.5	3.6	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 3.9	U	µg/kg dry	4.5	3.9	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 3.4	U	µg/kg dry	4.5	3.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.8	U	µg/kg dry	4.5	1.8	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 2.0	U	µg/kg dry	4.5	2.0	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.5	U	µg/kg dry	4.5	1.5	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.4	U	µg/kg dry	4.5	4.4	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.2	U	µg/kg dry	4.5	4.2	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 8.7	U	µg/kg dry	9.0	8.7	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 3.1	U	µg/kg dry	4.5	3.1	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 8.3	U	µg/kg dry	9.0	8.3	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.2	U	µg/kg dry	4.5	4.2	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	< 3.5	U	µg/kg dry	4.5	3.5	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 1.6	U	µg/kg dry	4.5	1.6	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 1.4	U	µg/kg dry	4.5	1.4	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 25.4	U	µg/kg dry	44.9	25.4	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 73.5	U	µg/kg dry	89.8	73.5	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 11.5	U	µg/kg dry	22.4	11.5	1	"	"	"	"	"	X
64-17-5	Ethanol	< 375	U	µg/kg dry	1800	375	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*98*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*102*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*119*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*52*	SGC		*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-105 (8-10)	191710847.200	Soil	24-Oct-11 12:20	25-Oct-11
SB38052-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270C													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 19.3	U	µg/kg dry	172	19.3	1	SW846 8270D	26-Oct-11	26-Oct-11	MSL	1122244	X
208-96-8	Acenaphthylene	< 19.7	U	µg/kg dry	172	19.7	1	"	"	"	"	"	X
120-12-7	Anthracene	< 20.2	U	µg/kg dry	172	20.2	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	31.9	J	µg/kg dry	172	20.0	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	34.7	J	µg/kg dry	172	22.7	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	21.8	J	µg/kg dry	172	20.7	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 26.3	U	µg/kg dry	172	26.3	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	39.5	J	µg/kg dry	172	30.4	1	"	"	"	"	"	X
218-01-9	Chrysene	31.9	J	µg/kg dry	172	20.5	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 23.7	U	µg/kg dry	172	23.7	1	"	"	"	"	"	X
206-44-0	Fluoranthene	67.6	J	µg/kg dry	172	31.4	1	"	"	"	"	"	X
86-73-7	Fluorene	< 21.8	U	µg/kg dry	172	21.8	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 31.7	U	µg/kg dry	172	31.7	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 25.2	U	µg/kg dry	172	25.2	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 20.3	U	µg/kg dry	172	20.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 17.4	U	µg/kg dry	172	17.4	1	"	"	"	"	"	X
85-01-8	Phenanthrene	35.0	J	µg/kg dry	172	19.3	1	"	"	"	"	"	X
129-00-0	Pyrene	53.7	J	µg/kg dry	172	34.5	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*45*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*48*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	0.300	J	mg/kg dry	1.45	0.224	1	SW846 6010C	25-Oct-11	25-Oct-11	ARF	1122183	X
7440-38-2	Arsenic	0.648	J	mg/kg dry	1.45	0.233	1	"	"	"	"	"	X
7440-39-3	Barium	68.1		mg/kg dry	0.968	0.234	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.910		mg/kg dry	0.484	0.0534	1	"	"	"	"	"	X
7440-47-3	Chromium	21.1		mg/kg dry	0.968	0.353	1	"	"	"	"	"	X
7439-97-6	Mercury	0.0849		mg/kg dry	0.0281	0.0058	1	SW846 7471B	26-Oct-11	26-Oct-11	EDT	1122350	X
7439-92-1	Lead	70.6		mg/kg dry	1.45	0.172	1	SW846 6010C	25-Oct-11	25-Oct-11	ARF	1122183	X
7782-49-2	Selenium	0.653	J	mg/kg dry	1.45	0.215	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	95.8		%			1	SM2540 G Mod.	25-Oct-11	25-Oct-11	KK	1122202	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-105	191710847.200	Ground Water	24-Oct-11 12:30	25-Oct-11
SB38052-05				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds													
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.6	U	µg/l	1.0	0.6	1	SW846 8260C	26-Oct-11	26-Oct-11	naa	1122302	X
67-64-1	Acetone	4.0	J	µg/l	10.0	2.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
75-25-2	Bromoform	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 1.1	U	µg/l	2.0	1.1	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 1.7	U	µg/l	10.0	1.7	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.6	U	µg/l	2.0	0.6	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 1.0	U	µg/l	2.0	1.0	1	"	"	"	"	"	X
67-66-3	Chloroform	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 1.5	U	µg/l	2.0	1.5	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 0.9	U	µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.3	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.3	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 0.4	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.3	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.5	U	µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-105	191710847.200	Ground Water	24-Oct-11 12:30	25-Oct-11
SB38052-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds													
Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 0.6	U	µg/l	1.0	0.6	1	SW846 8260C	26-Oct-11	26-Oct-11	naa	1122302	X
99-87-6	4-Isopropyltoluene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 0.9	U	µg/l	10.0	0.9	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 0.7	U	µg/l	2.0	0.7	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.3	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
108-88-3	Toluene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 1.6	U	µg/l	2.0	1.6	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 0.9	U	µg/l	1.0	0.9	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 1.4	U	µg/l	2.0	1.4	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 0.7	U	µg/l	1.0	0.7	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 8.6	U	µg/l	10.0	8.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 14.0	U	µg/l	20.0	14.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 0.8	U	µg/l	5.0	0.8	1	"	"	"	"	"	X
64-17-5	Ethanol	< 35.7	U	µg/l	400	35.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*95*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*102*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*103*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*110*			*70-130 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods	25-Oct-11	25-Oct-11	RH	1122219	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-105 SB38052-05	191710847.200	Ground Water	24-Oct-11 12:30	25-Oct-11

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.0020	U	mg/l	0.0050	0.0020	1	SW846 6010C	25-Oct-11	25-Oct-11	EDT	1122211	X
7440-38-2	Arsenic	< 0.0032	U	mg/l	0.0040	0.0032	1	"	"	"	"	"	X
7440-39-3	Barium	0.181		mg/l	0.0050	0.0034	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0001	U	mg/l	0.0025	0.0001	1	"	"	"	"	"	X
7440-47-3	Chromium	0.0138		mg/l	0.0050	0.0034	1	"	"	"	"	"	X
7439-92-1	Lead	< 0.0045	U	mg/l	0.0075	0.0045	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0024	U	mg/l	0.0150	0.0024	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00007	U	mg/l	0.00020	0.00007	1	EPA 245.1/7470A	25-Oct-11	26-Oct-11	EDT	1122213	X

