Task 210 Subsurface Site Investigation

Flatbush Avenue Bridge Project
Conrail & New Britain Express Bus Route

West Hartford/Hartford, Connecticut

State Project #: 0063-0643

TtR Assignment #: 403-3808

Submitted to:
Connecticut Department of Transportation

February 16, 2009

TETRA TECH RIZZO

February 16, 2009

Mr. Gregory Dorosh
Principal Engineer
Environmental Compliance Section
Bureau of Engineering and Highway Operations
Connecticut Department of Transportation
P.O. Box 317546
Newington, Connecticut 06131-7546
Attention: Ms. Judith Nemecek/ Ms. Amie Maines

Re: Task 210 Subsurface Site Investigation
Flatbush Avenue Bridge Project
Conrail & New Britain Express Bus Route
West Hartford/Hartford, Connecticut
State Project #: 0063-0643
TtR Project #: 403-3808

Dear Mr. Dorosh:

Tetra Tech Rizzo, Inc. (Tetra Tech Rizzo) is pleased to submit this report summarizing the conduct and findings of this Task 210 Subsurface Site Investigation conducted at the proposed areas of the Flatbush Avenue Bridge Project, Conrail and New Britain Express Bus Route in West Hartford and Hartford, Connecticut (hereinafter referred to as the "Project"). This report was prepared to evaluate the Project for evidence of a release of oil and/or hazardous materials as defined by the Connecticut General Statutes (CGS) Section 22a-134.

This investigation included the advancement of soil borings and the collection and analysis of soil samples. The results and recommendations are presented in the attached report. We appreciate the opportunity to provide these services to you. Please contact us if you have any questions concerning this report.

Very truly yours,

Joseph T. Perko III
Senior Project Geologist

David T. Williams, CPG, LEP, RS
Project Manager

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1.0 Introduction

At the request of the Connecticut Department of Transportation (DOT), this study was conducted to investigate the soil and groundwater within the corridor of the proposed improvements to the Flatbush Avenue Bridge Project, Conrail and New Britain Express Bus Route in West Hartford and Hartford, Connecticut for evidence of, or the potential for, contamination of the soil with oil and/or hazardous materials as defined by the Connecticut General Statutes Section 22a-134. This study was conducted by the following Tetra Tech Rizzo personnel: Joseph T. Perko III and David T. Williams, LEP. This investigation was conducted on December 5 and 8, 2008 and January 9, 2009.

The proposed Project activities include constructing a bridge over the Conrail railroad right-of-way, elevating Flatbush Avenue at the approaches, and installing drainage.

The purpose of this Task 210 was to verify the presence or absence of subsurface contamination within the proposed construction limits in locations where roadwork is anticipate and bridge and drainage structures are proposed. The Shell Gas Station property, located at the intersection of New Park Avenue and Flatbush Avenue (456 New Park Avenue) and the Patent Construction Systems Storage property, located at the intersection of Flatbush Avenue and Newfield Avenue (540 Flatbush Avenue) are considered moderate to high risk properties. Soil borings were placed to evaluate potential contamination adjacent to these properties and where roadwork and structures are proposed.

Soil and groundwater analytical data collected during this investigation is compared to the criteria of the Connecticut Remediation Standard Regulations (Regulations of the Connecticut State Agencies Sections 22a-133k-1 through 3) (RSRs) to characterize soil and groundwater quality at the Project area. The project area is not considered an Establishment as defined under Connecticut General Statutes 22a-134 to 134(d), as amended (Connecticut Transfer Act) and therefore, the RSRs are used indirectly to assess the environmental quality of soil and groundwater and not used to assess regulatory compliance. A Site location map is presented as **Figure 1**.

1.1 Site Description

The Project is located in the proposed areas of the Flatbush Avenue Bridge Project, Conrail and New Britain Express Bus Route in West Hartford and Hartford, Connecticut. These areas include portions of Flatbush Avenue in both West Hartford and Hartford, Connecticut. Numerous commercial properties surround the proposed corridor. Soil boring locations were positioned in the vicinity of the Shell Gas Station property and the Patent Construction Systems Storage property, which were deemed "moderate to high risk" properties with the potential of impacting the environmental conditions of the Project.

Topography in the vicinity of the Project is relatively flat; however, the corridor does slope slightly downwards from west to east towards the on and off ramps for Interstate 84. A Soil Boring Location Plan depicting the Project area and sampling locations is presented as **Figure 2**.

Groundwater at the Project is classified by the Connecticut Department of Environmental Protection (DEP) as GB. GB groundwater is groundwater within an historically highly urbanized area or an area of intense industrial activities where public water supply service is available. Such groundwater may not be suitable for human consumption without treatment due to waste discharges, spills or leaks of chemicals or land use impacts. Analytical data summarized in this report is compared to the RSR criteria applicable for areas with GB classified groundwater. Groundwater was encountered at the Site between approximately 2.5 and 6 feet below grade (fbg).

The DEP's Geographical Information Systems database (DEP, 2005) indicates that soils in the vicinity of the Project area are classified as fines. The DEP's database also indicates that the bedrock underlying the Project area is mapped as the Portland Arkose, a reddish-brown sandstone (brownstone).

The closest major surface water body is the South Branch of the Park River which runs south to north, perpendicular and approximately 500-feet to the east of the Project corridor. The South Branch of the Park River is a class C/B water body. According to the DEP's "Water Quality Standards" (DEP, effective December 17, 2002), class C/B surface water bodies do not meet designated uses.

1.2 Previous Investigations

A Task 120 Preliminary Site Evaluation was completed for 569-583 Flatbush Avenue and nearby areas by the Maguire Group, Inc. in September 2006. The Task 120 identified the site as a moderate environmental risk. Additionally, the Volkswagon Dealership (470 New Park Avenue), Patent Construction Systems (540 Flatbush Avenue) and the gasoline station at the corner of Flatbush Avenue and New Park Avenue were also identified.

Potential on-site contaminant sources include contaminated groundwater that has migrated into the proposed project area, and contaminated soil associated with land use practices adjacent to the railroad right-of-way.

Potential off-site contaminant sources include releases associated with the storage and handling of petroleum and petroleum-related wastes and potential leaking underground storage tanks (LUSTs) located on moderate risk properties, the car dealership and the gasoline station.

1.3 Limitations

This report is subject to the limitations outlined in **Appendix A**. This study and report have been prepared on behalf of and for the exclusive use of the DOT for use in an environmental

evaluation of the Site.

2.0 Applicable RSR Criteria Overview

2.1 Soils

Based upon the Connecticut Remediation Standard Regulations (Regulations of the Connecticut State Agencies Sections 22a-133k-1 through 3 and 22a-133q-1) (RSRs), soils at a potential release area are in compliance if they meet (A) the default Direct Exposure Criteria (DEC) or an alternative DEC and (B) the default Pollutant Mobility Criteria (PMC) or an alternative PMC.

2.1.1 Direct Exposure Criteria

The DEC are risk-based criteria that were established to identify the concentrations of contaminants that would not represent a significant risk to humans if exposed to the soil by direct contact or ingestion. Based on the varying exposure potentials, two types of soil criteria are considered for direct exposure: industrial/commercial and residential. For application of the DEC, all sites must meet the residential DEC, unless an Environmental Land Use Restriction (ELUR) prohibiting residential use of the parcel is recorded on the land records.

2.1.2 Pollutant Mobility Criteria

The PMC was established to identify the potential risk to groundwater represented by contaminants leaching from soil located above the water table. The PMC differs depending upon the groundwater classification of the area (GA versus GB). The groundwater classification for the Project area is GB. Therefore, the Site must comply with the GB PMC.

2.2 Groundwater

Groundwater was encountered at the Site between 2.5 and 6 fbg.

Groundwater beneath the Site is classified by the DEP as GB. According to the DEP, GB classified groundwater may not be suitable for direct human consumption without treatment due to waste discharges, spills or leaks of chemicals, or other land use impacts. This Task 210 Subsurface Investigation was prepared in accordance with the RSR criteria applicable to areas with GB classified groundwater.

2.2.1 Surface Water Protection Criteria (SWPC)

The SWPC was established to protect the quality of surface waters for which groundwater discharges to. The closest major surface water body is the South Branch of the Park River which runs south to north, perpendicular and approximately 500-feet to the east of the Project corridor.

The South Branch of the Park River is a class C/B water body. According to the DEP's "Water Quality Standards" (DEP, effective December 17, 2002), class C/B surface water bodies do not meet designated uses.

2.2.2 Volatilization Criteria (VC)

The VC was established to ensure that volatile compounds do not volatilize from the groundwater, into structures, etc. and impact human health. Separate VC are established for residential purposes (the R VC) and industrial/commercial purposes (I/C VC).

3.0 Scope of Investigation

Site activities were conducted on December 5 and 8, 2008 and January 9, 2009.
The proposed scope of activities for this investigation included the following:

- Advancement of 15 soil borings designated RSB-1, 2, 3, 5, 6, 7, 8, 10, 12, 13, 14, 15, 17, 19 and 20. Soil borings RSB-4, 9, 11, 16 and 18 were not completed due to site restrictions. Soil samples were collected from each soil boring at depths ranging from 0-16 fbg. A total of 16 soil samples were submitted for laboratory analysis.

3.1 Drilling

A total of 15 soil borings were advanced across the Project area to investigate potential environmental impacts along the corridor, particularly in areas that were considered to have a "high risk" of impacting the environmental conditions of the Project. Logical Environmental Solutions (LES) of Tolland, Connecticut was retained to provide the services of a Geoprobe® which advanced a 4-foot long by 2-inch diameter Macro-Core® sampling devise fitted with disposable, polyethylene sample tubes to the applicable depths. Soil boring locations are depicted on **Figure 2.** Soil borings are identified as RSB-# (Depth), for example, RSB-1 (2-4'). Boring logs describing the subsurface materials encountered in each soil boring are included in **Appendix B**.

3.2 Soil Sampling

Soil samples were collected from each soil boring (at varying depths) and were screened for the presence of volatile organic compounds (VOCs) using a photo-ionization detector (PID). Soil samples were collected for analysis based upon field screening results, field observations (i.e., staining and/or odors), and/or spatial coverage. VOC soil samples were collected in accordance with the DEP's "Guidance for Collecting and Preserving Soil and Sediment Samples for Laboratory Determination of Volatile Organic Compounds" (DEP, March 2006).

All soil samples were collected into pre-cleaned, laboratory-supplied glass containers, stored in ice at 4 degrees Celsius, and transported via laboratory courier to Spectrum Analytical

Laboratories of Agawam, Massachusetts for analysis.

Soil Analyses:

Sixteen soil samples were submitted for laboratory analysis from the 15 soil borings conducted. All soil samples were analyzed for VOCs by Environmental Protection Agency (EPA) method 5035/8260, extractable total petroleum hydrocarbons (ETPH) by the Connecticut method, and mass analysis of the eight Resource Conservation and Recovery Act (RCRA) metals. Additionally, select soil samples were submitted for analysis of polycyclic aromatic hydrocarbons (PAHs) by EPA method 8270, herbicides by EPA method 8151, polychlorinated biphenyls (PCBs) by EPA method 8082 and leachable analysis of the eight RCRA metals using the Synthetic Precipitation Leaching Procedure (SPLP) method.

3.3 Groundwater Sampling

Grab groundwater samples were collected from select soil borings using temporary, dedicated, 1-inch diameter well screens installed directly into the bore hole. Groundwater samples were retrieved using a variable-speed peristaltic pump fitted with dedicated polyethylene and Tygon® tubing.

All groundwater samples were collected into pre-cleaned, laboratory-supplied glass containers, stored in ice at 4 degrees Celsius, and transported via laboratory courier to Spectrum Analytical Laboratories of Agawam, Massachusetts for analysis.

Groundwater Analyses:

Seven groundwater samples collected from seven soil borings (RSB-1, 2, 3, 7, 10, 12 and 13) were submitted for laboratory analysis. All of the groundwater samples were analyzed for VOCs by EPA method 8260. Additionally, select groundwater samples were submitted for analysis of ETPH by the Connecticut method, total RCRA eight metals, PAHs by EPA method 8270, herbicides by EPA method 8151, PCBs by EPA method 8082, and leachable RCRA eight metals using the SPLP method.

4.0 Results of Soil Sampling Analyses

Sixteen soil samples were collected during this investigation. Laboratory analytical reports and chain-of-custody records are included in **Appendix C**. **Table 1** contains the laboratory analytical results for the soil samples as summarized below:

Volatile Organic Compounds (VOCs)

All sixteen soil samples were submitted for VOC analysis. VOCs were not detected in exceedance of the applicable RSR criteria in any of the 16 soil samples. VOCs were detected above the laboratory's reportable detection limits (RDLs) in 3 of the 16 soil samples as follows:

- RSB-3 (3-7'): n-Butylbenzene (283 µg/kg (micrograms per kilogram)), sec-Butylbenzene (113 µg/kg), and n-Propylbenzene (41.8 µg/kg)
- RSB-10 (3-5'): n-Butylbenzene (68.6 µg/kg), sec-Butylbenzene (22.9 µg/kg), Isopropylbenzene (8.9 µg/kg), and n-Propylbenzene (16.1 µg/kg)
- RSB-19 (1-4'): n-Butylbenzene (2,610 µg/kg), sec-Butylbenzene (1,370 µg/kg), Isopropylbenzene (710 µg/kg), Naphthalene (4,310 µg/kg), and n-Propylbenzene (1,410 µg/kg)

These concentrations do not exceed the applicable RSR criteria and no VOCs were detected above the laboratory detection limits in the remaining soil samples analyzed.

Polycyclic Aromatic Hydrocarbons (PAHs)

Fourteen of the sixteen soil samples collected were submitted for PAH analysis. One PAH was detected in exceedance of the applicable RSR criteria in one of the 14 soil samples. 2-Methylnaphthalene was detected in RSB-19 (1-4') at a concentration of 16,000 µg/kg. This concentration exceeds the GB PMC established for 2-methylnaphthalene at 9,800 µg/kg.

Three of the fourteen PAH samples contained PAH concentrations that do not exceed the applicable RSR criteria as follows:

- RSB-3 (3-7'): Pyrene (193 µg/kg)
- RSB-10 (3-5'): 1-Methylnaphthalene (222 µg/kg)
- RSB-19 (1-4'): Acenaphthene (3,540 µg/kg), Fluorene (5,330 µg/kg), 1-Methylnaphthalene (30,100 µg/kg), Naphthalene (2,460 µg/kg), and Phenanthrene (11,600 µg/kg)

No other PAHs were detected above the laboratory detection limits in the remaining soil samples analyzed.

Polychlorinated Biphenyls (PCBs)

Ten of the sixteen soil samples collected were submitted for PCB analysis. PCBs were not detected above the laboratory detection limits in any of the ten soil samples.

Herbicides

Ten of the sixteen soil samples collected were submitted for herbicides analysis. Herbicides were not detected above the laboratory detection limits in any of the ten soil samples.

Extractable Total Petroleum Hydrocarbons (ETPH)

All sixteen soil samples were submitted for ETPH analysis. ETPH were detected in exceedance of the RSR criteria in two of the sixteen samples. RSB-3 (3-7') contained ETPH at 646 mg/kg (milligrams per kilogram). This concentration exceeds the ETPH Res DEC established at 500 mg/kg. And, RSB-19 (1-4') contained ETPH at 5,480 mg/kg. This concentration exceeds the 500 mg/kg Res DEC, and the I/C DEC and GB PMC, both established at 2,500 mg/kg.

ETPH were detected below the applicable RSR criteria but above the laboratory detection limits in soil samples RSB-2 (0-4') at 53.7 mg/kg, RSB-10 (3-5') at 214 mg/kg, and RSB-15 (1-4') at 86.7 mg/kg. The remaining soil samples did not detect ETPH above the laboratory detection limits.

Total RCRA 8 Metals

All sixteen soil samples were submitted for mass analysis of the eight RCRA metals. No metals concentrations were detected above the applicable RSR criteria. Metals that were detected above the laboratory detection limits include: arsenic (10 samples), barium (16 samples), cadmium (7 samples), chromium (16 samples), lead (16 samples), mercury (3 samples), and selenium (2 samples). Silver was not detected above the laboratory's RDLs in any of the soil samples These low-level concentrations appear to be consistent with background concentrations native to the area.

Leachable (SPLP) RCRA 8 Metals

Nine of the sixteen soil samples were submitted for analysis of the leachability of the eight RCRA metals using the SPLP method. Leachable metals were not detected in exceedance of the RSR criteria. Leachable metals that were detected above the laboratory detection limits include: barium (7 samples) and lead (1 sample). The low-level concentrations detected are consistent with background concentrations native to the area.

5.0 Results of Groundwater Sampling Analyses

Seven grab groundwater samples were collected during this investigation. Laboratory analytical reports and chain-of-custody records are included in **Appendix C**. **Table 2** contains the laboratory analytical results for the groundwater samples as summarized below:

Volatile Organic Compounds (VOCs)

All seven groundwater samples were submitted for VOC analysis. VOCs were not detected in exceedance of the applicable RSR criteria in any of the samples.

Four groundwater samples contained low-level VOC concentrations as follows:

- RSB-3: Toluene (1.3 µg/L (micrograms per liter)) and 1,2,4-Trimethylbenzene (1.1 µg/L)

- RSB-7: Acetone (34.8 µg/L) (Acetone is often a common laboratory contaminant.)
- RSB-10: Naphthalene (4.6 µg/L), Toluene (2.6 µg/L), and 1,2,4-Trimethylbenzene (1.3 µg/L)
- RSB-12: Toluene (2.1 µg/L), 1,2,4-Trimethylbenzene (1.2 µg/L), and Total Xylenes (3.1 µg/L)

These concentrations do not exceed the applicable RSR criteria. No other groundwater samples contained VOCs at concentrations that are above the laboratory detection limits.

Polycyclic Aromatic Hydrocarbons (PAHs)

Five of the seven groundwater samples were submitted for PAH analysis. PAHs were detected in exceedance of the RSR criteria in two of the five samples. RSB-1 groundwater contained benzo(a)pyrene at 0.356 µg/L, benzo(b)fluoranthene at 0.344 µg/L, dibenzo(a,h)anthracene at 0.111 µg/L, and phenanthrene at 0.222 µg/L. These PAH concentrations exceed the respective SWPC established for each contaminant (0.3 µg/L, 0.3 µg/L, 0.01 µg/L (site specific), and 0.077 µg/L, respectively). RSB-3 groundwater contained phenanthrene at 0.556 µg/L. This concentration exceeds the SWPC established for phenanthrene at 0.077 µg/L.

Numerous PAHs were detected at low-level concentrations that do not exceed the RSR criteria in groundwater collected from soil borings RSB-1, RSB-3, and RSB-7. PAHs were not detected above the laboratory detection limits in groundwater collected from soil borings RSB-2 and RSB-13.

Polychlorinated Biphenyls (PCBs)

Five of the seven groundwater samples were submitted for PCB analysis. PCBs were not detected above the laboratory detection limits in any of the five samples.

Herbicides

Five of the seven groundwater samples were submitted for herbicides analysis. Herbicides were not detected above the laboratory detection limits in any of the five samples.

Extractable Total Petroleum Hydrocarbons (ETPH)

Six of the seven groundwater samples were submitted for analysis of ETPH. Currently, there is no RSR criteria established for ETPH in GB classified groundwater areas. ETPH were detected above the laboratory detection limits in two of the six groundwater samples. RSB-3 contained ETPH at 1.8 mg/L (milligrams per liter), and RSB-13 contained ETPH at 0.6 mg/L. ETPH were not detected above the laboratory detection limits in the remaining four samples.

Total RCRA 8 Metals

Six of the seven groundwater samples were submitted for mass analysis of the eight RCRA metals. Four of the six samples contained exceedances of the SWPC as follows:

- RSB-1: Lead at 0.0202 mg/L (exceeds the lead SWPC of 0.013 mg/L)
- RSB-2: Arsenic at 0.117 mg/L (exceeds the arsenic SWPC of 0.004 mg/L), Lead at 0.939 mg/L, and Mercury at 0.00584 mg/L (exceeds the mercury SWPC of 0.0004 mg/L)
- RSB-12: Arsenic at 0.157 mg/L, Cadmium at 0.0245 mg/L (exceeds the cadmium SWPC of 0.006 mg/L), Lead at 0.374 mg/L, and Silver at 0.0190 mg/L (exceeds the silver SWPC of 0.012 mg/L)
- RSB-13: Lead at 0.488 mg/L

Additionally, total chromium was detected in RSB-2 groundwater at 1.19 mg/L and in RSB-12 groundwater at 0.474 mg/L. No SWPC has been established for total chromium. The SWPC established for hexavalent chromium and trivalent chromium are 0.110 mg/L and 1.2 mg/L, respectively.

Groundwater samples were collected as grab samples from temporary wells, not from developed, permanent monitoring wells that typically yield results that are considered more representative of actual groundwater quality. The presence of metals at concentrations that exceed the SWPC may be a reflection more of turbid water than of the actual groundwater quality

Leachable (SPLP) RCRA 8 Metals

Two of the seven groundwater samples were analyzed for leachable RCRA eight metals using the SPLP method. Leachable lead was detected in RSB-13 groundwater at a concentration of 0.0230 mg/L. This concentration exceeds the lead SWPC established at 0.013 mg/L. No other leachable metals were detected in exceedance of the RSR criteria and only leachable barium was detected above the laboratory detection limits, in both samples.

6.0 Quality Assurance/Quality Control

Three quality assurance/quality control (QA/QC) samples were collected during this investigation. Laboratory analytical reports and chain-of-custody records are included in **Appendix C**. **Table 2** contains the laboratory analytical results for the QA/QC samples.

All three QA/QC samples collected were trip blanks. Trip blanks are vials of de-ionized water that accompany groundwater VOC samples from the time of sample collection, through the transportation process, to the time of sample analysis. The trip blanks were analyzed for VOCs by EPA method 8260. Trip blanks are used to determine if cross-contamination has occurred during the sample storage and delivery process. The VOC results for all three trip blanks were

"non-detect" indicating that cross-contamination had been avoided.

7.0 Conclusions

This Task 210 – Subsurface Site Investigation was conducted on December 5 and 8, 2008 and January 9, 2009. All Site activities were conducted in accordance with industry standards including the DEP's RSRs.

Soil

One PAH, 2-methylnaphthalene, was detected in exceedance of the GB PMC in one soil sample, RSB-19 (1-4').

ETPH were detected in exceedance of the RSR criteria in two soil samples. RSB-3 (3-7') contained ETPH at 646 mg/kg which exceeds the Res DEC, and RSB-19 (1-4') contained ETPH at 5,480 mg/kg which exceeds the Res DEC, I/C DEC, and GB PMC.

Low-level concentrations of VOCs, ETPH, PAHs, and RCRA 8 metals (total and leachable) were detected below the applicable RSR criteria but above the laboratory detection limits in a number of samples.

PCBs and herbicides were not detected in any of the soil samples analyzed during this investigation.

Groundwater

PAHs were detected above the SWPC in two groundwater samples. RSB-1 groundwater contained benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and phenanthrene at concentrations that exceed the respective SWPC. RSB-3 groundwater contained phenanthrene at a concentration that exceeds the SWPC.

Total metals were detected in exceedance of the SWPC in four groundwater samples: RSB-1 (lead), RSB-2 (arsenic, lead, and mercury), RSB-12 (arsenic, cadmium, lead, and silver), and RSB-13 (lead). These concentrations may be more a reflection of turbid conditions encountered during sampling, and less reflective of actual groundwater quality.

Additionally, total chromium was detected in RSB-2 groundwater at 1.19 mg/L and in RSB-12 groundwater at 0.474 mg/L. No SWPC has been established for total chromium. The SWPC established for hexavalent chromium and trivalent chromium are 0.110 mg/L and 1.2 mg/L, respectively.

Leachable lead was detected in exceedance of the SWPC in RSB-13 groundwater at a concentration of 0.0230 mg/L.

ETPH were detected in two groundwater samples. RSB-3 contained ETPH at 1.8 mg/L and RSB-

13 contained ETPH at 0.6 mg/L. ETPH were not detected above the laboratory's RDLs in the remaining four samples. Currently, there is no RSR criteria established for ETPH in areas with GB classified groundwater.

Low-level concentrations of VOCs, PAHs, and RCRA 8 metals (total and leachable) were detected in a number of samples above the laboratory detection limits but below the applicable RSR criteria.

PCBs and herbicides were not detected in any of the groundwater samples analyzed during this investigation.

8.0 Recommendations

Areas where results exceed the RSR criteria should be designated as areas of environmental concern (AOECs). Where contaminated soils are excavated, special handling, disposal and documentation procedures will be required. Soils excavated within an AOEC may be reused as fill/backfill only within the AOEC from which it was excavated. Excess or unsuitable soils that cannot be reused within its AOEC of origin must be transported off-Site for disposal. Task 310 plans and specifications are therefore recommended for the areas of construction within the AOECs.

Areas where results are above the laboratory detection limits but below RSR criteria should be designated as low level areas of environmental concern (LLAOECs). Soil excavated from a LLAOEC may be reused within the limits of the Project if deemed suitable. If not, then the soil would required off-Site disposal. Task 310 plans and specifications are therefore recommended for the areas of construction within the LLAOECs with consideration for reuse of LLAOEC soil.

Based upon the concentrations of contaminants of concern detected in Site groundwater, any groundwater that may be generated during dewatering operations associated with the Project should be managed, treated, and disposed of in accordance with applicable local, state, and federal laws. Task 310 plans should address treatment options for potentially contaminated groundwater.

NOTE: DISTANCE RADII MEASURED FROM THE APPROXIMATE CENTER OF SITE PROPERTY.

Project No. 12701186-210

TETRA TECH RIZZO

0 2,000 Feet

Information obtained from
USGS Map of Hartford North Connecticut
Dated: 1964, Photorevised: 1992
USGS Map of Hartford South Connecticut
Dated: 1964, Photorevised: 1992

CTDOT - Task 210
Flatbush Avenue Bridge over Conrail
West Hartford / Hartford, Connecticut

Figure 1

Site Locus Plan

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PLAN REFERENCES:

1. "FLATBUSH AVENUE BRIDGE OVER CONRAIL & NEW BRITAIN EXPRESS BUSWAY ROUTE," BY: BAKER ENGINEERING (PD PLANS), DATED: 6/19/2007, SCALE: 1"=40'.

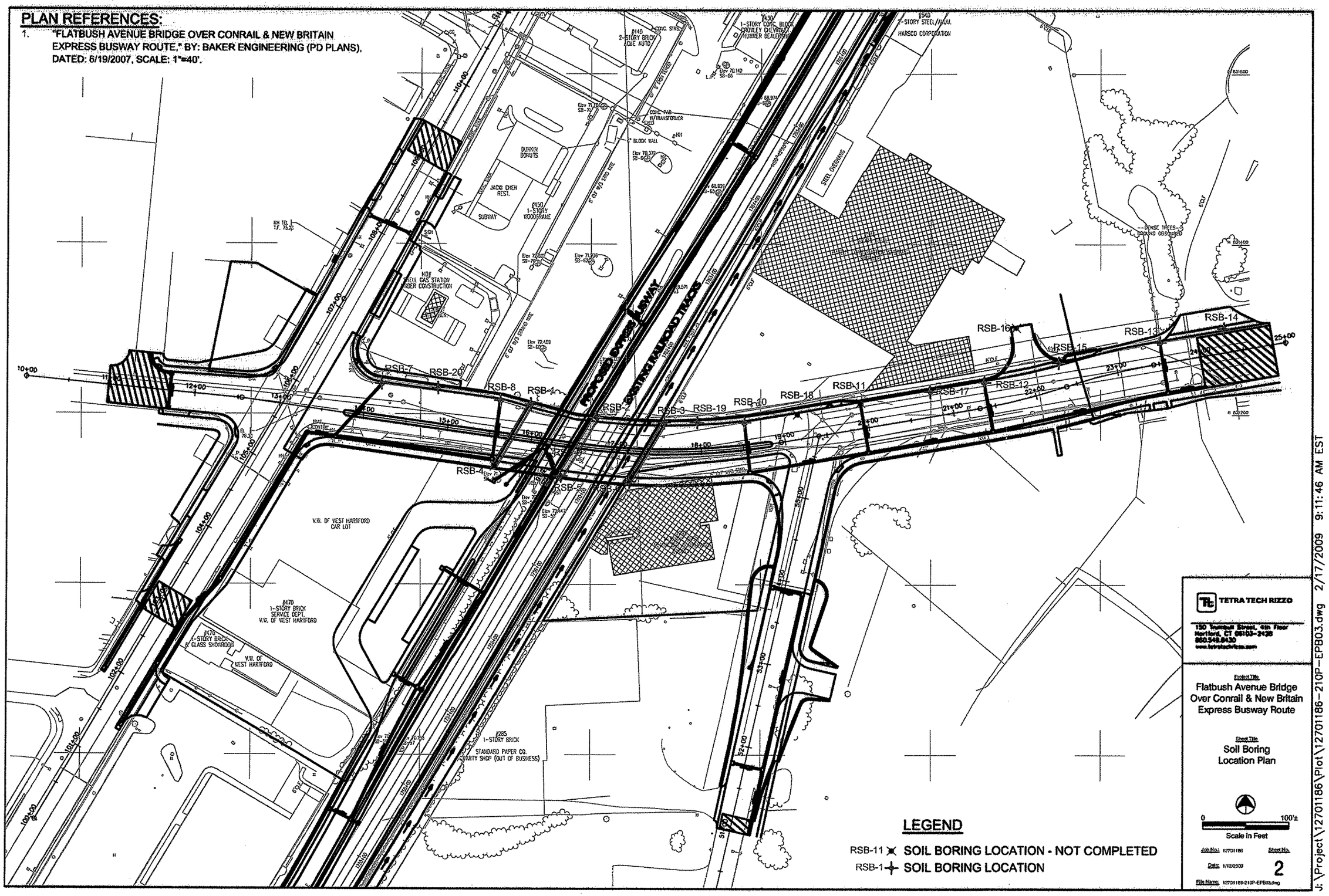

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Table 1
Summary of Soil Sampling Laboratory Analyses
Task 210/220 - Flatbush Avenue Bridge
West Hartford and Hartford, Connecticut

Rizzo Sample I.D.	Remediation Standard Regulations (RSRs) Res DEC	I/C DEC	GB PMC	RSB-1 (3-6')	RSB-2 (0-4')	RSB-2 (8-12')	RSB-3 (3-7')	RSB-5 (4-8')	RSB-6 (6-10')	RSB-7 (2-6')	RSB-8 (1-4')	RSB-10 (3-5')	RSB-12 (4-6')	RSB-13 (2-6')	RSB-14 (1-4')	RSB-15 (1-4')	RSB-17 (1-4')	RSB-19 (1-4')	RSB-20 (2-4')
Depth Interval (feet)																			
Laboratory I.D.				SA89692-01	SA88676-04	SA88676-05	SA88527-12	SA88676-03	SA88527-01	SA89692-05	SA89692-03	SA88527-09	SA88527-06	SA88527-03	SA88527-02	SA88527-05	SA88527-08	SA88527-11	SA89692-04
Sample Date				1/9/09	12/8/08	12/8/08	12/5/08	12/8/08	12/5/08	1/9/09	1/9/09	12/5/08	12/5/08	12/5/08	12/5/08	12/5/08	12/5/08	12/5/08	1/9/09
Volatile Organic Compounds by EPA Method 5035/8260 (ug/kg)																			
n-Butylbenzene	500,000	1,000,000	14,000	<7.6	<7.2	<7.4	283	<8.2	<7.4	<7.3	<6.4	68.6	<8.6	<3.7	<4.7	<5.1	<8.3	2,610	<6.9
sec-Butylbenzene	500,000	1,000,000	14,000	<7.6	<7.2	<7.4	113	<8.2	<7.4	<7.3	<6.4	22.9	<8.6	<3.7	<4.7	<5.1	<8.3	1,370	<6.9
Isopropylbenzene	500,000	1,000,000	132,000	<7.6	<7.2	<7.4	<8.3	<8.2	<7.4	<7.3	<6.4	8.9	<8.6	<3.7	<4.7	<5.1	<8.3	710	<6.9
Naphthalene	1,000,000	2,500,000	56,000	<7.6	<7.2	<7.4	<8.3	<8.2	<7.4	<7.3	<6.4	<8.4	<8.6	<3.7	<4.7	<5.1	<8.3	4,310	<6.9
n-Propylbenzene	500,000	1,000,000	14,000	<7.6	<7.2	<7.4	41.8	<8.2	<7.4	<7.3	<6.4	16.1	<8.6	<3.7	<4.7	<5.1	<8.3	1,410	<6.9
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270 (ug/kg)																			
Acenaphthene	1,000,000	2,500,000	84,000	<189	<381	<416	<187	<411	<174	<175	<164	<203	<179	<151	NA	NA	<168	3,540	<174
Fluorene	1,000,000	2,500,000	56,000	<189	<381	<416	<187	<411	<174	<175	<164	<203	<179	<151	NA	NA	<168	5,330	<174
1-Methylnaphthalene	NE	NE	NE	<189	<381	<416	<187	<411	<174	<175	<164	222	<179	<151	NA	NA	<168	30,100	<174
2-Methylnaphthalene	474,000	2,500,000	9,800	<189	<381	<416	<187	<411	<174	<175	<164	<203	<179	<151	NA	NA	<168	**16,000**	<174
Naphthalene	1,000,000	2,500,000	56,000	<189	<381	<416	<187	<411	<174	<175	<164	<203	<179	<151	NA	NA	<168	2,460	<174
Phenanthrene	1,000,000	2,500,000	40,000	<189	<381	<416	<187	<411	<174	<175	<164	<203	<179	<151	NA	NA	<168	11,600	<174
Pyrene	1,000,000	2,500,000	40,000	<189	<381	<416	193	<411	<174	<175	<164	<203	<179	<151	NA	NA	<168	<2,010	<174
Polychlorinated Biphenyls (PCBs) by EPA Method 8082 (ug/kg)																			
All PCBs	1,000	10,000	NE	NA	<22.1	<24.9	<23.5	<24.9	<26.3	NA	<25.5	<24.0	NA	<21.9	NA	NA	<25.2	NA	<26.1
Herbicides by EPA Method 8151 (ug/kg)																			
All Herbicides	NE	NE	NE	NA	ND	ND	ND	ND	ND	NA	ND	ND	NA	ND	NA	NA	ND	NA	ND
Extractable Total Petroleum Hydrocarbons (ETPH) by the Connecticut Method (mg/kg)																			
ETPH	500	2,500	2,500	<37.7	53.7	<16.8	**646**	<16.6	<34.9	<34.9	<32.8	214	<35.8	<30.3	<27.6	86.7	<33.6	**5,480**	<34.8
Total RCRA 8 Metals (mg/kg)																			
Arsenic	10	10	NE	<1.95	5.74	<1.65	<1.58	<1.60	2.26	<1.93	6.15	1.85	5.46	8.74	1.57	1.75	2.73	<1.72	1.86
Barium	4,700	140,000	NE	61.6	35.1	56.3	37.1	74.2	132	44.4	36.1	50.1	261	85.9	26.5	26.6	181	30.1	68.2
Cadmium	34	1,000	NE	<0.649	<0.558	<0.551	<0.528	<0.532	1.25	<0.644	<0.624	0.705	2.06	1.19	0.533	0.667	1.77	<0.572	<0.610
Chromium	NE	NE	NE	13.4	8.58	11.4	12.8	18.8	30.5	13.4	9.30	15.1	53.4	21.4	12.0	10.0	38.4	11.0	17.5
Lead	400	1,000	NE	5.71	33.0	3.93	3.69	6.14	8.85	2.99	13.8	4.65	15.4	29.6	12.6	70.2	13.0	3.03	4.78
Mercury	20	610	NE	<0.0389	0.443	<0.0351	<0.0371	<0.0336	<0.0377	<0.0350	<0.0358	<0.0379	<0.0411	0.0384	<0.0312	0.0567	<0.0337	<0.0334	<0.0366
Selenium	340	10,000	NE	2.87	<1.68	<1.65	<1.58	<1.60	<1.73	<1.93	<1.87	<1.78	<1.95	<1.51	<1.54	<1.47	<1.66	<1.72	3.00
Silver	340	10,000	NE	<1.95	<1.68	<1.65	<1.58	<1.60	<1.73	<1.93	<1.87	<1.78	<1.95	<1.51	<1.54	<1.47	<1.66	<1.72	<1.83
SPLP RCRA 8 Metals (mg/L)																			
Arsenic	NE	NE	0.5	<0.0080	NA	NA	<0.0080	NA	<0.0080	<0.0080	NA	<0.0080	<0.0080	<0.0080	NA	NA	<0.0080	<0.0080	NA
Barium	NE	NE	10	<0.0100	NA	NA	0.0182	NA	0.0428	<0.0100	NA	0.0309	0.0909	0.0397	NA	NA	0.0265	0.0278	NA
Cadmium	NE	NE	0.05	<0.0050	NA	NA	<0.0050	NA	<0.0050	<0.0050	NA	<0.0050	<0.0050	<0.0050	NA	NA	<0.0050	<0.0050	NA
Chromium	NE	NE	0.5	<0.0100	NA	NA	<0.0100	NA	<0.0100	<0.0100	NA	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0100	NA
Lead	NE	NE	0.15	<0.0150	NA	NA	<0.0150	NA	<0.0150	<0.0150	NA	<0.0150	<0.0150	0.0191	NA	NA	<0.0150	<0.0150	NA
Mercury	NE	NE	0.02	<0.00020	NA	NA	<0.00020	NA	<0.00020	<0.00020	NA	<0.00020	<0.00020	<0.00020	NA	NA	<0.00020	<0.00020	NA
Selenium	NE	NE	0.5	<0.0300	NA	NA	<0.0300	NA	<0.0300	<0.0300	NA	<0.0300	<0.0300	<0.0300	NA	NA	<0.0300	<0.0300	NA
Silver	NE	NE	0.36	<0.0100	NA	NA	<0.0100	NA	<0.0100	<0.0100	NA	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0100	NA

NE = Not Established NA = Not Analyzed ND = Not Detected
RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial Commercial Direct Exposure Criteria
GB PMC = Pollutant Mobility Criteria for Areas with GB Classified Groundwater
RCRA = Resource Conservation and Recovery Act
EPA = Environmental Protection Agency
SPLP = Synthetic Precipite Leacheate Procedure
Only those VOC and PAH analytes detected are shown.
< = Not detected above the laboratory's reportable detection limit.
Bold type indicates an exceedance of the regulatory criteria.