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1122266 - SW846 5035A Soil (low level)										
Blank (1122266-BLK1)						Prepared & Analyzed: 26-Oct-11				
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.7	U	µg/kg wet	0.7						
Acetone	< 7.5	U	µg/kg wet	7.5						
Acrylonitrile	< 0.9	U	µg/kg wet	0.9						
Benzene	< 0.5	U	µg/kg wet	0.5						
Bromobenzene	< 0.6	U	µg/kg wet	0.6						
Bromochloromethane	< 0.3	U	µg/kg wet	0.3						
Bromodichloromethane	< 0.4	U	µg/kg wet	0.4						
Bromoform	< 0.7	U	µg/kg wet	0.7						
Bromomethane	< 1.8	U	µg/kg wet	1.8						
2-Butanone (MEK)	< 8.6	U	µg/kg wet	8.6						
n-Butylbenzene	< 0.5	U	µg/kg wet	0.5						
sec-Butylbenzene	< 1.0	U	µg/kg wet	1.0						
tert-Butylbenzene	< 0.7	U	µg/kg wet	0.7						
Carbon disulfide	< 1.4	U	µg/kg wet	1.4						
Carbon tetrachloride	< 1.0	U	µg/kg wet	1.0						
Chlorobenzene	< 0.6	U	µg/kg wet	0.6						
Chloroethane	< 1.4	U	µg/kg wet	1.4						
Chloroform	< 0.5	U	µg/kg wet	0.5						
Chloromethane	< 0.5	U	µg/kg wet	0.5						
2-Chlorotoluene	< 0.6	U	µg/kg wet	0.6						
4-Chlorotoluene	< 0.9	U	µg/kg wet	0.9						
1,2-Dibromo-3-chloropropane	< 1.9	U	µg/kg wet	1.9						
Dibromochloromethane	< 0.5	U	µg/kg wet	0.5						
1,2-Dibromoethane (EDB)	< 0.6	U	µg/kg wet	0.6						
Dibromomethane	< 1.0	U	µg/kg wet	1.0						
1,2-Dichlorobenzene	< 0.8	U	µg/kg wet	0.8						
1,3-Dichlorobenzene	< 1.0	U	µg/kg wet	1.0						
1,4-Dichlorobenzene	< 0.7	U	µg/kg wet	0.7						
Dichlorodifluoromethane (Freon12)	< 1.7	U	µg/kg wet	1.7						
1,1-Dichloroethane	< 0.9	U	µg/kg wet	0.9						
1,2-Dichloroethane	< 0.6	U	µg/kg wet	0.6						
1,1-Dichloroethene	< 0.5	U	µg/kg wet	0.5						
cis-1,2-Dichloroethene	< 0.4	U	µg/kg wet	0.4						
trans-1,2-Dichloroethene	< 0.8	U	µg/kg wet	0.8						
1,2-Dichloropropane	< 0.5	U	µg/kg wet	0.5						
1,3-Dichloropropane	< 0.5	U	µg/kg wet	0.5						
2,2-Dichloropropane	< 0.4	U	µg/kg wet	0.4						
1,1-Dichloropropene	< 0.6	U	µg/kg wet	0.6						
cis-1,3-Dichloropropene	< 0.5	U	µg/kg wet	0.5						
trans-1,3-Dichloropropene	< 0.3	U	µg/kg wet	0.3						
Ethylbenzene	< 0.6	U	µg/kg wet	0.6						
Hexachlorobutadiene	< 0.9	U	µg/kg wet	0.9						
2-Hexanone (MBK)	< 2.6	U	µg/kg wet	2.6						
Isopropylbenzene	< 0.5	U	µg/kg wet	0.5						
4-Isopropyltoluene	< 0.4	U	µg/kg wet	0.4						
Methyl tert-butyl ether	< 0.7	U	µg/kg wet	0.7						
4-Methyl-2-pentanone (MIBK)	< 3.3	U	µg/kg wet	3.3						
Methylene chloride	< 0.5	U	µg/kg wet	0.5						
Naphthalene	< 0.6	U	µg/kg wet	0.6						
n-Propylbenzene	< 0.6	U	µg/kg wet	0.6						
Styrene	< 0.7	U	µg/kg wet	0.7						
1,1,1,2-Tetrachloroethane	< 1.0	U	µg/kg wet	1.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1122266 - SW846 5035A Soil (low level)										
Blank (1122266-BLK1)					Prepared & Analyzed: 26-Oct-11					
1,1,2,2-Tetrachloroethane	< 0.8	U	µg/kg wet	0.8						
Tetrachloroethene	< 0.6	U	µg/kg wet	0.6						
Toluene	< 0.9	U	µg/kg wet	0.9						
1,2,3-Trichlorobenzene	< 0.9	U	µg/kg wet	0.9						
1,2,4-Trichlorobenzene	< 0.8	U	µg/kg wet	0.8						
1,3,5-Trichlorobenzene	< 0.7	U	µg/kg wet	0.7						
1,1,1-Trichloroethane	< 0.8	U	µg/kg wet	0.8						
1,1,2-Trichloroethane	< 0.9	U	µg/kg wet	0.9						
Trichloroethene	< 0.8	U	µg/kg wet	0.8						
Trichlorofluoromethane (Freon 11)	< 0.4	U	µg/kg wet	0.4						
1,2,3-Trichloropropane	< 0.5	U	µg/kg wet	0.5						
1,2,4-Trimethylbenzene	< 0.3	U	µg/kg wet	0.3						
1,3,5-Trimethylbenzene	< 1.0	U	µg/kg wet	1.0						
Vinyl chloride	< 0.9	U	µg/kg wet	0.9						
m,p-Xylene	< 1.9	U	µg/kg wet	1.9						
o-Xylene	< 0.7	U	µg/kg wet	0.7						
Tetrahydrofuran	< 1.8	U	µg/kg wet	1.8						
Ethyl ether	< 0.9	U	µg/kg wet	0.9						
Tert-amyl methyl ether	< 0.8	U	µg/kg wet	0.8						
Ethyl tert-butyl ether	< 0.3	U	µg/kg wet	0.3						
Di-isopropyl ether	< 0.3	U	µg/kg wet	0.3						
Tert-Butanol / butyl alcohol	< 5.7	U	µg/kg wet	5.7						
1,4-Dioxane	< 16.4	U	µg/kg wet	16.4						
trans-1,4-Dichloro-2-butene	< 2.6	U	µg/kg wet	2.6						
Ethanol	< 83.7	U	µg/kg wet	83.7						
Surrogate: 4-Bromofluorobenzene	*49.4*		µg/kg wet		*50.0*		*99*	*70-130*		
Surrogate: Toluene-d8	*49.3*		µg/kg wet		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*58.3*		µg/kg wet		*50.0*		*117*	*70-130*		
Surrogate: Dibromofluoromethane	*49.0*		µg/kg wet		*50.0*		*98*	*70-130*		
LCS (1122266-BS1)					Prepared & Analyzed: 26-Oct-11					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**19.5**		µg/kg wet		20.0		97	70-130		
Acetone	**26.3**		µg/kg wet		20.0		131	70-130		
Acrylonitrile	**24.0**		µg/kg wet		20.0		120	70-130		
Benzene	**19.9**		µg/kg wet		20.0		100	70-130		
Bromobenzene	**18.7**		µg/kg wet		20.0		94	70-130		
Bromochloromethane	**20.3**		µg/kg wet		20.0		102	70-130		
Bromodichloromethane	**20.7**		µg/kg wet		20.0		104	70-130		
Bromoform	**19.0**		µg/kg wet		20.0		95	70-130		
Bromomethane	**20.0**		µg/kg wet		20.0		100	70-130		
2-Butanone (MEK)	**23.2**		µg/kg wet		20.0		116	70-130		
n-Butylbenzene	**21.4**		µg/kg wet		20.0		107	70-130		
sec-Butylbenzene	**19.7**		µg/kg wet		20.0		99	70-130		
tert-Butylbenzene	**19.6**		µg/kg wet		20.0		98	70-130		
Carbon disulfide	**18.2**		µg/kg wet		20.0		91	70-130		
Carbon tetrachloride	**19.1**		µg/kg wet		20.0		95	70-130		
Chlorobenzene	**18.8**		µg/kg wet		20.0		94	70-130		
Chloroethane	**20.9**		µg/kg wet		20.0		104	70-130		
Chloroform	**20.2**		µg/kg wet		20.0		101	70-130		
Chloromethane	**20.6**		µg/kg wet		20.0		103	70-130		
2-Chlorotoluene	**19.1**		µg/kg wet		20.0		95	70-130		
4-Chlorotoluene	**19.8**		µg/kg wet		20.0		99	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1122266 - SW846 5035A Soil (low level)										
LCS (1122266-BS1)						Prepared & Analyzed: 26-Oct-11				
1,2-Dibromo-3-chloropropane	**22.6**		µg/kg wet		20.0		113	70-130		
Dibromochloromethane	**18.1**		µg/kg wet		20.0		90	70-130		
1,2-Dibromoethane (EDB)	**22.1**		µg/kg wet		20.0		111	70-130		
Dibromomethane	**21.0**		µg/kg wet		20.0		105	70-130		
1,2-Dichlorobenzene	**20.0**		µg/kg wet		20.0		100	70-130		
1,3-Dichlorobenzene	**19.0**		µg/kg wet		20.0		95	70-130		
1,4-Dichlorobenzene	**19.0**		µg/kg wet		20.0		95	70-130		
Dichlorodifluoromethane (Freon12)	**20.2**		µg/kg wet		20.0		101	70-130		
1,1-Dichloroethane	**20.7**		µg/kg wet		20.0		104	70-130		
1,2-Dichloroethane	**21.7**		µg/kg wet		20.0		109	70-130		
1,1-Dichloroethene	**20.0**		µg/kg wet		20.0		100	70-130		
cis-1,2-Dichloroethene	**19.9**		µg/kg wet		20.0		99	70-130		
trans-1,2-Dichloroethene	**19.6**		µg/kg wet		20.0		98	70-130		
1,2-Dichloropropane	**20.4**		µg/kg wet		20.0		102	70-130		
1,3-Dichloropropane	**21.6**		µg/kg wet		20.0		108	70-130		
2,2-Dichloropropane	**19.7**		µg/kg wet		20.0		98	70-130		
1,1-Dichloropropene	**20.3**		µg/kg wet		20.0		102	70-130		
cis-1,3-Dichloropropene	**20.6**		µg/kg wet		20.0		103	70-130		
trans-1,3-Dichloropropene	**19.7**		µg/kg wet		20.0		98	70-130		
Ethylbenzene	**19.6**		µg/kg wet		20.0		98	70-130		
Hexachlorobutadiene	**19.5**		µg/kg wet		20.0		97	70-130		
2-Hexanone (MBK)	**22.2**		µg/kg wet		20.0		111	70-130		
Isopropylbenzene	**19.6**		µg/kg wet		20.0		98	70-130		
4-Isopropyltoluene	**20.4**		µg/kg wet		20.0		102	70-130		
Methyl tert-butyl ether	**22.0**		µg/kg wet		20.0		110	70-130		
4-Methyl-2-pentanone (MIBK)	**22.9**		µg/kg wet		20.0		114	70-130		
Methylene chloride	**17.8**		µg/kg wet		20.0		89	70-130		
Naphthalene	**20.8**		µg/kg wet		20.0		104	70-130		
n-Propylbenzene	**20.0**		µg/kg wet		20.0		100	70-130		
Styrene	**20.0**		µg/kg wet		20.0		100	70-130		
1,1,1,2-Tetrachloroethane	**19.6**		µg/kg wet		20.0		98	70-130		
1,1,2,2-Tetrachloroethane	**21.5**		µg/kg wet		20.0		108	70-130		
Tetrachloroethene	**19.0**		µg/kg wet		20.0		95	70-130		
Toluene	**19.5**		µg/kg wet		20.0		97	70-130		
1,2,3-Trichlorobenzene	**21.4**		µg/kg wet		20.0		107	70-130		
1,2,4-Trichlorobenzene	**21.0**		µg/kg wet		20.0		105	70-130		
1,3,5-Trichlorobenzene	**21.2**		µg/kg wet		20.0		106	70-130		
1,1,1-Trichloroethane	**20.3**		µg/kg wet		20.0		102	70-130		
1,1,2-Trichloroethane	**21.3**		µg/kg wet		20.0		107	70-130		
Trichloroethene	**19.3**		µg/kg wet		20.0		96	70-130		
Trichlorofluoromethane (Freon 11)	**20.4**		µg/kg wet		20.0		102	70-130		
1,2,3-Trichloropropane	**21.9**		µg/kg wet		20.0		109	70-130		
1,2,4-Trimethylbenzene	**20.0**		µg/kg wet		20.0		100	70-130		
1,3,5-Trimethylbenzene	**19.8**		µg/kg wet		20.0		99	70-130		
Vinyl chloride	**21.7**		µg/kg wet		20.0		109	70-130		
m,p-Xylene	**38.5**		µg/kg wet		40.0		96	70-130		
o-Xylene	**19.6**		µg/kg wet		20.0		98	70-130		
Tetrahydrofuran	**24.3**		µg/kg wet		20.0		121	70-130		
Ethyl ether	**22.1**		µg/kg wet		20.0		110	70-130		
Tert-amyl methyl ether	**21.4**		µg/kg wet		20.0		107	70-130		
Ethyl tert-butyl ether	**22.2**		µg/kg wet		20.0		111	70-130		
Di-isopropyl ether	**22.8**		µg/kg wet		20.0		114	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1122266 - SW846 5035A Soil (low level)										
LCS (1122266-BS1)					Prepared & Analyzed: 26-Oct-11					
Tert-Butanol / butyl alcohol	**221**		µg/kg wet		200		110	70-130		
1,4-Dioxane	**227**		µg/kg wet		200		114	70-130		
trans-1,4-Dichloro-2-butene	**18.7**		µg/kg wet		20.0		94	70-130		
Ethanol	**491**		µg/kg wet		400		123	70-130		
Surrogate: 4-Bromofluorobenzene	*49.7*		µg/kg wet		*50.0*		*99*	*70-130*		
Surrogate: Toluene-d8	*50.0*		µg/kg wet		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*53.8*		µg/kg wet		*50.0*		*108*	*70-130*		
Surrogate: Dibromofluoromethane	*51.7*		µg/kg wet		*50.0*		*103*	*70-130*		
LCS Dup (1122266-BSD1)					Prepared & Analyzed: 26-Oct-11					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**19.2**		µg/kg wet		20.0		96	70-130	1	25
Acetone	**22.0**		µg/kg wet		20.0		110	70-130	18	50
Acrylonitrile	**22.5**		µg/kg wet		20.0		113	70-130	6	25
Benzene	**19.3**		µg/kg wet		20.0		96	70-130	3	25
Bromobenzene	**18.4**		µg/kg wet		20.0		92	70-130	1	25
Bromochloromethane	**19.2**		µg/kg wet		20.0		96	70-130	5	25
Bromodichloromethane	**20.2**		µg/kg wet		20.0		101	70-130	2	25
Bromoform	**18.2**		µg/kg wet		20.0		91	70-130	4	25
Bromomethane	**18.9**		µg/kg wet		20.0		94	70-130	6	50
2-Butanone (MEK)	**21.9**		µg/kg wet		20.0		109	70-130	6	50
n-Butylbenzene	**20.9**		µg/kg wet		20.0		105	70-130	2	25
sec-Butylbenzene	**19.0**		µg/kg wet		20.0		95	70-130	4	25
tert-Butylbenzene	**19.0**		µg/kg wet		20.0		95	70-130	3	25
Carbon disulfide	**18.0**		µg/kg wet		20.0		90	70-130	1	25
Carbon tetrachloride	**18.5**		µg/kg wet		20.0		93	70-130	3	25
Chlorobenzene	**18.2**		µg/kg wet		20.0		91	70-130	3	25
Chloroethane	**20.4**		µg/kg wet		20.0		102	70-130	2	50
Chloroform	**19.3**		µg/kg wet		20.0		96	70-130	4	25
Chloromethane	**19.9**		µg/kg wet		20.0		100	70-130	3	25
2-Chlorotoluene	**18.4**		µg/kg wet		20.0		92	70-130	4	25
4-Chlorotoluene	**19.1**		µg/kg wet		20.0		95	70-130	4	25
1,2-Dibromo-3-chloropropane	**21.0**		µg/kg wet		20.0		105	70-130	7	25
Dibromochloromethane	**17.1**		µg/kg wet		20.0		85	70-130	6	50
1,2-Dibromoethane (EDB)	**21.1**		µg/kg wet		20.0		106	70-130	5	25
Dibromomethane	**19.6**		µg/kg wet		20.0		98	70-130	7	25
1,2-Dichlorobenzene	**19.5**		µg/kg wet		20.0		97	70-130	3	25
1,3-Dichlorobenzene	**18.1**		µg/kg wet		20.0		90	70-130	5	25
1,4-Dichlorobenzene	**18.6**		µg/kg wet		20.0		93	70-130	2	25
Dichlorodifluoromethane (Freon12)	**19.4**		µg/kg wet		20.0		97	70-130	4	50
1,1-Dichloroethane	**19.9**		µg/kg wet		20.0		99	70-130	4	25
1,2-Dichloroethane	**20.7**		µg/kg wet		20.0		103	70-130	5	25
1,1-Dichloroethene	**19.6**		µg/kg wet		20.0		98	70-130	2	25
cis-1,2-Dichloroethene	**19.0**		µg/kg wet		20.0		95	70-130	5	25
trans-1,2-Dichloroethene	**18.8**		µg/kg wet		20.0		94	70-130	4	25
1,2-Dichloropropane	**19.8**		µg/kg wet		20.0		99	70-130	3	25
1,3-Dichloropropane	**20.4**		µg/kg wet		20.0		102	70-130	6	25
2,2-Dichloropropane	**19.5**		µg/kg wet		20.0		97	70-130	1	25
1,1-Dichloropropene	**20.1**		µg/kg wet		20.0		100	70-130	1	25
cis-1,3-Dichloropropene	**19.7**		µg/kg wet		20.0		99	70-130	4	25
trans-1,3-Dichloropropene	**18.6**		µg/kg wet		20.0		93	70-130	5	25
Ethylbenzene	**19.3**		µg/kg wet		20.0		96	70-130	2	25
Hexachlorobutadiene	**19.6**		µg/kg wet		20.0		98	70-130	0.7	50