Table 2
Summary of Groundwater Sampling Laboratory Analyses
Task 210/220 - Flatbush Avenue Bridge
West Harford and Hartford, Connecticut

Sample Location	Remediation Standard Regulations (RSRs) SWPC	Res VC	I/C VC	RSB-1	RSB-2	RSB-3	RSB-7	RSB-10	RSB-12	RSB-13	Trip Blank	Trip Blank	Trip Blank
Sample Date				1/9/2009	12/8/2008	12/5/2008	1/9/2009	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/8/2008	1/9/2009
Laboratory I.D.				SA89692-02	SA88676-02	SA88527-13	SA89692-06	SA88527-10	SA88527-07	SA88527-04	SA88527-14	SA88676-01	SA89692-07
Volatile Organic Compounds (VOCs) by EPA Method 8260 (ug/L)													
Acetone	NE	50,000	50,000	<75.7	<10.0	<10.0	34.8	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Naphthalene	NE	NE	NE	<1.0	<1.0	<1.0	<1.0	4.6	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	NE	NE	NE	<1.0	<1.0	1.3	<1.0	2.6	2.1	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NE	NE/360	NE/4,800	<1.0	<1.0	1.1	<1.0	1.3	1.2	<1.0	<1.0	<1.0	<1.0
Total Xylenes	NE	21,300/8,700	50,000/48,000	<3.0	<3.0	<3.0	<3.0	<3.0	3.1	<3.0	<3.0	<3.0	<3.0
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270 (ug/L)													
Acenaphthene	6.1 (SS)	NE	NE	0.078	<12.7	0.422	<0.050	NA	NA	<0.050	NA	NA	NA
Acenaphthylene	0.3	NE	NE	0.244	<12.7	<0.050	<0.050	NA	NA	<0.050	NA	NA	NA
Anthracene	1,100,000	NE	NE	0.167	<12.7	0.200	<0.050	NA	NA	<0.050	NA	NA	NA
Benzo(a)anthracene	0.3	NE	NE	0.167	<12.7	<0.050	<0.050	NA	NA	<0.050	NA	NA	NA
Benzo(a)pyrene	0.3	NE	NE	**0.356**	<12.7	<0.050	<0.050	NA	NA	<0.050	NA	NA	NA
Benzo(b)fluoranthene	0.3	NE	NE	**0.344**	<12.7	<0.050	<0.050	NA	NA	<0.050	NA	NA	NA
Benzo(g,h,i)perylene	4.92 (SS)	NE	NE	0.467	<12.7	<0.050	<0.050	NA	NA	<0.050	NA	NA	NA
Benzo(k)fluoranthene	0.3	NE	NE	0.300	<12.7	<0.050	<0.050	NA	NA	<0.050	NA	NA	NA
Chrysene	4.92 (SS)	NE	NE	0.133	<12.7	<0.050	<0.050	NA	NA	<0.050	NA	NA	NA
Dibenzo(a,h)anthracene	0.01 (SS)	NE	NE	**0.111**	<12.7	<0.050	<0.050	NA	NA	<0.050	NA	NA	NA
Fluoranthene	3,700	NE	NE	0.200	<12.7	<0.050	<0.050	NA	NA	<0.050	NA	NA	NA
Fluorene	140,000	NE	NE	0.078	<12.7	0.689	<0.050	NA	NA	<0.050	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.49 (SS)	NE	NE	0.311	<12.7	<0.050	<0.050	NA	NA	<0.050	NA	NA	NA
1-Methylnaphthalene	NE	NE	NE	0.256	<12.7	0.978	0.133	NA	NA	<0.050	NA	NA	NA
2-Methylnaphthalene	NE	NE	NE	0.333	<12.7	0.267	0.144	NA	NA	<0.050	NA	NA	NA
Naphthalene	24 (SS)	NE	NE	1.74	<12.7	0.489	0.378	NA	NA	<0.050	NA	NA	NA
Phenanthrene	0.077	NE	NE	**0.222**	<12.7	**0.556**	<0.050	NA	NA	<0.050	NA	NA	NA
Pyrene	110,000	NE	NE	0.289	<12.7	0.156	<0.050	NA	NA	<0.050	NA	NA	NA
Polychlorinated Biphenyls (PCBs) by EPA Method 8082 (ug/L)													
All PCB Analytes	0.5	NE	NE	<0.235	<0.465	<0.465	<0.222	NA	NA	<0.426	NA	NA	NA
Herbicides by EPA Method 8151 (ug/L)													
All Herbicides	NE	NE	NE	ND	ND	ND	ND	NA	NA	ND	NA	NA	NA
Extractable Total Petroleum Hydrocarbons (ETPH) by the CT Method (mg/L)													
ETPH	NE	NE	NE	<0.1	<0.1	1.8	<0.1	NA	<0.1	0.6	NA	NA	NA
Total RCRA 8 Metals (mg/L)													
Arsenic	0.004	NE	NE	<0.0040	**0.117**	<0.0040	<0.0040	NA	**0.157**	<0.0400	NA	NA	NA
Barium	NE	NE	NE	0.0508	3.82	0.0450	0.403	NA	2.06	0.0930	NA	NA	NA
Cadmium	0.006	NE	NE	<0.0025	<0.0250	<0.0025	<0.0025	NA	**0.0245**	<0.0250	NA	NA	NA
Chromium	NE*	NE	NE	0.0112	1.19*	0.0080	<0.0050	NA	0.474*	0.0965	NA	NA	NA
Lead	0.013	NE	NE	**0.0202**	**0.939**	<0.0075	<0.0075	NA	**0.374**	**0.488**	NA	NA	NA
Mercury	0.0004	NE	NE	<0.00020	**0.00584**	<0.00020	<0.00020	NA	0.00026	<0.00020	NA	NA	NA
Selenium	0.05	NE	NE	<0.0150	<0.150	<0.0150	<0.0150	NA	<0.0150	<0.150	NA	NA	NA
Silver	0.012	NE	NE	<0.0050	<0.0500	<0.0050	<0.0050	NA	**0.0190**	<0.0500	NA	NA	NA
SPLP RCRA 8 Metals (mg/L)													
Arsenic	0.004	NE	NE	NA	NA	<0.0080	NA	NA	NA	<0.0080	NA	NA	NA
Barium	NE	NE	NE	NA	NA	0.0576	NA	NA	NA	0.154	NA	NA	NA
Cadmium	0.006	NE	NE	NA	NA	<0.0050	NA	NA	NA	<0.0050	NA	NA	NA
Chromium	NE	NE	NE	NA	NA	<0.0100	NA	NA	NA	<0.0100	NA	NA	NA
Lead	0.013	NE	NE	NA	NA	<0.0150	NA	NA	NA	**0.0230**	NA	NA	NA
Mercury	0.0004	NE	NE	NA	NA	<0.00020	NA	NA	NA	<0.00020	NA	NA	NA
Selenium	0.05	NE	NE	NA	NA	<0.0300	NA	NA	NA	<0.0300	NA	NA	NA
Silver	0.012	NE	NE	NA	NA	<0.0100	NA	NA	NA	<0.0100	NA	NA	NA

NE = Not Established NA = Not Analyzed ND = Not Detected
RCRA = Resource Conservation and Recovery Act
EPA = Environmental Protection Agency
ug/L = micrograms per liter mg/L = miligrams per liter
SPLP = Synthetic Precipitation Leaching Procedure
SWPC = Surface Water Protection Criteria
RES VC = Residential Volitalization Ctriteria
I/C VC = Industrial/Commercial Volitalization Criteria
< = Not detected above the laboratory's reportable detection limit.
Only those VOC and PAH analytes detected are shown.
* = No SWPC has been established for total chromium. The SWPC established for hexavalent chomium and trivalent chromium are 0.110 mg/L and 1.2 mg/L, respectively. Further testing would be required to determine the valence of the chromium detected and if an exceedance of the RSR criteria exists.
Bold type indicates an exceedance of the regulatory criteria.
SS = Site Specific
#/# = Active Criteria/Proposed Criteria

Appendix A: Limitations

1. The observations described in this Report were made under the conditions stated therein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by CTDOT. The work described in this report was carried out in accordance with the Terms and Conditions in our contract.

2. In preparing this report, Tetra Tech Rizzo, Inc. (Tetra Tech) has relied on certain information provided by state and local officials and other parties referenced therein, and on information contained in the files of state and/or local agencies available to Rizzo Associates at the time of the site assessment. Although there may have been some degree of overlap in the information provided by these various sources, Rizzo Associates did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this site assessment.

3. Observations were made of the Site and of structures on the Site as indicated within the report. Where access to portions of the Site or to structures on the Site was unavailable or limited, Tetra Tech renders no opinion as to the presence of hazardous materials or oil, or to the presence of indirect evidence relating to hazardous material or oil, in that portion of the Site or structure. In addition, Tetra Tech renders no opinion as to the presence of hazardous material or oil, or the presence of indirect evidence relating to hazardous material or oil, where direct observation of the interior walls, floor, or ceiling of a structure on a Site was obstructed by objects or coverings on or over these surfaces.

4. It is Tetra Techs understanding that the purpose of this report is to assess the physical characteristics of the subject Site with respect to the presence on the Site of hazardous material or oil. This stated purpose has been a significant factor in determining the scope and level of services provided for in the Agreement. Should the purpose for which the Report is to be used or the proposed use of the site(s) change, this Report is no longer valid and use of this Report by CTDOT or others without Tetra Techs review and written authorization shall be at the user's sole risk. Should Tetra Tech be required to review the Report after its date of submission, Tetra Tech shall be entitled to additional compensation at then existing rates or such other terms as agreed between Tetra Tech and the CTDOT.

5. The conclusions and recommendations contained in this report are based in part, where noted, upon the data obtained from a limited number of soil samples obtained from widely spaced subsurface explorations. The nature and extent of variations between these explorations may not become evident until further exploration. If variations or other latent conditions then appear evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

6. If water is encountered, any water level readings made in test pits, borings, and/or observation wells were made at the times and under the conditions stated on the report. However, it must be noted that fluctuations in the level of groundwater may occur due to variations in rainfall and other factors different from those prevailing at the time measurements were made.

7. Except as noted within the text of the report, no quantitative laboratory testing was performed as part of the site assessment. Where such analyses have been conducted by an outside laboratory, Tetra Tech has relied upon the data provided and has not conducted an independent evaluation of the reliability of these data.

8. The conclusions and recommendations contained in this report are based in part, where noted, upon various types of chemical data and are contingent upon their validity. These data have been reviewed and interpretations made in the report. As indicated within the report, some of these data may be preliminary screening level data and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, these data should be reviewed, and the conclusions and recommendations presented herein modified accordingly.

9. Chemical analyses have been performed for specific constituents during the course of this investigation, as described in the text. However, it should be noted that additional chemical constituents not searched for during the current study may be present in soil and/or groundwater at the Site.

10. This report was prepared for the exclusive use of the CTDOT. No other party is entitled to rely on the conclusions, observations, specifications, or data contained therein without the express written consent of Tetra Tech.

11. The observations and conclusions described in this report are based solely on the Scope of Services provided pursuant to the Agreement. Tetra Tech has not performed any additional observations, investigations, studies, or testing not specifically stated therein. Tetra Tech shall not be liable for the existence of any condition, the discovery of which required the performance of services not authorized under the Agreement.

12. The passage of time may result in significant changes in technology, economic conditions, or site variations that would render the Report inaccurate. Accordingly, neither the CTDOT, nor any other party, shall rely on the information or conclusions contained in this Report after six months from its date of submission without the express written consent of Tetra Tech Reliance on the report after such period of time shall be at the user's sole risk. Should Tetra Tech be required to review the Report after six months from its date of submission, Tetra Tech shall be entitled to additional compensation at then existing rates or such other terms as may be agreed upon between Tetra Tech and the CTDOT.

13. Tetra Tech has endeavored to perform its services based upon Tetra Tech practices accepted at the time they were performed. Tetra Tech makes no other representations, express or implied, regarding the information, data, analysis, calculations, and conclusions contained herein.

14. The services provided by Tetra Tech do not include legal advice. Legal counsel should be consulted regarding interpretation of applicable and relevant federal, state, and local statutes and regulations and other legal matters.

WELL NUMBER RSB-1

TETRA TECH RIZZO

CLIENT Connecticut Department of Transportation
PROJECT NAME Flatbush Avenue Task 210/220
PROJECT NUMBER 12701186
PROJECT LOCATION Flatbush Avenue, West Hartford and Hartford, CT
DATE STARTED 1/9/09 **COMPLETED** 1/9/09
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR Logical Environmental Solutions
GROUND WATER LEVELS:
DRILLING METHOD Direct Push (Geoprobe)
AT TIME OF DRILLING --
LOGGED BY Joe Perko **CHECKED BY** David T. Williams
AT END OF DRILLING --
NOTES
AFTER DRILLING --

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0					0.5 6" ASPHALT		
		65	SAMPLE: RSB-1 (3-6') 08:30 SUBMITTED		10" Dark brown to black, fine SAND; some silt; little large to small, subangular gravel, loose, dry, no odors 11" Brown to gray, fine, homogenous SAND, loose, wet at 3.5-feet, no staining, no odors 12" Brown to gray, fine SAND; some clay, loose, wet, moderate plasticity, trace black (likely organics)	ND	1" screened PVC pipe installed to 9' depth; Groundwater sample: RSB-1 (GW) 08:45 SUBMITTED
5		100			49" Same as above, saturated	ND	
					9.0 Sand and clay upwelling in the hole, decide to set 1" well and retrieve a groundwater sample rather than going deeper Bottom of hole at 9.0 feet.		

WELL NUMBER RSB-2

TETRA TECH RIZZO

CLIENT Connecticut Department of Transportation
PROJECT NAME Flatbush Avenue Task 210/220
PROJECT NUMBER 12701186
PROJECT LOCATION Flatbush Avenue, West Hartford and Hartford, CT
DATE STARTED 12/8/08 **COMPLETED** 12/8/08
GROUND ELEVATION ____ **HOLE SIZE** 2"
DRILLING CONTRACTOR New England Boring
GROUND WATER LEVELS:
DRILLING METHOD Direct Push (Geoprobe)
AT TIME OF DRILLING ---
LOGGED BY Patrick de Paula **CHECKED BY** Joe Perko
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0		63	SAMPLE: RSB-2 (1-4') 9:10 SUBMITTED		12" Brown, fine to coarse SAND; and fine to coarse, angular GRAVEL; dry, no staining, no odors 18" Brown, fine to coarse SAND; dry, no staining, faint hydrocarbon odor	ND	
5		50			24" Gray, fine SAND; and SILT; dry, no staining, no odor	ND	
10		100	SAMPLE: RSB-2 (8-12') 9:10 SUBMITTED		48" Gray, SILT; and CLAY; wet at 9-feet, no staining, no odor	ND	1" screened PVC pipe installed to 16' depth; Groundwater sample: RSB-2 (GW) 11:00 SUBMITTED
15		100			48" Gray CLAY; some SILT; wet, no staining, no odor	ND	
					16.0 Bottom of hole at 16.0 feet.		

WELL NUMBER RSB-3

TETRA TECH RIZZO

CLIENT Connecticut Department of Transportation
PROJECT NAME Flatbush Avenue Task 210/220
PROJECT NUMBER 12701186
PROJECT LOCATION Flatbush Avenue, West Hartford and Hartford, CT
DATE STARTED 12/5/08 **COMPLETED** 12/5/08
GROUND ELEVATION ____ **HOLE SIZE** 2"
DRILLING CONTRACTOR Logical Environmental Solutions
GROUND WATER LEVELS:
DRILLING METHOD Direct Push (Geoprobe)
AT TIME OF DRILLING ---
LOGGED BY Joe Perko **CHECKED BY** David T. Williams
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0					0.3 4" ASPHALT and SUB-BASE		
		60	SAMPLE: RSB-3 (3-7') 13:55 SUBMITTED		15" Reddish-brown, fine SAND; some silt; little large to small, angular to rounded gravel, loose, dry, no staining, no odors	36.5	
					17" Gray, fine SAND; trace clay, loose, moist to wet at 5-feet, strong hydrocarbon odor, little black staining		
5					25" Same as above (sand; trace clay)		
		88			28" Gray SAND trending to brown CLAY, highly plastic, hydrocarbon odor fades around 7-feet	7.3	1" screened PVC pipe installed to 15' depth; Groundwater sample: RSB-3 14:20 SUBMITTED
10					10.0 45" Same as above (gray clay)		
		75				ND	
15					15.0 Bottom of hole at 15.0 feet.		

TETRA TECH RIZZO

BORING NUMBER RSB-5

CLIENT Connecticut Department of Transportation
PROJECT NAME Flatbush Avenue Task 210/220
PROJECT NUMBER 12701186
PROJECT LOCATION Flatbush Avenue, West Hartford and Hartford, CT
DATE STARTED 12/8/08 **COMPLETED** 12/8/08
GROUND ELEVATION ____ **HOLE SIZE** 2"
DRILLING CONTRACTOR New England Boring
GROUND WATER LEVELS:
DRILLING METHOD Direct Push (Geoprobe)
AT TIME OF DRILLING ---
LOGGED BY Patrick de Paula **CHECKED BY** Joe Perko
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0		75	SAMPLE: RSB-5 (4-8') 9:40 SUBMITTED		24" Black, fine to coarse SAND; some fine to coarse, angular GRAVEL; dry, stained, no odors	ND
2.0					12" Red, fine to coarse SAND; dry, no staining, no odors	
4.0		100			48" Gray SILT; and CLAY; dry, no staining, no odors	ND
5						
8.0		88			42" Gray CLAY; some SILT; dry, no staining, no odors	ND
10						
12.0		100			48" Gray CLAY; trace CLAY; wet at 13-feet, no staining, no odor	ND
15						
16.0					Bottom of hole at 16.0 feet.	

TETRA TECH RIZZO

BORING NUMBER RSB-6

CLIENT Connecticut Department of Transportation
PROJECT NAME Flatbush Avenue Task 210/220
PROJECT NUMBER 12701186
PROJECT LOCATION Flatbush Avenue, West Hartford and Hartford, CT
DATE STARTED 12/5/08 **COMPLETED** 12/5/08
GROUND ELEVATION ____ **HOLE SIZE** 2"
DRILLING CONTRACTOR Logical Environmental Solutions
GROUND WATER LEVELS:
DRILLING METHOD Direct Push (Geoprobe)
AT TIME OF DRILLING ---
LOGGED BY Joe Perko **CHECKED BY** David T. Williams
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0					13" ASPHALT and SUB-BASE	
					1.0 9" Reddish-brown, fine SAND, SILT, and small, rounded GRAVEL, loose, dry, no staining, no odors	
		67			18" Gray trending to brown (in the bottom 4-inches), fine SAND, some bedding present, moist, no odors	ND
5					6" Fall-In	
			SAMPLE: RSB-6 (6-10') 09:35 SUBMITTED		22" Brown, fine, homogenous SAND, loose, wet at 6.5-feet, no staining, no odors	
		90			26" Gray, fine, homogenous SAND, loose, wet, no odors	ND
10					4" Fall-In	
					15" Brown, fine, homogenous SAND, loose, saturated, no staining, no odors	
		93			37" Gray, fine SAND; some clay, saturated, no odors	ND
15					15.0 Bottom of hole at 15.0 feet.	

TETRA TECH RIZZO

WELL NUMBER RSB-7

CLIENT Connecticut Department of Transportation
PROJECT NAME Flatbush Avenue Task 210/220
PROJECT NUMBER 12701186
PROJECT LOCATION Flatbush Avenue, West Hartford and Hartford, CT
DATE STARTED 1/9/09 **COMPLETED** 1/9/09
GROUND ELEVATION ____ **HOLE SIZE** 2"
DRILLING CONTRACTOR Logical Environmental Solutions
GROUND WATER LEVELS:
DRILLING METHOD Direct Push (Geoprobe)
AT TIME OF DRILLING ---
LOGGED BY Joe Perko **CHECKED BY** David T. Williams
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0		92	SAMPLE: RSB-7 (2-6') 10:00 SUBMITTED	0.5 / 1.8	5" Sandstone COBBLE 15" SUB-BASE 13" Grayish-brown, fine, homogenous SAND, loose, wet at 2.5-feet, no staining, no odors	ND	1" screened PVC pipe installed to 6' depth; Groundwater sample: RSB-7 (GW) 10:45 SUBMITTED
5		83		6.0	6" Fall-In 24" Brown, fine, homogenous SAND, loose to moderately dense, saturated, no staining, no odors Bottom of hole at 6.0 feet.	ND	

TETRA TECH RIZZO

BORING NUMBER RSB-8

CLIENT Connecticut Department of Transportation
PROJECT NAME Flatbush Avenue Task 210/220
PROJECT NUMBER 12701186
PROJECT LOCATION Flatbush Avenue, West Hartford and Hartford, CT
DATE STARTED 1/9/09 **COMPLETED** 1/9/09
GROUND ELEVATION ____ **HOLE SIZE** 2"
DRILLING CONTRACTOR Logical Environmental Solutions
GROUND WATER LEVELS:
DRILLING METHOD Direct Push (Geoprobe)
AT TIME OF DRILLING ---
LOGGED BY Joe Perko **CHECKED BY** David T. Williams
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0		92	SAMPLE: RSB-8 (1-4') 09:20 SUBMITTED		5" Sandstone COBBLE 12" Brown, medium to coarse grained SAND; little small, subangular gravel, loose, dry, no staining, no odors 5" Reddish-brown, medium grained SAND; little small and rounded gravel, loose, washed, no staining, no odors 11" Grayish-brown, fine, homogenous SAND, loose, very moist, washed, no staining, no odors	ND
5		83			30" Same as above, wet at 3-feet	ND
					6.0 Bottom of hole at 6.0 feet.	

TETRA TECH RIZZO

WELL NUMBER RSB-10

CLIENT Connecticut Department of Transportation
PROJECT NAME Flatbush Avenue Task 210/220
PROJECT NUMBER 12701186
PROJECT LOCATION Flatbush Avenue, West Hartford and Hartford, CT
DATE STARTED 12/5/08 **COMPLETED** 12/5/08
GROUND ELEVATION ____ **HOLE SIZE** 2"
DRILLING CONTRACTOR Logical Environmental Solutions
GROUND WATER LEVELS:
DRILLING METHOD Direct Push (Geoprobe)
AT TIME OF DRILLING ---
LOGGED BY Joe Perko **CHECKED BY** David T. Williams
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0					6" TOPSOIL (0.5)		
		88	SAMPLE: RSB-10 (3-5') 13:00 SUBMITTED		20" Brown, fine SAND; some silt; little large to small, angular to rounded gravel, asphalt pieces present, loose, dry, no staining, no odors (2.5)	107	
					16" Gray CLAY, highly plastic, wet at 3.5-feet, strong hydrocarbon odor and black staining		1" screened PVC pipe installed to 6' depth; Groundwater sample: RSB-10 (GW) 13:15 SUBMITTED
5		100			4" Fall-In 20" Same as above (clay) (6.0)	SAA	
					Bottom of hole at 6.0 feet.		

WELL NUMBER RSB-12

TETRA TECH RIZZO

CLIENT Connecticut Department of Transportation
PROJECT NAME Flatbush Avenue Task 210/220
PROJECT NUMBER 12701186
PROJECT LOCATION Flatbush Avenue, West Hartford and Hartford, CT
DATE STARTED 12/5/08 **COMPLETED** 12/5/08
GROUND ELEVATION ____ **HOLE SIZE** 2"
DRILLING CONTRACTOR Logical Environmental Solutions
GROUND WATER LEVELS:
DRILLING METHOD Direct Push (Geoprobe)
AT TIME OF DRILLING ---
LOGGED BY Joe Perko **CHECKED BY** David T. Williams
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0					0.5 5" TOPSOIL		
		65			25" Reddish-brown, sandstone BOULDER; some fine sand, loose, dry, no staining, no odors	ND	1" screened PVC pipe installed to 6' depth; Groundwater sample: RSB-12 (GW) 12:00 SUBMITTED
					3.8 1" Gray CLAY, highly plastic, moist, decay odor		
5		100	SAMPLE: RSB-12 (4-6') 11:35 SUBMITTED		24" Gray CLAY, highly plastic, wet at 4-feet, slight decay odor	ND	
					6.0 Bottom of hole at 6.0 feet.		

WELL NUMBER RSB-13

TETRA TECH RIZZO

CLIENT Connecticut Department of Transportation
PROJECT NAME Flatbush Avenue Task 210/220
PROJECT NUMBER 12701186
PROJECT LOCATION Flatbush Avenue, West Hartford and Hartford, CT
DATE STARTED 12/5/08 **COMPLETED** 12/5/08
GROUND ELEVATION ____ **HOLE SIZE** 2"
DRILLING CONTRACTOR Logical Environmental Solutions
GROUND WATER LEVELS:
DRILLING METHOD Direct Push (Geoprobe)
AT TIME OF DRILLING ---
LOGGED BY Joe Perko **CHECKED BY** David T. Williams
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0		67	SAMPLE: RSB-13 (2-6') 10:30 SUBMITTED	0.3 / 0.5	4" TOPSOIL 4" ASPHALT 9" Reddish-brown, fine SAND, SILT, and large to small, angular to rounded GRAVEL, moderately dense, moist, no staining, no odors 15" Black, fine SAND; little large to small, angular to rounded gravel, loose, wet at 3-feet, slight decay odor	ND	1" screened PVC pipe installed to 6' depth; Groundwater sample: RSB-13 (GW) 10:40 SUBMITTED
5		33		6.0	8" Same as above, saturated Bottom of hole at 6.0 feet.	ND	

TETRA TECH RIZZO

BORING NUMBER RSB-14

CLIENT Connecticut Department of Transportation
PROJECT NAME Flatbush Avenue Task 210/220
PROJECT NUMBER 12701186
PROJECT LOCATION Flatbush Avenue, West Hartford and Hartford, CT
DATE STARTED 12/5/08 **COMPLETED** 12/5/08
GROUND ELEVATION ____ **HOLE SIZE** 2"
DRILLING CONTRACTOR Logical Environmental Solutions
GROUND WATER LEVELS:
DRILLING METHOD Direct Push (Geoprobe)
AT TIME OF DRILLING ---
LOGGED BY Joe Perko **CHECKED BY** David T. Williams
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0					6" TOPSOIL (0.5)	
		75	SAMPLE: RSB-14 (1-4') 10:00 SUBMITTED		20" Reddish-brown, fine SAND, SILT, and medium to small, rounded GRAVEL, moderately dense, moist, no staining, no odors	ND
					10" Black, fine SAND, loose, moist, slight organics odor (4.0)	
					Bottom of hole at 4.0 feet.	

TETRA TECH RIZZO

BORING NUMBER RSB-15

CLIENT Connecticut Department of Transportation
PROJECT NAME Flatbush Avenue Task 210/220
PROJECT NUMBER 12701186
PROJECT LOCATION Flatbush Avenue, West Hartford and Hartford, CT
DATE STARTED 12/5/08 **COMPLETED** 12/5/08
GROUND ELEVATION ____ **HOLE SIZE** 2"
DRILLING CONTRACTOR Logical Environmental Solutions
GROUND WATER LEVELS:
DRILLING METHOD Direct Push (Geoprobe)
AT TIME OF DRILLING ---
LOGGED BY Joe Perko **CHECKED BY** David T. Williams
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0					0.3 3" ASPHALT	
		75	SAMPLE: RSB-15 (1-4') 11:00 SUBMITTED		33" Reddish-brown to black, fine SAND; some silt; little large to small, angular to rounded gravel, moderately dense, moist, no staining, no odors	ND
					4.0 Bottom of hole at 4.0 feet.	

TETRA TECH RIZZO

BORING NUMBER RSB-17

CLIENT Connecticut Department of Transportation
PROJECT NAME Flatbush Avenue Task 210/220
PROJECT NUMBER 12701186
PROJECT LOCATION Flatbush Avenue, West Hartford and Hartford, CT
DATE STARTED 12/5/08 **COMPLETED** 12/5/08
GROUND ELEVATION ____ **HOLE SIZE** 2"
DRILLING CONTRACTOR Logical Environmental Solutions
GROUND WATER LEVELS:
DRILLING METHOD Direct Push (Geoprobe)
AT TIME OF DRILLING ---
LOGGED BY Joe Perko **CHECKED BY** David T. Williams
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0						
			SAMPLE: RSB-17 (1-4') 12:45 SUBMITTED		0.5 6" TOPSOIL	
					10" Reddish-brown, coarse SAND; some large to small, rounded gravel, loose, moist, no staining, no odors	
		79			2.0 22" Gray CLAY, highly plastic, moist, slight decay odor	ND
					4.0 Bottom of hole at 4.0 feet.	

TETRA TECH RIZZO

BORING NUMBER RSB-19

CLIENT Connecticut Department of Transportation
PROJECT NAME Flatbush Avenue Task 210/220
PROJECT NUMBER 12701186
PROJECT LOCATION Flatbush Avenue, West Hartford and Hartford, CT
DATE STARTED 12/5/08 **COMPLETED** 12/5/08
GROUND ELEVATION ____ **HOLE SIZE** 2"
DRILLING CONTRACTOR Logical Environmental Solutions
GROUND WATER LEVELS:
DRILLING METHOD Direct Push (Geoprobe)
AT TIME OF DRILLING ---
LOGGED BY Joe Perko **CHECKED BY** David T. Williams
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0						
		67	SAMPLE: RSB-19 (1-4') 13:45 SUBMITTED		0.5 6" TOPSOIL 16" Reddish-brown, coarse SAND and small, rounded GRAVEL, loose, moist, no staining, no odors 14" Gray, fine SAND; trace clay, loose, very moist to wet at 4-feet, strong hydrocarbon odor 4.0	141
					Bottom of hole at 4.0 feet.	