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1122266 - SW846 5035A Soil (low level)										
LCS Dup (1122266-BSD1)					Prepared & Analyzed: 26-Oct-11					
2-Hexanone (MBK)	**20.6**		µg/kg wet		20.0		103	70-130	8	25
Isopropylbenzene	**19.2**		µg/kg wet		20.0		96	70-130	2	25
4-Isopropyltoluene	**20.1**		µg/kg wet		20.0		101	70-130	1	25
Methyl tert-butyl ether	**20.8**		µg/kg wet		20.0		104	70-130	6	25
4-Methyl-2-pentanone (MIBK)	**22.2**		µg/kg wet		20.0		111	70-130	3	50
Methylene chloride	**17.0**		µg/kg wet		20.0		85	70-130	4	25
Naphthalene	**19.9**		µg/kg wet		20.0		100	70-130	4	25
n-Propylbenzene	**19.6**		µg/kg wet		20.0		98	70-130	2	25
Styrene	**19.3**		µg/kg wet		20.0		96	70-130	4	25
1,1,1,2-Tetrachloroethane	**19.2**		µg/kg wet		20.0		96	70-130	2	25
1,1,2,2-Tetrachloroethane	**20.2**		µg/kg wet		20.0		101	70-130	6	25
Tetrachloroethene	**18.8**		µg/kg wet		20.0		94	70-130	0.8	25
Toluene	**18.9**		µg/kg wet		20.0		95	70-130	3	25
1,2,3-Trichlorobenzene	**20.5**		µg/kg wet		20.0		102	70-130	4	25
1,2,4-Trichlorobenzene	**19.8**		µg/kg wet		20.0		99	70-130	6	25
1,3,5-Trichlorobenzene	**20.5**		µg/kg wet		20.0		102	70-130	3	25
1,1,1-Trichloroethane	**19.8**		µg/kg wet		20.0		99	70-130	2	25
1,1,2-Trichloroethane	**20.0**		µg/kg wet		20.0		100	70-130	7	25
Trichloroethene	**18.9**		µg/kg wet		20.0		94	70-130	2	25
Trichlorofluoromethane (Freon 11)	**20.0**		µg/kg wet		20.0		100	70-130	2	50
1,2,3-Trichloropropane	**20.3**		µg/kg wet		20.0		102	70-130	7	25
1,2,4-Trimethylbenzene	**19.4**		µg/kg wet		20.0		97	70-130	3	25
1,3,5-Trimethylbenzene	**19.4**		µg/kg wet		20.0		97	70-130	2	25
Vinyl chloride	**21.2**		µg/kg wet		20.0		106	70-130	3	25
m,p-Xylene	**37.6**		µg/kg wet		40.0		94	70-130	2	25
o-Xylene	**18.9**		µg/kg wet		20.0		94	70-130	4	25
Tetrahydrofuran	**21.8**		µg/kg wet		20.0		109	70-130	11	25
Ethyl ether	**21.4**		µg/kg wet		20.0		107	70-130	3	50
Tert-amyl methyl ether	**20.6**		µg/kg wet		20.0		103	70-130	4	25
Ethyl tert-butyl ether	**21.3**		µg/kg wet		20.0		106	70-130	4	25
Di-isopropyl ether	**21.8**		µg/kg wet		20.0		109	70-130	4	25
Tert-Butanol / butyl alcohol	**195**		µg/kg wet		200		98	70-130	12	25
1,4-Dioxane	**178**		µg/kg wet		200		89	70-130	24	25
trans-1,4-Dichloro-2-butene	**18.8**		µg/kg wet		20.0		94	70-130	0.5	25
Ethanol	**433**		µg/kg wet		400		108	70-130	12	30
Surrogate: 4-Bromofluorobenzene	*49.1*		µg/kg wet		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*49.7*		µg/kg wet		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*53.1*		µg/kg wet		*50.0*		*106*	*70-130*		
Surrogate: Dibromofluoromethane	*51.4*		µg/kg wet		*50.0*		*103*	*70-130*		
Batch 1122302 - SW846 5030 Water MS										
Blank (1122302-BLK1)					Prepared & Analyzed: 26-Oct-11					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.6	U	µg/l	0.6						
Acetone	< 2.6	U	µg/l	2.6						
Acrylonitrile	< 0.5	U	µg/l	0.5						
Benzene	< 0.7	U	µg/l	0.7						
Bromobenzene	< 0.7	U	µg/l	0.7						
Bromochloromethane	< 0.7	U	µg/l	0.7						
Bromodichloromethane	< 0.5	U	µg/l	0.5						
Bromoform	< 0.6	U	µg/l	0.6						
Bromomethane	< 1.1	U	µg/l	1.1						
2-Butanone (MEK)	< 1.7	U	µg/l	1.7						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1122302 - SW846 5030 Water MS										
Blank (1122302-BLK1)						Prepared & Analyzed: 26-Oct-11				
n-Butylbenzene	< 0.6	U	µg/l	0.6						
sec-Butylbenzene	< 0.8	U	µg/l	0.8						
tert-Butylbenzene	< 0.7	U	µg/l	0.7						
Carbon disulfide	< 0.6	U	µg/l	0.6						
Carbon tetrachloride	< 0.5	U	µg/l	0.5						
Chlorobenzene	< 0.7	U	µg/l	0.7						
Chloroethane	< 1.0	U	µg/l	1.0						
Chloroform	< 0.7	U	µg/l	0.7						
Chloromethane	< 1.5	U	µg/l	1.5						
2-Chlorotoluene	< 0.8	U	µg/l	0.8						
4-Chlorotoluene	< 0.7	U	µg/l	0.7						
1,2-Dibromo-3-chloropropane	< 0.9	U	µg/l	0.9						
Dibromochloromethane	< 0.3	U	µg/l	0.3						
1,2-Dibromoethane (EDB)	< 0.3	U	µg/l	0.3						
Dibromomethane	< 0.7	U	µg/l	0.7						
1,2-Dichlorobenzene	< 0.7	U	µg/l	0.7						
1,3-Dichlorobenzene	< 0.7	U	µg/l	0.7						
1,4-Dichlorobenzene	< 0.6	U	µg/l	0.6						
Dichlorodifluoromethane (Freon12)	< 0.4	U	µg/l	0.4						
1,1-Dichloroethane	< 0.7	U	µg/l	0.7						
1,2-Dichloroethane	< 0.8	U	µg/l	0.8						
1,1-Dichloroethene	< 0.5	U	µg/l	0.5						
cis-1,2-Dichloroethene	< 0.7	U	µg/l	0.7						
trans-1,2-Dichloroethene	< 0.7	U	µg/l	0.7						
1,2-Dichloropropane	< 0.7	U	µg/l	0.7						
1,3-Dichloropropane	< 0.8	U	µg/l	0.8						
2,2-Dichloropropane	< 0.6	U	µg/l	0.6						
1,1-Dichloropropene	< 0.6	U	µg/l	0.6						
cis-1,3-Dichloropropene	< 0.3	U	µg/l	0.3						
trans-1,3-Dichloropropene	< 0.5	U	µg/l	0.5						
Ethylbenzene	< 0.7	U	µg/l	0.7						
Hexachlorobutadiene	< 0.4	U	µg/l	0.4						
2-Hexanone (MBK)	< 0.5	U	µg/l	0.5						
Isopropylbenzene	< 0.6	U	µg/l	0.6						
4-Isopropyltoluene	< 0.6	U	µg/l	0.6						
Methyl tert-butyl ether	< 0.7	U	µg/l	0.7						
4-Methyl-2-pentanone (MIBK)	< 0.9	U	µg/l	0.9						
Methylene chloride	< 0.7	U	µg/l	0.7						
Naphthalene	< 0.3	U	µg/l	0.3						
n-Propylbenzene	< 0.8	U	µg/l	0.8						
Styrene	< 0.6	U	µg/l	0.6						
1,1,1,2-Tetrachloroethane	< 0.6	U	µg/l	0.6						
1,1,2,2-Tetrachloroethane	< 0.3	U	µg/l	0.3						
Tetrachloroethene	< 0.7	U	µg/l	0.7						
Toluene	< 0.8	U	µg/l	0.8						
1,2,3-Trichlorobenzene	< 0.4	U	µg/l	0.4						
1,2,4-Trichlorobenzene	< 0.4	U	µg/l	0.4						
1,3,5-Trichlorobenzene	< 0.8	U	µg/l	0.8						
1,1,1-Trichloroethane	< 0.6	U	µg/l	0.6						
1,1,2-Trichloroethane	< 0.6	U	µg/l	0.6						
Trichloroethene	< 0.8	U	µg/l	0.8						
Trichlorofluoromethane (Freon 11)	< 0.6	U	µg/l	0.6						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1122302 - SW846 5030 Water MS										
Blank (1122302-BLK1)					Prepared & Analyzed: 26-Oct-11					
1,2,3-Trichloropropane	< 0.7	U	µg/l	0.7						
1,2,4-Trimethylbenzene	< 0.8	U	µg/l	0.8						
1,3,5-Trimethylbenzene	< 0.7	U	µg/l	0.7						
Vinyl chloride	< 0.8	U	µg/l	0.8						
m,p-Xylene	< 1.6	U	µg/l	1.6						
o-Xylene	< 0.9	U	µg/l	0.9						
Tetrahydrofuran	< 1.4	U	µg/l	1.4						
Ethyl ether	< 0.7	U	µg/l	0.7						
Tert-amyl methyl ether	< 0.7	U	µg/l	0.7						
Ethyl tert-butyl ether	< 0.8	U	µg/l	0.8						
Di-isopropyl ether	< 0.7	U	µg/l	0.7						
Tert-Butanol / butyl alcohol	< 8.6	U	µg/l	8.6						
1,4-Dioxane	< 14.0	U	µg/l	14.0						
trans-1,4-Dichloro-2-butene	< 0.8	U	µg/l	0.8						
Ethanol	< 35.7	U	µg/l	35.7						
Surrogate: 4-Bromofluorobenzene	*49.2*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*50.4*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.7*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Dibromofluoromethane	*55.9*		µg/l		*50.0*		*112*	*70-130*		
LCS (1122302-BS1)					Prepared & Analyzed: 26-Oct-11					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**17.6**		µg/l		20.0		88	70-130		
Acetone	**16.8**		µg/l		20.0		84	70-130		
Acrylonitrile	**16.3**		µg/l		20.0		81	70-130		
Benzene	**19.0**		µg/l		20.0		95	70-130		
Bromobenzene	**23.9**		µg/l		20.0		120	70-130		
Bromochloromethane	**23.0**		µg/l		20.0		115	70-130		
Bromodichloromethane	**22.8**		µg/l		20.0		114	70-130		
Bromoform	**28.0**	QC2	µg/l		20.0		140	70-130		
Bromomethane	**18.5**		µg/l		20.0		93	70-130		
2-Butanone (MEK)	**17.2**		µg/l		20.0		86	70-130		
n-Butylbenzene	**17.3**		µg/l		20.0		87	70-130		
sec-Butylbenzene	**21.7**		µg/l		20.0		108	70-130		
tert-Butylbenzene	**22.7**		µg/l		20.0		114	70-130		
Carbon disulfide	**17.7**		µg/l		20.0		89	70-130		
Carbon tetrachloride	**21.5**		µg/l		20.0		108	70-130		
Chlorobenzene	**22.1**		µg/l		20.0		110	70-130		
Chloroethane	**17.2**		µg/l		20.0		86	70-130		
Chloroform	**19.4**		µg/l		20.0		97	70-130		
Chloromethane	**16.7**		µg/l		20.0		84	70-130		
2-Chlorotoluene	**21.6**		µg/l		20.0		108	70-130		
4-Chlorotoluene	**20.6**		µg/l		20.0		103	70-130		
1,2-Dibromo-3-chloropropane	**20.1**		µg/l		20.0		100	70-130		
Dibromochloromethane	**25.5**		µg/l		20.0		127	70-130		
1,2-Dibromoethane (EDB)	**22.1**		µg/l		20.0		110	70-130		
Dibromomethane	**22.1**		µg/l		20.0		110	70-130		
1,2-Dichlorobenzene	**19.8**		µg/l		20.0		99	70-130		
1,3-Dichlorobenzene	**24.7**		µg/l		20.0		123	70-130		
1,4-Dichlorobenzene	**19.4**		µg/l		20.0		97	70-130		
Dichlorodifluoromethane (Freon12)	**15.2**		µg/l		20.0		76	70-130		
1,1-Dichloroethane	**17.6**		µg/l		20.0		88	70-130		
1,2-Dichloroethane	**19.9**		µg/l		20.0		99	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1122302 - SW846 5030 Water MS										
LCS (1122302-BS1)						Prepared & Analyzed: 26-Oct-11				
1,1-Dichloroethene	**17.1**		µg/l		20.0		86	70-130		
cis-1,2-Dichloroethene	**20.1**		µg/l		20.0		101	70-130		
trans-1,2-Dichloroethene	**17.4**		µg/l		20.0		87	70-130		
1,2-Dichloropropane	**19.1**		µg/l		20.0		96	70-130		
1,3-Dichloropropane	**20.0**		µg/l		20.0		100	70-130		
2,2-Dichloropropane	**18.0**		µg/l		20.0		90	70-130		
1,1-Dichloropropene	**19.3**		µg/l		20.0		96	70-130		
cis-1,3-Dichloropropene	**19.1**		µg/l		20.0		96	70-130		
trans-1,3-Dichloropropene	**19.6**		µg/l		20.0		98	70-130		
Ethylbenzene	**21.2**		µg/l		20.0		106	70-130		
Hexachlorobutadiene	**22.1**		µg/l		20.0		110	70-130		
2-Hexanone (MBK)	**18.3**		µg/l		20.0		92	70-130		
Isopropylbenzene	**21.4**		µg/l		20.0		107	70-130		
4-Isopropyltoluene	**18.7**		µg/l		20.0		93	70-130		
Methyl tert-butyl ether	**16.2**		µg/l		20.0		81	70-130		
4-Methyl-2-pentanone (MIBK)	**18.0**		µg/l		20.0		90	70-130		
Methylene chloride	**16.8**		µg/l		20.0		84	70-130		
Naphthalene	**19.5**		µg/l		20.0		97	70-130		
n-Propylbenzene	**20.9**		µg/l		20.0		105	70-130		
Styrene	**21.3**		µg/l		20.0		106	70-130		
1,1,1,2-Tetrachloroethane	**22.3**		µg/l		20.0		112	70-130		
1,1,2,2-Tetrachloroethane	**23.0**		µg/l		20.0		115	70-130		
Tetrachloroethene	**23.8**		µg/l		20.0		119	70-130		
Toluene	**19.9**		µg/l		20.0		100	70-130		
1,2,3-Trichlorobenzene	**20.2**		µg/l		20.0		101	70-130		
1,2,4-Trichlorobenzene	**19.9**		µg/l		20.0		99	70-130		
1,3,5-Trichlorobenzene	**20.3**		µg/l		20.0		101	70-130		
1,1,1-Trichloroethane	**21.6**		µg/l		20.0		108	70-130		
1,1,2-Trichloroethane	**20.8**		µg/l		20.0		104	70-130		
Trichloroethene	**19.3**		µg/l		20.0		96	70-130		
Trichlorofluoromethane (Freon 11)	**18.4**		µg/l		20.0		92	70-130		
1,2,3-Trichloropropane	**21.2**		µg/l		20.0		106	70-130		
1,2,4-Trimethylbenzene	**22.1**		µg/l		20.0		111	70-130		
1,3,5-Trimethylbenzene	**21.9**		µg/l		20.0		110	70-130		
Vinyl chloride	**18.1**		µg/l		20.0		91	70-130		
m,p-Xylene	**43.5**		µg/l		40.0		109	70-130		
o-Xylene	**21.2**		µg/l		20.0		106	70-130		
Tetrahydrofuran	**17.3**		µg/l		20.0		86	70-130		
Ethyl ether	**16.4**		µg/l		20.0		82	70-130		
Tert-amyl methyl ether	**21.2**		µg/l		20.0		106	70-130		
Ethyl tert-butyl ether	**17.7**		µg/l		20.0		88	70-130		
Di-isopropyl ether	**17.9**		µg/l		20.0		90	70-130		
Tert-Butanol / butyl alcohol	**159**		µg/l		200		79	70-130		
1,4-Dioxane	**195**		µg/l		200		98	70-130		
trans-1,4-Dichloro-2-butene	**19.2**		µg/l		20.0		96	70-130		
Ethanol	**334**		µg/l		400		84	70-130		
Surrogate: 4-Bromofluorobenzene	*51.6*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*51.2*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.2*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Dibromofluoromethane	*55.2*		µg/l		*50.0*		*110*	*70-130*		
LCS Dup (1122302-BSD1)						Prepared & Analyzed: 26-Oct-11				

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1122302 - SW846 5030 Water MS										
LCS Dup (1122302-BSD1)					Prepared & Analyzed: 26-Oct-11					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**17.2**		µg/l		20.0		86	70-130	3	25
Acetone	**16.1**		µg/l		20.0		80	70-130	4	50
Acrylonitrile	**16.0**		µg/l		20.0		80	70-130	1	25
Benzene	**18.6**		µg/l		20.0		93	70-130	2	25
Bromobenzene	**23.8**		µg/l		20.0		119	70-130	0.5	25
Bromochloromethane	**22.4**		µg/l		20.0		112	70-130	3	25
Bromodichloromethane	**21.7**		µg/l		20.0		108	70-130	5	25
Bromoform	**28.4**	QC2	µg/l		20.0		142	70-130	2	25
Bromomethane	**18.8**		µg/l		20.0		94	70-130	1	50
2-Butanone (MEK)	**17.4**		µg/l		20.0		87	70-130	1	50
n-Butylbenzene	**17.3**		µg/l		20.0		87	70-130	0	25
sec-Butylbenzene	**21.3**		µg/l		20.0		107	70-130	2	25
tert-Butylbenzene	**22.0**		µg/l		20.0		110	70-130	3	25
Carbon disulfide	**17.2**		µg/l		20.0		86	70-130	3	25
Carbon tetrachloride	**20.9**		µg/l		20.0		104	70-130	3	25
Chlorobenzene	**21.6**		µg/l		20.0		108	70-130	2	25
Chloroethane	**16.6**		µg/l		20.0		83	70-130	3	50
Chloroform	**19.3**		µg/l		20.0		96	70-130	0.4	25
Chloromethane	**16.2**		µg/l		20.0		81	70-130	3	25
2-Chlorotoluene	**20.7**		µg/l		20.0		104	70-130	4	25
4-Chlorotoluene	**20.6**		µg/l		20.0		103	70-130	0.3	25
1,2-Dibromo-3-chloropropane	**20.2**		µg/l		20.0		101	70-130	0.5	25
Dibromochloromethane	**25.5**		µg/l		20.0		127	70-130	0.1	50
1,2-Dibromoethane (EDB)	**22.0**		µg/l		20.0		110	70-130	0.5	25
Dibromomethane	**22.0**		µg/l		20.0		110	70-130	0.4	25
1,2-Dichlorobenzene	**20.0**		µg/l		20.0		100	70-130	0.8	25
1,3-Dichlorobenzene	**23.7**		µg/l		20.0		119	70-130	4	25
1,4-Dichlorobenzene	**19.0**		µg/l		20.0		95	70-130	2	25
Dichlorodifluoromethane (Freon12)	**14.9**		µg/l		20.0		75	70-130	2	50
1,1-Dichloroethane	**17.3**		µg/l		20.0		86	70-130	2	25
1,2-Dichloroethane	**20.1**		µg/l		20.0		101	70-130	1	25
1,1-Dichloroethene	**16.3**		µg/l		20.0		82	70-130	5	25
cis-1,2-Dichloroethene	**19.6**		µg/l		20.0		98	70-130	2	25
trans-1,2-Dichloroethene	**17.1**		µg/l		20.0		85	70-130	2	25
1,2-Dichloropropane	**18.8**		µg/l		20.0		94	70-130	1	25
1,3-Dichloropropane	**19.6**		µg/l		20.0		98	70-130	2	25
2,2-Dichloropropane	**17.1**		µg/l		20.0		86	70-130	5	25
1,1-Dichloropropene	**18.9**		µg/l		20.0		95	70-130	2	25
cis-1,3-Dichloropropene	**19.0**		µg/l		20.0		95	70-130	0.9	25
trans-1,3-Dichloropropene	**19.2**		µg/l		20.0		96	70-130	2	25
Ethylbenzene	**20.5**		µg/l		20.0		102	70-130	3	25
Hexachlorobutadiene	**21.4**		µg/l		20.0		107	70-130	3	50
2-Hexanone (MBK)	**18.5**		µg/l		20.0		93	70-130	1	25
Isopropylbenzene	**20.8**		µg/l		20.0		104	70-130	3	25
4-Isopropyltoluene	**18.6**		µg/l		20.0		93	70-130	0.6	25
Methyl tert-butyl ether	**16.1**		µg/l		20.0		81	70-130	0.7	25
4-Methyl-2-pentanone (MIBK)	**17.7**		µg/l		20.0		89	70-130	1	50
Methylene chloride	**16.3**		µg/l		20.0		82	70-130	3	25
Naphthalene	**19.7**		µg/l		20.0		99	70-130	1	25
n-Propylbenzene	**20.5**		µg/l		20.0		103	70-130	2	25
Styrene	**21.0**		µg/l		20.0		105	70-130	1	25
1,1,1,2-Tetrachloroethane	**21.9**		µg/l		20.0		110	70-130	2	25