TETRA TECH RIZZO

BORING NUMBER RSB-20

CLIENT Connecticut Department of Transportation
PROJECT NAME Flatbush Avenue Task 210/220
PROJECT NUMBER 12701186
PROJECT LOCATION Flatbush Avenue, West Hartford and Hartford, CT
DATE STARTED 1/9/09 **COMPLETED** 1/9/09
GROUND ELEVATION **HOLE SIZE** 2"
DRILLING CONTRACTOR Logical Environmental Solutions
GROUND WATER LEVELS:
DRILLING METHOD Direct Push (Geoprobe)
AT TIME OF DRILLING ---
LOGGED BY Joe Perko **CHECKED BY** David T. Williams
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0					0.5 6" Sandstone COBBLE	
					11" SUB-BASE	
					1.5	
		90	SAMPLE: RSB-20 (2-4') 09:40 SUBMITTED		26" Brown, fine, homogenous SAND, loose, moist to wet at 3.5-feet, no staining, no odors	ND
					4.0	
					Bottom of hole at 4.0 feet.	

Report Date:
22-Dec-08 14:30

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Tetra Tech Rizzo
150 Trumbull Street, 4th Floor
Hartford, CT 06103-2428
Attn: Joseph Perko

Project: Conn Dot Flatbush Ave-Hartford, CT
Project 12701186

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA88527-01	RSB-6 (6-10')	Soil	05-Dec-08 09:35	08-Dec-08 16:00
SA88527-02	RSB-14 (1-4')	Soil	05-Dec-08 10:00	08-Dec-08 16:00
SA88527-03	RSB-13 (2-6')	Soil	05-Dec-08 10:30	08-Dec-08 16:00
SA88527-04	RSB-13 (GW)	Ground Water	05-Dec-08 10:40	08-Dec-08 16:00
SA88527-05	RSB-15 (1-4')	Soil	05-Dec-08 11:00	08-Dec-08 16:00
SA88527-06	RSB-12 (4-6')	Soil	05-Dec-08 11:35	08-Dec-08 16:00
SA88527-07	RSB-12 (GW)	Ground Water	05-Dec-08 12:00	08-Dec-08 16:00
SA88527-08	RSB-17 (1-4')	Soil	05-Dec-08 12:45	08-Dec-08 16:00
SA88527-09	RSB-10 (3-5')	Soil	05-Dec-08 13:00	08-Dec-08 16:00
SA88527-10	RSB-10 (GW)	Ground Water	05-Dec-08 13:15	08-Dec-08 16:00
SA88527-11	RSB-19 (1-4')	Soil	05-Dec-08 13:45	08-Dec-08 16:00
SA88527-12	RSB-3 (3-7')	Soil	05-Dec-08 13:55	08-Dec-08 16:00
SA88527-13	RSB-3 (GW)	Ground Water	05-Dec-08 14:20	08-Dec-08 16:00
SA88527-14	Trip Blank	Aqueous	05-Dec-08 14:30	08-Dec-08 16:00

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
Vermont # VT-11393

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

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 110 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supercedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report is available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

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CASE NARRATIVE:

The samples were received 6.1 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.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "BRL" (Below the Reporting Limit) in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

According to CTDEP RCP Quality Assurance and Quality Control Requirements for VOCs by method 8260, SW-846 version 1, 7/28/05 Table 1A, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended 70%-130% recovery range, a range has been set based on historical control limits.

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

SW846 1312

Samples:

SA88527-04 *RSB-13 (GW)*

no dup due to limited volume

SPLP Extraction

SA88527-13 *RSB-3 (GW)*

LNo Dup due to limited volume

SPLP Extraction

SW846 1312/6010B

Duplicates:

8120956-DUP1 *Source: SA88527-03*

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.

Lead

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.

Barium

SW846 1312/6010B

Samples:

SA88527-04 *RSB-13 (GW)*

Analyte concentration confirmed by duplicate analysis.

Barium

SW846 6010B

Spikes:

8121049-MSD1 *Source: SA88527-07*

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for batch duplicate.

Silver

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

Silver

Samples:

SA88527-04 *RSB-13 (GW)*

Analyte concentration confirmed by duplicate analysis.

Barium

SW846 8151A

SW846 8151A

Samples:

S815002-CCV2

The response for the confirmation column was out of acceptance limits. The primary column was used for all data. Samples were BDL.

MCPA [2C]
MCPB [2C]

S815002-CCV4

The response for the confirmation column was out of acceptance limits. The primary column was used for all data. Samples were BDL.

MCPA [2C]
MCPB [2C]

S815159-CCV2

The response for the confirmation column was out of acceptance limits. The primary column was used for all data. Samples were BDL.

MCPA [2C]
MCPB [2C]

S815159-CCV4

The response for the confirmation column was out of acceptance limits. The primary column was used for all data. Samples were BDL.

MCPA [2C]
MCPB [2C]

S815159-CCV6

The response for the confirmation column was out of acceptance limits. The primary column was used for all data. Samples were BDL.

MCPA [2C]
MCPB [2C]

SW846 8260B

SW846 8260B

Laboratory Control Samples:

8120780-BS1

Analyte out of acceptance range.

Chloromethane
Tert-Butanol / butyl alcohol

8120780-BSD1

Analyte out of acceptance range.

Ethanol

8120869-BS1

Analyte out of acceptance range.

2-Hexanone (MBK)

8120869-BSD1

Analyte out of acceptance range.

Chloromethane
Ethanol
Tert-Butanol / butyl alcohol
Tetrahydrofuran

8121427-BSD1

Analyte out of acceptance range.

Vinyl chloride

Spikes:

8121090-MSD1 *Source: SA88564-22*

Matrix spike duplicate failed the 12 hour time window.

8121427-MS1 *Source: SA88882-01*

MS/MSD failed 12 hour window.

8121427-MSD1 *Source: SA88882-01*

MS/MSD failed 12 hour window.

Samples:

SA88527-02 *RSB-14 (1-4')*

The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.

SA88527-03 *RSB-13 (2-6')*

The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.

SA88527-11 *RSB-19 (1-4')*

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

SW846 8270C

Samples:

SA88527-11 *RSB-19 (1-4')*

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

2-Fluorobiphenyl
Terphenyl-dl4

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-6 (6-10') SA88527-01	12701186	Soil	05-Dec-08 09:35	08-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	08-Dec-08	08-Dec-08	8120741	
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 5.71 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	7.4	1	SW846 8260B	09-Dec-08	10-Dec-08	8120780	X
67-64-1	Acetone	BRL		µg/kg dry	73.8	1	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/kg dry	7.4	1	"	"	"	"	X
71-43-2	Benzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
74-97-5	Bromochloromethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/kg dry	7.4	1	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/kg dry	14.8	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	73.8	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/kg dry	36.9	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	7.4	1	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/kg dry	14.8	1	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg dry	7.4	1	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg dry	14.8	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	14.8	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	7.4	1	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	14.8	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	73.8	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	7.4	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	73.8	1	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg dry	73.8	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	7.4	1	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-6 (6-10') SA88527-01	12701186	Soil	05-Dec-08 09:35	08-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 5.71 g						
103-65-1	n-Propylbenzene	BRL		µg/kg dry	7.4	1	SW846 8260B	09-Dec-08	10-Dec-08	8120780	X
100-42-5	Styrene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	7.4	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/kg dry	7.4	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	14.8	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	73.8	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	7.4	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	7.4	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	7.4	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	7.4	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	73.8	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg dry	148	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	36.9	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/kg dry	2950	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*89*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*91*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*130*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*107*		*70-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
PAHs by SW846 8270C											
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	174	1	SW846 8270C	12-Dec-08	17-Dec-08	8121067	X
208-96-8	Acenaphthylene	BRL		µg/kg dry	174	1	"	"	"	"	X
120-12-7	Anthracene	BRL		µg/kg dry	174	1	"	"	"	"	X
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	174	1	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	174	1	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	174	1	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	174	1	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	174	1	"	"	"	"	X
218-01-9	Chrysene	BRL		µg/kg dry	174	1	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	174	1	"	"	"	"	X
206-44-0	Fluoranthene	BRL		µg/kg dry	174	1	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/kg dry	174	1	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	174	1	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	174	1	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-6 (6-10') SA88527-01	12701186	Soil	05-Dec-08 09:35	08-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS											
PAHs by SW846 8270C											
Prepared by method SW846 3550B											
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	174	1	SW846 8270C	12-Dec-08	17-Dec-08	8121067	X
91-20-3	Naphthalene	BRL		µg/kg dry	174	1	"	"	"	"	X
85-01-8	Phenanthrene	BRL		µg/kg dry	174	1	"	"	"	"	X
129-00-0	Pyrene	BRL		µg/kg dry	174	1	"	"	"	"	X
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*75*		*30-130 %*			"	"	"	"	
1718-51-0	*Terphenyl-d14*	*81*		*30-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3545A											
12674-11-2	PCB 1016	BRL		µg/kg dry	26.3	1	SW846 8082	12-Dec-08	14-Dec-08	8121072	X
11104-28-2	PCB 1221	BRL		µg/kg dry	26.3	1	"	"	"	"	X
11141-16-5	PCB 1232	BRL		µg/kg dry	26.3	1	"	"	"	"	X
53469-21-9	PCB 1242	BRL		µg/kg dry	26.3	1	"	"	"	"	X
12672-29-6	PCB 1248	BRL		µg/kg dry	26.3	1	"	"	"	"	X
11097-69-1	PCB 1254	BRL		µg/kg dry	26.3	1	"	"	"	"	X
11096-82-5	PCB 1260	BRL		µg/kg dry	26.3	1	"	"	"	"	X
37324-23-5	PCB 1262	BRL		µg/kg dry	26.3	1	"	"	"	"	X
11100-14-4	PCB 1268	BRL		µg/kg dry	26.3	1	"	"	"	"	X
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*		*30-150 %*			"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*117*		*30-150 %*			"	"	"	"	
Chlorinated Herbicides by SW846 8151A											
Prepared by method SW846 3550B											
93-76-5	2,4,5-T	BRL		µg/kg dry	6.70	1	SW846 8151A	12-Dec-08	16-Dec-08	8121073	X
93-72-1	2,4,5-TP (Silvex)	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-75-7	2,4-D	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-82-6	2,4-DB	BRL		µg/kg dry	6.70	1	"	"	"	"	X
75-99-0	Dalapon	BRL		µg/kg dry	6.70	1	"	"	"	"	X
1918-00-9	Dicamba	BRL		µg/kg dry	6.70	1	"	"	"	"	X
120-36-5	Dichlorprop	BRL		µg/kg dry	6.70	1	"	"	"	"	X
88-85-7	Dinoseb	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-74-6	MCPA	BRL		µg/kg dry	670	1	"	"	"	"	X
94-81-5	MCPB	BRL		µg/kg dry	670	1	"	"	"	"	
93-65-2	MCPP	BRL		µg/kg dry	670	1	"	"	"	"	X
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*88*		*30-150 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	34.9	1	+CT ETPH	12-Dec-08	15-Dec-08	8121068	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	34.9	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	34.9	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	34.9	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	34.9	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	34.9	1	"	"	"	"	
	Unidentified	BRL		mg/kg dry	34.9	1	"	"	"	"	
	Other Oil	BRL		mg/kg dry	34.9	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	34.9	1	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-6 (6-10') SA88527-01	12701186	Soil	05-Dec-08 09:35	08-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	34.9	1	+CT ETPH	12-Dec-08	15-Dec-08	8121068	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*88*		*50-150 %*			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.73	1	SW846 6010B	12-Dec-08	16-Dec-08	8120894	X
7440-38-2	Arsenic	2.26		mg/kg dry	1.73	1	"	"	"	"	X
7440-39-3	Barium	132		mg/kg dry	1.15	1	"	"	"	"	X
7440-43-9	Cadmium	1.25		mg/kg dry	0.577	1	"	"	"	"	X
7440-47-3	Chromium	30.5		mg/kg dry	1.15	1	"	"	"	"	X
7439-97-6	Mercury	BRL		mg/kg dry	0.0377	1	SW846 7471A	"	15-Dec-08	8120895	X
7439-92-1	Lead	8.85		mg/kg dry	1.73	1	SW846 6010B	"	16-Dec-08	8120894	X
7782-49-2	Selenium	BRL		mg/kg dry	1.73	1	"	"	16-Dec-08	"	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods											
	SPLP Extraction	Completed		N/A		1	SW846 1312	10-Dec-08	10-Dec-08	8120947	
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1312/6010B	15-Dec-08	16-Dec-08	8120956	
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	
7440-39-3	Barium	0.0428		mg/l	0.0100	1	"	"	"	"	
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1312/7470A	"	15-Dec-08	8120957	
7439-92-1	Lead	BRL		mg/l	0.0150	1	SW846 1312/6010B	"	16-Dec-08	8120956	
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	
General Chemistry Parameters											
	% Solids	75.8		%		1	SM2540 G Mod.	11-Dec-08	11-Dec-08	8120995	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-14 (1-4') SA88527-02	12701186	Soil	05-Dec-08 10:00	08-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	08-Dec-08	08-Dec-08	8120741	
Volatile Organic Compounds			VC10								
Prepared by method SW846 5035A Soil (low level)					Initial weight: 6.3 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	4.7	1	SW846 8260B	09-Dec-08	10-Dec-08	8120780	X
67-64-1	Acetone	BRL		µg/kg dry	47.4	1	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/kg dry	4.7	1	"	"	"	"	X
71-43-2	Benzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BRL		µg/kg dry	4.7	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/kg dry	4.7	1	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/kg dry	4.7	1	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/kg dry	9.5	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	47.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/kg dry	23.7	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	4.7	1	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/kg dry	9.5	1	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg dry	4.7	1	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg dry	9.5	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	9.5	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/kg dry	4.7	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	4.7	1	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/kg dry	4.7	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	9.5	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	4.7	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	4.7	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	4.7	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	4.7	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	4.7	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	47.4	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	4.7	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	47.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg dry	47.4	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	4.7	1	"	"	"	"	X

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-14 (1-4') SA88527-02	12701186	Soil	05-Dec-08 10:00	08-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
Volatile Organic Compounds			VC10								
Prepared by method SW846 5035A Soil (low level)						Initial weight: 6.3 g					
103-65-1	n-Propylbenzene	BRL		µg/kg dry	4.7	1	SW846 8260B	09-Dec-08	10-Dec-08	8120780	X
100-42-5	Styrene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	4.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	4.7	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	4.7	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	4.7	1	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	4.7	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	4.7	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/kg dry	4.7	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	9.5	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	47.4	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	4.7	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	4.7	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	4.7	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	4.7	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	47.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg dry	94.8	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	23.7	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/kg dry	1900	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*86*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*92*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*118*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*107*		*70-130 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	27.6	1	+CT ETPH	12-Dec-08	15-Dec-08	8121068	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	27.6	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	27.6	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	27.6	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	27.6	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	27.6	1	"	"	"	"	
	Unidentified	BRL		mg/kg dry	27.6	1	"	"	"	"	
	Other Oil	BRL		mg/kg dry	27.6	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	27.6	1	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	27.6	1	"	"	"	"	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*81*		*50-150 %*			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-14 (1-4') SA88527-02	12701186	Soil	05-Dec-08 10:00	08-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.54	1	SW846 6010B	12-Dec-08	16-Dec-08	8120894	X
7440-38-2	Arsenic	1.57		mg/kg dry	1.54	1	"	"	"	"	X
7440-39-3	Barium	26.5		mg/kg dry	1.02	1	"	"	"	"	X
7440-43-9	Cadmium	0.533		mg/kg dry	0.512	1	"	"	"	"	X
7440-47-3	Chromium	12.0		mg/kg dry	1.02	1	"	"	"	"	X
7439-97-6	Mercury	BRL		mg/kg dry	0.0312	1	SW846 7471A	"	15-Dec-08	8120895	X
7439-92-1	Lead	12.6		mg/kg dry	1.54	1	SW846 6010B	"	16-Dec-08	8120894	X
7782-49-2	Selenium	BRL		mg/kg dry	1.54	1	"	"	16-Dec-08	"	X
General Chemistry Parameters											
	% Solids	92.1		%		1	SM2540 G Mod.	11-Dec-08	11-Dec-08	8120995	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-13 (2-6') SA88527-03	12701186	Soil	05-Dec-08 10:30	08-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	08-Dec-08	08-Dec-08	8120741	
Volatile Organic Compounds			VC10								
Prepared by method SW846 5035A Soil (low level)					Initial weight: 9.98 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	3.7	1	SW846 8260B	10-Dec-08	10-Dec-08	8120869	X
67-64-1	Acetone	BRL		µg/kg dry	36.8	1	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/kg dry	3.7	1	"	"	"	"	X
71-43-2	Benzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BRL		µg/kg dry	3.7	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/kg dry	3.7	1	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/kg dry	3.7	1	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	36.8	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/kg dry	18.4	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	3.7	1	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg dry	3.7	1	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/kg dry	3.7	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	3.7	1	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/kg dry	3.7	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	7.4	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	3.7	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	3.7	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	3.7	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	3.7	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	3.7	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	36.8	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	3.7	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	36.8	1	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg dry	36.8	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	3.7	1	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-13 (2-6') SA88527-03	12701186	Soil	05-Dec-08 10:30	08-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
Volatile Organic Compounds			VC10								
Prepared by method SW846 5035A Soil (low level)					Initial weight: 9.98 g						
103-65-1	n-Propylbenzene	BRL		µg/kg dry	3.7	1	SW846 8260B	10-Dec-08	10-Dec-08	8120869	X
100-42-5	Styrene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	3.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	3.7	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	3.7	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	3.7	1	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	3.7	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	3.7	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/kg dry	3.7	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	36.8	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	3.7	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	3.7	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	3.7	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	3.7	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	36.8	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg dry	73.6	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	18.4	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/kg dry	1470	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*88*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*93*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*122*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*110*		*70-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
PAHs by SW846 8270C											
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	151	1	SW846 8270C	12-Dec-08	12-Dec-08	8121067	X
208-96-8	Acenaphthylene	BRL		µg/kg dry	151	1	"	"	"	"	X
120-12-7	Anthracene	BRL		µg/kg dry	151	1	"	"	"	"	X
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	151	1	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	151	1	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	151	1	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	151	1	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	151	1	"	"	"	"	X
218-01-9	Chrysene	BRL		µg/kg dry	151	1	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	151	1	"	"	"	"	X
206-44-0	Fluoranthene	BRL		µg/kg dry	151	1	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/kg dry	151	1	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	151	1	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	151	1	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-13 (2-6') SA88527-03	12701186	Soil	05-Dec-08 10:30	08-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Semivolatile Organic Compounds by GCMS											
PAHs by SW846 8270C											
Prepared by method SW846 3550B											
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	151	1	SW846 8270C	12-Dec-08	12-Dec-08	8121067	X
91-20-3	Naphthalene	BRL		µg/kg dry	151	1	"	"	"	"	X
85-01-8	Phenanthrene	BRL		µg/kg dry	151	1	"	"	"	"	X
129-00-0	Pyrene	BRL		µg/kg dry	151	1	"	"	"	"	X
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*78*		*30-130 %*			"	"	"	"	
1718-51-0	*Terphenyl-d14*	*85*		*30-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3545A											
12674-11-2	PCB 1016	BRL		µg/kg dry	21.9	1	SW846 8082	12-Dec-08	14-Dec-08	8121072	X
11104-28-2	PCB 1221	BRL		µg/kg dry	21.9	1	"	"	"	"	X
11141-16-5	PCB 1232	BRL		µg/kg dry	21.9	1	"	"	"	"	X
53469-21-9	PCB 1242	BRL		µg/kg dry	21.9	1	"	"	"	"	X
12672-29-6	PCB 1248	BRL		µg/kg dry	21.9	1	"	"	"	"	X
11097-69-1	PCB 1254	BRL		µg/kg dry	21.9	1	"	"	"	"	X
11096-82-5	PCB 1260	BRL		µg/kg dry	21.9	1	"	"	"	"	X
37324-23-5	PCB 1262	BRL		µg/kg dry	21.9	1	"	"	"	"	X
11100-14-4	PCB 1268	BRL		µg/kg dry	21.9	1	"	"	"	"	X
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*87*		*30-150 %*			"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*		*30-150 %*			"	"	"	"	
Chlorinated Herbicides by SW846 8151A											
Prepared by method SW846 3550B											
93-76-5	2,4,5-T	BRL		µg/kg dry	6.70	1	SW846 8151A	12-Dec-08	16-Dec-08	8121073	X
93-72-1	2,4,5-TP (Silvex)	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-75-7	2,4-D	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-82-6	2,4-DB	BRL		µg/kg dry	6.70	1	"	"	"	"	X
75-99-0	Dalapon	BRL		µg/kg dry	6.70	1	"	"	"	"	X
1918-00-9	Dicamba	BRL		µg/kg dry	6.70	1	"	"	"	"	X
120-36-5	Dichlorprop	BRL		µg/kg dry	6.70	1	"	"	"	"	X
88-85-7	Dinoseb	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-74-6	MCPA	BRL		µg/kg dry	670	1	"	"	"	"	X
94-81-5	MCPB	BRL		µg/kg dry	670	1	"	"	"	"	
93-65-2	MCPP	BRL		µg/kg dry	670	1	"	"	"	"	X
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*72*		*30-150 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	30.3	1	+CT ETPH	12-Dec-08	15-Dec-08	8121068	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	30.3	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	30.3	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	30.3	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	30.3	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	30.3	1	"	"	"	"	
	Unidentified	BRL		mg/kg dry	30.3	1	"	"	"	"	
	Other Oil	BRL		mg/kg dry	30.3	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	30.3	1	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-13 (2-6') SA88527-03	12701186	Soil	05-Dec-08 10:30	08-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	30.3	1	+CT ETPH	12-Dec-08	15-Dec-08	8121068	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*92*		*50-150 %*			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.51	1	SW846 6010B	12-Dec-08	16-Dec-08	8120894	X
7440-38-2	Arsenic	8.74		mg/kg dry	1.51	1	"	"	"	"	X
7440-39-3	Barium	85.9		mg/kg dry	1.00	1	"	"	"	"	X
7440-43-9	Cadmium	1.19		mg/kg dry	0.502	1	"	"	"	"	X
7440-47-3	Chromium	21.4		mg/kg dry	1.00	1	"	"	"	"	X
7439-97-6	Mercury	0.0384		mg/kg dry	0.0331	1	SW846 7471A	"	15-Dec-08	8120895	X
7439-92-1	Lead	29.6		mg/kg dry	1.51	1	SW846 6010B	"	16-Dec-08	8120894	X
7782-49-2	Selenium	BRL		mg/kg dry	1.51	1	"	"	16-Dec-08	"	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods											
	SPLP Extraction	Completed		N/A		1	SW846 1312	10-Dec-08	10-Dec-08	8120947	
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1312/6010B	15-Dec-08	16-Dec-08	8120956	
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	
7440-39-3	Barium	0.0397		mg/l	0.0100	1	"	"	"	"	
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1312/7470A	"	15-Dec-08	8120957	
7439-92-1	Lead	0.0191		mg/l	0.0150	1	SW846 1312/6010B	"	16-Dec-08	8120956	
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	
General Chemistry Parameters											
	% Solids	86.5		%		1	SM2540 G Mod.	11-Dec-08	11-Dec-08	8120995	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-13 (GW) SA88527-04	12701186	Ground Water	05-Dec-08 10:40	08-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5030 Water MS											
76-13-1	1,1,2-Trichlorotrifluoroethane (Freo	BRL		µg/l	1.0	1	SW846 8260B	12-Dec-08	12-Dec-08	8121090	X
	113)										
67-64-1	Acetone	BRL		µg/l	10.0	1	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/l	0.5	1	"	"	"	"	X
71-43-2	Benzene	BRL		µg/l	1.0	1	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/l	1.0	1	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/l	1.0	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/l	0.5	1	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/l	1.0	1	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/l	2.0	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/l	10.0	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/l	5.0	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/l	1.0	1	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/l	2.0	1	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/l	1.0	1	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/l	2.0	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/l	1.0	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/l	1.0	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/l	0.5	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/l	10.0	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0	1	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/l	5.0	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-13 (GW) SA88527-04	12701186	Ground Water	05-Dec-08 10:40	08-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5030 Water MS											
100-42-5	Styrene	BRL		µg/l	1.0	1	SW846 8260B	12-Dec-08	12-Dec-08	8121090	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/l	1.0	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/l	10.0	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/l	1.0	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	10.0	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/l	20.0	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0	1	"	"	"	"	X
64-17-5	Ethanol	BRL		µg/l	400	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*	*102*		*70-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
SVOCs by SW846 8270C SIM											
Prepared by method SW846 3510C											
83-32-9	Acenaphthene	BRL		µg/l	0.050	1	SW846 8270C/EPA 625 SIM	10-Dec-08	16-Dec-08	8120859	X
208-96-8	Acenaphthylene	BRL		µg/l	0.050	1	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/l	0.050	1	"	"	"	"	
120-12-7	Anthracene	BRL		µg/l	0.050	1	"	"	"	"	X
56-55-3	Benzo (a) anthracene	BRL		µg/l	0.050	1	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BRL		µg/l	0.050	1	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BRL		µg/l	0.050	1	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/l	0.050	1	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BRL		µg/l	0.050	1	"	"	"	"	X
218-01-9	Chrysene	BRL		µg/l	0.050	1	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/l	0.050	1	"	"	"	"	X
206-44-0	Fluoranthene	BRL		µg/l	0.050	1	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/l	0.050	1	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/l	0.050	1	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-13 (GW) SA88527-04	12701186	Ground Water	05-Dec-08 10:40	08-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Semivolatile Organic Compounds by GCMS											
SVOCs by SW846 8270C SIM											
Prepared by method SW846 3510C											
91-57-6	2-Methylnaphthalene	BRL		µg/l	0.050	1	SW846 8270C/EPA 625 SIM	10-Dec-08	16-Dec-08	8120859	
91-20-3	Naphthalene	BRL		µg/l	0.050	1	"	"	"	"	X
85-01-8	Phenanthrene	BRL		µg/l	0.050	1	"	"	"	"	X
129-00-0	Pyrene	BRL		µg/l	0.050	1	"	"	"	"	X
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*73*		*30-130 %*			"	"	"	"	
1718-51-0	*Terphenyl-d14*	*88*		*30-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3510C											
12674-11-2	PCB 1016	BRL		µg/l	0.426	1	SW846 8082	10-Dec-08	16-Dec-08	8120858	X
11104-28-2	PCB 1221	BRL		µg/l	0.426	1	"	"	"	"	X
11141-16-5	PCB 1232	BRL		µg/l	0.426	1	"	"	"	"	X
53469-21-9	PCB 1242	BRL		µg/l	0.426	1	"	"	"	"	X
12672-29-6	PCB 1248	BRL		µg/l	0.426	1	"	"	"	"	X
11097-69-1	PCB 1254	BRL		µg/l	0.426	1	"	"	"	"	X
11096-82-5	PCB 1260	BRL		µg/l	0.426	1	"	"	"	"	X
37324-23-5	PCB 1262	BRL		µg/l	0.426	1	"	"	"	"	X
11100-14-4	PCB 1268	BRL		µg/l	0.426	1	"	"	"	"	X
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*68*		*30-150 %*			"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*		*30-150 %*			"	"	"	"	
Chlorinated Herbicides by SW846 8151A											
Prepared by method SW846 3510C											
93-76-5	2,4,5-T	BRL		µg/l	0.100	1	SW846 8151A	11-Dec-08	11-Dec-08	8120971	X
93-72-1	2,4,5-TP (Silvex)	BRL		µg/l	0.100	1	"	"	"	"	X
94-75-7	2,4-D	BRL		µg/l	0.100	1	"	"	"	"	X
94-82-6	2,4-DB	BRL		µg/l	0.100	1	"	"	"	"	X
75-99-0	Dalapon	BRL		µg/l	0.100	1	"	"	"	"	X
1918-00-9	Dicamba	BRL		µg/l	0.100	1	"	"	"	"	X
120-36-5	Dichlorprop	BRL		µg/l	0.100	1	"	"	"	"	X
88-85-7	Dinoseb	BRL		µg/l	0.100	1	"	"	"	"	X
94-74-6	MCPA	BRL		µg/l	1.50	1	"	"	"	"	
94-81-5	MCPB	BRL		µg/l	1.50	1	"	"	"	"	
93-65-2	MCPP	BRL		µg/l	1.50	1	"	"	"	"	
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*84*		*30-150 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3510C											
8006-61-9	Gasoline	BRL		mg/l	0.1	1	+CT ETPH	10-Dec-08	11-Dec-08	8120860	
68476-30-2	Fuel Oil #2	BRL		mg/l	0.1	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/l	0.1	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/l	0.1	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/l	0.1	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/l	0.1	1	"	"	"	"	
	Unidentified	0.6		mg/l	0.1	1	"	"	"	"	
	Other Oil	Calculated as		mg/l	0.1	1	"	"	"	"	
	Total Petroleum Hydrocarbons	0.6		mg/l	0.1	1	"	"	"	"	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-13 (GW) SA88527-04	12701186	Ground Water	05-Dec-08 10:40	08-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3510C											
	C9-C36 Aliphatic Hydrocarbons	0.6		mg/l	0.1	1	+CT ETPH	10-Dec-08	11-Dec-08	8120860	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*50*		*50-150 %*			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/l	0.0500	1	SW846 6010B	19-Dec-08	19-Dec-08	8121616	X
7440-38-2	Arsenic	BRL		mg/l	0.0400	1	"	"	"	"	X
7440-39-3	Barium	0.0930	V11	mg/l	0.0500	1	"	"	"	"	X
7440-43-9	Cadmium	BRL		mg/l	0.0250	1	"	"	"	"	X
7440-47-3	Chromium	0.0965		mg/l	0.0500	1	"	"	"	"	X
7439-92-1	Lead	0.488		mg/l	0.0750	1	"	"	"	"	X
7782-49-2	Selenium	BRL		mg/l	0.150	1	"	"	"	"	X
Total Metals by EPA 200 Series Methods											
7439-97-6	Mercury	BRL		mg/l	0.00020	1	EPA 245.1/7470A	15-Dec-08	16-Dec-08	8121050	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods											
	SPLP Extraction	Completed	Z-2c	N/A		1	SW846 1312	12-Dec-08	12-Dec-08	8121169	
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1312/6010B	16-Dec-08	16-Dec-08	8121297	
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	
7440-39-3	Barium	0.154	V11	mg/l	0.0100	1	"	"	"	"	
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1312/7470A	"	16-Dec-08	8121298	
7439-92-1	Lead	0.0230		mg/l	0.0150	1	SW846 1312/6010B	"	16-Dec-08	8121297	
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-15 (1-4') SA88527-05	12701186	Soil	05-Dec-08 11:00	08-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	08-Dec-08	08-Dec-08	8120741	
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 5.8 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	5.1	1	SW846 8260B	09-Dec-08	10-Dec-08	8120780	X
67-64-1	Acetone	BRL		µg/kg dry	51.2	1	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/kg dry	5.1	1	"	"	"	"	X
71-43-2	Benzene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
74-97-5	Bromochloromethane	BRL		µg/kg dry	5.1	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/kg dry	5.1	1	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/kg dry	5.1	1	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/kg dry	10.2	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	51.2	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/kg dry	25.6	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	5.1	1	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/kg dry	10.2	1	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg dry	5.1	1	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg dry	10.2	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	10.2	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/kg dry	5.1	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	5.1	1	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/kg dry	5.1	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	10.2	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	5.1	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	5.1	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	5.1	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	5.1	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	5.1	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	51.2	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	5.1	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	51.2	1	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg dry	51.2	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	5.1	1	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-15 (1-4') SA88527-05	12701186	Soil	05-Dec-08 11:00	08-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 5.8 g						
103-65-1	n-Propylbenzene	BRL		µg/kg dry	5.1	1	SW846 8260B	09-Dec-08	10-Dec-08	8120780	X
100-42-5	Styrene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	5.1	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	5.1	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	5.1	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	5.1	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	5.1	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	5.1	1	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	5.1	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	5.1	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/kg dry	5.1	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	10.2	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	5.1	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	51.2	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	5.1	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	5.1	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	5.1	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	5.1	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	51.2	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg dry	102	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	25.6	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/kg dry	2050	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*86*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*91*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*125*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*108*		*70-130 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	27.7	1	+CT ETPH	12-Dec-08	15-Dec-08	8121068	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	27.7	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	27.7	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	27.7	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	27.7	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	27.7	1	"	"	"	"	
	Unidentified	86.7		mg/kg dry	27.7	1	"	"	"	"	
	Other Oil	Calculated as		mg/kg dry	27.7	1	"	"	"	"	
	Total Petroleum Hydrocarbons	86.7		mg/kg dry	27.7	1	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	86.7		mg/kg dry	27.7	1	"	"	"	"	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*98*		*50-150 %*			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-15 (1-4') SA88527-05	12701186	Soil	05-Dec-08 11:00	08-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.47	1	SW846 6010B	12-Dec-08	16-Dec-08	8120894	X
7440-38-2	Arsenic	1.75		mg/kg dry	1.47	1	"	"	"	"	X
7440-39-3	Barium	26.6		mg/kg dry	0.981	1	"	"	"	"	X
7440-43-9	Cadmium	0.667		mg/kg dry	0.491	1	"	"	"	"	X
7440-47-3	Chromium	10.0		mg/kg dry	0.981	1	"	"	"	"	X
7439-97-6	Mercury	0.0567		mg/kg dry	0.0310	1	SW846 7471A	"	15-Dec-08	8120895	X
7439-92-1	Lead	70.2		mg/kg dry	1.47	1	SW846 6010B	"	16-Dec-08	8120894	X
7782-49-2	Selenium	BRL		mg/kg dry	1.47	1	"	"	16-Dec-08	"	X
General Chemistry Parameters											
	% Solids	92.0		%		1	SM2540 G Mod.	11-Dec-08	11-Dec-08	8120995	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-12 (4-6') SA88527-06	12701186	Soil	05-Dec-08 11:35	08-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	08-Dec-08	08-Dec-08	8120741	
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 5.31 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	8.6	1	SW846 8260B	09-Dec-08	10-Dec-08	8120780	X
67-64-1	Acetone	BRL		µg/kg dry	85.8	1	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/kg dry	8.6	1	"	"	"	"	X
71-43-2	Benzene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
74-97-5	Bromochloromethane	BRL		µg/kg dry	8.6	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/kg dry	8.6	1	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/kg dry	8.6	1	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/kg dry	17.2	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	85.8	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/kg dry	42.9	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	8.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/kg dry	17.2	1	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg dry	8.6	1	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg dry	17.2	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	17.2	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/kg dry	8.6	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	8.6	1	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/kg dry	8.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	17.2	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	8.6	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	8.6	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	8.6	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	8.6	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	8.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	85.8	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	8.6	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	85.8	1	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg dry	85.8	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	8.6	1	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-12 (4-6') SA88527-06	12701186	Soil	05-Dec-08 11:35	08-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 5.31 g						
103-65-1	n-Propylbenzene	BRL		µg/kg dry	8.6	1	SW846 8260B	09-Dec-08	10-Dec-08	8120780	X
100-42-5	Styrene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	8.6	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	8.6	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	8.6	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	8.6	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	8.6	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	8.6	1	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	8.6	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	8.6	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/kg dry	8.6	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	17.2	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	8.6	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	85.8	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	8.6	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	8.6	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	8.6	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	8.6	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	85.8	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg dry	172	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	42.9	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/kg dry	3430	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*88*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*94*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*119*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*		*70-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
PAHs by SW846 8270C											
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	179	1	SW846 8270C	12-Dec-08	12-Dec-08	8121067	X
208-96-8	Acenaphthylene	BRL		µg/kg dry	179	1	"	"	"	"	X
120-12-7	Anthracene	BRL		µg/kg dry	179	1	"	"	"	"	X
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	179	1	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	179	1	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	179	1	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	179	1	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	179	1	"	"	"	"	X
218-01-9	Chrysene	BRL		µg/kg dry	179	1	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	179	1	"	"	"	"	X
206-44-0	Fluoranthene	BRL		µg/kg dry	179	1	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/kg dry	179	1	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	179	1	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	179	1	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-12 (4-6') SA88527-06	12701186	Soil	05-Dec-08 11:35	08-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Semivolatile Organic Compounds by GCMS											
PAHs by SW846 8270C											
Prepared by method SW846 3550B											
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	179	1	SW846 8270C	12-Dec-08	12-Dec-08	8121067	X
91-20-3	Naphthalene	BRL		µg/kg dry	179	1	"	"	"	"	X
85-01-8	Phenanthrene	BRL		µg/kg dry	179	1	"	"	"	"	X
129-00-0	Pyrene	BRL		µg/kg dry	179	1	"	"	"	"	X
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*79*		*30-130 %*			"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*85*		*30-130 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	35.8	1	+CT ETPH	12-Dec-08	15-Dec-08	8121068	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	35.8	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	35.8	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	35.8	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	35.8	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	35.8	1	"	"	"	"	
	Unidentified	BRL		mg/kg dry	35.8	1	"	"	"	"	
	Other Oil	BRL		mg/kg dry	35.8	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	35.8	1	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	35.8	1	"	"	"	"	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*102*		*50-150 %*			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.95	1	SW846 6010B	12-Dec-08	16-Dec-08	8120894	X
7440-38-2	Arsenic	5.46		mg/kg dry	1.95	1	"	"	"	"	X
7440-39-3	Barium	261		mg/kg dry	1.30	1	"	"	"	"	X
7440-43-9	Cadmium	2.06		mg/kg dry	0.649	1	"	"	"	"	X
7440-47-3	Chromium	53.4		mg/kg dry	1.30	1	"	"	"	"	X
7439-97-6	Mercury	BRL		mg/kg dry	0.0411	1	SW846 7471A	"	15-Dec-08	8120895	X
7439-92-1	Lead	15.4		mg/kg dry	1.95	1	SW846 6010B	"	16-Dec-08	8120894	X
7782-49-2	Selenium	BRL		mg/kg dry	1.95	1	"	"	16-Dec-08	"	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods											
	SPLP Extraction	Completed		N/A		1	SW846 1312	10-Dec-08	10-Dec-08	8120947	
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1312/6010B	15-Dec-08	16-Dec-08	8120956	
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	
7440-39-3	Barium	0.0909		mg/l	0.0100	1	"	"	"	"	
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1312/7470A	"	15-Dec-08	8120957	
7439-92-1	Lead	BRL		mg/l	0.0150	1	SW846 1312/6010B	"	16-Dec-08	8120956	
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	
General Chemistry Parameters											
	% Solids	71.5		%		1	SM2540 G Mod.	11-Dec-08	11-Dec-08	8120995	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-12 (GW) SA88527-07	12701186	Ground Water	05-Dec-08 12:00	08-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5030 Water MS											
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	1.0	1	SW846 8260B	12-Dec-08	12-Dec-08	8121090	X
67-64-1	Acetone	BRL		µg/l	10.0	1	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/l	0.5	1	"	"	"	"	X
71-43-2	Benzene	BRL		µg/l	1.0	1	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/l	1.0	1	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/l	1.0	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/l	0.5	1	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/l	1.0	1	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/l	2.0	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/l	10.0	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/l	5.0	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/l	1.0	1	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/l	2.0	1	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/l	1.0	1	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/l	2.0	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/l	1.0	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/l	1.0	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/l	0.5	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/l	10.0	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0	1	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/l	5.0	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-12 (GW) SA88527-07	12701186	Ground Water	05-Dec-08 12:00	08-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5030 Water MS											
100-42-5	Styrene	BRL		µg/l	1.0	1	SW846 8260B	12-Dec-08	12-Dec-08	8121090	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
108-88-3	Toluene	2.1		µg/l	1.0	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	1.2		µg/l	1.0	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/l	1.0	1	"	"	"	"	X
179601-23-1	m,p-Xylene	2.1		µg/l	2.0	1	"	"	"	"	X
95-47-6	o-Xylene	1.0		µg/l	1.0	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/l	10.0	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/l	1.0	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	10.0	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/l	20.0	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0	1	"	"	"	"	X
64-17-5	Ethanol	BRL		µg/l	400	1	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*99*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*100*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*103*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*101*		*70-130 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3510C											
8006-61-9	Gasoline	BRL		mg/l	0.1	1	+CT ETPH	12-Dec-08	17-Dec-08	8121075	
68476-30-2	Fuel Oil #2	BRL		mg/l	0.1	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/l	0.1	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/l	0.1	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/l	0.1	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/l	0.1	1	"	"	"	"	
	Unidentified	BRL		mg/l	0.1	1	"	"	"	"	
	Other Oil	BRL		mg/l	0.1	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/l	0.1	1	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.1	1	"	"	"	"	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*75*		*50-150 %*			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	0.0190		mg/l	0.0050	1	SW846 6010B	15-Dec-08	17-Dec-08	8121049	X