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1122302 - SW846 5030 Water MS										
LCS Dup (1122302-BSD1)					Prepared & Analyzed: 26-Oct-11					
1,1,2,2-Tetrachloroethane	**22.6**		µg/l		20.0		113	70-130	2	25
Tetrachloroethene	**23.0**		µg/l		20.0		115	70-130	3	25
Toluene	**19.2**		µg/l		20.0		96	70-130	4	25
1,2,3-Trichlorobenzene	**20.6**		µg/l		20.0		103	70-130	2	25
1,2,4-Trichlorobenzene	**20.4**		µg/l		20.0		102	70-130	3	25
1,3,5-Trichlorobenzene	**20.7**		µg/l		20.0		103	70-130	2	25
1,1,1-Trichloroethane	**21.0**		µg/l		20.0		105	70-130	3	25
1,1,2-Trichloroethane	**21.0**		µg/l		20.0		105	70-130	1	25
Trichloroethene	**18.7**		µg/l		20.0		94	70-130	3	25
Trichlorofluoromethane (Freon 11)	**17.7**		µg/l		20.0		88	70-130	4	50
1,2,3-Trichloropropane	**20.9**		µg/l		20.0		105	70-130	2	25
1,2,4-Trimethylbenzene	**21.1**		µg/l		20.0		106	70-130	5	25
1,3,5-Trimethylbenzene	**21.1**		µg/l		20.0		106	70-130	4	25
Vinyl chloride	**16.2**		µg/l		20.0		81	70-130	11	25
m,p-Xylene	**42.2**		µg/l		40.0		106	70-130	3	25
o-Xylene	**21.1**		µg/l		20.0		106	70-130	0.3	25
Tetrahydrofuran	**17.0**		µg/l		20.0		85	70-130	2	25
Ethyl ether	**16.2**		µg/l		20.0		81	70-130	1	50
Tert-amyl methyl ether	**20.5**		µg/l		20.0		103	70-130	3	25
Ethyl tert-butyl ether	**17.5**		µg/l		20.0		88	70-130	0.9	25
Di-isopropyl ether	**17.7**		µg/l		20.0		88	70-130	1	25
Tert-Butanol / butyl alcohol	**154**		µg/l		200		77	70-130	3	25
1,4-Dioxane	**181**		µg/l		200		90	70-130	8	25
trans-1,4-Dichloro-2-butene	**17.2**		µg/l		20.0		86	70-130	11	25
Ethanol	**326**		µg/l		400		81	70-130	3	30
Surrogate: 4-Bromofluorobenzene	*51.1*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*51.8*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.8*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Dibromofluoromethane	*54.5*		µg/l		*50.0*		*109*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1122140 - SW846 3510C										
Blank (1122140-BLK1)						Prepared & Analyzed: 25-Oct-11				
Acenaphthene	< 0.810	U	µg/l	0.810						
Acenaphthylene	< 1.01	U	µg/l	1.01						
Anthracene	< 0.740	U	µg/l	0.740						
Benzo (a) anthracene	< 0.560	U	µg/l	0.560						
Benzo (a) pyrene	< 0.840	U	µg/l	0.840						
Benzo (b) fluoranthene	< 0.960	U	µg/l	0.960						
Benzo (g,h,i) perylene	< 1.45	U	µg/l	1.45						
Benzo (k) fluoranthene	< 1.52	U	µg/l	1.52						
Chrysene	< 0.660	U	µg/l	0.660						
Dibenzo (a,h) anthracene	< 1.31	U	µg/l	1.31						
Fluoranthene	< 2.14	U	µg/l	2.14						
Fluorene	< 0.910	U	µg/l	0.910						
Indeno (1,2,3-cd) pyrene	< 1.34	U	µg/l	1.34						
1-Methylnaphthalene	< 1.10	U	µg/l	1.10						
2-Methylnaphthalene	< 1.28	U	µg/l	1.28						
Naphthalene	< 0.750	U	µg/l	0.750						
Phenanthrene	< 0.600	U	µg/l	0.600						
Pyrene	< 2.47	U	µg/l	2.47						
Surrogate: 2-Fluorobiphenyl	*28.9*		µg/l		*50.0*		*58*	*30-130*		
Surrogate: Terphenyl-dl4	*29.1*		µg/l		*50.0*		*58*	*30-130*		
LCS (1122140-BS1)						Prepared & Analyzed: 25-Oct-11				
Acenaphthene	**32.5**		µg/l	0.810	50.0		65	40-140		
Acenaphthylene	**33.8**		µg/l	1.01	50.0		68	40-140		
Anthracene	**35.1**		µg/l	0.740	50.0		70	40-140		
Benzo (a) anthracene	**31.7**		µg/l	0.560	50.0		63	40-140		
Benzo (a) pyrene	**31.2**		µg/l	0.840	50.0		62	40-140		
Benzo (b) fluoranthene	**28.9**		µg/l	0.960	50.0		58	40-140		
Benzo (g,h,i) perylene	**20.3**		µg/l	1.45	50.0		41	40-140		
Benzo (k) fluoranthene	**37.0**		µg/l	1.52	50.0		74	40-140		
Chrysene	**32.7**		µg/l	0.660	50.0		65	40-140		
Dibenzo (a,h) anthracene	**23.3**		µg/l	1.31	50.0		47	40-140		
Fluoranthene	**32.7**		µg/l	2.14	50.0		65	40-140		
Fluorene	**33.7**		µg/l	0.910	50.0		67	40-140		
Indeno (1,2,3-cd) pyrene	**21.2**		µg/l	1.34	50.0		42	40-140		
1-Methylnaphthalene	**31.9**		µg/l	1.10	50.0		64	40-140		
2-Methylnaphthalene	**26.2**		µg/l	1.28	50.0		52	40-140		
Naphthalene	**27.1**		µg/l	0.750	50.0		54	40-140		
Phenanthrene	**31.9**		µg/l	0.600	50.0		64	40-140		
Pyrene	**33.2**		µg/l	2.47	50.0		66	40-140		
Surrogate: 2-Fluorobiphenyl	*30.2*		µg/l		*50.0*		*60*	*30-130*		
Surrogate: Terphenyl-dl4	*34.5*		µg/l		*50.0*		*69*	*30-130*		
LCS Dup (1122140-BSD1)						Prepared & Analyzed: 25-Oct-11				
Acenaphthene	**32.6**		µg/l	0.810	50.0		65	40-140	0.09	20
Acenaphthylene	**33.5**		µg/l	1.01	50.0		67	40-140	0.9	20
Anthracene	**34.6**		µg/l	0.740	50.0		69	40-140	2	20
Benzo (a) anthracene	**31.2**		µg/l	0.560	50.0		62	40-140	1	20
Benzo (a) pyrene	**30.7**		µg/l	0.840	50.0		61	40-140	2	20
Benzo (b) fluoranthene	**30.0**		µg/l	0.960	50.0		60	40-140	4	20
Benzo (g,h,i) perylene	**21.5**		µg/l	1.45	50.0		43	40-140	6	20
Benzo (k) fluoranthene	**33.8**		µg/l	1.52	50.0		68	40-140	9	20
Chrysene	**32.0**		µg/l	0.660	50.0		64	40-140	2	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1122140 - SW846 3510C										
LCS Dup (1122140-BSD1)						Prepared & Analyzed: 25-Oct-11				
Dibenzo (a,h) anthracene	**24.0**		µg/l	1.31	50.0		48	40-140	3	20
Fluoranthene	**32.4**		µg/l	2.14	50.0		65	40-140	0.8	20
Fluorene	**33.5**		µg/l	0.910	50.0		67	40-140	0.5	20
Indeno (1,2,3-cd) pyrene	**23.2**		µg/l	1.34	50.0		46	40-140	9	20
1-Methylnaphthalene	**31.8**		µg/l	1.10	50.0		64	40-140	0.4	20
2-Methylnaphthalene	**26.3**		µg/l	1.28	50.0		53	40-140	0.5	20
Naphthalene	**27.4**		µg/l	0.750	50.0		55	40-140	1	20
Phenanthrene	**31.4**		µg/l	0.600	50.0		63	40-140	2	20
Pyrene	**32.6**		µg/l	2.47	50.0		65	40-140	2	20
Surrogate: 2-Fluorobiphenyl	*30.1*		µg/l		*50.0*		*60*	*30-130*		
Surrogate: Terphenyl-dl4	*33.9*		µg/l		*50.0*		*68*	*30-130*		
Batch 1122244 - SW846 3545A										
Blank (1122244-BLK1)						Prepared & Analyzed: 26-Oct-11				
Acenaphthene	< 18.6	U	µg/kg wet	18.6						
Acenaphthylene	< 18.9	U	µg/kg wet	18.9						
Anthracene	< 19.4	U	µg/kg wet	19.4						
Benzo (a) anthracene	< 19.2	U	µg/kg wet	19.2						
Benzo (a) pyrene	< 21.8	U	µg/kg wet	21.8						
Benzo (b) fluoranthene	< 19.9	U	µg/kg wet	19.9						
Benzo (g,h,i) perylene	< 25.3	U	µg/kg wet	25.3						
Benzo (k) fluoranthene	< 29.2	U	µg/kg wet	29.2						
Chrysene	< 19.7	U	µg/kg wet	19.7						
Dibenzo (a,h) anthracene	< 22.8	U	µg/kg wet	22.8						
Fluoranthene	< 30.2	U	µg/kg wet	30.2						
Fluorene	< 21.0	U	µg/kg wet	21.0						
Indeno (1,2,3-cd) pyrene	< 30.5	U	µg/kg wet	30.5						
1-Methylnaphthalene	< 24.2	U	µg/kg wet	24.2						
2-Methylnaphthalene	< 19.5	U	µg/kg wet	19.5						
Naphthalene	< 16.7	U	µg/kg wet	16.7						
Phenanthrene	< 18.6	U	µg/kg wet	18.6						
Pyrene	< 33.2	U	µg/kg wet	33.2						
Surrogate: 2-Fluorobiphenyl	*823*		µg/kg wet		*1670*		*49*	*30-130*		
Surrogate: Terphenyl-dl4	*929*		µg/kg wet		*1670*		*56*	*30-130*		
LCS (1122244-BS1)						Prepared & Analyzed: 26-Oct-11				
Acenaphthene	**1050**		µg/kg wet	18.6	1670		63	40-140		
Acenaphthylene	**1040**		µg/kg wet	18.9	1670		62	40-140		
Anthracene	**1060**		µg/kg wet	19.4	1670		64	40-140		
Benzo (a) anthracene	**959**		µg/kg wet	19.2	1670		58	40-140		
Benzo (a) pyrene	**1020**		µg/kg wet	21.8	1670		61	40-140		
Benzo (b) fluoranthene	**924**		µg/kg wet	19.9	1670		55	40-140		
Benzo (g,h,i) perylene	**1000**		µg/kg wet	25.3	1670		60	40-140		
Benzo (k) fluoranthene	**1140**		µg/kg wet	29.2	1670		68	40-140		
Chrysene	**1060**		µg/kg wet	19.7	1670		63	40-140		
Dibenzo (a,h) anthracene	**1040**		µg/kg wet	22.8	1670		62	40-140		
Fluoranthene	**1010**		µg/kg wet	30.2	1670		61	40-140		
Fluorene	**1060**		µg/kg wet	21.0	1670		64	40-140		
Indeno (1,2,3-cd) pyrene	**964**		µg/kg wet	30.5	1670		58	40-140		
1-Methylnaphthalene	**996**		µg/kg wet	24.2	1670		60	40-140		
2-Methylnaphthalene	**914**		µg/kg wet	19.5	1670		55	40-140		
Naphthalene	**1010**		µg/kg wet	16.7	1670		61	40-140		
Phenanthrene	**1210**		µg/kg wet	18.6	1670		72	40-140		