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-12 (GW) SA88527-07	12701186	Ground Water	05-Dec-08 12:00	08-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods											
7440-38-2	Arsenic	0.157		mg/l	0.0040	1	SW846 6010B	15-Dec-08	17-Dec-08	8121049	X
7440-39-3	Barium	2.06		mg/l	0.0050	1	"	"	"	"	X
7440-43-9	Cadmium	0.0245		mg/l	0.0025	1	"	"	"	"	X
7440-47-3	Chromium	0.474		mg/l	0.0050	1	"	"	"	"	X
7439-92-1	Lead	0.374		mg/l	0.0075	1	"	"	"	"	X
7782-49-2	Selenium	BRL		mg/l	0.0150	1	"	"	"	"	X
Total Metals by EPA 200 Series Methods											
7439-97-6	Mercury	0.00026		mg/l	0.00020	1	EPA 245.1/7470A	15-Dec-08	16-Dec-08	8121050	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-17 (1-4') SA88527-08	12701186	Soil	05-Dec-08 12:45	08-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	08-Dec-08	08-Dec-08	8120741	
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 4.61 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	8.3	1	SW846 8260B	09-Dec-08	10-Dec-08	8120780	X
67-64-1	Acetone	BRL		µg/kg dry	82.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/kg dry	8.3	1	"	"	"	"	X
71-43-2	Benzene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
74-97-5	Bromochloromethane	BRL		µg/kg dry	8.3	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/kg dry	8.3	1	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/kg dry	8.3	1	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/kg dry	16.5	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	82.6	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/kg dry	41.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	8.3	1	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/kg dry	16.5	1	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg dry	8.3	1	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg dry	16.5	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	16.5	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/kg dry	8.3	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	8.3	1	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/kg dry	8.3	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	16.5	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	8.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	8.3	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	8.3	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	8.3	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	8.3	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	82.6	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	8.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	82.6	1	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg dry	82.6	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	8.3	1	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-17 (1-4') SA88527-08	12701186	Soil	05-Dec-08 12:45	08-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 4.61 g						
103-65-1	n-Propylbenzene	BRL		µg/kg dry	8.3	1	SW846 8260B	09-Dec-08	10-Dec-08	8120780	X
100-42-5	Styrene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	8.3	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	8.3	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	8.3	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	8.3	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	8.3	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	8.3	1	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	8.3	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	8.3	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/kg dry	8.3	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	16.5	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	8.3	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	82.6	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	8.3	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	8.3	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	8.3	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	8.3	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	82.6	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg dry	165	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	41.3	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/kg dry	3300	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*87*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*93*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*120*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*108*		*70-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
PAHs by SW846 8270C											
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	168	1	SW846 8270C	12-Dec-08	12-Dec-08	8121067	X
208-96-8	Acenaphthylene	BRL		µg/kg dry	168	1	"	"	"	"	X
120-12-7	Anthracene	BRL		µg/kg dry	168	1	"	"	"	"	X
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	168	1	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	168	1	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	168	1	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	168	1	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	168	1	"	"	"	"	X
218-01-9	Chrysene	BRL		µg/kg dry	168	1	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	168	1	"	"	"	"	X
206-44-0	Fluoranthene	BRL		µg/kg dry	168	1	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/kg dry	168	1	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	168	1	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	168	1	"	"	"	"	

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121427 - SW846 5030 Water MS										
LCS Dup (8121427-BSD1)										
Prepared & Analyzed: 17-Dec-08										
sec-Butylbenzene	21.0		µg/l		20.0		105	70-130	2	25
tert-Butylbenzene	20.0		µg/l		20.0		100	70-130	0.6	25
Carbon disulfide	18.2		µg/l		20.0		91	70-130	1	25
Carbon tetrachloride	22.1		µg/l		20.0		110	70-130	2	25
Chlorobenzene	19.2		µg/l		20.0		96	70-130	3	25
Chloroethane	19.4		µg/l		20.0		97	60.1-131	5	50
Chloroform	19.5		µg/l		20.0		98	70-130	3	25
Chloromethane	17.7		µg/l		20.0		89	70-130	3	25
2-Chlorotoluene	21.6		µg/l		20.0		108	70-130	5	25
4-Chlorotoluene	20.4		µg/l		20.0		102	70-130	3	25
1,2-Dibromo-3-chloropropane	15.9		µg/l		20.0		79	70-130	6	25
Dibromochloromethane	21.0		µg/l		20.0		105	66.2-145	3	50
1,2-Dibromoethane (EDB)	19.2		µg/l		20.0		96	70-130	9	25
Dibromomethane	18.5		µg/l		20.0		93	70-130	7	25
1,2-Dichlorobenzene	19.0		µg/l		20.0		95	70-130	5	25
1,3-Dichlorobenzene	21.3		µg/l		20.0		107	70-130	5	25
1,4-Dichlorobenzene	18.8		µg/l		20.0		94	70-130	6	25
Dichlorodifluoromethane (Freon12)	20.8		µg/l		20.0		104	46.9-168	7	50
1,1-Dichloroethane	17.5		µg/l		20.0		88	70-130	2	25
1,2-Dichloroethane	18.8		µg/l		20.0		94	70-130	6	25
1,1-Dichloroethene	18.5		µg/l		20.0		92	70-130	4	25
cis-1,2-Dichloroethene	17.3		µg/l		20.0		86	70-130	3	25
trans-1,2-Dichloroethene	18.5		µg/l		20.0		93	70-130	2	25
1,2-Dichloropropane	18.8		µg/l		20.0		94	70-130	4	25
1,3-Dichloropropane	18.3		µg/l		20.0		91	70-130	5	25
2,2-Dichloropropane	19.6		µg/l		20.0		98	70-130	1	25
1,1-Dichloropropene	18.7		µg/l		20.0		93	70-130	0.2	25
cis-1,3-Dichloropropene	17.1		µg/l		20.0		86	70-130	0.4	25
trans-1,3-Dichloropropene	16.6		µg/l		20.0		83	70-130	1	25
Ethylbenzene	19.6		µg/l		20.0		98	70-130	0.6	25
Hexachlorobutadiene	21.2		µg/l		20.0		106	70-135	1	50
2-Hexanone (MBK)	15.3		µg/l		20.0		76	70-130	2	25
Isopropylbenzene	23.1		µg/l		20.0		115	70-130	3	25
4-Isopropyltoluene	18.3		µg/l		20.0		92	70-130	0.5	25
Methyl tert-butyl ether	19.6		µg/l		20.0		98	70-130	7	25
4-Methyl-2-pentanone (MIBK)	19.6		µg/l		20.0		98	57.6-130	6	50
Methylene chloride	18.5		µg/l		20.0		92	70-130	5	25
Naphthalene	13.9		µg/l		20.0		70	70-130	5	25
n-Propylbenzene	19.5		µg/l		20.0		98	70-130	0.9	25
Styrene	17.7		µg/l		20.0		89	70-130	2	25
1,1,1,2-Tetrachloroethane	20.4		µg/l		20.0		102	70-130	5	25
1,1,2,2-Tetrachloroethane	18.2		µg/l		20.0		91	70-130	12	25
Tetrachloroethene	20.0		µg/l		20.0		100	70-130	2	25
Toluene	19.3		µg/l		20.0		96	70-130	2	25
1,2,3-Trichlorobenzene	17.5		µg/l		20.0		88	70-130	0.3	25
1,2,4-Trichlorobenzene	17.0		µg/l		20.0		85	70-130	2	25
1,3,5-Trichlorobenzene	22.8		µg/l		20.0		114	70-130	0.2	25
1,1,1-Trichloroethane	19.7		µg/l		20.0		99	70-130	3	25
1,1,2-Trichloroethane	18.5		µg/l		20.0		92	70-130	7	25

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121427 - SW846 5030 Water MS										
LCS Dup (8121427-BSD1)										
Prepared & Analyzed: 17-Dec-08										
Trichloroethene	19.4		µg/l		20.0		97	70-130	1	25
Trichlorofluoromethane (Freon 11)	22.8		µg/l		20.0		114	64.9-147	7	50
1,2,3-Trichloropropane	16.8		µg/l		20.0		84	70-130	11	25
1,2,4-Trimethylbenzene	19.4		µg/l		20.0		97	70-130	0.5	25
1,3,5-Trimethylbenzene	19.7		µg/l		20.0		98	70-130	0.9	25
Vinyl chloride	30.8	QC1	µg/l		20.0		154	70-130	33	25
m,p-Xylene	40.7		µg/l		40.0		102	70-130	2	25
o-Xylene	20.3		µg/l		20.0		102	70-130	4	25
Tetrahydrofuran	17.6		µg/l		20.0		88	70-130	9	25
Ethyl ether	18.5		µg/l		20.0		92	70-130	9	50
Tert-amyl methyl ether	18.5		µg/l		20.0		92	70-130	3	25
Ethyl tert-butyl ether	19.9		µg/l		20.0		100	70-130	8	25
Di-isopropyl ether	19.6		µg/l		20.0		98	70-130	6	25
Tert-Butanol / butyl alcohol	168		µg/l		200		84	70-130	8	25
1,4-Dioxane	182		µg/l		200		91	53.8-137	3	25
trans-1,4-Dichloro-2-butene	16.3		µg/l		20.0		81	70-130	6	25
Ethanol	345		µg/l		400		86	70-130	12	30
Surrogate: 4-Bromofluorobenzene	*31.4*		µg/l		*30.0*		*105*	*70-130*		
Surrogate: Toluene-d8	*30.1*		µg/l		*30.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*29.2*		µg/l		*30.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*29.1*		µg/l		*30.0*		*97*	*70-130*		
Matrix Spike (8121427-MS1) **Source: SA88882-01** Z-2b										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Benzene	20.2		µg/l		20.0	BRL	101	70-130		
Chlorobenzene	18.8		µg/l		20.0	BRL	94	70-130		
1,1-Dichloroethene	17.1		µg/l		20.0	BRL	86	70-130		
Toluene	19.2		µg/l		20.0	BRL	96	70-130		
Trichloroethene	19.7		µg/l		20.0	BRL	98	70-130		
Surrogate: 4-Bromofluorobenzene	*33.6*		µg/l		*30.0*		*112*	*70-130*		
Surrogate: Toluene-d8	*30.8*		µg/l		*30.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*35.7*		µg/l		*30.0*		*119*	*70-130*		
Surrogate: Dibromofluoromethane	*33.3*		µg/l		*30.0*		*111*	*70-130*		
Matrix Spike Dup (8121427-MSD1) **Source: SA88882-01** Z-2b										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Benzene	20.9		µg/l		20.0	BRL	104	70-130	3	30
Chlorobenzene	19.8		µg/l		20.0	BRL	99	70-130	5	30
1,1-Dichloroethene	17.6		µg/l		20.0	BRL	88	70-130	3	30
Toluene	19.5		µg/l		20.0	BRL	98	70-130	2	30
Trichloroethene	20.1		µg/l		20.0	BRL	100	70-130	2	30
Surrogate: 4-Bromofluorobenzene	*33.1*		µg/l		*30.0*		*110*	*70-130*		
Surrogate: Toluene-d8	*30.0*		µg/l		*30.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*33.6*		µg/l		*30.0*		*112*	*70-130*		
Surrogate: Dibromofluoromethane	*32.3*		µg/l		*30.0*		*108*	*70-130*		

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8120859 - SW846 3510C										
Blank (8120859-BLK1)										
Prepared & Analyzed: 10-Dec-08										
Acenaphthene	BRL		µg/l	0.050						
Acenaphthylene	BRL		µg/l	0.050						
1-Methylnaphthalene	BRL		µg/l	0.050						
Anthracene	BRL		µg/l	0.050						
Benzo (a) anthracene	BRL		µg/l	0.050						
Benzo (a) pyrene	BRL		µg/l	0.050						
Benzo (b) fluoranthene	BRL		µg/l	0.050						
Benzo (g,h,i) perylene	BRL		µg/l	0.050						
Benzo (k) fluoranthene	BRL		µg/l	0.050						
Chrysene	BRL		µg/l	0.050						
Dibenzo (a,h) anthracene	BRL		µg/l	0.050						
Fluoranthene	BRL		µg/l	0.050						
Fluorene	BRL		µg/l	0.050						
Indeno (1,2,3-cd) pyrene	BRL		µg/l	0.050						
2-Methylnaphthalene	BRL		µg/l	0.050						
Naphthalene	BRL		µg/l	0.050						
Phenanthrene	BRL		µg/l	0.050						
Pyrene	BRL		µg/l	0.050						
Hexachlorobenzene	BRL		µg/l	1.00						
Hexachloroethane	BRL		µg/l	1.00						
Pentachlorophenol	BRL		µg/l	1.00						
Hexachlorobutadiene	BRL		µg/l	0.500						
Surrogate: 2-Fluorobiphenyl	*37.6*		µg/l		*50.0*		*75*	*30-130*		
Surrogate: Terphenyl-d14	*49.0*		µg/l		*50.0*		*98*	*30-130*		
LCS (8120859-BS1)										
Prepared & Analyzed: 10-Dec-08										
Acenaphthene	37.6		µg/l	0.050	50.0		75	40-140		
Acenaphthylene	39.9		µg/l	0.050	50.0		80	40-140		
1-Methylnaphthalene	37.3		µg/l	0.050	50.0		75	40-140		
Anthracene	37.4		µg/l	0.050	50.0		75	40-140		
Benzo (a) anthracene	39.6		µg/l	0.050	50.0		79	40-140		
Benzo (a) pyrene	37.2		µg/l	0.050	50.0		74	40-140		
Benzo (b) fluoranthene	35.1		µg/l	0.050	50.0		70	40-140		
Benzo (g,h,i) perylene	30.9		µg/l	0.050	50.0		62	40-140		
Benzo (k) fluoranthene	41.7		µg/l	0.050	50.0		83	40-140		
Chrysene	39.6		µg/l	0.050	50.0		79	40-140		
Dibenzo (a,h) anthracene	31.0		µg/l	0.050	50.0		62	40-140		
Fluoranthene	35.1		µg/l	0.050	50.0		70	40-140		
Fluorene	37.5		µg/l	0.050	50.0		75	40-140		
Indeno (1,2,3-cd) pyrene	25.4		µg/l	0.050	50.0		51	40-140		
2-Methylnaphthalene	35.8		µg/l	0.050	50.0		72	40-140		
Naphthalene	35.5		µg/l	0.050	50.0		71	40-140		
Phenanthrene	36.5		µg/l	0.050	50.0		73	40-140		
Pyrene	52.4		µg/l	0.050	50.0		105	40-140		
Hexachlorobenzene	34.0		µg/l	1.00	50.0		68	40-140		
Hexachloroethane	34.7		µg/l	1.00	50.0		69	40-140		
Pentachlorophenol	38.0		µg/l	1.00	50.0		76	30-130		
Hexachlorobutadiene	32.6		µg/l	0.500	50.0		65	40-140		
Surrogate: 2-Fluorobiphenyl	*32.5*		µg/l		*50.0*		*65*	*30-130*		

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8120859 - SW846 3510C										
LCS (8120859-BS1)										
Prepared & Analyzed: 10-Dec-08										
Surrogate: Terphenyl-dl4	*43.5*		µg/l		*50.0*		*87*	*30-130*		
Matrix Spike (8120859-MS1) **Source: SA88514-07**										
Prepared: 10-Dec-08 Analyzed: 11-Dec-08										
Acenaphthene	4.34		µg/l	0.050	5.81	0.0549	74	40-140		
Benzo (b) fluoranthene	4.45		µg/l	0.050	5.81	BRL	77	40-140		
Benzo (k) fluoranthene	4.67		µg/l	0.050	5.81	BRL	80	40-140		
Chrysene	3.88		µg/l	0.050	5.81	BRL	67	40-140		
Indeno (1,2,3-cd) pyrene	4.57		µg/l	0.050	5.81	BRL	79	40-140		
Naphthalene	4.20		µg/l	0.050	5.81	0.110	70	40-140		
Pyrene	3.60		µg/l	0.050	5.81	0.0659	61	40-140		
Surrogate: 2-Fluorobiphenyl	*39.5*		µg/l		*58.1*		*68*	*30-130*		
Surrogate: Terphenyl-dl4	*31.0*		µg/l		*58.1*		*53*	*30-130*		
Matrix Spike Dup (8120859-MSD1) **Source: SA88514-07**										
Prepared: 10-Dec-08 Analyzed: 11-Dec-08										
Acenaphthene	4.39		µg/l	0.050	6.10	0.0549	71	40-140	4	20
Benzo (b) fluoranthene	4.74		µg/l	0.050	6.10	BRL	78	40-140	2	20
Benzo (k) fluoranthene	4.68		µg/l	0.050	6.10	BRL	77	40-140	5	20
Chrysene	4.13		µg/l	0.050	6.10	BRL	68	40-140	1	20
Indeno (1,2,3-cd) pyrene	4.74		µg/l	0.050	6.10	BRL	78	40-140	1	20
Naphthalene	4.23		µg/l	0.050	6.10	0.110	68	40-140	4	20
Pyrene	3.59		µg/l	0.050	6.10	0.0659	58	40-140	5	20
Surrogate: 2-Fluorobiphenyl	*40.2*		µg/l		*61.0*		*66*	*30-130*		
Surrogate: Terphenyl-dl4	*31.0*		µg/l		*61.0*		*51*	*30-130*		
Batch 8121067 - SW846 3550B										
Blank (8121067-BLK1)										
Prepared: 12-Dec-08 Analyzed: 17-Dec-08										
Acenaphthene	BRL		µg/kg wet	66.5						
Acenaphthylene	BRL		µg/kg wet	66.5						
Anthracene	BRL		µg/kg wet	66.5						
Benzo (a) anthracene	BRL		µg/kg wet	66.5						
Benzo (a) pyrene	BRL		µg/kg wet	66.5						
Benzo (b) fluoranthene	BRL		µg/kg wet	66.5						
Benzo (g,h,i) perylene	BRL		µg/kg wet	66.5						
Benzo (k) fluoranthene	BRL		µg/kg wet	66.5						
Chrysene	BRL		µg/kg wet	66.5						
Dibenzo (a,h) anthracene	BRL		µg/kg wet	66.5						
Fluoranthene	BRL		µg/kg wet	66.5						
Fluorene	BRL		µg/kg wet	66.5						
Indeno (1,2,3-cd) pyrene	BRL		µg/kg wet	66.5						
1-Methylnaphthalene	BRL		µg/kg wet	66.5						
2-Methylnaphthalene	BRL		µg/kg wet	66.5						
Naphthalene	BRL		µg/kg wet	66.5						
Phenanthrene	BRL		µg/kg wet	66.5						
Pyrene	BRL		µg/kg wet	66.5						
Surrogate: 2-Fluorobiphenyl	*2180*		µg/kg wet		*3330*		*65*	*30-130*		
Surrogate: Terphenyl-dl4	*2470*		µg/kg wet		*3330*		*74*	*30-130*		
LCS (8121067-BS1)										
Prepared: 12-Dec-08 Analyzed: 17-Dec-08										

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121067 - SW846 3550B										
LCS (8121067-BS1)										
Prepared: 12-Dec-08 Analyzed: 17-Dec-08										
Acenaphthene	2540		µg/kg wet	66.5	3330		76	40-140		
Acenaphthylene	2510		µg/kg wet	66.5	3330		75	40-140		
Anthracene	2300		µg/kg wet	66.5	3330		69	40-140		
Benzo (a) anthracene	2770		µg/kg wet	66.5	3330		83	40-140		
Benzo (a) pyrene	2250		µg/kg wet	66.5	3330		68	40-140		
Benzo (b) fluoranthene	2610		µg/kg wet	66.5	3330		78	40-140		
Benzo (g,h,i) perylene	2000		µg/kg wet	66.5	3330		60	40-140		
Benzo (k) fluoranthene	2200		µg/kg wet	66.5	3330		66	40-140		
Chrysene	2640		µg/kg wet	66.5	3330		79	40-140		
Dibenzo (a,h) anthracene	2400		µg/kg wet	66.5	3330		72	40-140		
Fluoranthene	2390		µg/kg wet	66.5	3330		72	40-140		
Fluorene	2480		µg/kg wet	66.5	3330		74	40-140		
Indeno (1,2,3-cd) pyrene	2170		µg/kg wet	66.5	3330		65	40-140		
1-Methylnaphthalene	2370		µg/kg wet	66.5	3330		71	40-140		
2-Methylnaphthalene	2300		µg/kg wet	66.5	3330		69	40-140		
Naphthalene	2340		µg/kg wet	66.5	3330		70	40-140		
Phenanthrene	2570		µg/kg wet	66.5	3330		77	40-140		
Pyrene	2810		µg/kg wet	66.5	3330		84	40-140		
Surrogate: 2-Fluorobiphenyl	*2370*		µg/kg wet		*3330*		*71*	*30-130*		
Surrogate: Terphenyl-dl4	*2600*		µg/kg wet		*3330*		*78*	*30-130*		
Duplicate (8121067-DUP1) **Source: SA88527-01**										
Prepared: 12-Dec-08 Analyzed: 17-Dec-08										
Acenaphthene	BRL		µg/kg dry	84.2		BRL				50
Acenaphthylene	BRL		µg/kg dry	84.2		BRL				50
Anthracene	BRL		µg/kg dry	84.2		BRL				50
Benzo (a) anthracene	BRL		µg/kg dry	84.2		BRL				50
Benzo (a) pyrene	BRL		µg/kg dry	84.2		BRL				50
Benzo (b) fluoranthene	BRL		µg/kg dry	84.2		BRL				50
Benzo (g,h,i) perylene	BRL		µg/kg dry	84.2		BRL				50
Benzo (k) fluoranthene	BRL		µg/kg dry	84.2		BRL				50
Chrysene	BRL		µg/kg dry	84.2		BRL				50
Dibenzo (a,h) anthracene	BRL		µg/kg dry	84.2		BRL				50
Fluoranthene	BRL		µg/kg dry	84.2		BRL				50
Fluorene	BRL		µg/kg dry	84.2		BRL				50
Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	84.2		BRL				50
1-Methylnaphthalene	BRL		µg/kg dry	84.2		BRL				50
2-Methylnaphthalene	BRL		µg/kg dry	84.2		BRL				50
Naphthalene	BRL		µg/kg dry	84.2		BRL				50
Phenanthrene	BRL		µg/kg dry	84.2		BRL				50
Pyrene	BRL		µg/kg dry	84.2		BRL				50
Surrogate: 2-Fluorobiphenyl	*1770*		µg/kg dry		*4220*		*42*	*30-130*		
Surrogate: Terphenyl-dl4	*1890*		µg/kg dry		*4220*		*45*	*30-130*		
Matrix Spike (8121067-MS1) **Source: SA88527-01**										
Prepared: 12-Dec-08 Analyzed: 17-Dec-08										
Acenaphthene	3320		µg/kg dry	86.4	4330	BRL	77	40-140		
Pyrene	3590		µg/kg dry	86.4	4330	BRL	83	40-140		
Surrogate: 2-Fluorobiphenyl	*2990*		µg/kg dry		*4330*		*69*	*30-130*		
Surrogate: Terphenyl-dl4	*3260*		µg/kg dry		*4330*		*75*	*30-130*		

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121067 - SW846 3550B										
Matrix Spike Dup (8121067-MSD1) **Source: SA88527-01**										
Prepared: 12-Dec-08 Analyzed: 17-Dec-08										
Acenaphthene	3350		µg/kg dry	84.2	4220	BRL	79	40-140	4	30
Pyrene	3650		µg/kg dry	84.2	4220	BRL	86	40-140	4	30
Surrogate: 2-Fluorobiphenyl	*2980*		µg/kg dry		*4220*		*71*	*30-130*		
Surrogate: Terphenyl-dl4	*3340*		µg/kg dry		*4220*		*79*	*30-130*		

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8120858 - SW846 3510C										
Blank (8120858-BLK1)										
Prepared: 10-Dec-08 Analyzed: 11-Dec-08										
PCB 1016	BRL		µg/l	0.200						
PCB 1221	BRL		µg/l	0.200						
PCB 1232	BRL		µg/l	0.200						
PCB 1242	BRL		µg/l	0.200						
PCB 1248	BRL		µg/l	0.200						
PCB 1254	BRL		µg/l	0.200						
PCB 1260	BRL		µg/l	0.200						
PCB 1262	BRL		µg/l	0.200						
PCB 1268	BRL		µg/l	0.200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*BRL*		µg/l		*0.200*		*84*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*BRL*		µg/l		*0.200*		*64*	*30-150*		
LCS (8120858-BS1)										
Prepared: 10-Dec-08 Analyzed: 11-Dec-08										
PCB 1016	2.04		µg/l	0.200	2.50		82	40-140		
PCB 1260	2.08		µg/l	0.200	2.50		83	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.155*		µg/l		*0.200*		*78*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.117*		µg/l		*0.200*		*58*	*30-150*		
LCS Dup (8120858-BSD1)										
Prepared: 10-Dec-08 Analyzed: 11-Dec-08										
PCB 1016	2.06		µg/l	0.200	2.50		83	40-140	1	20
PCB 1260	1.97		µg/l	0.200	2.50		79	40-140	5	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.154*		µg/l		*0.200*		*77*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.111*		µg/l		*0.200*		*56*	*30-150*		
Batch 8120971 - SW846 3510C										
Blank (8120971-BLK1)										
Prepared & Analyzed: 11-Dec-08										
2,4,5-T	BRL		µg/l	0.100						
2,4,5-T [2C]	BRL		µg/l	0.100						
2,4,5-TP (Silvex)	BRL		µg/l	0.100						
2,4,5-TP (Silvex) [2C]	BRL		µg/l	0.100						
2,4-D	BRL		µg/l	0.100						
2,4-D [2C]	BRL		µg/l	0.100						
2,4-DB	BRL		µg/l	0.100						
2,4-DB [2C]	BRL		µg/l	0.100						
Dalapon	BRL		µg/l	0.100						
Dalapon [2C]	BRL		µg/l	0.100						
Dicamba	BRL		µg/l	0.100						
Dicamba [2C]	BRL		µg/l	0.100						
Dichlorprop	BRL		µg/l	0.100						
Dichlorprop [2C]	BRL		µg/l	0.100						
Dinoseb	BRL		µg/l	0.100						
Dinoseb [2C]	BRL		µg/l	0.100						
MCPA	BRL		µg/l	1.50						
MCPA [2C]	BRL		µg/l	1.50						
MCPB	BRL		µg/l	1.50						
MCPB [2C]	BRL		µg/l	1.50						
MCPP	BRL		µg/l	1.50						
MCPP [2C]	BRL		µg/l	1.50						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.235*		µg/l		*0.200*		*118*	*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 8120971 - SW846 3510C										
Blank (8120971-BLK1)										
Prepared & Analyzed: 11-Dec-08										
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*0.248*		µg/l		*0.200*		*124*	*30-150*		
LCS (8120971-BS1)										
Prepared & Analyzed: 11-Dec-08										
2,4,5-T	0.421		µg/l	0.100	0.500		84	40-140		
2,4,5-T [2C]	0.370		µg/l	0.100	0.500		74	40-140		
2,4,5-TP (Silvex)	0.453		µg/l	0.100	0.500		91	40-140		
2,4,5-TP (Silvex) [2C]	0.426		µg/l	0.100	0.500		85	40-140		
2,4-D	0.416		µg/l	0.100	0.500		83	40-140		
2,4-D [2C]	0.340		µg/l	0.100	0.500		68	40-140		
2,4-DB	0.356		µg/l	0.100	0.500		71	40-140		
2,4-DB [2C]	0.308		µg/l	0.100	0.500		62	40-140		
Dalapon	0.331		µg/l	0.100	0.500		66	40-140		
Dalapon [2C]	0.380		µg/l	0.100	0.500		76	40-140		
Dicamba	0.433		µg/l	0.100	0.500		87	40-140		
Dicamba [2C]	0.475		µg/l	0.100	0.500		95	40-140		
Dichlorprop	0.408		µg/l	0.100	0.500		82	40-140		
Dichlorprop [2C]	0.472		µg/l	0.100	0.500		94	40-140		
Dinoseb	0.499		µg/l	0.100	0.500		100	40-140		
Dinoseb [2C]	0.491		µg/l	0.100	0.500		98	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.234*		µg/l		*0.200*		*117*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*0.248*		µg/l		*0.200*		*124*	*30-150*		
LCS (8120971-BS2)										
Prepared & Analyzed: 11-Dec-08										
MCPA	128		µg/l	1.50	150		85	40-140		
MCPA [2C]	138		µg/l	1.50	150		92	40-140		
MCPB	125		µg/l	1.50	150		83	40-140		
MCPB [2C]	141		µg/l	1.50	150		94	40-140		
MCPP	115		µg/l	1.50	150		77	40-140		
MCPP [2C]	114		µg/l	1.50	150		76	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.221*		µg/l		*0.200*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*0.222*		µg/l		*0.200*		*111*	*30-150*		
LCS Dup (8120971-BSD1)										
Prepared & Analyzed: 11-Dec-08										
2,4,5-T	0.397		µg/l	0.100	0.500		79	40-140	6	25
2,4,5-T [2C]	0.369		µg/l	0.100	0.500		74	40-140	0.3	25
2,4,5-TP (Silvex)	0.431		µg/l	0.100	0.500		86	40-140	5	25
2,4,5-TP (Silvex) [2C]	0.416		µg/l	0.100	0.500		83	40-140	2	25
2,4-D	0.406		µg/l	0.100	0.500		81	40-140	2	25
2,4-D [2C]	0.369		µg/l	0.100	0.500		74	40-140	8	25
2,4-DB	0.372		µg/l	0.100	0.500		74	40-140	4	25
2,4-DB [2C]	0.313		µg/l	0.100	0.500		63	40-140	2	25
Dalapon	0.321		µg/l	0.100	0.500		64	40-140	3	25
Dalapon [2C]	0.372		µg/l	0.100	0.500		74	40-140	2	25
Dicamba	0.435		µg/l	0.100	0.500		87	40-140	0.5	25
Dicamba [2C]	0.479		µg/l	0.100	0.500		96	40-140	0.8	25
Dichlorprop	0.432		µg/l	0.100	0.500		86	40-140	6	25
Dichlorprop [2C]	0.462		µg/l	0.100	0.500		92	40-140	2	25
Dinoseb	0.444		µg/l	0.100	0.500		89	40-140	12	25
Dinoseb [2C]	0.476		µg/l	0.100	0.500		95	40-140	3	25

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8120971 - SW846 3510C										
LCS Dup (8120971-BSD1)										
Prepared & Analyzed: 11-Dec-08										
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.216*		µg/l		*0.200*		*108*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [;	*0.238*		µg/l		*0.200*		*119*	*30-150*		
LCS Dup (8120971-BSD2)										
Prepared & Analyzed: 11-Dec-08										
MCPA	131		µg/l	1.50	150		87	40-140	2	25
MCPA [2C]	147		µg/l	1.50	150		98	40-140	6	25
MCPB	126		µg/l	1.50	150		84	40-140	0.8	25
MCPB [2C]	142		µg/l	1.50	150		95	40-140	0.7	25
MCPP	120		µg/l	1.50	150		80	40-140	4	25
MCPP [2C]	120		µg/l	1.50	150		80	40-140	5	25
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.229*		µg/l		*0.200*		*114*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [;	*0.240*		µg/l		*0.200*		*120*	*30-150*		
Batch 8121072 - SW846 3545A										
Blank (8121072-BLK1)										
Prepared: 12-Dec-08 Analyzed: 14-Dec-08										
PCB 1016	BRL		µg/kg wet	20.0						
PCB 1221	BRL		µg/kg wet	20.0						
PCB 1232	BRL		µg/kg wet	20.0						
PCB 1242	BRL		µg/kg wet	20.0						
PCB 1248	BRL		µg/kg wet	20.0						
PCB 1254	BRL		µg/kg wet	20.0						
PCB 1260	BRL		µg/kg wet	20.0						
PCB 1262	BRL		µg/kg wet	20.0						
PCB 1268	BRL		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*15.1*		µg/kg wet		*20.0*		*76*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*20.2*		µg/kg wet		*20.0*		*101*	*30-150*		
LCS (8121072-BS1)										
Prepared: 12-Dec-08 Analyzed: 14-Dec-08										
PCB 1016	231		µg/kg wet	20.0	250		92	40-140		
PCB 1260	232		µg/kg wet	20.0	250		93	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*15.4*		µg/kg wet		*20.0*		*77*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*20.4*		µg/kg wet		*20.0*		*102*	*30-150*		
LCS Dup (8121072-BSD1)										
Prepared: 12-Dec-08 Analyzed: 14-Dec-08										
PCB 1016	228		µg/kg wet	20.0	250		91	40-140	1	30
PCB 1260	240		µg/kg wet	20.0	250		96	40-140	3	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*15.5*		µg/kg wet		*20.0*		*78*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.4*		µg/kg wet		*20.0*		*107*	*30-150*		
Duplicate (8121072-DUP1) **Source: SA88527-01**										
Prepared: 12-Dec-08 Analyzed: 14-Dec-08										
PCB 1016	BRL		µg/kg dry	25.7		BRL				40
PCB 1221	BRL		µg/kg dry	25.7		BRL				40
PCB 1232	BRL		µg/kg dry	25.7		BRL				40
PCB 1242	BRL		µg/kg dry	25.7		BRL				40
PCB 1248	BRL		µg/kg dry	25.7		BRL				40
PCB 1254	BRL		µg/kg dry	25.7		BRL				40
PCB 1260	BRL		µg/kg dry	25.7		BRL				40
PCB 1262	BRL		µg/kg dry	25.7		BRL				40
PCB 1268	BRL		µg/kg dry	25.7		BRL				40

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121072 - SW846 3545A										
Duplicate (8121072-DUP1) **Source: SA88527-01**										
Prepared: 12-Dec-08 Analyzed: 14-Dec-08										
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.9*		µg/kg dry		*25.7*		*93*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*30.3*		µg/kg dry		*25.7*		*118*	*30-150*		
Matrix Spike (8121072-MS1) **Source: SA88527-01**										
Prepared: 12-Dec-08 Analyzed: 14-Dec-08										
PCB 1016	322		µg/kg dry	25.2	315	BRL	102	40-140		
PCB 1260	349		µg/kg dry	25.2	315	BRL	111	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.8*		µg/kg dry		*25.2*		*94*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*30.8*		µg/kg dry		*25.2*		*122*	*30-150*		
Matrix Spike Dup (8121072-MSD1) **Source: SA88527-01**										
Prepared: 12-Dec-08 Analyzed: 14-Dec-08										
PCB 1016	335		µg/kg dry	24.7	309	BRL	109	40-140	6	50
PCB 1260	362		µg/kg dry	24.7	309	BRL	117	40-140	6	50
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.6*		µg/kg dry		*24.7*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*31.1*		µg/kg dry		*24.7*		*126*	*30-150*		
Batch 8121073 - SW846 3550B										
Blank (8121073-BLK1)										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
2,4,5-T	BRL		µg/kg wet	6.70						
2,4,5-T [2C]	BRL		µg/kg wet	6.70						
2,4,5-TP (Silvex)	BRL		µg/kg wet	6.70						
2,4,5-TP (Silvex) [2C]	BRL		µg/kg wet	6.70						
2,4-D	BRL		µg/kg wet	6.70						
2,4-D [2C]	BRL		µg/kg wet	6.70						
2,4-DB	BRL		µg/kg wet	6.70						
2,4-DB [2C]	BRL		µg/kg wet	6.70						
Dalapon	BRL		µg/kg wet	6.70						
Dalapon [2C]	BRL		µg/kg wet	6.70						
Dicamba	BRL		µg/kg wet	6.70						
Dicamba [2C]	BRL		µg/kg wet	6.70						
Dichlorprop	BRL		µg/kg wet	6.70						
Dichlorprop [2C]	BRL		µg/kg wet	6.70						
Dinoseb	BRL		µg/kg wet	6.70						
Dinoseb [2C]	BRL		µg/kg wet	6.70						
MCPA	BRL		µg/kg wet	670						
MCPA [2C]	BRL		µg/kg wet	670						
MCPB	BRL		µg/kg wet	670						
MCPB [2C]	BRL		µg/kg wet	670						
MCPP	BRL		µg/kg wet	670						
MCPP [2C]	BRL		µg/kg wet	670						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*16.3*		µg/kg wet		*13.3*		*122*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*16.5*		µg/kg wet		*13.3*		*124*	*30-150*		
LCS (8121073-BS1)										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
2,4,5-T	32.6		µg/kg wet	6.70	33.3		98	40-140		
2,4,5-T [2C]	26.9		µg/kg wet	6.70	33.3		81	40-140		
2,4,5-TP (Silvex)	35.0		µg/kg wet	6.70	33.3		105	40-140		
2,4,5-TP (Silvex) [2C]	32.9		µg/kg wet	6.70	33.3		99	40-140		
2,4-D	33.1		µg/kg wet	6.70	33.3		99	40-140		
2,4-D [2C]	28.6		µg/kg wet	6.70	33.3		86	40-140		

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121073 - SW846 3550B										
LCS (8121073-BS1)										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
2,4-DB	29.0		µg/kg wet	6.70	33.3		87	40-140		
2,4-DB [2C]	22.2		µg/kg wet	6.70	33.3		67	40-140		
Dalapon	21.8		µg/kg wet	6.70	33.3		65	40-140		
Dalapon [2C]	29.5		µg/kg wet	6.70	33.3		88	40-140		
Dicamba	34.3		µg/kg wet	6.70	33.3		103	40-140		
Dicamba [2C]	34.4		µg/kg wet	6.70	33.3		103	40-140		
Dichlorprop	33.3		µg/kg wet	6.70	33.3		100	40-140		
Dichlorprop [2C]	33.3		µg/kg wet	6.70	33.3		100	40-140		
Dinoseb	36.7		µg/kg wet	6.70	33.3		110	40-140		
Dinoseb [2C]	37.8		µg/kg wet	6.70	33.3		113	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*18.3*		µg/kg wet		*13.3*		*138*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*19.1*		µg/kg wet		*13.3*		*143*	*30-150*		
LCS (8121073-BS2)										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
MCPA	8270		µg/kg wet	670	10000		83	40-140		
MCPA [2C]	9670		µg/kg wet	670	10000		97	40-140		
MCPB	8930		µg/kg wet	670	10000		89	40-140		
MCPB [2C]	9530		µg/kg wet	670	10000		95	40-140		
MCPP	7730		µg/kg wet	670	10000		77	40-140		
MCPP [2C]	6400		µg/kg wet	670	10000		64	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*16.6*		µg/kg wet		*13.3*		*124*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*16.4*		µg/kg wet		*13.3*		*123*	*30-150*		
LCS Dup (8121073-BSD1)										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
2,4,5-T	34.1		µg/kg wet	6.70	33.3		102	40-140	4	25
2,4,5-T [2C]	25.9		µg/kg wet	6.70	33.3		78	40-140	4	25
2,4,5-TP (Silvex)	36.1		µg/kg wet	6.70	33.3		108	40-140	3	25
2,4,5-TP (Silvex) [2C]	33.1		µg/kg wet	6.70	33.3		99	40-140	0.8	25
2,4-D	30.5		µg/kg wet	6.70	33.3		91	40-140	8	25
2,4-D [2C]	24.7		µg/kg wet	6.70	33.3		74	40-140	15	25
2,4-DB	27.3		µg/kg wet	6.70	33.3		82	40-140	6	25
2,4-DB [2C]	22.1		µg/kg wet	6.70	33.3		66	40-140	0.3	25
Dalapon	22.1		µg/kg wet	6.70	33.3		66	40-140	1	25
Dalapon [2C]	30.5		µg/kg wet	6.70	33.3		92	40-140	4	25
Dicamba	34.3		µg/kg wet	6.70	33.3		103	40-140	0.2	25
Dicamba [2C]	36.3		µg/kg wet	6.70	33.3		109	40-140	5	25
Dichlorprop	31.6		µg/kg wet	6.70	33.3		95	40-140	5	25
Dichlorprop [2C]	35.3		µg/kg wet	6.70	33.3		106	40-140	6	25
Dinoseb	36.2		µg/kg wet	6.70	33.3		109	40-140	1	25
Dinoseb [2C]	38.1		µg/kg wet	6.70	33.3		114	40-140	0.7	25
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*18.2*		µg/kg wet		*13.3*		*136*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*19.3*		µg/kg wet		*13.3*		*145*	*30-150*		
LCS Dup (8121073-BSD2)										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
MCPA	8400		µg/kg wet	670	10000		84	40-140	2	25
MCPA [2C]	9270		µg/kg wet	670	10000		93	40-140	4	25
MCPB	8730		µg/kg wet	670	10000		87	40-140	2	25
MCPB [2C]	9000		µg/kg wet	670	10000		90	40-140	6	25
MCPP	8270		µg/kg wet	670	10000		83	40-140	7	25

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121073 - SW846 3550B										
LCS Dup (8121073-BSD2)										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
MCPP [2C]	7000		µg/kg wet	670	10000		70	40-140	9	25
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*16.5*		µg/kg wet		*13.3*		*124*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*16.5*		µg/kg wet		*13.3*		*124*	*30-150*		
Duplicate (8121073-DUP1) **Source: SA88429-04**										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
2,4,5-T	BRL		µg/kg dry	6.70		BRL				30
2,4,5-T [2C]	BRL		µg/kg dry	6.70		BRL				30
2,4,5-TP (Silvex)	BRL		µg/kg dry	6.70		BRL				30
2,4,5-TP (Silvex) [2C]	BRL		µg/kg dry	6.70		BRL				30
2,4-D	BRL		µg/kg dry	6.70		BRL				30
2,4-D [2C]	BRL		µg/kg dry	6.70		BRL				30
2,4-DB	BRL		µg/kg dry	6.70		BRL				30
2,4-DB [2C]	BRL		µg/kg dry	6.70		BRL				30
Dalapon	BRL		µg/kg dry	6.70		BRL				30
Dalapon [2C]	BRL		µg/kg dry	6.70		BRL				30
Dicamba	BRL		µg/kg dry	6.70		BRL				30
Dicamba [2C]	BRL		µg/kg dry	6.70		BRL				30
Dichlorprop	BRL		µg/kg dry	6.70		BRL				30
Dichlorprop [2C]	BRL		µg/kg dry	6.70		BRL				30
Dinoseb	BRL		µg/kg dry	6.70		BRL				30
Dinoseb [2C]	BRL		µg/kg dry	6.70		BRL				30
MCPA	BRL		µg/kg dry	670		BRL				30
MCPA [2C]	BRL		µg/kg dry	670		BRL				30
MCPB	BRL		µg/kg dry	670		BRL				30
MCPB [2C]	BRL		µg/kg dry	670		BRL				30
MCPP	BRL		µg/kg dry	670		BRL				30
MCPP [2C]	BRL		µg/kg dry	670		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*10.7*		µg/kg dry		*14.6*		*73*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*12.7*		µg/kg dry		*14.6*		*87*	*30-150*		

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8120860 - SW846 3510C										
Blank (8120860-BLK1)										
Prepared: 10-Dec-08 Analyzed: 11-Dec-08										
Gasoline	BRL		mg/l	0.05						
Fuel Oil #2	BRL		mg/l	0.05						
Fuel Oil #4	BRL		mg/l	0.05						
Fuel Oil #6	BRL		mg/l	0.05						
Motor Oil	BRL		mg/l	0.05						
Aviation Fuel	BRL		mg/l	0.05						
Unidentified	BRL		mg/l	0.05						
Other Oil	BRL		mg/l	0.05						
Total Petroleum Hydrocarbons	BRL		mg/l	0.05						
C9-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.05						
Surrogate: 1-Chlorooctadecane	*0.0374*		mg/l		*0.0500*		*75*	*50-150*		
LCS (8120860-BS1)										
Prepared: 10-Dec-08 Analyzed: 11-Dec-08										
C9-C36 Aliphatic Hydrocarbons	1.1		mg/l	0.05	1.40		80	60-120		
Surrogate: 1-Chlorooctadecane	*0.0313*		mg/l		*0.0500*		*63*	*50-150*		
Matrix Spike (8120860-MS1) **Source: SA88514-07**										
Prepared: 10-Dec-08 Analyzed: 11-Dec-08										
C9-C36 Aliphatic Hydrocarbons	1.4		mg/l	0.06	1.65	BRL	86	50-150		
Surrogate: 1-Chlorooctadecane	*0.0406*		mg/l		*0.0588*		*69*	*50-150*		
Matrix Spike Dup (8120860-MSD1) **Source: SA88514-07**										
Prepared: 10-Dec-08 Analyzed: 11-Dec-08										
C9-C36 Aliphatic Hydrocarbons	1.3		mg/l	0.06	1.56	BRL	87	50-150	1	30
Surrogate: 1-Chlorooctadecane	*0.0373*		mg/l		*0.0556*		*67*	*50-150*		
Batch 8121068 - SW846 3550B										
Blank (8121068-BLK1)										
Prepared: 12-Dec-08 Analyzed: 15-Dec-08										
Gasoline	BRL		mg/kg wet	13.3						
Fuel Oil #2	BRL		mg/kg wet	13.3						
Fuel Oil #4	BRL		mg/kg wet	13.3						
Fuel Oil #6	BRL		mg/kg wet	13.3						
Motor Oil	BRL		mg/kg wet	13.3						
Aviation Fuel	BRL		mg/kg wet	13.3						
Unidentified	BRL		mg/kg wet	13.3						
Other Oil	BRL		mg/kg wet	13.3						
Total Petroleum Hydrocarbons	BRL		mg/kg wet	13.3						
C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg wet	13.3						
Surrogate: 1-Chlorooctadecane	*2.96*		mg/kg wet		*3.33*		*89*	*50-150*		
LCS (8121068-BS1)										
Prepared: 12-Dec-08 Analyzed: 15-Dec-08										
C9-C36 Aliphatic Hydrocarbons	58.8		mg/kg wet	13.3	93.3		63	60-120		
Surrogate: 1-Chlorooctadecane	*2.43*		mg/kg wet		*3.33*		*73*	*50-150*		
Duplicate (8121068-DUP1) **Source: SA88527-01**										
Prepared: 12-Dec-08 Analyzed: 15-Dec-08										
Gasoline	BRL		mg/kg dry	33.7		BRL				50
Fuel Oil #2	BRL		mg/kg dry	33.7		BRL				50
Fuel Oil #4	BRL		mg/kg dry	33.7		BRL				50
Fuel Oil #6	BRL		mg/kg dry	33.7		BRL				50

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121068 - SW846 3550B										
Duplicate (8121068-DUP1) **Source: SA88527-01**										
Prepared: 12-Dec-08 Analyzed: 15-Dec-08										
Motor Oil	BRL		mg/kg dry	33.7		BRL				50
Aviation Fuel	BRL		mg/kg dry	33.7		BRL				50
Unidentified	BRL		mg/kg dry	33.7		BRL				50
Other Oil	BRL		mg/kg dry	33.7		BRL				50
Total Petroleum Hydrocarbons	BRL		mg/kg dry	33.7		BRL				50
C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	33.7		BRL				50
Surrogate: 1-Chlorooctadecane	*3.90*		mg/kg dry		*4.22*		*92*	*50-150*		
Matrix Spike (8121068-MS1) **Source: SA88527-01**										
Prepared: 12-Dec-08 Analyzed: 15-Dec-08										
C9-C36 Aliphatic Hydrocarbons	75.8		mg/kg dry	17.3	121	BRL	62	50-150		
Surrogate: 1-Chlorooctadecane	*3.02*		mg/kg dry		*4.34*		*70*	*50-150*		
Matrix Spike Dup (8121068-MSD1) **Source: SA88527-01**										
Prepared: 12-Dec-08 Analyzed: 15-Dec-08										
C9-C36 Aliphatic Hydrocarbons	78.1		mg/kg dry	17.3	122	BRL	64	50-150	3	30
Surrogate: 1-Chlorooctadecane	*3.29*		mg/kg dry		*4.34*		*76*	*50-150*		
Batch 8121075 - SW846 3510C										
Blank (8121075-BLK1)										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
Gasoline	BRL		mg/l	0.05						
Fuel Oil #2	BRL		mg/l	0.05						
Fuel Oil #4	BRL		mg/l	0.05						
Fuel Oil #6	BRL		mg/l	0.05						
Motor Oil	BRL		mg/l	0.05						
Aviation Fuel	BRL		mg/l	0.05						
Unidentified	BRL		mg/l	0.05						
Other Oil	BRL		mg/l	0.05						
Total Petroleum Hydrocarbons	BRL		mg/l	0.05						
C9-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.05						
Surrogate: 1-Chlorooctadecane	*0.0289*		mg/l		*0.0500*		*58*	*50-150*		
LCS (8121075-BS1)										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
C9-C36 Aliphatic Hydrocarbons	1.5		mg/l	0.05	1.40		107	60-120		
Surrogate: 1-Chlorooctadecane	*0.0304*		mg/l		*0.0500*		*61*	*50-150*		
Matrix Spike (8121075-MS1) **Source: SA88658-07**										
Prepared: 12-Dec-08 Analyzed: 17-Dec-08										
C9-C36 Aliphatic Hydrocarbons	1.0		mg/l	0.05	1.47	BRL	71	50-150		
Surrogate: 1-Chlorooctadecane	*0.0274*		mg/l		*0.0526*		*52*	*50-150*		
Matrix Spike Dup (8121075-MSD1) **Source: SA88658-07**										
Prepared: 12-Dec-08 Analyzed: 17-Dec-08										
C9-C36 Aliphatic Hydrocarbons	1.0		mg/l	0.05	1.43	BRL	70	50-150	2	30
Surrogate: 1-Chlorooctadecane	*0.0262*		mg/l		*0.0510*		*51*	*50-150*		

Total 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 8120894 - SW846 3050B										
Blank (8120894-BLK1)										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
Lead	BRL		mg/kg wet	1.38						
Selenium	BRL		mg/kg wet	1.38						
Cadmium	BRL		mg/kg wet	0.459						
Silver	BRL		mg/kg wet	1.38						
Arsenic	BRL		mg/kg wet	1.38						
Chromium	BRL		mg/kg wet	0.917						
Barium	BRL		mg/kg wet	0.917						
Duplicate (8120894-DUP1) Source: SA88527-01										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
Lead	8.79		mg/kg dry	1.67		8.85			0.6	20
Selenium	BRL		mg/kg dry	1.67		BRL				20
Cadmium	1.24		mg/kg dry	0.556		1.25			0.6	20
Chromium	29.0		mg/kg dry	1.11		30.5			5	20
Silver	0.350	J	mg/kg dry	1.67		BRL				20
Arsenic	2.07		mg/kg dry	1.67		2.26			8	20
Barium	121		mg/kg dry	1.11		132			9	20
Matrix Spike (8120894-MS1) Source: SA88527-02										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
Selenium	144		mg/kg dry	1.52	126	BRL	114	75-125		
Lead	131		mg/kg dry	1.52	126	12.6	94	75-125		
Cadmium	142		mg/kg dry	0.506	126	0.533	112	75-125		
Arsenic	140		mg/kg dry	1.52	126	1.57	109	75-125		
Silver	144		mg/kg dry	1.52	126	BRL	114	75-125		
Chromium	156		mg/kg dry	1.01	126	12.0	114	75-125		
Barium	184		mg/kg dry	1.01	126	26.5	124	75-125		
Matrix Spike Dup (8120894-MSD1) Source: SA88527-02										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
Lead	128		mg/kg dry	1.44	120	12.6	96	75-125	3	20
Selenium	138		mg/kg dry	1.44	120	BRL	115	75-125	4	20
Arsenic	130		mg/kg dry	1.44	120	1.57	107	75-125	7	20
Chromium	145		mg/kg dry	0.962	120	12.0	110	75-125	7	20
Silver	135		mg/kg dry	1.44	120	BRL	112	75-125	6	20
Cadmium	133		mg/kg dry	0.481	120	0.533	110	75-125	7	20
Barium	163		mg/kg dry	0.962	120	26.5	113	75-125	12	20
Post Spike (8120894-PS1) Source: SA88527-02										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
Lead	126		mg/kg dry	1.42	118	12.6	96	80-120		
Selenium	137		mg/kg dry	1.42	118	BRL	116	80-120		
Cadmium	133		mg/kg dry	0.472	118	0.533	112	80-120		
Arsenic	132		mg/kg dry	1.42	118	1.57	111	80-120		
Silver	134		mg/kg dry	1.42	118	BRL	114	80-120		
Chromium	143		mg/kg dry	0.944	118	12.0	111	80-120		
Barium	159		mg/kg dry	0.944	118	26.5	112	80-120		
Reference (8120894-SRM1)										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
Lead	60.4		mg/kg wet	1.50	68.2		89	80.9-119.9		
Selenium	111		mg/kg wet	1.50	99.8		111	79.9-119.6		

Total 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 8120894 - SW846 3050B										
Reference (8120894-SRM1)										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
Chromium	78.0		mg/kg wet	1.00	69.2		113	81.9-118.1		
Arsenic	65.3		mg/kg wet	1.50	61.7		106	82.9-117.1		
Silver	35.1		mg/kg wet	1.50	31.3		112	66.2-133.7		
Cadmium	134		mg/kg wet	0.500	129		104	83.7-116.7		
Barium	141		mg/kg wet	1.00	128		110	80.5-119.5		
Reference (8120894-SRM2)										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
Lead	65.1		mg/kg wet	1.50	69.0		94	80.9-119.9		
Selenium	119		mg/kg wet	1.50	101		118	79.9-119.6		
Arsenic	68.2		mg/kg wet	1.50	62.4		109	82.9-117.1		
Cadmium	144		mg/kg wet	0.500	131		110	83.7-116.7		
Chromium	82.4		mg/kg wet	1.00	70.0		118	81.9-118.1		
Silver	36.0		mg/kg wet	1.50	31.6		114	66.2-133.7		
Barium	147		mg/kg wet	1.00	130		113	80.5-119.5		
Batch 8120895 - EPA200/SW7000 Series										
Blank (8120895-BLK1)										
Prepared: 12-Dec-08 Analyzed: 15-Dec-08										
Mercury	BRL		mg/kg wet	0.0299						
Duplicate (8120895-DUP1) **Source: SA88527-01**										
Prepared: 12-Dec-08 Analyzed: 15-Dec-08										
Mercury	BRL		mg/kg dry	0.0373		0.0059				20
Matrix Spike (8120895-MS1) **Source: SA88527-02**										
Prepared: 12-Dec-08 Analyzed: 15-Dec-08										
Mercury	0.525		mg/kg dry	0.0292	0.406	0.0210	124	75-125		
Matrix Spike Dup (8120895-MSD1) **Source: SA88527-02**										
Prepared: 12-Dec-08 Analyzed: 15-Dec-08										
Mercury	0.576		mg/kg dry	0.0321	0.445	0.0210	125	75-125	9	20
Reference (8120895-SRM1)										
Prepared: 12-Dec-08 Analyzed: 15-Dec-08										
Mercury	2.29		mg/kg wet	0.0300	2.01		114	71.7-128		
Batch 8121049 - SW846 3005A										
Blank (8121049-BLK1)										
Prepared: 15-Dec-08 Analyzed: 17-Dec-08										
Selenium	BRL		mg/l	0.0150						
Lead	BRL		mg/l	0.0075						
Cadmium	BRL		mg/l	0.0025						
Silver	BRL		mg/l	0.0050						
Barium	BRL		mg/l	0.0050						
Arsenic	BRL		mg/l	0.0040						
Chromium	BRL		mg/l	0.0050						
LCS (8121049-BS1)										
Prepared: 15-Dec-08 Analyzed: 17-Dec-08										
Lead	1.24		mg/l	0.0075	1.25		99	85-115		
Selenium	1.27		mg/l	0.0150	1.25		101	85-115		
Barium	1.32		mg/l	0.0050	1.25		105	85-115		

Total 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 8121049 - SW846 3005A										
LCS (8121049-BS1)										
Prepared: 15-Dec-08 Analyzed: 17-Dec-08										
Cadmium	1.29		mg/l	0.0025	1.25		103	85-115		
Chromium	1.27		mg/l	0.0050	1.25		101	85-115		
Arsenic	1.25		mg/l	0.0040	1.25		100	85-115		
Silver	1.25		mg/l	0.0050	1.25		100	85-115		
LCS Dup (8121049-BSD1)										
Prepared: 15-Dec-08 Analyzed: 17-Dec-08										
Lead	1.18		mg/l	0.0075	1.25		95	85-115	4	20
Selenium	1.20		mg/l	0.0150	1.25		96	85-115	5	20
Cadmium	1.24		mg/l	0.0025	1.25		99	85-115	4	20
Barium	1.27		mg/l	0.0050	1.25		102	85-115	3	20
Silver	1.19		mg/l	0.0050	1.25		95	85-115	5	20
Chromium	1.22		mg/l	0.0050	1.25		98	85-115	4	20
Arsenic	1.19		mg/l	0.0040	1.25		95	85-115	5	20
Duplicate (8121049-DUP1) **Source: SA88527-04**										
Prepared: 15-Dec-08 Analyzed: 17-Dec-08										
Lead	0.475		mg/l	0.0075		0.478			0.5	20
Selenium	BRL		mg/l	0.0150		BRL				20
Arsenic	0.0072		mg/l	0.0040		0.0081			12	20
Barium	0.0780		mg/l	0.0050		0.0780			0.06	20
Silver	BRL		mg/l	0.0050		BRL				20
Chromium	0.0758		mg/l	0.0050		0.0783			3	20
Cadmium	0.0096		mg/l	0.0025		0.0098			2	20
Matrix Spike (8121049-MS1) **Source: SA88527-07**										
Prepared: 15-Dec-08 Analyzed: 17-Dec-08										
Lead	1.32		mg/l	0.0075	1.25	0.374	76	75-125		
Selenium	0.974		mg/l	0.0150	1.25	0.0052	78	75-125		
Chromium	1.45		mg/l	0.0050	1.25	0.474	78	75-125		
Silver	1.06		mg/l	0.0050	1.25	0.0190	84	75-125		
Cadmium	0.986		mg/l	0.0025	1.25	0.0245	77	75-125		
Barium	3.16		mg/l	0.0050	1.25	2.06	88	75-125		
Arsenic	1.14		mg/l	0.0040	1.25	0.157	79	75-125		
Matrix Spike Dup (8121049-MSD1) **Source: SA88527-07**										
Prepared: 15-Dec-08 Analyzed: 17-Dec-08										
Lead	1.50		mg/l	0.0075	1.25	0.374	90	75-125	12	20
Selenium	1.17		mg/l	0.0150	1.25	0.0052	93	75-125	18	20
Cadmium	1.06		mg/l	0.0025	1.25	0.0245	83	75-125	7	20
Arsenic	1.31		mg/l	0.0040	1.25	0.157	92	75-125	14	20
Chromium	1.47		mg/l	0.0050	1.25	0.474	80	75-125	2	20
Silver	0.614	QM7, QR7	mg/l	0.0050	1.25	0.0190	48	75-125	54	20
Barium	3.33		mg/l	0.0050	1.25	2.06	102	75-125	5	20
Batch 8121616 - SW846 3005A										
Blank (8121616-BLK1)										
Prepared & Analyzed: 19-Dec-08										
Selenium	BRL		mg/l	0.150						
Lead	BRL		mg/l	0.0750						
Cadmium	BRL		mg/l	0.0250						
Chromium	BRL		mg/l	0.0500						

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* Reportable Detection Limit BRL = Below Reporting Limit

Total 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 8121616 - SW846 3005A										
Blank (8121616-BLK1)										
Prepared & Analyzed: 19-Dec-08										
Silver	BRL		mg/l	0.0500						
Barium	BRL		mg/l	0.0500						
Arsenic	BRL		mg/l	0.0400						
LCS (8121616-BS1)										
Prepared & Analyzed: 19-Dec-08										
Selenium	13.5		mg/l	0.150	12.5		108	85-115		
Lead	12.2		mg/l	0.0750	12.5		97	85-115		
Chromium	13.4		mg/l	0.0500	12.5		107	85-115		
Barium	13.0		mg/l	0.0500	12.5		104	85-115		
Cadmium	13.9		mg/l	0.0250	12.5		111	85-115		
Silver	12.9		mg/l	0.0500	12.5		103	85-115		
Arsenic	12.6		mg/l	0.0400	12.5		101	85-115		
LCS Dup (8121616-BSD1)										
Prepared & Analyzed: 19-Dec-08										
Selenium	13.4		mg/l	0.150	12.5		107	85-115	1	20
Lead	12.0		mg/l	0.0750	12.5		96	85-115	1	20
Chromium	13.2		mg/l	0.0500	12.5		106	85-115	2	20
Arsenic	12.5		mg/l	0.0400	12.5		100	85-115	0.9	20
Silver	12.7		mg/l	0.0500	12.5		102	85-115	1	20
Cadmium	13.7		mg/l	0.0250	12.5		110	85-115	1	20
Barium	12.9		mg/l	0.0500	12.5		103	85-115	0.8	20
Duplicate (8121616-DUP1)	**Source: SA88527-04**									
Prepared & Analyzed: 19-Dec-08										
Lead	0.470		mg/l	0.0750		0.488			4	20
Selenium	BRL		mg/l	0.150		BRL				20
Arsenic	BRL		mg/l	0.0400		BRL				20
Barium	0.0930		mg/l	0.0500		0.0930			0	20
Cadmium	0.0105	J	mg/l	0.0250		0.0105			0	20
Silver	BRL		mg/l	0.0500		BRL				20
Chromium	0.0945		mg/l	0.0500		0.0965			2	20
Matrix Spike (8121616-MS1)	**Source: SA88527-04**									
Prepared & Analyzed: 19-Dec-08										
Selenium	13.4		mg/l	0.150	12.5	BRL	107	75-125		
Lead	12.6		mg/l	0.0750	12.5	0.488	97	75-125		
Arsenic	12.5		mg/l	0.0400	12.5	BRL	100	75-125		
Barium	12.9		mg/l	0.0500	12.5	0.0930	102	75-125		
Cadmium	13.7		mg/l	0.0250	12.5	0.0105	110	75-125		
Silver	12.8		mg/l	0.0500	12.5	BRL	102	75-125		
Chromium	13.3		mg/l	0.0500	12.5	0.0965	106	75-125		
Matrix Spike Dup (8121616-MSD1)	**Source: SA88527-04**									
Prepared & Analyzed: 19-Dec-08										
Selenium	13.3		mg/l	0.150	12.5	BRL	107	75-125	0.4	20
Lead	12.4		mg/l	0.0750	12.5	0.488	95	75-125	1	20
Barium	12.8		mg/l	0.0500	12.5	0.0930	102	75-125	0.3	20
Silver	12.7		mg/l	0.0500	12.5	BRL	102	75-125	0.5	20
Arsenic	12.4		mg/l	0.0400	12.5	BRL	99	75-125	0.7	20
Chromium	13.2		mg/l	0.0500	12.5	0.0965	105	75-125	0.7	20