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1122244 - SW846 3545A										
LCS (1122244-BS1)						Prepared & Analyzed: 26-Oct-11				
Pyrene	**1030**		µg/kg wet	33.2	1670		62	40-140		
Surrogate: 2-Fluorobiphenyl	*1120*		µg/kg wet		*1670*		*67*	*30-130*		
Surrogate: Terphenyl-dl4	*1080*		µg/kg wet		*1670*		*65*	*30-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1122183 - SW846 3051										
Blank (1122183-BLK1)					Prepared & Analyzed: 25-Oct-11					
Lead	< 0.159	U	mg/kg wet	0.159						
Selenium	< 0.199	U	mg/kg wet	0.199						
Cadmium	< 0.0495	U	mg/kg wet	0.0495						
Arsenic	< 0.216	U	mg/kg wet	0.216						
Silver	< 0.207	U	mg/kg wet	0.207						
Chromium	< 0.327	U	mg/kg wet	0.327						
Barium	< 0.216	U	mg/kg wet	0.216						
Reference (1122183-SRM1)					Prepared & Analyzed: 25-Oct-11					
Selenium	**93.2**		mg/kg wet	0.222	104		90	76.7-122.8		
Lead	**61.2**		mg/kg wet	0.178	70.2		87	77.4-122.6		
Arsenic	**56.6**		mg/kg wet	0.241	63.5		89	78-122		
Silver	**24.4**		mg/kg wet	0.231	27.4		89	35.5-133.8		
Chromium	**48.5**		mg/kg wet	0.364	49.0		99	76.7-123		
Cadmium	**52.8**		mg/kg wet	0.0552	59.4		89	80.7-119		
Barium	**144**		mg/kg wet	0.242	162		89	79.7-120.3		
Reference (1122183-SRM2)					Prepared & Analyzed: 25-Oct-11					
Selenium	**94.0**		mg/kg wet	0.222	103		91	76.7-122.8		
Lead	**62.4**		mg/kg wet	0.178	69.7		90	77.4-122.6		
Chromium	**49.2**		mg/kg wet	0.364	48.6		101	76.7-123		
Arsenic	**56.6**		mg/kg wet	0.241	63.1		90	78-122		
Silver	**24.4**		mg/kg wet	0.231	27.2		90	35.5-133.8		
Cadmium	**54.4**		mg/kg wet	0.0552	59.0		92	80.7-119		
Barium	**143**		mg/kg wet	0.242	161		89	79.7-120.3		
Batch 1122184 - EPA200/SW7000 Series										
Blank (1122184-BLK1)					Prepared: 25-Oct-11 Analyzed: 26-Oct-11					
Mercury	< 0.0058	U	mg/kg wet	0.0058						
Reference (1122184-SRM1)					Prepared: 25-Oct-11 Analyzed: 26-Oct-11					
Mercury	**5.34**	QC2	mg/kg wet	0.0614	4.02		133	71.7-128.3		
Batch 1122211 - SW846 3005A										
Blank (1122211-BLK1)					Prepared & Analyzed: 25-Oct-11					
Lead	< 0.0045	U	mg/l	0.0045						
Selenium	< 0.0024	U	mg/l	0.0024						
Arsenic	< 0.0032	U	mg/l	0.0032						
Barium	< 0.0034	U	mg/l	0.0034						
Silver	< 0.0020	U	mg/l	0.0020						
Chromium	< 0.0034	U	mg/l	0.0034						
Cadmium	< 0.0001	U	mg/l	0.0001						
LCS (1122211-BS1)					Prepared & Analyzed: 25-Oct-11					
Selenium	**1.24**		mg/l	0.0024	1.25		99	85-115		
Lead	**1.31**		mg/l	0.0045	1.25		105	85-115		
Silver	**1.23**		mg/l	0.0020	1.25		99	85-115		
Cadmium	**1.30**		mg/l	0.0001	1.25		104	85-115		
Chromium	**1.26**		mg/l	0.0034	1.25		101	85-115		
Arsenic	**1.24**		mg/l	0.0032	1.25		99	85-115		
Barium	**1.28**		mg/l	0.0034	1.25		103	85-115		
LCS Dup (1122211-BSD1)					Prepared & Analyzed: 25-Oct-11					
Lead	**1.26**		mg/l	0.0045	1.25		100	85-115	4	20
Selenium	**1.21**		mg/l	0.0024	1.25		97	85-115	3	20
Silver	**1.13**		mg/l	0.0020	1.25		90	85-115	9	20
Arsenic	**1.19**		mg/l	0.0032	1.25		95	85-115	4	20
Barium	**1.26**		mg/l	0.0034	1.25		101	85-115	2	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1122211 - SW846 3005A										
LCS Dup (1122211-BSD1)						Prepared & Analyzed: 25-Oct-11				
Chromium	**1.25**		mg/l	0.0034	1.25		100	85-115	2	20
Cadmium	**1.24**		mg/l	0.0001	1.25		99	85-115	5	20
Duplicate (1122211-DUP1)			**Source: SB38052-03**			Prepared & Analyzed: 25-Oct-11				
Lead	< 0.0045	U	mg/l	0.0045		BRL				20
Selenium	< 0.0024	U	mg/l	0.0024		BRL				20
Silver	< 0.0020	U	mg/l	0.0020		BRL				20
Arsenic	**0.0092**		mg/l	0.0032		0.0107			16	20
Barium	**0.508**		mg/l	0.0034		0.540			6	20
Cadmium	**0.0005**	QR8, J	mg/l	0.0001		0.0008			41	20
Chromium	< 0.0034	U	mg/l	0.0034		BRL				20
Matrix Spike (1122211-MS1)			**Source: SB38052-05**			Prepared & Analyzed: 25-Oct-11				
Selenium	**1.32**		mg/l	0.0024	1.25	BRL	105	75-125		
Lead	**1.19**		mg/l	0.0045	1.25	BRL	95	75-125		
Cadmium	**1.22**		mg/l	0.0001	1.25	BRL	97	75-125		
Barium	**1.45**		mg/l	0.0034	1.25	0.181	101	75-125		
Arsenic	**1.33**		mg/l	0.0032	1.25	BRL	106	75-125		
Silver	**1.30**		mg/l	0.0020	1.25	BRL	104	75-125		
Chromium	**1.20**		mg/l	0.0034	1.25	0.0138	95	75-125		
Matrix Spike Dup (1122211-MSD1)			**Source: SB38052-05**			Prepared & Analyzed: 25-Oct-11				
Selenium	**1.25**		mg/l	0.0024	1.25	BRL	100	75-125	6	20
Lead	**1.13**		mg/l	0.0045	1.25	BRL	90	75-125	5	20
Barium	**1.36**		mg/l	0.0034	1.25	0.181	94	75-125	7	20
Cadmium	**1.16**		mg/l	0.0001	1.25	BRL	93	75-125	5	20
Arsenic	**1.26**		mg/l	0.0032	1.25	BRL	101	75-125	5	20
Silver	**1.24**		mg/l	0.0020	1.25	BRL	99	75-125	5	20
Chromium	**1.12**		mg/l	0.0034	1.25	0.0138	89	75-125	7	20
Post Spike (1122211-PS1)			**Source: SB38052-05**			Prepared & Analyzed: 25-Oct-11				
Selenium	**1.26**		mg/l	0.0024	1.25	BRL	101	80-120		
Lead	**1.14**		mg/l	0.0045	1.25	BRL	92	80-120		
Chromium	**1.15**		mg/l	0.0034	1.25	0.0138	91	80-120		
Cadmium	**1.18**		mg/l	0.0001	1.25	BRL	94	80-120		
Barium	**1.38**		mg/l	0.0034	1.25	0.181	96	80-120		
Arsenic	**1.28**		mg/l	0.0032	1.25	BRL	102	80-120		
Silver	**1.24**		mg/l	0.0020	1.25	BRL	99	80-120		
Batch 1122350 - EPA200/SW7000 Series										
Blank (1122350-BLK1)						Prepared & Analyzed: 26-Oct-11				
Mercury	< 0.0058	U	mg/kg wet	0.0058						
Duplicate (1122350-DUP1)			**Source: SB38052-04**			Prepared & Analyzed: 26-Oct-11				
Mercury	**0.0758**		mg/kg dry	0.0062		0.0849			11	20
Matrix Spike (1122350-MS1)			**Source: SB38052-04**			Prepared & Analyzed: 26-Oct-11				
Mercury	**0.566**		mg/kg dry	0.0315	0.428	0.0849	112	75-125		
Matrix Spike Dup (1122350-MSD1)			**Source: SB38052-04**			Prepared & Analyzed: 26-Oct-11				
Mercury	**0.578**		mg/kg dry	0.0311	0.422	0.0849	117	75-125	2	20
Post Spike (1122350-PS1)			**Source: SB38052-04**			Prepared & Analyzed: 26-Oct-11				
Mercury	**0.546**		mg/kg dry	0.0288	0.390	0.0849	118	80-120		
Reference (1122350-SRM1)						Prepared & Analyzed: 26-Oct-11				
Mercury	**4.81**		mg/kg wet	0.0614	3.96		121	71.7-128.3		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1122213 - EPA200/SW7000 Series										
Blank (1122213-BLK1)						Prepared: 25-Oct-11 Analyzed: 26-Oct-11				
Mercury	**0.00007**	J	mg/l	0.00007						
LCS (1122213-BS1)						Prepared: 25-Oct-11 Analyzed: 26-Oct-11				
Mercury	**0.00476**		mg/l	0.00007	0.00500		95	85-115		
Duplicate (1122213-DUP1)			**Source: SB38052-03**			Prepared: 25-Oct-11 Analyzed: 26-Oct-11				
Mercury	< 0.00007	U	mg/l	0.00007		BRL				20
Matrix Spike (1122213-MS1)			**Source: SB38052-05**			Prepared: 25-Oct-11 Analyzed: 26-Oct-11				
Mercury	**0.00493**		mg/l	0.00007	0.00500	BRL	99	80-120		
Matrix Spike Dup (1122213-MSD1)			**Source: SB38052-05**			Prepared: 25-Oct-11 Analyzed: 26-Oct-11				
Mercury	**0.00499**		mg/l	0.00007	0.00500	BRL	100	80-120	1	20
Post Spike (1122213-PS1)			**Source: SB38052-05**			Prepared: 25-Oct-11 Analyzed: 26-Oct-11				
Mercury	**0.00523**		mg/l	0.00007	0.00500	BRL	105	85-115		