Total 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 8121616 - SW846 3005A										
Matrix Spike Dup (8121616-MSD1)	**Source: SA88527-04**									
Prepared & Analyzed: 19-Dec-08										
Cadmium	13.6		mg/l	0.0250	12.5	0.0105	109	75-125	1	20
Post Spike (8121616-PS1)	**Source: SA88527-04**									
Prepared & Analyzed: 19-Dec-08										
Selenium	13.9		mg/l	0.150	12.5	BRL	111	80-120		
Lead	12.9		mg/l	0.0750	12.5	0.488	100	80-120		
Chromium	13.8		mg/l	0.0500	12.5	0.0965	110	80-120		
Barium	13.3		mg/l	0.0500	12.5	0.0930	106	80-120		
Cadmium	14.2		mg/l	0.0250	12.5	0.0105	113	80-120		
Silver	13.1		mg/l	0.0500	12.5	BRL	105	80-120		
Arsenic	12.9		mg/l	0.0400	12.5	BRL	103	80-120		

Total 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 8121050 - EPA200/SW7000 Series										
Blank (8121050-BLK1)										
Prepared: 11-Dec-08 Analyzed: 16-Dec-08										
Mercury	BRL		mg/l	0.00020						
LCS (8121050-BS1)										
Prepared: 11-Dec-08 Analyzed: 16-Dec-08										
Mercury	0.00431		mg/l	0.00020	0.00500		86	85-115		
Duplicate (8121050-DUP1)	**Source: SA88527-04**									
Prepared: 11-Dec-08 Analyzed: 16-Dec-08										
Mercury	0.00016	J	mg/l	0.00020		0.00016			0.6	20
Matrix Spike (8121050-MS1)	**Source: SA88527-07**									
Prepared: 11-Dec-08 Analyzed: 16-Dec-08										
Mercury	0.00546		mg/l	0.00020	0.00500	0.00026	104	75-125		
Matrix Spike Dup (8121050-MSD1)	**Source: SA88527-07**									
Prepared: 11-Dec-08 Analyzed: 16-Dec-08										
Mercury	0.00473		mg/l	0.00020	0.00500	0.00026	89	75-125	14	20
Post Spike (8121050-PS1)	**Source: SA88527-07**									
Prepared: 11-Dec-08 Analyzed: 16-Dec-08										
Mercury	0.00543		mg/l	0.00020	0.00500	0.00026	103	85-115		

SPLP Metals by EPA 1312 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8120956 - SW846 3010A										
Blank (8120956-BLK1)										
Prepared: 15-Dec-08 Analyzed: 16-Dec-08										
Lead	BRL		mg/l	0.0150						
Selenium	BRL		mg/l	0.0300						
Silver	BRL		mg/l	0.0100						
Arsenic	BRL		mg/l	0.0080						
Cadmium	BRL		mg/l	0.0050						
Chromium	BRL		mg/l	0.0100						
Barium	BRL		mg/l	0.0100						
LCS (8120956-BS1)										
Prepared: 15-Dec-08 Analyzed: 16-Dec-08										
Lead	2.66		mg/l	0.0150	2.50		106	85-115		
Selenium	2.66		mg/l	0.0300	2.50		106	85-115		
Arsenic	2.69		mg/l	0.0080	2.50		108	85-115		
Chromium	2.73		mg/l	0.0100	2.50		109	85-115		
Silver	2.61		mg/l	0.0100	2.50		104	85-115		
Cadmium	2.72		mg/l	0.0050	2.50		109	85-115		
Barium	2.78		mg/l	0.0100	2.50		111	85-115		
LCS Dup (8120956-BSD1)										
Prepared: 15-Dec-08 Analyzed: 16-Dec-08										
Lead	2.56		mg/l	0.0150	2.50		102	85-115	4	20
Selenium	2.57		mg/l	0.0300	2.50		103	85-115	3	20
Chromium	2.63		mg/l	0.0100	2.50		105	85-115	4	20
Arsenic	2.60		mg/l	0.0080	2.50		104	85-115	4	20
Silver	2.50		mg/l	0.0100	2.50		100	85-115	5	20
Cadmium	2.61		mg/l	0.0050	2.50		104	85-115	4	20
Barium	2.68		mg/l	0.0100	2.50		107	85-115	4	20
Duplicate (8120956-DUP1) **Source: SA88527-03**										
Prepared: 15-Dec-08 Analyzed: 16-Dec-08										
Lead	0.0300	QR8	mg/l	0.0150		0.0191			44	20
Selenium	BRL		mg/l	0.0300		BRL				20
Silver	BRL		mg/l	0.0100		BRL				20
Cadmium	BRL		mg/l	0.0050		BRL				20
Arsenic	BRL		mg/l	0.0080		BRL				20
Chromium	BRL		mg/l	0.0100		BRL				20
Barium	0.0613	QR6	mg/l	0.0100		0.0397			43	20
Matrix Spike (8120956-MS1) **Source: SA88527-01**										
Prepared: 15-Dec-08 Analyzed: 16-Dec-08										
Selenium	2.62		mg/l	0.0300	2.50	BRL	105	75-125		
Lead	2.64		mg/l	0.0150	2.50	BRL	106	75-125		
Chromium	2.67		mg/l	0.0100	2.50	BRL	107	75-125		
Silver	2.62		mg/l	0.0100	2.50	BRL	105	75-125		
Arsenic	2.65		mg/l	0.0080	2.50	BRL	106	75-125		
Cadmium	2.68		mg/l	0.0050	2.50	BRL	107	75-125		
Barium	2.77		mg/l	0.0100	2.50	0.0428	109	75-125		
Matrix Spike Dup (8120956-MSD1) **Source: SA88527-01**										
Prepared: 15-Dec-08 Analyzed: 16-Dec-08										
Selenium	2.63		mg/l	0.0300	2.50	BRL	105	75-125	0.4	20
Lead	2.64		mg/l	0.0150	2.50	BRL	106	75-125	0.04	20

SPLP Metals by EPA 1312 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8120956 - SW846 3010A										
Matrix Spike Dup (8120956-MSD1) Source: SA88527-01										
Prepared: 15-Dec-08 Analyzed: 16-Dec-08										
Silver	2.60		mg/l	0.0100	2.50	BRL	104	75-125	0.7	20
Arsenic	2.66		mg/l	0.0080	2.50	BRL	106	75-125	0.3	20
Cadmium	2.68		mg/l	0.0050	2.50	BRL	107	75-125	0.007	20
Chromium	2.67		mg/l	0.0100	2.50	BRL	107	75-125	0.04	20
Barium	2.78		mg/l	0.0100	2.50	0.0428	110	75-125	0.4	20
Post Spike (8120956-PS1) Source: SA88527-01										
Prepared: 15-Dec-08 Analyzed: 16-Dec-08										
Selenium	2.60		mg/l	0.0300	2.50	BRL	104	75-125		
Lead	2.61		mg/l	0.0150	2.50	BRL	104	75-125		
Silver	2.56		mg/l	0.0100	2.50	BRL	102	75-125		
Arsenic	2.64		mg/l	0.0080	2.50	BRL	105	75-125		
Cadmium	2.65		mg/l	0.0050	2.50	BRL	106	75-125		
Chromium	2.64		mg/l	0.0100	2.50	BRL	106	75-125		
Barium	2.74		mg/l	0.0100	2.50	0.0428	108	75-125		
Batch 8120957 - EPA200/SW7000 Series										
Blank (8120957-BLK1)										
Prepared & Analyzed: 15-Dec-08										
Mercury	BRL		mg/l	0.00020						
LCS (8120957-BS1)										
Prepared & Analyzed: 15-Dec-08										
Mercury	0.00453		mg/l	0.00020	0.00500		91	56.1-122		
Duplicate (8120957-DUP1) Source: SA88527-03										
Prepared & Analyzed: 15-Dec-08										
Mercury	BRL		mg/l	0.00020		BRL				20
Matrix Spike (8120957-MS1) Source: SA88527-01										
Prepared & Analyzed: 15-Dec-08										
Mercury	0.00468		mg/l	0.00020	0.00500	BRL	94	59.8-119		
Matrix Spike Dup (8120957-MSD1) Source: SA88527-01										
Prepared & Analyzed: 15-Dec-08										
Mercury	0.00456		mg/l	0.00020	0.00500	BRL	91	59.8-119	3	20
Post Spike (8120957-PS1) Source: SA88527-01										
Prepared & Analyzed: 15-Dec-08										
Mercury	0.00460		mg/l	0.00020	0.00500	BRL	92	72.4-113		
Batch 8121297 - SW846 3010A										
Blank (8121297-BLK1)										
Prepared & Analyzed: 16-Dec-08										
Lead	BRL		mg/l	0.0150						
Selenium	BRL		mg/l	0.0300						
Cadmium	BRL		mg/l	0.0050						
Chromium	BRL		mg/l	0.0100						
Arsenic	BRL		mg/l	0.0080						
Silver	BRL		mg/l	0.0100						
Barium	BRL		mg/l	0.0100						
LCS (8121297-BS1)										
Prepared & Analyzed: 16-Dec-08										

SPLP Metals by EPA 1312 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121297 - SW846 3010A										
LCS (8121297-BS1)										
Prepared & Analyzed: 16-Dec-08										
Selenium	2.50		mg/l	0.0300	2.50		100	85-115		
Lead	2.47		mg/l	0.0150	2.50		99	85-115		
Cadmium	2.65		mg/l	0.0050	2.50		106	85-115		
Chromium	2.61		mg/l	0.0100	2.50		104	85-115		
Arsenic	2.49		mg/l	0.0080	2.50		100	85-115		
Silver	2.50		mg/l	0.0100	2.50		100	85-115		
Barium	2.59		mg/l	0.0100	2.50		104	85-115		
LCS Dup (8121297-BSD1)										
Prepared & Analyzed: 16-Dec-08										
Selenium	2.44		mg/l	0.0300	2.50		97	85-115	3	20
Lead	2.44		mg/l	0.0150	2.50		98	85-115	1	20
Cadmium	2.60		mg/l	0.0050	2.50		104	85-115	2	20
Chromium	2.60		mg/l	0.0100	2.50		104	85-115	0.6	20
Arsenic	2.44		mg/l	0.0080	2.50		98	85-115	2	20
Silver	2.48		mg/l	0.0100	2.50		99	85-115	1	20
Barium	2.58		mg/l	0.0100	2.50		103	85-115	0.4	20
Duplicate (8121297-DUP1)	**Source: SA88527-13**									
Prepared & Analyzed: 16-Dec-08										
Selenium	BRL		mg/l	0.0300		BRL				20
Lead	BRL		mg/l	0.0150		BRL				20
Chromium	BRL		mg/l	0.0100		BRL				20
Silver	BRL		mg/l	0.0100		BRL				20
Cadmium	BRL		mg/l	0.0050		BRL				20
Arsenic	BRL		mg/l	0.0080		BRL				20
Barium	0.0542		mg/l	0.0100		0.0576			6	20
Matrix Spike (8121297-MS1)	**Source: SA88527-13**									
Prepared & Analyzed: 16-Dec-08										
Lead	2.43		mg/l	0.0150	2.50	BRL	97	75-125		
Selenium	2.49		mg/l	0.0300	2.50	BRL	100	75-125		
Chromium	2.59		mg/l	0.0100	2.50	BRL	104	75-125		
Silver	2.48		mg/l	0.0100	2.50	BRL	99	75-125		
Arsenic	2.49		mg/l	0.0080	2.50	BRL	100	75-125		
Cadmium	2.62		mg/l	0.0050	2.50	BRL	105	75-125		
Barium	2.60		mg/l	0.0100	2.50	0.0576	102	75-125		
Matrix Spike Dup (8121297-MSD1)	**Source: SA88527-13**									
Prepared & Analyzed: 16-Dec-08										
Lead	2.42		mg/l	0.0150	2.50	BRL	97	75-125	0.3	20
Selenium	2.50		mg/l	0.0300	2.50	BRL	100	75-125	0.3	20
Cadmium	2.61		mg/l	0.0050	2.50	BRL	104	75-125	0.3	20
Silver	2.46		mg/l	0.0100	2.50	BRL	99	75-125	0.5	20
Chromium	2.59		mg/l	0.0100	2.50	BRL	104	75-125	0.04	20
Arsenic	2.50		mg/l	0.0080	2.50	BRL	100	75-125	0.4	20
Barium	2.64		mg/l	0.0100	2.50	0.0576	103	75-125	1	20
Post Spike (8121297-PS1)	**Source: SA88527-13**									
Prepared & Analyzed: 16-Dec-08										
Lead	2.43		mg/l	0.0150	2.50	BRL	97	75-125		
Selenium	2.53		mg/l	0.0300	2.50	BRL	101	75-125		

SPLP Metals by EPA 1312 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121297 - SW846 3010A										
Post Spike (8121297-PS1)	**Source: SA88527-13**									
Prepared & Analyzed: 16-Dec-08										
Cadmium	2.62		mg/l	0.0050	2.50	BRL	105	75-125		
Silver	2.47		mg/l	0.0100	2.50	BRL	99	75-125		
Arsenic	2.51		mg/l	0.0080	2.50	BRL	100	75-125		
Chromium	2.55		mg/l	0.0100	2.50	BRL	102	75-125		
Barium	2.61		mg/l	0.0100	2.50	0.0576	102	75-125		
Batch 8121298 - EPA200/SW7000 Series										
Blank (8121298-BLK1)										
Prepared & Analyzed: 16-Dec-08										
Mercury	BRL		mg/l	0.00020						
LCS (8121298-BS1)										
Prepared & Analyzed: 16-Dec-08										
Mercury	0.00427		mg/l	0.00020	0.00500		85	56.1-122		
Duplicate (8121298-DUP1)	**Source: SA88527-13**									
Prepared & Analyzed: 16-Dec-08										
Mercury	BRL		mg/l	0.00020		BRL				20
Matrix Spike (8121298-MS1)	**Source: SA88527-13**									
Prepared & Analyzed: 16-Dec-08										
Mercury	0.00445		mg/l	0.00020	0.00500	BRL	89	59.8-119		
Matrix Spike Dup (8121298-MSD1)	**Source: SA88527-13**									
Prepared & Analyzed: 16-Dec-08										
Mercury	0.00441		mg/l	0.00020	0.00500	BRL	88	59.8-119	0.9	20

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8120995 - General Preparation										
Duplicate (8120995-DUP1)	**Source: SA88519-08**									
Prepared & Analyzed: 11-Dec-08										
% Solids	75.5		%			85.0			12	20

Notes and Definitions

QC1	Analyte out of acceptance range.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR6	The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.
QR7	The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for batch duplicate.
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.
S06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
V11	Analyte concentration confirmed by duplicate analysis.
VC10	The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.
Z-2	LNo Dup due to limited volume
Z-2a	Matrix spike duplicate failed the 12 hour time window.
Z-2b	MS/MSD failed 12 hour window.
Z-2c	no dup due to limited volume
Z-2d	The response for the confirmation column was out of acceptance limits. The primary column was used for all data. Samples were BDL.
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
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

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

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.
Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 - includes #4 fuel oil
Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
Motor Oil - includes virgin and waste automobile oil
Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel - includes kerosene, Jet A and JP-4
Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as *TPH (Calculated as).

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.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Leja
Rebecca Merz

State Of Connecticut
Department of Environmental Protection
Laboratory Quality Control and Quality Assurance Form

Laboratory Name: Spectrum Analytical, Inc. - Agawam, MA	Project Name and Number:
Project Location: Conn Dot Flatbush Ave-Hartford, CT	Conn Dot Flatbush Ave-Hartford, CT/ 12701186
This Form Provides certifications for the following data set: SA88527-01 SA88527-11 SA88527-02 SA88527-12 SA88527-03 SA88527-13 SA88527-04 SA88527-14 SA88527-05 SA88527-06 SA88527-07 SA88527-08 SA88527-09 SA88527-10	List Specific Analytical Methods Used: +CT ETPH EPA 245.1/7470A SM2540 G Mod. SW846 1312 SW846 1312/6010B SW846 1312/7470A SW846 6010B SW846 7471A SW846 8082 SW846 8151A SW846 8260B SW846 8270C SW846 8270C/EPA 625 ! VOC Soil Extraction
Sample Matrices: Aqueous Soil/Sediment	

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain of Custody documentation for the data set?	☑ Yes ☐ No
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed?	☑ Yes ☐ No
C	Were all QC performance standards and recommendations for the specified methods achieved?	☑ Yes ☐ No
D	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☐ Yes ☑ No *

* The compounds and/or elements reported are as specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

Negative responses for A, B and C are addressed in a case narrative on the cover page of this report.

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

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Date: 12/22/2008

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name:	Spectrum Analytical, Inc. - Agawam, MA	**Client:**	Tetra Tech Rizzo - Hartford, CT
Project Location:	Conn Dot Flatbush Ave-Hartford, CT	**Project Number:**	12701186
Sampling Date(s): 05-Dec-08		**Laboratory Sample ID(s):** SA88527-01 through SA88527-14	

RCP Methods Used: +CT ETPH, EPA 245.1/7470A, SW846 1312, SW846 1312/6010B, SW846 1312/7470A, SW846 6010B, SW846 7471A, SW846 8082, SW846 8151A, SW846 8260B, SW846 8270C, SW846 8270C/EPA 625.1

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	***VPH and EPH methods only***: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)? * ** These methods have not yet been approved for release by CT DEP*	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature?	☐ Yes ☑ No ☐ N/A
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? * b) Were these reporting limits met? ** Exceptions are defined by qualifiers*	☑ Yes ☐ No ☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

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

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Date: 12/22/2008

CHAIN OF CUSTODY RECORD

Page 1 of 5

Analyses: TPH-Gasoline/BTEX, MTBE, CT 8020, TPH-Diesel, TPH-Motor Oil

CHAIN OF CUSTODY RECORD

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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Report Date:
26-Dec-08 11:12

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Tetra Tech Rizzo
150 Trumbull Street, 4th Floor
Hartford, CT 06103-2428
Attn: David Brassard

Project: Flatbush Ave - W. Hartford, CT
Project 12701186

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA88676-01	Trip Blank	Deionized Water	08-Dec-08 08:00	10-Dec-08 14:51
SA88676-02	RSB-2	Ground Water	08-Dec-08 11:00	10-Dec-08 14:51
SA88676-03	RSB-5 (4-8)	Soil	08-Dec-08 09:40	10-Dec-08 14:51
SA88676-04	RSB-2 (0-4)	Soil	08-Dec-08 09:10	10-Dec-08 14:51
SA88676-05	RSB-2 (8-12)	Soil	08-Dec-08 09:10	10-Dec-08 14:51

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
Vermont # VT-11393

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

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 62 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supercedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report is available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

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CASE NARRATIVE:

The samples were received 3.5 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.

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

SW846 6010B

Duplicates:

8121031-DUP1 *Source: SA88661-01*

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.

Arsenic

SW846 7471A

Spikes:

8121032-PS1 *Source: SA88661-02*

Analyte out of acceptance range.

Mercury

Duplicates:

8121032-DUP1 *Source: SA88661-01*

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.

SW846 8082

Samples:

SA88676-02 *RSB-2*

Elevated Reporting Limits due to limited sample volume.

SW846 8151A

SW846 8151A

Samples:

S815002-CCV2

The response for the confirmation column was out of acceptance limits. The primary column was used for all data. Samples were BDL.

MCPA [2C]
MCPB [2C]

S815002-CCV4

The response for the confirmation column was out of acceptance limits. The primary column was used for all data. Samples were BDL.

MCPA [2C]
MCPB [2C]

S815265-CCV2

The response for the confirmation column was out of acceptance limits. The primary column was used for all data. Samples were BDL.

MCPA [2C]
MCPB [2C]

S815265-CCV4

The response for the confirmation column was out of acceptance limits. The primary column was used for all data. Samples were BDL.

MCPA [2C]
MCPB [2C]

SA88676-02 *RSB-2*

Elevated Reporting Limits due to limited sample volume.

SW846 8260B

SW846 8260B

Laboratory Control Samples:

8121116-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

2-Butanone (MEK)
Acetone

Analyte out of acceptance range.

1,2,3-Trichlorobenzene

8121116-BSD1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

2-Butanone (MEK)
Acetone

Analyte out of acceptance range.

2,2-Dichloropropane

8121225-BS1

Analyte out of acceptance range.

n-Butylbenzene

8121225-BSD1

Analyte out of acceptance range.

Chloromethane

RPD out of acceptance range.

n-Butylbenzene

Spikes:

8121225-MS1 *Source: SA88663-03*

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

Chlorobenzene

SW846 8270C

Blanks:

8121325-BLK1

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

2,4,6-Tribromophenol

Laboratory Control Samples:

8121076-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

N-Nitrosodimethylamine
Phenol

8121325-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Aniline
Hexachlorobenzene

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

2,4,6-Tribromophenol

Spikes:

8121325-MS1 *Source: SA88675-05*

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

2,4,6-Tribromophenol

8121325-MSD1 *Source: SA88675-05*

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

2,4,6-Tribromophenol

Duplicates:

8121325-DUP1 *Source: SA88675-05*

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

2,4,6-Tribromophenol

Samples:

SA88676-03 *RSB-5 (4-8)*

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

2,4,6-Tribromophenol

SA88676-04 *RSB-2 (0-4)*

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

2,4,6-Tribromophenol

SA88676-05 *RSB-2 (8-12)*

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

2,4,6-Tribromophenol

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SA88676-01	12701186	Deionized Water	08-Dec-08 08:00	10-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5030 Water MS											
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	1.0	1	SW846 8260B	12-Dec-08	13-Dec-08	8121116	X
67-64-1	Acetone	BRL		µg/l	10.0	1	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/l	0.5	1	"	"	"	"	X
71-43-2	Benzene	BRL		µg/l	1.0	1	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/l	1.0	1	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/l	1.0	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/l	0.5	1	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/l	1.0	1	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/l	2.0	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/l	10.0	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/l	5.0	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/l	1.0	1	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/l	2.0	1	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/l	1.0	1	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/l	2.0	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/l	1.0	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/l	1.0	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/l	0.5	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/l	10.0	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0	1	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/l	5.0	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SA88676-01	12701186	Deionized Water	08-Dec-08 08:00	10-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5030 Water MS											
100-42-5	Styrene	BRL		µg/l	1.0	1	SW846 8260B	12-Dec-08	13-Dec-08	8121116	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/l	1.0	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/l	10.0	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/l	1.0	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	10.0	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/l	20.0	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0	1	"	"	"	"	X
64-17-5	Ethanol	BRL		µg/l	400	1	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*94*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*103*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*106*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*107*		*70-130 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-2 SA88676-02	12701186	Ground Water	08-Dec-08 11:00	10-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5030 Water MS											
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	1.0	1	SW846 8260B	12-Dec-08	13-Dec-08	8121116	X
67-64-1	Acetone	BRL		µg/l	10.0	1	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/l	0.5	1	"	"	"	"	X
71-43-2	Benzene	BRL		µg/l	1.0	1	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/l	1.0	1	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/l	1.0	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/l	0.5	1	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/l	1.0	1	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/l	2.0	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/l	10.0	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/l	5.0	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/l	1.0	1	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/l	2.0	1	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/l	1.0	1	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/l	2.0	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/l	1.0	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/l	1.0	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/l	0.5	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/l	10.0	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0	1	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/l	5.0	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-2 SA88676-02	12701186	Ground Water	08-Dec-08 11:00	10-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5030 Water MS											
100-42-5	Styrene	BRL		µg/l	1.0	1	SW846 8260B	12-Dec-08	13-Dec-08	8121116	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzehe	BRL		µg/l	1.0	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/l	1.0	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/l	10.0	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/l	1.0	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	10.0	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/l	20.0	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0	1	"	"	"	"	X
64-17-5	Ethanol	BRL		µg/l	400	1	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*92*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*105*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*105*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*99*		*70-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3510C											
83-32-9	Acenaphthene	BRL		µg/l	12.7	1	SW846 8270C	12-Dec-08	17-Dec-08	8121076	X
208-96-8	Acenaphthylene	BRL		µg/l	12.7	1	"	"	"	"	X
62-53-3	Aniline	BRL		µg/l	12.7	1	"	"	"	"	X
120-12-7	Anthracene	BRL		µg/l	12.7	1	"	"	"	"	X
1912-24-9	Atrazine	BRL		µg/l	12.7	1	"	"	"	"	
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/l	12.7	1	"	"	"	"	
92-87-5	Benzidine	BRL		µg/l	12.7	1	"	"	"	"	X
56-55-3	Benzo (a) anthracene	BRL		µg/l	12.7	1	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BRL		µg/l	12.7	1	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BRL		µg/l	12.7	1	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/l	12.7	1	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BRL		µg/l	12.7	1	"	"	"	"	X
65-85-0	Benzoic acid	BRL		µg/l	12.7	1	"	"	"	"	X
100-51-6	Benzyl alcohol	BRL		µg/l	12.7	1	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/l	12.7	1	"	"	"	"	X

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-2 SA88676-02	12701186	Ground Water	08-Dec-08 11:00	10-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3510C											
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/l	12.7	1	SW846 8270C	12-Dec-08	17-Dec-08	8121076	X
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/l	12.7	1	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/l	12.7	1	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/l	12.7	1	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	BRL		µg/l	12.7	1	"	"	"	"	X
86-74-8	Carbazole	BRL		µg/l	12.7	1	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	BRL		µg/l	12.7	1	"	"	"	"	X
106-47-8	4-Chloroaniline	BRL		µg/l	12.7	1	"	"	"	"	X
91-58-7	2-Chloronaphthalene	BRL		µg/l	12.7	1	"	"	"	"	X
95-57-8	2-Chlorophenol	BRL		µg/l	12.7	1	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/l	12.7	1	"	"	"	"	X
218-01-9	Chrysene	BRL		µg/l	12.7	1	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/l	12.7	1	"	"	"	"	X
132-64-9	Dibenzofuran	BRL		µg/l	12.7	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	12.7	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	12.7	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	12.7	1	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/l	12.7	1	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	BRL		µg/l	12.7	1	"	"	"	"	X
84-66-2	Diethyl phthalate	BRL		µg/l	12.7	1	"	"	"	"	X
131-11-3	Dimethyl phthalate	BRL		µg/l	12.7	1	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	BRL		µg/l	12.7	1	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	BRL		µg/l	12.7	1	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/l	12.7	1	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	BRL		µg/l	12.7	1	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	BRL		µg/l	12.7	1	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	BRL		µg/l	12.7	1	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	BRL		µg/l	12.7	1	"	"	"	"	X
206-44-0	Fluoranthene	BRL		µg/l	12.7	1	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/l	12.7	1	"	"	"	"	X
118-74-1	Hexachlorobenzene	BRL		µg/l	12.7	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/l	12.7	1	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	BRL		µg/l	12.7	1	"	"	"	"	X
67-72-1	Hexachloroethane	BRL		µg/l	12.7	1	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/l	12.7	1	"	"	"	"	X
78-59-1	Isophorone	BRL		µg/l	12.7	1	"	"	"	"	X
91-57-6	2-Methylnaphthalene	BRL		µg/l	12.7	1	"	"	"	"	X
95-48-7	2-Methylphenol	BRL		µg/l	12.7	1	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/l	25.3	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/l	12.7	1	"	"	"	"	X
88-74-4	2-Nitroaniline	BRL		µg/l	12.7	1	"	"	"	"	X
99-09-2	3-Nitroaniline	BRL		µg/l	12.7	1	"	"	"	"	X
100-01-6	4-Nitroaniline	BRL		µg/l	50.6	1	"	"	"	"	X
98-95-3	Nitrobenzene	BRL		µg/l	12.7	1	"	"	"	"	X
88-75-5	2-Nitrophenol	BRL		µg/l	12.7	1	"	"	"	"	X
100-02-7	4-Nitrophenol	BRL		µg/l	50.6	1	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	BRL		µg/l	12.7	1	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/l	12.7	1	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	BRL		µg/l	12.7	1	"	"	"	"	X
87-86-5	Pentachlorophenol	BRL		µg/l	50.6	1	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-2 SA88676-02	12701186	Ground Water	08-Dec-08 11:00	10-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3510C											
85-01-8	Phenanthrene	BRL		µg/l	12.7	1	SW846 8270C	12-Dec-08	17-Dec-08	8121076	X
108-95-2	Phenol	BRL		µg/l	12.7	1	"	"	"	"	X
129-00-0	Pyrene	BRL		µg/l	12.7	1	"	"	"	"	X
110-86-1	Pyridine	BRL		µg/l	12.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	12.7	1	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/l	12.7	1	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	BRL		µg/l	12.7	1	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	BRL		µg/l	12.7	1	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	BRL		µg/l	12.7	1	"	"	"	"	
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/l	12.7	1	"	"	"	"	X
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*49*		*30-130 %*			"	"	"	"	
367-12-4	*2-Fluorophenol*	*47*		*15-110 %*			"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*47*		*30-130 %*			"	"	"	"	
4165-62-2	*Phenol-d5*	*31*		*15-110 %*			"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*56*		*30-130 %*			"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*58*		*15-110 %*			"	"	"	"	
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082			R02								
Prepared by method SW846 3510C											
12674-11-2	PCB 1016	BRL		µg/l	0.465	1	SW846 8082	11-Dec-08	12-Dec-08	8120969	X
11104-28-2	PCB 1221	BRL		µg/l	0.465	1	"	"	"	"	X
11141-16-5	PCB 1232	BRL		µg/l	0.465	1	"	"	"	"	X
53469-21-9	PCB 1242	BRL		µg/l	0.465	1	"	"	"	"	X
12672-29-6	PCB 1248	BRL		µg/l	0.465	1	"	"	"	"	X
11097-69-1	PCB 1254	BRL		µg/l	0.465	1	"	"	"	"	X
11096-82-5	PCB 1260	BRL		µg/l	0.465	1	"	"	"	"	X
37324-23-5	PCB 1262	BRL		µg/l	0.465	1	"	"	"	"	X
11100-14-4	PCB 1268	BRL		µg/l	0.465	1	"	"	"	"	X
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*66*		*30-150 %*			"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*67*		*30-150 %*			"	"	"	"	
Chlorinated Herbicides by SW846 8151A			R02								
Prepared by method SW846 3510C											
93-76-5	2,4,5-T	BRL		µg/l	0.200	1	SW846 8151A	11-Dec-08	11-Dec-08	8120971	X
93-72-1	2,4,5-TP (Silvex)	BRL		µg/l	0.200	1	"	"	"	"	X
94-75-7	2,4-D	BRL		µg/l	0.200	1	"	"	"	"	X
94-82-6	2,4-DB	BRL		µg/l	0.200	1	"	"	"	"	X
75-99-0	Dalapon	BRL		µg/l	0.200	1	"	"	"	"	X
1918-00-9	Dicamba	BRL		µg/l	0.200	1	"	"	"	"	X
120-36-5	Dichlorprop	BRL		µg/l	0.200	1	"	"	"	"	X
88-85-7	Dinoseb	BRL		µg/l	0.200	1	"	"	"	"	X
94-74-6	MCPA	BRL		µg/l	3.00	1	"	"	"	"	
94-81-5	MCPB	BRL		µg/l	3.00	1	"	"	"	"	
93-65-2	MCPP	BRL		µg/l	3.00	1	"	"	"	"	
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*		*30-150 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-2 SA88676-02	12701186	Ground Water	08-Dec-08 11:00	10-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3510C											
8006-61-9	Gasoline	BRL		mg/l	0.1	1	+CT ETPH	12-Dec-08	17-Dec-08	8121075	
68476-30-2	Fuel Oil #2	BRL		mg/l	0.1	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/l	0.1	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/l	0.1	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/l	0.1	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/l	0.1	1	"	"	"	"	
	Unidentified	BRL		mg/l	0.1	1	"	"	"	"	
	Other Oil	BRL		mg/l	0.1	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/l	0.1	1	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.1	1	"	"	"	"	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*68*		*50-150 %*			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/l	0.0500	1	SW846 6010B	17-Dec-08	18-Dec-08	8121130	X
7440-38-2	Arsenic	0.117		mg/l	0.0400	1	"	"	"	"	X
7440-39-3	Barium	3.82		mg/l	0.0500	1	"	"	"	"	X
7440-43-9	Cadmium	BRL		mg/l	0.0250	1	"	"	"	"	X
7440-47-3	Chromium	1.19		mg/l	0.0500	1	"	"	"	"	X
7439-92-1	Lead	0.939		mg/l	0.0750	1	"	"	"	"	X
7782-49-2	Selenium	BRL		mg/l	0.150	1	"	"	"	"	X
Total Metals by EPA 200 Series Methods											
7439-97-6	Mercury	0.00584		mg/l	0.00080	1	EPA 245.1/7470A	17-Dec-08	18-Dec-08	8121131	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-5 (4-8) SA88676-03	12701186	Soil	08-Dec-08 09:40	10-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	10-Dec-08	10-Dec-08	8120949	
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 4.6 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	8.2	1	SW846 8260B	15-Dec-08	16-Dec-08	8121225	X
67-64-1	Acetone	BRL		µg/kg dry	82.2	1	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/kg dry	8.2	1	"	"	"	"	X
71-43-2	Benzene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
74-97-5	Bromochloromethane	BRL		µg/kg dry	8.2	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/kg dry	8.2	1	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/kg dry	8.2	1	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/kg dry	16.4	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	82.2	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/kg dry	41.1	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	8.2	1	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/kg dry	16.4	1	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg dry	8.2	1	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg dry	16.4	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	16.4	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/kg dry	8.2	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	8.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/kg dry	8.2	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	16.4	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	8.2	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	8.2	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	8.2	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	8.2	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	8.2	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	82.2	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	8.2	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	82.2	1	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg dry	82.2	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	8.2	1	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-5 (4-8)	12701186	Soil	08-Dec-08 09:40	10-Dec-08
SA88676-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 4.6 g						
103-65-1	n-Propylbenzene	BRL		µg/kg dry	8.2	1	SW846 8260B	15-Dec-08	16-Dec-08	8121225	X
100-42-5	Styrene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	8.2	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	8.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	8.2	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	8.2	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	8.2	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	8.2	1	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	8.2	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	8.2	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/kg dry	8.2	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	16.4	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	8.2	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	82.2	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	8.2	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	8.2	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	8.2	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	8.2	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	82.2	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg dry	164	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	41.1	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/kg dry	3290	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*89*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*92*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*115*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*103*		*70-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	411	1	SW846 8270C	16-Dec-08	24-Dec-08	8121325	X
208-96-8	Acenaphthylene	BRL		µg/kg dry	411	1	"	"	"	"	X
62-53-3	Aniline	BRL		µg/kg dry	411	1	"	"	"	"	X
120-12-7	Anthracene	BRL		µg/kg dry	411	1	"	"	"	"	X
1912-24-9	Atrazine	BRL		µg/kg dry	411	1	"	"	"	"	
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/kg dry	411	1	"	"	"	"	
92-87-5	Benzidine	BRL		µg/kg dry	411	1	"	"	"	"	X
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	411	1	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	411	1	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	411	1	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	411	1	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	411	1	"	"	"	"	X
65-85-0	Benzoic acid	BRL		µg/kg dry	411	1	"	"	"	"	X
100-51-6	Benzyl alcohol	BRL		µg/kg dry	411	1	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-5 (4-8) SA88676-03	12701186	Soil	08-Dec-08 09:40	10-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/kg dry	411	1	SW846 8270C	16-Dec-08	24-Dec-08	8121325	X
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/kg dry	411	1	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	411	1	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	411	1	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/kg dry	411	1	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	BRL		µg/kg dry	411	1	"	"	"	"	X
86-74-8	Carbazole	BRL		µg/kg dry	411	1	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	BRL		µg/kg dry	411	1	"	"	"	"	X
106-47-8	4-Chloroaniline	BRL		µg/kg dry	411	1	"	"	"	"	X
91-58-7	2-Chloronaphthalene	BRL		µg/kg dry	411	1	"	"	"	"	X
95-57-8	2-Chlorophenol	BRL		µg/kg dry	411	1	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/kg dry	411	1	"	"	"	"	X
218-01-9	Chrysene	BRL		µg/kg dry	411	1	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	411	1	"	"	"	"	X
132-64-9	Dibenzofuran	BRL		µg/kg dry	411	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	411	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	411	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	411	1	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/kg dry	411	1	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	BRL		µg/kg dry	411	1	"	"	"	"	X
84-66-2	Diethyl phthalate	BRL		µg/kg dry	411	1	"	"	"	"	X
131-11-3	Dimethyl phthalate	BRL		µg/kg dry	411	1	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	BRL		µg/kg dry	411	1	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	BRL		µg/kg dry	411	1	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	411	1	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	BRL		µg/kg dry	411	1	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	BRL		µg/kg dry	411	1	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	BRL		µg/kg dry	411	1	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	BRL		µg/kg dry	411	1	"	"	"	"	X
206-44-0	Fluoranthene	BRL		µg/kg dry	411	1	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/kg dry	411	1	"	"	"	"	X
118-74-1	Hexachlorobenzene	BRL		µg/kg dry	411	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	411	1	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	BRL		µg/kg dry	411	1	"	"	"	"	X
67-72-1	Hexachloroethane	BRL		µg/kg dry	411	1	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	411	1	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	411	1	"	"	"	"	
78-59-1	Isophorone	BRL		µg/kg dry	411	1	"	"	"	"	X
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	411	1	"	"	"	"	X
95-48-7	2-Methylphenol	BRL		µg/kg dry	411	1	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/kg dry	411	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	411	1	"	"	"	"	X
88-74-4	2-Nitroaniline	BRL		µg/kg dry	411	1	"	"	"	"	X
99-09-2	3-Nitroaniline	BRL		µg/kg dry	411	1	"	"	"	"	X
100-01-6	4-Nitroaniline	BRL		µg/kg dry	1640	1	"	"	"	"	X
98-95-3	Nitrobenzene	BRL		µg/kg dry	411	1	"	"	"	"	X
88-75-5	2-Nitrophenol	BRL		µg/kg dry	411	1	"	"	"	"	X
100-02-7	4-Nitrophenol	BRL		µg/kg dry	1640	1	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	BRL		µg/kg dry	411	1	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/kg dry	411	1	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-5 (4-8) SA88676-03	12701186	Soil	08-Dec-08 09:40	10-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
86-30-6	N-Nitrosodiphenylamine	BRL		µg/kg dry	411	1	SW846 8270C	16-Dec-08	24-Dec-08	8121325	X
87-86-5	Pentachlorophenol	BRL		µg/kg dry	411	1	"	"	"	"	X
85-01-8	Phenanthrene	BRL		µg/kg dry	411	1	"	"	"	"	X
108-95-2	Phenol	BRL		µg/kg dry	411	1	"	"	"	"	X
129-00-0	Pyrene	BRL		µg/kg dry	411	1	"	"	"	"	X
110-86-1	Pyridine	BRL		µg/kg dry	411	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	411	1	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	BRL		µg/kg dry	411	1	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	BRL		µg/kg dry	411	1	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	BRL		µg/kg dry	411	1	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	411	1	"	"	"	"	X
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*58*		*30-130 %*			"	"	"	"	
367-12-4	*2-Fluorophenol*	*57*		*15-110 %*			"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*51*		*30-130 %*			"	"	"	"	
4165-62-2	*Phenol-d5*	*63*		*15-110 %*			"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*59*		*30-130 %*			"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*3*	SGC	*15-110 %*			"	"	"	"	
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	24.9	1	SW846 8082	18-Dec-08	19-Dec-08	8121501	X
11104-28-2	PCB 1221	BRL		µg/kg dry	24.9	1	"	"	"	"	X
11141-16-5	PCB 1232	BRL		µg/kg dry	24.9	1	"	"	"	"	X
53469-21-9	PCB 1242	BRL		µg/kg dry	24.9	1	"	"	"	"	X
12672-29-6	PCB 1248	BRL		µg/kg dry	24.9	1	"	"	"	"	X
11097-69-1	PCB 1254	BRL		µg/kg dry	24.9	1	"	"	"	"	X
11096-82-5	PCB 1260	BRL		µg/kg dry	24.9	1	"	"	"	"	X
37324-23-5	PCB 1262	BRL		µg/kg dry	24.9	1	"	"	"	"	X
11100-14-4	PCB 1268	BRL		µg/kg dry	24.9	1	"	"	"	"	X
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*		*30-150 %*			"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*		*30-150 %*			"	"	"	"	
Chlorinated Herbicides by SW846 8151A											
Prepared by method SW846 3550B											
93-76-5	2,4,5-T	BRL		µg/kg dry	6.70	1	SW846 8151A	17-Dec-08	19-Dec-08	8121397	X
93-72-1	2,4,5-TP (Silvex)	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-75-7	2,4-D	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-82-6	2,4-DB	BRL		µg/kg dry	6.70	1	"	"	"	"	X
75-99-0	Dalapon	BRL		µg/kg dry	6.70	1	"	"	"	"	X
1918-00-9	Dicamba	BRL		µg/kg dry	6.70	1	"	"	"	"	X
120-36-5	Dichlorprop	BRL		µg/kg dry	6.70	1	"	"	"	"	X
88-85-7	Dinoseb	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-74-6	MCPA	BRL		µg/kg dry	670	1	"	"	"	"	X
94-81-5	MCPB	BRL		µg/kg dry	670	1	"	"	"	"	
93-65-2	MCPP	BRL		µg/kg dry	670	1	"	"	"	"	X
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*93*		*30-150 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-5 (4-8) SA88676-03	12701186	Soil	08-Dec-08 09:40	10-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	16.6	1	+CT ETPH	16-Dec-08	18-Dec-08	8121322	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	16.6	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	16.6	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	16.6	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	16.6	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	16.6	1	"	"	"	"	
	Unidentified	BRL		mg/kg dry	16.6	1	"	"	"	"	
	Other Oil	BRL		mg/kg dry	16.6	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	16.6	1	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	16.6	1	"	"	"	"	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*83*		*50-150 %*			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.60	1	SW846 6010B	18-Dec-08	19-Dec-08	8121031	X
7440-38-2	Arsenic	BRL		mg/kg dry	1.60	1	"	"	22-Dec-08	"	X
7440-39-3	Barium	74.2		mg/kg dry	1.06	1	"	"	19-Dec-08	"	X
7440-43-9	Cadmium	BRL		mg/kg dry	0.532	1	"	"	"	"	X
7440-47-3	Chromium	18.8		mg/kg dry	1.06	1	"	"	"	"	X
7439-97-6	Mercury	BRL		mg/kg dry	0.0336	1	SW846 7471A	17-Dec-08	18-Dec-08	8121032	X
7439-92-1	Lead	6.14		mg/kg dry	1.60	1	SW846 6010B	18-Dec-08	19-Dec-08	8121031	X
7782-49-2	Selenium	BRL		mg/kg dry	1.60	1	"	"	22-Dec-08	"	X
General Chemistry Parameters											
	% Solids	78.9		%		1	SM2540 G Mod.	11-Dec-08	11-Dec-08	8121006	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-2 (0-4) SA88676-04	12701186	Soil	08-Dec-08 09:10	10-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	10-Dec-08	10-Dec-08	8120949	
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 4.55 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	7.2	1	SW846 8260B	15-Dec-08	16-Dec-08	8121225	X
67-64-1	Acetone	BRL		µg/kg dry	71.8	1	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/kg dry	7.2	1	"	"	"	"	X
71-43-2	Benzene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
74-97-5	Bromochloromethane	BRL		µg/kg dry	7.2	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/kg dry	7.2	1	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/kg dry	7.2	1	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/kg dry	14.4	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	71.8	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/kg dry	35.9	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	7.2	1	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/kg dry	14.4	1	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg dry	7.2	1	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg dry	14.4	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	14.4	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/kg dry	7.2	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	7.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/kg dry	7.2	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	14.4	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	7.2	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	7.2	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	7.2	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	7.2	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	7.2	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	71.8	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	7.2	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	71.8	1	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg dry	71.8	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	7.2	1	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-2 (0-4) SA88676-04	12701186	Soil	08-Dec-08 09:10	10-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 4.55 g						
103-65-1	n-Propylbenzene	BRL		µg/kg dry	7.2	1	SW846 8260B	15-Dec-08	16-Dec-08	8121225	X
100-42-5	Styrene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	7.2	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	7.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	7.2	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	7.2	1	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	7.2	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	7.2	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/kg dry	7.2	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	14.4	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	7.2	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	71.8	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	7.2	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	7.2	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	7.2	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	7.2	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	71.8	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg dry	144	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	35.9	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/kg dry	2870	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*88*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*92*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*115*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*101*		*70-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	381	1	SW846 8270C	16-Dec-08	24-Dec-08	8121325	X
208-96-8	Acenaphthylene	BRL		µg/kg dry	381	1	"	"	"	"	X
62-53-3	Aniline	BRL		µg/kg dry	381	1	"	"	"	"	X
120-12-7	Anthracene	BRL		µg/kg dry	381	1	"	"	"	"	X
1912-24-9	Atrazine	BRL		µg/kg dry	381	1	"	"	"	"	
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/kg dry	381	1	"	"	"	"	
92-87-5	Benzidine	BRL		µg/kg dry	381	1	"	"	"	"	X
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	381	1	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	381	1	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	381	1	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	381	1	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	381	1	"	"	"	"	X
65-85-0	Benzoic acid	BRL		µg/kg dry	381	1	"	"	"	"	X
100-51-6	Benzyl alcohol	BRL		µg/kg dry	381	1	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-2 (0-4)	12701186	Soil	08-Dec-08 09:10	10-Dec-08
SA88676-04				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/kg dry	381	1	SW846 8270C	16-Dec-08	24-Dec-08	8121325	X
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/kg dry	381	1	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	381	1	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	381	1	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/kg dry	381	1	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	BRL		µg/kg dry	381	1	"	"	"	"	X
86-74-8	Carbazole	BRL		µg/kg dry	381	1	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	BRL		µg/kg dry	381	1	"	"	"	"	X
106-47-8	4-Chloroaniline	BRL		µg/kg dry	381	1	"	"	"	"	X
91-58-7	2-Chloronaphthalene	BRL		µg/kg dry	381	1	"	"	"	"	X
95-57-8	2-Chlorophenol	BRL		µg/kg dry	381	1	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/kg dry	381	1	"	"	"	"	X
218-01-9	Chrysene	BRL		µg/kg dry	381	1	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	381	1	"	"	"	"	X
132-64-9	Dibenzofuran	BRL		µg/kg dry	381	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	381	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	381	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	381	1	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/kg dry	381	1	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	BRL		µg/kg dry	381	1	"	"	"	"	X
84-66-2	Diethyl phthalate	BRL		µg/kg dry	381	1	"	"	"	"	X
131-11-3	Dimethyl phthalate	BRL		µg/kg dry	381	1	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	BRL		µg/kg dry	381	1	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	BRL		µg/kg dry	381	1	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	381	1	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	BRL		µg/kg dry	381	1	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	BRL		µg/kg dry	381	1	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	BRL		µg/kg dry	381	1	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	BRL		µg/kg dry	381	1	"	"	"	"	X
206-44-0	Fluoranthene	BRL		µg/kg dry	381	1	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/kg dry	381	1	"	"	"	"	X
118-74-1	Hexachlorobenzene	BRL		µg/kg dry	381	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	381	1	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	BRL		µg/kg dry	381	1	"	"	"	"	X
67-72-1	Hexachloroethane	BRL		µg/kg dry	381	1	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	381	1	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	381	1	"	"	"	"	
78-59-1	Isophorone	BRL		µg/kg dry	381	1	"	"	"	"	X
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	381	1	"	"	"	"	X
95-48-7	2-Methylphenol	BRL		µg/kg dry	381	1	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/kg dry	381	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	381	1	"	"	"	"	X
88-74-4	2-Nitroaniline	BRL		µg/kg dry	381	1	"	"	"	"	X
99-09-2	3-Nitroaniline	BRL		µg/kg dry	381	1	"	"	"	"	X
100-01-6	4-Nitroaniline	BRL		µg/kg dry	1520	1	"	"	"	"	X
98-95-3	Nitrobenzene	BRL		µg/kg dry	381	1	"	"	"	"	X
88-75-5	2-Nitrophenol	BRL		µg/kg dry	381	1	"	"	"	"	X
100-02-7	4-Nitrophenol	BRL		µg/kg dry	1520	1	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	BRL		µg/kg dry	381	1	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/kg dry	381	1	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-2 (0-4) SA88676-04	12701186	Soil	08-Dec-08 09:10	10-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
86-30-6	N-Nitrosodiphenylamine	BRL		µg/kg dry	381	1	SW846 8270C	16-Dec-08	24-Dec-08	8121325	X
87-86-5	Pentachlorophenol	BRL		µg/kg dry	381	1	"	"	"	"	X
85-01-8	Phenanthrene	BRL		µg/kg dry	381	1	"	"	"	"	X
108-95-2	Phenol	BRL		µg/kg dry	381	1	"	"	"	"	X
129-00-0	Pyrene	BRL		µg/kg dry	381	1	"	"	"	"	X
110-86-1	Pyridine	BRL		µg/kg dry	381	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	381	1	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	BRL		µg/kg dry	381	1	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	BRL		µg/kg dry	381	1	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	BRL		µg/kg dry	381	1	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	381	1	"	"	"	"	X
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*46*		*30-130 %*			"	"	"	"	
367-12-4	*2-Fluorophenol*	*40*		*15-110 %*			"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*39*		*30-130 %*			"	"	"	"	
4165-62-2	*Phenol-d5*	*46*		*15-110 %*			"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*48*		*30-130 %*			"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*3*	SGC	*15-110 %*			"	"	"	"	
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	22.1	1	SW846 8082	18-Dec-08	19-Dec-08	8121501	X
11104-28-2	PCB 1221	BRL		µg/kg dry	22.1	1	"	"	"	"	X
11141-16-5	PCB 1232	BRL		µg/kg dry	22.1	1	"	"	"	"	X
53469-21-9	PCB 1242	BRL		µg/kg dry	22.1	1	"	"	"	"	X
12672-29-6	PCB 1248	BRL		µg/kg dry	22.1	1	"	"	"	"	X
11097-69-1	PCB 1254	BRL		µg/kg dry	22.1	1	"	"	"	"	X
11096-82-5	PCB 1260	BRL		µg/kg dry	22.1	1	"	"	"	"	X
37324-23-5	PCB 1262	BRL		µg/kg dry	22.1	1	"	"	"	"	X
11100-14-4	PCB 1268	BRL		µg/kg dry	22.1	1	"	"	"	"	X
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*		*30-150 %*			"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*		*30-150 %*			"	"	"	"	
Chlorinated Herbicides by SW846 8151A											
Prepared by method SW846 3550B											
93-76-5	2,4,5-T	BRL		µg/kg dry	6.70	1	SW846 8151A	17-Dec-08	19-Dec-08	8121397	X
93-72-1	2,4,5-TP (Silvex)	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-75-7	2,4-D	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-82-6	2,4-DB	BRL		µg/kg dry	6.70	1	"	"	"	"	X
75-99-0	Dalapon	BRL		µg/kg dry	6.70	1	"	"	"	"	X
1918-00-9	Dicamba	BRL		µg/kg dry	6.70	1	"	"	"	"	X
120-36-5	Dichlorprop	BRL		µg/kg dry	6.70	1	"	"	"	"	X
88-85-7	Dinoseb	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-74-6	MCPA	BRL		µg/kg dry	670	1	"	"	"	"	X
94-81-5	MCPB	BRL		µg/kg dry	670	1	"	"	"	"	
93-65-2	MCPP	BRL		µg/kg dry	670	1	"	"	"	"	X
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*		*30-150 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-2 (0-4)	12701186	Soil	08-Dec-08 09:10	10-Dec-08
SA88676-04				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	15.4	1	+CT ETPH	16-Dec-08	18-Dec-08	8121322	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	15.4	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	15.4	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	15.4	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	15.4	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	15.4	1	"	"	"	"	
	Unidentified	53.7		mg/kg dry	15.4	1	"	"	"	"	
	Other Oil	Calculated as		mg/kg dry	15.4	1	"	"	"	"	
	Total Petroleum Hydrocarbons	53.7		mg/kg dry	15.4	1	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	53.7		mg/kg dry	15.4	1	"	"	"	"	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*104*		*50-150 %*			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.68	1	SW846 6010B	18-Dec-08	19-Dec-08	8121031	X
7440-38-2	Arsenic	5.74		mg/kg dry	1.68	1	"	"	22-Dec-08	"	X
7440-39-3	Barium	35.1		mg/kg dry	1.12	1	"	"	19-Dec-08	"	X
7440-43-9	Cadmium	BRL		mg/kg dry	0.558	1	"	"	"	"	X
7440-47-3	Chromium	8.58		mg/kg dry	1.12	1	"	"	"	"	X
7439-97-6	Mercury	0.443		mg/kg dry	0.0331	1	SW846 7471A	17-Dec-08	18-Dec-08	8121032	X
7439-92-1	Lead	33.0		mg/kg dry	1.68	1	SW846 6010B	18-Dec-08	19-Dec-08	8121031	X
7782-49-2	Selenium	BRL		mg/kg dry	1.68	1	"	"	22-Dec-08	"	X
General Chemistry Parameters											
	% Solids	86.2		%		1	SM2540 G Mod.	11-Dec-08	11-Dec-08	8121006	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-2 (8-12) SA88676-05	12701186	Soil	08-Dec-08 09:10	10-Dec-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	10-Dec-08	10-Dec-08	8120949	
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 5.26 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	7.4	1	SW846 8260B	15-Dec-08	16-Dec-08	8121225	X
67-64-1	Acetone	BRL		µg/kg dry	73.9	1	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/kg dry	7.4	1	"	"	"	"	X
71-43-2	Benzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
74-97-5	Bromochloromethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/kg dry	7.4	1	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/kg dry	14.8	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	73.9	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/kg dry	37.0	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	7.4	1	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/kg dry	14.8	1	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg dry	7.4	1	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg dry	14.8	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	14.8	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	7.4	1	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	14.8	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	73.9	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	7.4	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	73.9	1	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg dry	73.9	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	7.4	1	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-2 (8-12)	12701186	Soil	08-Dec-08 09:10	10-Dec-08
SA88676-05				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 5.26 g						
103-65-1	n-Propylbenzene	BRL		µg/kg dry	7.4	1	SW846 8260B	15-Dec-08	16-Dec-08	8121225	X
100-42-5	Styrene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	7.4	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	7.4	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/kg dry	7.4	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	14.8	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	73.9	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	7.4	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	7.4	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	7.4	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	7.4	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	73.9	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg dry	148	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	37.0	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/kg dry	2960	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*95*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*96*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*119*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*		*70-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	416	1	SW846 8270C	16-Dec-08	24-Dec-08	8121325	X
208-96-8	Acenaphthylene	BRL		µg/kg dry	416	1	"	"	"	"	X
62-53-3	Aniline	BRL		µg/kg dry	416	1	"	"	"	"	X
120-12-7	Anthracene	BRL		µg/kg dry	416	1	"	"	"	"	X
1912-24-9	Atrazine	BRL		µg/kg dry	416	1	"	"	"	"	
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/kg dry	416	1	"	"	"	"	
92-87-5	Benzidine	BRL		µg/kg dry	416	1	"	"	"	"	X
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	416	1	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	416	1	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	416	1	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	416	1	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	416	1	"	"	"	"	X
65-85-0	Benzoic acid	BRL		µg/kg dry	416	1	"	"	"	"	X
100-51-6	Benzyl alcohol	BRL		µg/kg dry	416	1	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-2 (8-12) SA88676-05	12701186	Soil	08-Dec-08 09:10	10-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/kg dry	416	1	SW846 8270C	16-Dec-08	24-Dec-08	8121325	X
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/kg dry	416	1	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	416	1	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	416	1	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/kg dry	416	1	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	BRL		µg/kg dry	416	1	"	"	"	"	X
86-74-8	Carbazole	BRL		µg/kg dry	416	1	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	BRL		µg/kg dry	416	1	"	"	"	"	X
106-47-8	4-Chloroaniline	BRL		µg/kg dry	416	1	"	"	"	"	X
91-58-7	2-Chloronaphthalene	BRL		µg/kg dry	416	1	"	"	"	"	X
95-57-8	2-Chlorophenol	BRL		µg/kg dry	416	1	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/kg dry	416	1	"	"	"	"	X
218-01-9	Chrysene	BRL		µg/kg dry	416	1	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	416	1	"	"	"	"	X
132-64-9	Dibenzofuran	BRL		µg/kg dry	416	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	416	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	416	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	416	1	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/kg dry	416	1	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	BRL		µg/kg dry	416	1	"	"	"	"	X
84-66-2	Diethyl phthalate	BRL		µg/kg dry	416	1	"	"	"	"	X
131-11-3	Dimethyl phthalate	BRL		µg/kg dry	416	1	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	BRL		µg/kg dry	416	1	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	BRL		µg/kg dry	416	1	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	416	1	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	BRL		µg/kg dry	416	1	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	BRL		µg/kg dry	416	1	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	BRL		µg/kg dry	416	1	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	BRL		µg/kg dry	416	1	"	"	"	"	X
206-44-0	Fluoranthene	BRL		µg/kg dry	416	1	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/kg dry	416	1	"	"	"	"	X
118-74-1	Hexachlorobenzene	BRL		µg/kg dry	416	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	416	1	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	BRL		µg/kg dry	416	1	"	"	"	"	X
67-72-1	Hexachloroethane	BRL		µg/kg dry	416	1	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	416	1	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	416	1	"	"	"	"	
78-59-1	Isophorone	BRL		µg/kg dry	416	1	"	"	"	"	X
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	416	1	"	"	"	"	X
95-48-7	2-Methylphenol	BRL		µg/kg dry	416	1	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/kg dry	416	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	416	1	"	"	"	"	X
88-74-4	2-Nitroaniline	BRL		µg/kg dry	416	1	"	"	"	"	X
99-09-2	3-Nitroaniline	BRL		µg/kg dry	416	1	"	"	"	"	X
100-01-6	4-Nitroaniline	BRL		µg/kg dry	1660	1	"	"	"	"	X
98-95-3	Nitrobenzene	BRL		µg/kg dry	416	1	"	"	"	"	X
88-75-5	2-Nitrophenol	BRL		µg/kg dry	416	1	"	"	"	"	X
100-02-7	4-Nitrophenol	BRL		µg/kg dry	1660	1	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	BRL		µg/kg dry	416	1	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/kg dry	416	1	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-2 (8-12)	12701186	Soil	08-Dec-08 09:10	10-Dec-08
SA88676-05				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
86-30-6	N-Nitrosodiphenylamine	BRL		µg/kg dry	416	1	SW846 8270C	16-Dec-08	24-Dec-08	8121325	X
87-86-5	Pentachlorophenol	BRL		µg/kg dry	416	1	"	"	"	"	X
85-01-8	Phenanthrene	BRL		µg/kg dry	416	1	"	"	"	"	X
108-95-2	Phenol	BRL		µg/kg dry	416	1	"	"	"	"	X
129-00-0	Pyrene	BRL		µg/kg dry	416	1	"	"	"	"	X
110-86-1	Pyridine	BRL		µg/kg dry	416	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	416	1	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	BRL		µg/kg dry	416	1	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	BRL		µg/kg dry	416	1	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	BRL		µg/kg dry	416	1	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	416	1	"	"	"	"	X
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*38*		*30-130 %*			"	"	"	"	
367-12-4	*2-Fluorophenol*	*35*		*15-110 %*			"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*31*		*30-130 %*			"	"	"	"	
4165-62-2	*Phenol-d5*	*40*		*15-110 %*			"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*40*		*30-130 %*			"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*2*	SGC	*15-110 %*			"	"	"	"	
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	24.9	1	SW846 8082	18-Dec-08	19-Dec-08	8121501	X
11104-28-2	PCB 1221	BRL		µg/kg dry	24.9	1	"	"	"	"	X
11141-16-5	PCB 1232	BRL		µg/kg dry	24.9	1	"	"	"	"	X
53469-21-9	PCB 1242	BRL		µg/kg dry	24.9	1	"	"	"	"	X
12672-29-6	PCB 1248	BRL		µg/kg dry	24.9	1	"	"	"	"	X
11097-69-1	PCB 1254	BRL		µg/kg dry	24.9	1	"	"	"	"	X
11096-82-5	PCB 1260	BRL		µg/kg dry	24.9	1	"	"	"	"	X
37324-23-5	PCB 1262	BRL		µg/kg dry	24.9	1	"	"	"	"	X
11100-14-4	PCB 1268	BRL		µg/kg dry	24.9	1	"	"	"	"	X
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*		*30-150 %*			"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*		*30-150 %*			"	"	"	"	
Chlorinated Herbicides by SW846 8151A											
Prepared by method SW846 3550B											
93-76-5	2,4,5-T	BRL		µg/kg dry	6.70	1	SW846 8151A	17-Dec-08	19-Dec-08	8121397	X
93-72-1	2,4,5-TP (Silvex)	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-75-7	2,4-D	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-82-6	2,4-DB	BRL		µg/kg dry	6.70	1	"	"	"	"	X
75-99-0	Dalapon	BRL		µg/kg dry	6.70	1	"	"	"	"	X
1918-00-9	Dicamba	BRL		µg/kg dry	6.70	1	"	"	"	"	X
120-36-5	Dichlorprop	BRL		µg/kg dry	6.70	1	"	"	"	"	X
88-85-7	Dinoseb	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-74-6	MCPA	BRL		µg/kg dry	670	1	"	"	"	"	X
94-81-5	MCPB	BRL		µg/kg dry	670	1	"	"	"	"	
93-65-2	MCPP	BRL		µg/kg dry	670	1	"	"	"	"	X
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*98*		*30-150 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-2 (8-12) SA88676-05	12701186	Soil	08-Dec-08 09:10	10-Dec-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	16.8	1	+CT ETPH	16-Dec-08	18-Dec-08	8121322	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	16.8	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	16.8	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	16.8	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	16.8	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	16.8	1	"	"	"	"	
	Unidentified	BRL		mg/kg dry	16.8	1	"	"	"	"	
	Other Oil	BRL		mg/kg dry	16.8	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	16.8	1	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	16.8	1	"	"	"	"	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*107*		*50-150 %*			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.65	1	SW846 6010B	18-Dec-08	19-Dec-08	8121031	X
7440-38-2	Arsenic	BRL		mg/kg dry	1.65	1	"	"	22-Dec-08	"	X
7440-39-3	Barium	56.3		mg/kg dry	1.10	1	"	"	19-Dec-08	"	X
7440-43-9	Cadmium	BRL		mg/kg dry	0.551	1	"	"	"	"	X
7440-47-3	Chromium	11.4		mg/kg dry	1.10	1	"	"	"	"	X
7439-97-6	Mercury	BRL		mg/kg dry	0.0351	1	SW846 7471A	17-Dec-08	18-Dec-08	8121032	X
7439-92-1	Lead	3.93		mg/kg dry	1.65	1	SW846 6010B	18-Dec-08	19-Dec-08	8121031	X
7782-49-2	Selenium	BRL		mg/kg dry	1.65	1	"	"	22-Dec-08	"	X
General Chemistry Parameters											
	% Solids	78.7		%		1	SM2540 G Mod.	11-Dec-08	11-Dec-08	8121006	