Notes and Definitions

J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
O01	This compound is a common laboratory contaminant.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QR8	Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.
SGC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
U	Analyte included in the analysis, but not detected
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Nicole Leja

SB 38052 5-1

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 10/26/11
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Donald Moore
Stantec
5 Dartmouth Drive, Suite 101
Auburn, NH 03030
Telephone #:
Project Mgr. Donald Moore

Invoice To: Same
P.O. No.: RQN:

Project No.: 19710847.200
Site Name: A+P Inwood
Location: NY State: NY
Sampler(s): D. Chapman / Stantec

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9= 10= 11=

List preservative code below: 2 4

QA/QC Reporting Notes: (check as needed)

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=Distilled H_2O X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: 8260 B	PAH 8270C	RCRA METALS	
38052-01	Trip Blank	10/24/11		G	X1	2				X	~~X~~ VOC	~~X~~ VOC	
02	B-104 (8-10)	10/24/11	1525	G	So	0	X			~~X~~	~~X~~	~~X~~	← Run
03	B-104	10/24/11	1530	G	GW	3	1		1	X	X	X	
04	B-105 (8-10)	10/24/11	1220	G	So	0	1			X	X	X	
05	B-105	10/24/11	1230	G	GW	3	X		1	X	~~X~~	X	

Jar received broken but we were able to salvage Soil Per client request

Jar received Broken.

QA/QC Reporting Notes (check as needed):
- ☐ Provide MA DEP MCP CAM Report
- ☐ Provide CT DPH RCP Report
- **QA/QC Reporting Level** ☒ Standard ☐ No QC
- ☐ Other
- State specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
Donald Chapman	Via FedEx	10/24/11	1830	
FedEx	D Brawley	10/25/11	1012	1.9

☒ EDD Format excel
☒ E-mail to donald.moore@stantec.com

☐ Ambient ☒ Iced ☐ Refrigerated ☐ Fridge temp ___°C ☐ Freezer temp ___°C

FedEx Express **NEW** Package US Airbill

FedEx Tracking Number 8987 0386 8957

Form ID No. 0200

Recipient's Copy

1 From

Date 10/24/11

Sender's Name David Chapman Phone ~~207~~ 603 867.4483

Company Stantec

Address 5 Dartmouth Drive Suite 101

Dept./Floor/Suite/Room

City Auburn State NH ZIP 03032

2 Your Internal Billing Reference

3 To

Recipient's Name Phone 413 787.9018

Company Spectrum Analytical

Address 11 Almgren Drive

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Agawam State MA ZIP 01001

HOLD Weekday FedEx location address REQUIRED. **NOT available for** FedEx First Overnight.

HOLD Saturday FedEx location address REQUIRED. **Available ONLY for** FedEx Priority Overnight and FedEx 2Day to select locations.

8987 0386 8957

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.
For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

- ☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- ☐ **NEW** FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- ☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options

☐ SATURDAY Delivery — **NOT available for** FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

☐ Direct Signature — Someone at recipient's address may sign for delivery. ***Fee applies.***

☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. ***Fee applies.***

Does this shipment contain dangerous goods?

One box must be checked.

☒ No ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box. ☐ Cargo Aircraft Only

7 Payment ***Bill to:***

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

☐ Sender Acct. No. in Section 1 will be billed. ☒ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

[redacted] 5

Total Packages	Total Weight	Total Declared Value†	Credit Card Auth.
1	____ lbs.	$ ____ .00	

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

612

Rev. Date 11/10 • Part #163136 • ©1994–2010 FedEx • PRINTED IN U.S.A. SRY

fedex.com 1.800.GoFedEx 1.800.463.3339

fedex.com 1.800.GoFedEx 1.800.463.3339