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121116 - SW846 5030 Water MS										
Blank (8121116-BLK1)										
Prepared: 12-Dec-08 Analyzed: 13-Dec-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	1.0						
Acetone	BRL		µg/l	10.0						
Acrylonitrile	BRL		µg/l	0.5						
Benzene	BRL		µg/l	1.0						
Bromobenzene	BRL		µg/l	1.0						
Bromochloromethane	BRL		µg/l	1.0						
Bromodichloromethane	BRL		µg/l	0.5						
Bromoform	BRL		µg/l	1.0						
Bromomethane	BRL		µg/l	2.0						
2-Butanone (MEK)	BRL		µg/l	10.0						
n-Butylbenzene	BRL		µg/l	1.0						
sec-Butylbenzene	BRL		µg/l	1.0						
tert-Butylbenzene	BRL		µg/l	1.0						
Carbon disulfide	BRL		µg/l	5.0						
Carbon tetrachloride	BRL		µg/l	1.0						
Chlorobenzene	BRL		µg/l	1.0						
Chloroethane	BRL		µg/l	2.0						
Chloroform	BRL		µg/l	1.0						
Chloromethane	BRL		µg/l	2.0						
2-Chlorotoluene	BRL		µg/l	1.0						
4-Chlorotoluene	BRL		µg/l	1.0						
1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0						
Dibromochloromethane	BRL		µg/l	0.5						
1,2-Dibromoethane (EDB)	BRL		µg/l	0.5						
Dibromomethane	BRL		µg/l	1.0						
1,2-Dichlorobenzene	BRL		µg/l	1.0						
1,3-Dichlorobenzene	BRL		µg/l	1.0						
1,4-Dichlorobenzene	BRL		µg/l	1.0						
Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0						
1,1-Dichloroethane	BRL		µg/l	1.0						
1,2-Dichloroethane	BRL		µg/l	1.0						
1,1-Dichloroethene	BRL		µg/l	1.0						
cis-1,2-Dichloroethene	BRL		µg/l	1.0						
trans-1,2-Dichloroethene	BRL		µg/l	1.0						
1,2-Dichloropropane	BRL		µg/l	1.0						
1,3-Dichloropropane	BRL		µg/l	1.0						
2,2-Dichloropropane	BRL		µg/l	1.0						
1,1-Dichloropropene	BRL		µg/l	1.0						
cis-1,3-Dichloropropene	BRL		µg/l	0.5						
trans-1,3-Dichloropropene	BRL		µg/l	0.5						
Ethylbenzene	BRL		µg/l	1.0						
Hexachlorobutadiene	BRL		µg/l	0.5						
2-Hexanone (MBK)	BRL		µg/l	10.0						
Isopropylbenzene	BRL		µg/l	1.0						
4-Isopropyltoluene	BRL		µg/l	1.0						
Methyl tert-butyl ether	BRL		µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0						
Methylene chloride	BRL		µg/l	5.0						
Naphthalene	BRL		µg/l	1.0						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121116 - SW846 5030 Water MS										
Blank (8121116-BLK1)										
Prepared: 12-Dec-08 Analyzed: 13-Dec-08										
n-Propylbenzene	BRL		µg/l	1.0						
Styrene	BRL		µg/l	1.0						
1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0						
1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5						
Tetrachloroethene	BRL		µg/l	1.0						
Toluene	BRL		µg/l	1.0						
1,2,3-Trichlorobenzene	BRL		µg/l	1.0						
1,2,4-Trichlorobenzene	BRL		µg/l	1.0						
1,3,5-Trichlorobenzene	BRL		µg/l	1.0						
1,1,1-Trichloroethane	BRL		µg/l	1.0						
1,1,2-Trichloroethane	BRL		µg/l	1.0						
Trichloroethene	BRL		µg/l	1.0						
Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0						
1,2,3-Trichloropropane	BRL		µg/l	1.0						
1,2,4-Trimethylbenzene	BRL		µg/l	1.0						
1,3,5-Trimethylbenzene	BRL		µg/l	1.0						
Vinyl chloride	BRL		µg/l	1.0						
m,p-Xylene	BRL		µg/l	2.0						
o-Xylene	BRL		µg/l	1.0						
Tetrahydrofuran	BRL		µg/l	10.0						
Ethyl ether	BRL		µg/l	1.0						
Tert-amyl methyl ether	BRL		µg/l	1.0						
Ethyl tert-butyl ether	BRL		µg/l	1.0						
Di-isopropyl ether	BRL		µg/l	1.0						
Tert-Butanol / butyl alcohol	BRL		µg/l	10.0						
1,4-Dioxane	BRL		µg/l	20.0						
trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0						
Ethanol	BRL		µg/l	400						
Surrogate: 4-Bromofluorobenzene	*47.6*		µg/l		*50.0*		*95*	*70-130*		
Surrogate: Toluene-d8	*51.2*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*52.6*		µg/l		*50.0*		*105*	*70-130*		
Surrogate: Dibromofluoromethane	*52.0*		µg/l		*50.0*		*104*	*70-130*		
LCS (8121116-BS1)										
Prepared: 12-Dec-08 Analyzed: 13-Dec-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	19.4		µg/l		20.0		97	70-130		
Acetone	35.9	QC2	µg/l		20.0		179	31.7-144		
Acrylonitrile	21.0		µg/l		20.0		105	70-130		
Benzene	20.1		µg/l		20.0		100	70-130		
Bromobenzene	20.4		µg/l		20.0		102	70-130		
Bromochloromethane	20.9		µg/l		20.0		105	70-130		
Bromodichloromethane	20.0		µg/l		20.0		100	70-130		
Bromoform	17.9		µg/l		20.0		90	70-130		
Bromomethane	21.1		µg/l		20.0		106	43-158		
2-Butanone (MEK)	28.8	QC2	µg/l		20.0		144	54.5-137		
n-Butylbenzene	20.0		µg/l		20.0		100	70-130		
sec-Butylbenzene	20.9		µg/l		20.0		105	70-130		
tert-Butylbenzene	21.1		µg/l		20.0		106	70-130		
Carbon disulfide	22.1		µg/l		20.0		110	70-130		
Carbon tetrachloride	22.2		µg/l		20.0		111	70-130		
Chlorobenzene	20.1		µg/l		20.0		100	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121116 - SW846 5030 Water MS										
LCS (8121116-BS1)										
Prepared: 12-Dec-08 Analyzed: 13-Dec-08										
Chloroethane	22.5		µg/l		20.0		113	60.1-131		
Chloroform	18.8		µg/l		20.0		94	70-130		
Chloromethane	21.0		µg/l		20.0		105	70-130		
2-Chlorotoluene	20.8		µg/l		20.0		104	70-130		
4-Chlorotoluene	21.5		µg/l		20.0		107	70-130		
1,2-Dibromo-3-chloropropane	17.8		µg/l		20.0		89	70-130		
Dibromochloromethane	18.7		µg/l		20.0		93	66.2-145		
1,2-Dibromoethane (EDB)	20.6		µg/l		20.0		103	70-130		
Dibromomethane	20.2		µg/l		20.0		101	70-130		
1,2-Dichlorobenzene	19.6		µg/l		20.0		98	70-130		
1,3-Dichlorobenzene	20.0		µg/l		20.0		100	70-130		
1,4-Dichlorobenzene	18.7		µg/l		20.0		93	70-130		
Dichlorodifluoromethane (Freon12)	20.1		µg/l		20.0		101	46.9-168		
1,1-Dichloroethane	20.4		µg/l		20.0		102	70-130		
1,2-Dichloroethane	21.1		µg/l		20.0		105	70-130		
1,1-Dichloroethene	21.7		µg/l		20.0		108	70-130		
cis-1,2-Dichloroethene	19.2		µg/l		20.0		96	70-130		
trans-1,2-Dichloroethene	20.8		µg/l		20.0		104	70-130		
1,2-Dichloropropane	20.4		µg/l		20.0		102	70-130		
1,3-Dichloropropane	20.5		µg/l		20.0		102	70-130		
2,2-Dichloropropane	13.9		µg/l		20.0		70	70-130		
1,1-Dichloropropene	20.6		µg/l		20.0		103	70-130		
cis-1,3-Dichloropropene	17.4		µg/l		20.0		87	70-130		
trans-1,3-Dichloropropene	16.9		µg/l		20.0		85	70-130		
Ethylbenzene	21.0		µg/l		20.0		105	70-130		
Hexachlorobutadiene	24.5		µg/l		20.0		123	70-135		
2-Hexanone (MBK)	23.7		µg/l		20.0		118	70-130		
Isopropylbenzene	21.8		µg/l		20.0		109	70-130		
4-Isopropyltoluene	19.4		µg/l		20.0		97	70-130		
Methyl tert-butyl ether	20.1		µg/l		20.0		101	70-130		
4-Methyl-2-pentanone (MIBK)	17.2		µg/l		20.0		86	57.6-130		
Methylene chloride	20.7		µg/l		20.0		103	70-130		
Naphthalene	25.5		µg/l		20.0		127	70-130		
n-Propylbenzene	21.4		µg/l		20.0		107	70-130		
Styrene	20.2		µg/l		20.0		101	70-130		
1,1,1,2-Tetrachloroethane	21.5		µg/l		20.0		108	70-130		
1,1,2,2-Tetrachloroethane	18.3		µg/l		20.0		91	70-130		
Tetrachloroethene	21.2		µg/l		20.0		106	70-130		
Toluene	19.9		µg/l		20.0		99	70-130		
1,2,3-Trichlorobenzene	27.2	QC1	µg/l		20.0		136	70-130		
1,2,4-Trichlorobenzene	25.8		µg/l		20.0		129	70-130		
1,3,5-Trichlorobenzene	23.4		µg/l		20.0		117	70-130		
1,1,1-Trichloroethane	20.6		µg/l		20.0		103	70-130		
1,1,2-Trichloroethane	20.3		µg/l		20.0		102	70-130		
Trichloroethene	21.5		µg/l		20.0		108	70-130		
Trichlorofluoromethane (Freon 11)	22.4		µg/l		20.0		112	64.9-147		
1,2,3-Trichloropropane	18.6		µg/l		20.0		93	70-130		
1,2,4-Trimethylbenzene	20.5		µg/l		20.0		102	70-130		
1,3,5-Trimethylbenzene	20.6		µg/l		20.0		103	70-130		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121116 - SW846 5030 Water MS										
LCS (8121116-BS1)										
Prepared: 12-Dec-08 Analyzed: 13-Dec-08										
Vinyl chloride	21.5		µg/l		20.0		108	70-130		
m,p-Xylene	41.8		µg/l		40.0		104	70-130		
o-Xylene	20.2		µg/l		20.0		101	70-130		
Tetrahydrofuran	22.3		µg/l		20.0		111	70-130		
Ethyl ether	21.3		µg/l		20.0		107	70-130		
Tert-amyl methyl ether	19.8		µg/l		20.0		99	70-130		
Ethyl tert-butyl ether	18.9		µg/l		20.0		94	70-130		
Di-isopropyl ether	21.6		µg/l		20.0		108	70-130		
Tert-Butanol / butyl alcohol	190		µg/l		200		95	70-130		
1,4-Dioxane	195		µg/l		200		98	53.8-137		
trans-1,4-Dichloro-2-butene	14.6		µg/l		20.0		73	70-130		
Ethanol	412		µg/l		400		103	70-130		
Surrogate: 4-Bromofluorobenzene	*50.8*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*51.6*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.3*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Dibromofluoromethane	*53.1*		µg/l		*50.0*		*106*	*70-130*		
LCS Dup (8121116-BSD1)										
Prepared: 12-Dec-08 Analyzed: 13-Dec-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	17.0		µg/l		20.0		85	70-130	13	25
Acetone	35.8	QC2	µg/l		20.0		179	31.7-144	0.2	50
Acrylonitrile	20.7		µg/l		20.0		103	70-130	2	25
Benzene	18.8		µg/l		20.0		94	70-130	7	25
Bromobenzene	19.3		µg/l		20.0		96	70-130	6	25
Bromochloromethane	19.7		µg/l		20.0		98	70-130	6	25
Bromodichloromethane	18.8		µg/l		20.0		94	70-130	6	25
Bromoform	17.6		µg/l		20.0		88	70-130	2	25
Bromomethane	19.4		µg/l		20.0		97	43-158	8	50
2-Butanone (MEK)	28.8	QC2	µg/l		20.0		144	54.5-137	0.1	50
n-Butylbenzene	18.3		µg/l		20.0		92	70-130	9	25
sec-Butylbenzene	19.1		µg/l		20.0		95	70-130	9	25
tert-Butylbenzene	19.4		µg/l		20.0		97	70-130	8	25
Carbon disulfide	19.7		µg/l		20.0		99	70-130	11	25
Carbon tetrachloride	19.6		µg/l		20.0		98	70-130	12	25
Chlorobenzene	19.1		µg/l		20.0		96	70-130	5	25
Chloroethane	20.7		µg/l		20.0		104	60.1-131	8	50
Chloroform	17.5		µg/l		20.0		87	70-130	7	25
Chloromethane	18.7		µg/l		20.0		94	70-130	12	25
2-Chlorotoluene	19.0		µg/l		20.0		95	70-130	9	25
4-Chlorotoluene	19.2		µg/l		20.0		96	70-130	11	25
1,2-Dibromo-3-chloropropane	17.3		µg/l		20.0		87	70-130	3	25
Dibromochloromethane	17.9		µg/l		20.0		89	66.2-145	4	50
1,2-Dibromoethane (EDB)	19.7		µg/l		20.0		98	70-130	5	25
Dibromomethane	19.7		µg/l		20.0		99	70-130	2	25
1,2-Dichlorobenzene	18.7		µg/l		20.0		93	70-130	5	25
1,3-Dichlorobenzene	19.0		µg/l		20.0		95	70-130	5	25
1,4-Dichlorobenzene	17.8		µg/l		20.0		89	70-130	5	25
Dichlorodifluoromethane (Freon12)	18.3		µg/l		20.0		92	46.9-168	10	50
1,1-Dichloroethane	19.2		µg/l		20.0		96	70-130	6	25
1,2-Dichloroethane	20.5		µg/l		20.0		102	70-130	3	25
1,1-Dichloroethene	19.2		µg/l		20.0		96	70-130	12	25

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121116 - SW846 5030 Water MS										
LCS Dup (8121116-BSD1)										
Prepared: 12-Dec-08 Analyzed: 13-Dec-08										
cis-1,2-Dichloroethene	18.2		µg/l		20.0		91	70-130	5	25
trans-1,2-Dichloroethene	19.2		µg/l		20.0		96	70-130	8	25
1,2-Dichloropropane	19.4		µg/l		20.0		97	70-130	5	25
1,3-Dichloropropane	19.9		µg/l		20.0		99	70-130	3	25
2,2-Dichloropropane	12.5	QC1	µg/l		20.0		63	70-130	10	25
1,1-Dichloropropene	21.2		µg/l		20.0		106	70-130	2	25
cis-1,3-Dichloropropene	17.2		µg/l		20.0		86	70-130	1	25
trans-1,3-Dichloropropene	16.3		µg/l		20.0		82	70-130	3	25
Ethylbenzene	19.7		µg/l		20.0		98	70-130	6	25
Hexachlorobutadiene	21.4		µg/l		20.0		107	70-135	13	50
2-Hexanone (MBK)	22.2		µg/l		20.0		111	70-130	6	25
Isopropylbenzene	20.1		µg/l		20.0		101	70-130	8	25
4-Isopropyltoluene	17.7		µg/l		20.0		88	70-130	9	25
Methyl tert-butyl ether	19.3		µg/l		20.0		97	70-130	4	25
4-Methyl-2-pentanone (MIBK)	18.4		µg/l		20.0		92	57.6-130	7	50
Methylene chloride	19.2		µg/l		20.0		96	70-130	7	25
Naphthalene	21.7		µg/l		20.0		108	70-130	16	25
n-Propylbenzene	19.8		µg/l		20.0		99	70-130	8	25
Styrene	18.9		µg/l		20.0		94	70-130	7	25
1,1,1,2-Tetrachloroethane	20.2		µg/l		20.0		101	70-130	6	25
1,1,2,2-Tetrachloroethane	17.8		µg/l		20.0		89	70-130	3	25
Tetrachloroethene	19.2		µg/l		20.0		96	70-130	10	25
Toluene	18.2		µg/l		20.0		91	70-130	9	25
1,2,3-Trichlorobenzene	23.7		µg/l		20.0		119	70-130	14	25
1,2,4-Trichlorobenzene	21.0		µg/l		20.0		105	70-130	21	25
1,3,5-Trichlorobenzene	18.5		µg/l		20.0		93	70-130	23	25
1,1,1-Trichloroethane	19.2		µg/l		20.0		96	70-130	7	25
1,1,2-Trichloroethane	19.2		µg/l		20.0		96	70-130	6	25
Trichloroethene	20.1		µg/l		20.0		100	70-130	7	25
Trichlorofluoromethane (Freon 11)	19.8		µg/l		20.0		99	64.9-147	12	50
1,2,3-Trichloropropane	18.0		µg/l		20.0		90	70-130	4	25
1,2,4-Trimethylbenzene	18.9		µg/l		20.0		95	70-130	8	25
1,3,5-Trimethylbenzene	19.0		µg/l		20.0		95	70-130	8	25
Vinyl chloride	19.3		µg/l		20.0		96	70-130	11	25
m,p-Xylene	38.6		µg/l		40.0		97	70-130	8	25
o-Xylene	18.6		µg/l		20.0		93	70-130	8	25
Tetrahydrofuran	22.1		µg/l		20.0		110	70-130	1	25
Ethyl ether	20.5		µg/l		20.0		103	70-130	4	50
Tert-amyl methyl ether	19.6		µg/l		20.0		98	70-130	1	25
Ethyl tert-butyl ether	18.3		µg/l		20.0		92	70-130	3	25
Di-isopropyl ether	20.6		µg/l		20.0		103	70-130	4	25
Tert-Butanol / butyl alcohol	179		µg/l		200		90	70-130	6	25
1,4-Dioxane	201		µg/l		200		101	53.8-137	3	25
trans-1,4-Dichloro-2-butene	15.2		µg/l		20.0		76	70-130	4	25
Ethanol	391		µg/l		400		98	70-130	5	30
Surrogate: 4-Bromofluorobenzene	*50.5*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*51.5*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.0*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Dibromofluoromethane	*52.5*		µg/l		*50.0*		*105*	*70-130*		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121116 - SW846 5030 Water MS										
Matrix Spike (8121116-MS1) **Source: SA88709-10**										
Prepared: 12-Dec-08 Analyzed: 13-Dec-08										
Benzene	19.2		µg/l		20.0	BRL	96	70-130		
Chlorobenzene	21.3		µg/l		20.0	BRL	106	70-130		
1,1-Dichloroethene	22.6		µg/l		20.0	BRL	113	70-130		
Toluene	20.2		µg/l		20.0	BRL	101	70-130		
Trichloroethene	20.1		µg/l		20.0	BRL	101	70-130		
Surrogate: 4-Bromofluorobenzene	*49.1*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*52.2*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.9*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: Dibromofluoromethane	*51.2*		µg/l		*50.0*		*102*	*70-130*		
Matrix Spike Dup (8121116-MSD1) **Source: SA88709-10**										
Prepared: 12-Dec-08 Analyzed: 13-Dec-08										
Benzene	19.4		µg/l		20.0	BRL	97	70-130	0.9	30
Chlorobenzene	20.7		µg/l		20.0	BRL	104	70-130	3	30
1,1-Dichloroethene	23.3		µg/l		20.0	BRL	116	70-130	3	30
Toluene	20.0		µg/l		20.0	BRL	100	70-130	0.9	30
Trichloroethene	20.2		µg/l		20.0	BRL	101	70-130	0.2	30
Surrogate: 4-Bromofluorobenzene	*46.8*		µg/l		*50.0*		*94*	*70-130*		
Surrogate: Toluene-d8	*51.9*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.7*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: Dibromofluoromethane	*50.2*		µg/l		*50.0*		*100*	*70-130*		
Batch 8121225 - SW846 5035A Soil (low level)										
Blank (8121225-BLK1)										
Prepared & Analyzed: 15-Dec-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg wet	5.0						
Acetone	BRL		µg/kg wet	50.0						
Acrylonitrile	BRL		µg/kg wet	5.0						
Benzene	BRL		µg/kg wet	5.0						
Bromobenzene	BRL		µg/kg wet	5.0						
Bromochloromethane	BRL		µg/kg wet	5.0						
Bromodichloromethane	BRL		µg/kg wet	5.0						
Bromoform	BRL		µg/kg wet	5.0						
Bromomethane	BRL		µg/kg wet	10.0						
2-Butanone (MEK)	BRL		µg/kg wet	50.0						
n-Butylbenzene	BRL		µg/kg wet	5.0						
sec-Butylbenzene	BRL		µg/kg wet	5.0						
tert-Butylbenzene	BRL		µg/kg wet	5.0						
Carbon disulfide	BRL		µg/kg wet	25.0						
Carbon tetrachloride	BRL		µg/kg wet	5.0						
Chlorobenzene	BRL		µg/kg wet	5.0						
Chloroethane	BRL		µg/kg wet	10.0						
Chloroform	BRL		µg/kg wet	5.0						
Chloromethane	BRL		µg/kg wet	10.0						
2-Chlorotoluene	BRL		µg/kg wet	5.0						
4-Chlorotoluene	BRL		µg/kg wet	5.0						
1,2-Dibromo-3-chloropropane	BRL		µg/kg wet	10.0						
Dibromochloromethane	BRL		µg/kg wet	5.0						
1,2-Dibromoethane (EDB)	BRL		µg/kg wet	5.0						
Dibromomethane	BRL		µg/kg wet	5.0						
1,2-Dichlorobenzene	BRL		µg/kg wet	5.0						
1,3-Dichlorobenzene	BRL		µg/kg wet	5.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121225 - SW846 5035A Soil (low level)										
Blank (8121225-BLK1)										
Prepared & Analyzed: 15-Dec-08										
1,4-Dichlorobenzene	BRL		µg/kg wet	5.0						
Dichlorodifluoromethane (Freon12)	BRL		µg/kg wet	10.0						
1,1-Dichloroethane	BRL		µg/kg wet	5.0						
1,2-Dichloroethane	BRL		µg/kg wet	5.0						
1,1-Dichloroethene	BRL		µg/kg wet	5.0						
cis-1,2-Dichloroethene	BRL		µg/kg wet	5.0						
trans-1,2-Dichloroethene	BRL		µg/kg wet	5.0						
1,2-Dichloropropane	BRL		µg/kg wet	5.0						
1,3-Dichloropropane	BRL		µg/kg wet	5.0						
2,2-Dichloropropane	BRL		µg/kg wet	5.0						
1,1-Dichloropropene	BRL		µg/kg wet	5.0						
cis-1,3-Dichloropropene	BRL		µg/kg wet	5.0						
trans-1,3-Dichloropropene	BRL		µg/kg wet	5.0						
Ethylbenzene	BRL		µg/kg wet	5.0						
Hexachlorobutadiene	BRL		µg/kg wet	5.0						
2-Hexanone (MBK)	BRL		µg/kg wet	50.0						
Isopropylbenzene	BRL		µg/kg wet	5.0						
4-Isopropyltoluene	BRL		µg/kg wet	5.0						
Methyl tert-butyl ether	BRL		µg/kg wet	5.0						
4-Methyl-2-pentanone (MIBK)	BRL		µg/kg wet	50.0						
Methylene chloride	BRL		µg/kg wet	50.0						
Naphthalene	BRL		µg/kg wet	5.0						
n-Propylbenzene	BRL		µg/kg wet	5.0						
Styrene	BRL		µg/kg wet	5.0						
1,1,1,2-Tetrachloroethane	BRL		µg/kg wet	5.0						
1,1,2,2-Tetrachloroethane	BRL		µg/kg wet	5.0						
Tetrachloroethene	BRL		µg/kg wet	5.0						
Toluene	BRL		µg/kg wet	5.0						
1,2,3-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,2,4-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,3,5-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,1,1-Trichloroethane	BRL		µg/kg wet	5.0						
1,1,2-Trichloroethane	BRL		µg/kg wet	5.0						
Trichloroethene	BRL		µg/kg wet	5.0						
Trichlorofluoromethane (Freon 11)	BRL		µg/kg wet	5.0						
1,2,3-Trichloropropane	BRL		µg/kg wet	5.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	5.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	5.0						
Vinyl chloride	BRL		µg/kg wet	5.0						
m,p-Xylene	BRL		µg/kg wet	10.0						
o-Xylene	BRL		µg/kg wet	5.0						
Tetrahydrofuran	BRL		µg/kg wet	50.0						
Ethyl ether	BRL		µg/kg wet	5.0						
Tert-amyl methyl ether	BRL		µg/kg wet	5.0						
Ethyl tert-butyl ether	BRL		µg/kg wet	5.0						
Di-isopropyl ether	BRL		µg/kg wet	5.0						
Tert-Butanol / butyl alcohol	BRL		µg/kg wet	50.0						
1,4-Dioxane	BRL		µg/kg wet	100						
trans-1,4-Dichloro-2-butene	BRL		µg/kg wet	25.0						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121225 - SW846 5035A Soil (low level)										
Blank (8121225-BLK1)										
Prepared & Analyzed: 15-Dec-08										
Ethanol	BRL		µg/kg wet	2000						
Surrogate: 4-Bromofluorobenzene	*49.9*		µg/kg wet		*50.0*		*100*	*70-130*		
Surrogate: Toluene-d8	*47.3*		µg/kg wet		*50.0*		*95*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*58.0*		µg/kg wet		*50.0*		*116*	*70-130*		
Surrogate: Dibromofluoromethane	*50.8*		µg/kg wet		*50.0*		*102*	*70-130*		
LCS (8121225-BS1)										
Prepared & Analyzed: 15-Dec-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.2		µg/kg wet		20.0		106	70-130		
Acetone	8.8		µg/kg wet		20.0		44	0-168		
Acrylonitrile	17.1		µg/kg wet		20.0		85	70-130		
Benzene	20.9		µg/kg wet		20.0		105	70-130		
Bromobenzene	18.7		µg/kg wet		20.0		93	70-130		
Bromochloromethane	17.1		µg/kg wet		20.0		85	70-130		
Bromodichloromethane	19.2		µg/kg wet		20.0		96	70-130		
Bromoform	17.4		µg/kg wet		20.0		87	70-130		
Bromomethane	16.5		µg/kg wet		20.0		82	40.9-138		
2-Butanone (MEK)	14.8		µg/kg wet		20.0		74	29.8-145		
n-Butylbenzene	26.6	QC1	µg/kg wet		20.0		133	70-130		
sec-Butylbenzene	21.8		µg/kg wet		20.0		109	70-130		
tert-Butylbenzene	20.7		µg/kg wet		20.0		104	70-130		
Carbon disulfide	20.4		µg/kg wet		20.0		102	70-130		
Carbon tetrachloride	21.5		µg/kg wet		20.0		108	70-130		
Chlorobenzene	20.5		µg/kg wet		20.0		102	70-130		
Chloroethane	17.8		µg/kg wet		20.0		89	47.5-130		
Chloroform	18.4		µg/kg wet		20.0		92	70-130		
Chloromethane	14.8		µg/kg wet		20.0		74	70-130		
2-Chlorotoluene	21.4		µg/kg wet		20.0		107	70-130		
4-Chlorotoluene	20.8		µg/kg wet		20.0		104	70-130		
1,2-Dibromo-3-chloropropane	20.1		µg/kg wet		20.0		100	70-130		
Dibromochloromethane	17.7		µg/kg wet		20.0		88	66.2-130		
1,2-Dibromoethane (EDB)	16.9		µg/kg wet		20.0		84	70-130		
Dibromomethane	17.0		µg/kg wet		20.0		85	70-130		
1,2-Dichlorobenzene	20.0		µg/kg wet		20.0		100	70-130		
1,3-Dichlorobenzene	19.1		µg/kg wet		20.0		95	70-130		
1,4-Dichlorobenzene	20.9		µg/kg wet		20.0		104	70-130		
Dichlorodifluoromethane (Freon12)	16.4		µg/kg wet		20.0		82	32-158		
1,1-Dichloroethane	19.2		µg/kg wet		20.0		96	70-130		
1,2-Dichloroethane	18.5		µg/kg wet		20.0		92	70-130		
1,1-Dichloroethene	21.2		µg/kg wet		20.0		106	70-130		
cis-1,2-Dichloroethene	18.2		µg/kg wet		20.0		91	70-130		
trans-1,2-Dichloroethene	20.7		µg/kg wet		20.0		104	70-130		
1,2-Dichloropropane	19.1		µg/kg wet		20.0		96	70-130		
1,3-Dichloropropane	17.2		µg/kg wet		20.0		86	70-130		
2,2-Dichloropropane	19.0		µg/kg wet		20.0		95	70-130		
1,1-Dichloropropene	22.0		µg/kg wet		20.0		110	70-130		
cis-1,3-Dichloropropene	18.7		µg/kg wet		20.0		94	70-130		
trans-1,3-Dichloropropene	18.4		µg/kg wet		20.0		92	70-130		
Ethylbenzene	21.7		µg/kg wet		20.0		108	70-130		
Hexachlorobutadiene	24.4		µg/kg wet		20.0		122	53.6-138		
2-Hexanone (MBK)	16.5		µg/kg wet		20.0		83	70-130		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121225 - SW846 5035A Soil (low level)										
LCS (8121225-BS1)										
Prepared & Analyzed: 15-Dec-08										
Isopropylbenzene	22.5		µg/kg wet		20.0		112	70-130		
4-Isopropyltoluene	23.3		µg/kg wet		20.0		116	70-130		
Methyl tert-butyl ether	19.7		µg/kg wet		20.0		98	70-130		
4-Methyl-2-pentanone (MIBK)	18.1		µg/kg wet		20.0		90	53.5-137		
Methylene chloride	17.3		µg/kg wet		20.0		86	70-130		
Naphthalene	18.4		µg/kg wet		20.0		92	70-130		
n-Propylbenzene	22.3		µg/kg wet		20.0		112	70-130		
Styrene	20.3		µg/kg wet		20.0		101	70-130		
1,1,1,2-Tetrachloroethane	20.4		µg/kg wet		20.0		102	70-130		
1,1,2,2-Tetrachloroethane	17.7		µg/kg wet		20.0		88	70-130		
Tetrachloroethene	21.1		µg/kg wet		20.0		105	70-130		
Toluene	18.9		µg/kg wet		20.0		94	70-130		
1,2,3-Trichlorobenzene	20.2		µg/kg wet		20.0		101	70-130		
1,2,4-Trichlorobenzene	21.2		µg/kg wet		20.0		106	70-130		
1,3,5-Trichlorobenzene	23.7		µg/kg wet		20.0		119	70-130		
1,1,1-Trichloroethane	20.9		µg/kg wet		20.0		104	70-130		
1,1,2-Trichloroethane	17.2		µg/kg wet		20.0		86	70-130		
Trichloroethene	19.7		µg/kg wet		20.0		99	70-130		
Trichlorofluoromethane (Freon 11)	20.9		µg/kg wet		20.0		105	50.9-138		
1,2,3-Trichloropropane	15.6		µg/kg wet		20.0		78	70-130		
1,2,4-Trimethylbenzene	20.9		µg/kg wet		20.0		104	70-130		
1,3,5-Trimethylbenzene	21.0		µg/kg wet		20.0		105	70-130		
Vinyl chloride	17.9		µg/kg wet		20.0		89	70-130		
m,p-Xylene	43.0		µg/kg wet		40.0		108	70-130		
o-Xylene	20.4		µg/kg wet		20.0		102	70-130		
Tetrahydrofuran	18.5		µg/kg wet		20.0		92	70-130		
Ethyl ether	20.7		µg/kg wet		20.0		103	61.4-130		
Tert-amyl methyl ether	18.2		µg/kg wet		20.0		91	70-130		
Ethyl tert-butyl ether	20.0		µg/kg wet		20.0		100	70-130		
Di-isopropyl ether	21.2		µg/kg wet		20.0		106	70-130		
Tert-Butanol / butyl alcohol	171		µg/kg wet		200		86	70-130		
1,4-Dioxane	167		µg/kg wet		200		83	48.3-142		
trans-1,4-Dichloro-2-butene	15.7		µg/kg wet		20.0		78	70-130		
Ethanol	318		µg/kg wet		400		80	70-130		
Surrogate: 4-Bromofluorobenzene	*48.8*		µg/kg wet		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*49.4*		µg/kg wet		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*45.8*		µg/kg wet		*50.0*		*92*	*70-130*		
Surrogate: Dibromofluoromethane	*47.6*		µg/kg wet		*50.0*		*95*	*70-130*		
LCS Dup (8121225-BSD1)										
Prepared & Analyzed: 15-Dec-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	19.2		µg/kg wet		20.0		96	70-130	10	25
Acetone	14.4		µg/kg wet		20.0		72	0-168	49	50
Acrylonitrile	17.9		µg/kg wet		20.0		89	70-130	5	25
Benzene	19.2		µg/kg wet		20.0		96	70-130	9	25
Bromobenzene	17.4		µg/kg wet		20.0		87	70-130	7	25
Bromochloromethane	15.1		µg/kg wet		20.0		75	70-130	12	25
Bromodichloromethane	18.3		µg/kg wet		20.0		92	70-130	5	25
Bromoform	17.6		µg/kg wet		20.0		88	70-130	2	25
Bromomethane	15.9		µg/kg wet		20.0		79	40.9-138	4	50
2-Butanone (MEK)	15.6		µg/kg wet		20.0		78	29.8-145	6	50

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121225 - SW846 5035A Soil (low level)										
LCS Dup (8121225-BSD1)										
Prepared & Analyzed: 15-Dec-08										
n-Butylbenzene	19.3	QR5	µg/kg wet		20.0		97	70-130	31	25
sec-Butylbenzene	18.5		µg/kg wet		20.0		93	70-130	16	25
tert-Butylbenzene	18.3		µg/kg wet		20.0		91	70-130	13	25
Carbon disulfide	18.5		µg/kg wet		20.0		93	70-130	10	25
Carbon tetrachloride	20.4		µg/kg wet		20.0		102	70-130	6	25
Chlorobenzene	18.8		µg/kg wet		20.0		94	70-130	9	25
Chloroethane	16.5		µg/kg wet		20.0		83	47.5-130	8	50
Chloroform	17.3		µg/kg wet		20.0		87	70-130	6	25
Chloromethane	13.7	QC1	µg/kg wet		20.0		69	70-130	7	25
2-Chlorotoluene	18.9		µg/kg wet		20.0		95	70-130	12	25
4-Chlorotoluene	18.1		µg/kg wet		20.0		90	70-130	14	25
1,2-Dibromo-3-chloropropane	19.3		µg/kg wet		20.0		96	70-130	4	25
Dibromochloromethane	17.6		µg/kg wet		20.0		88	66.2-130	0.3	50
1,2-Dibromoethane (EDB)	16.8		µg/kg wet		20.0		84	70-130	0.7	25
Dibromomethane	17.1		µg/kg wet		20.0		85	70-130	0.6	25
1,2-Dichlorobenzene	18.2		µg/kg wet		20.0		91	70-130	9	25
1,3-Dichlorobenzene	17.0		µg/kg wet		20.0		85	70-130	12	25
1,4-Dichlorobenzene	18.3		µg/kg wet		20.0		92	70-130	13	25
Dichlorodifluoromethane (Freon12)	14.0		µg/kg wet		20.0		70	32-158	16	50
1,1-Dichloroethane	18.2		µg/kg wet		20.0		91	70-130	6	25
1,2-Dichloroethane	18.5		µg/kg wet		20.0		93	70-130	0.4	25
1,1-Dichloroethene	19.2		µg/kg wet		20.0		96	70-130	10	25
cis-1,2-Dichloroethene	17.8		µg/kg wet		20.0		89	70-130	2	25
trans-1,2-Dichloroethene	20.0		µg/kg wet		20.0		100	70-130	3	25
1,2-Dichloropropane	19.1		µg/kg wet		20.0		96	70-130	0.2	25
1,3-Dichloropropane	17.1		µg/kg wet		20.0		86	70-130	0.7	25
2,2-Dichloropropane	17.5		µg/kg wet		20.0		87	70-130	8	25
1,1-Dichloropropene	19.8		µg/kg wet		20.0		99	70-130	10	25
cis-1,3-Dichloropropene	17.9		µg/kg wet		20.0		89	70-130	5	25
trans-1,3-Dichloropropene	17.5		µg/kg wet		20.0		88	70-130	5	25
Ethylbenzene	19.5		µg/kg wet		20.0		97	70-130	11	25
Hexachlorobutadiene	17.6		µg/kg wet		20.0		88	53.6-138	33	50
2-Hexanone (MBK)	17.7		µg/kg wet		20.0		89	70-130	7	25
Isopropylbenzene	20.5		µg/kg wet		20.0		102	70-130	9	25
4-Isopropyltoluene	19.0		µg/kg wet		20.0		95	70-130	20	25
Methyl tert-butyl ether	20.1		µg/kg wet		20.0		100	70-130	2	25
4-Methyl-2-pentanone (MIBK)	18.4		µg/kg wet		20.0		92	53.5-137	2	50
Methylene chloride	16.2		µg/kg wet		20.0		81	70-130	6	25
Naphthalene	16.2		µg/kg wet		20.0		81	70-130	13	25
n-Propylbenzene	19.1		µg/kg wet		20.0		96	70-130	16	25
Styrene	18.6		µg/kg wet		20.0		93	70-130	9	25
1,1,1,2-Tetrachloroethane	19.3		µg/kg wet		20.0		96	70-130	5	25
1,1,2,2-Tetrachloroethane	17.1		µg/kg wet		20.0		86	70-130	3	25
Tetrachloroethene	17.9		µg/kg wet		20.0		89	70-130	16	25
Toluene	16.8		µg/kg wet		20.0		84	70-130	12	25
1,2,3-Trichlorobenzene	16.4		µg/kg wet		20.0		82	70-130	21	25
1,2,4-Trichlorobenzene	16.5		µg/kg wet		20.0		82	70-130	25	25
1,3,5-Trichlorobenzene	18.4		µg/kg wet		20.0		92	70-130	25	25
1,1,1-Trichloroethane	19.7		µg/kg wet		20.0		98	70-130	6	25

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121225 - SW846 5035A Soil (low level)										
LCS Dup (8121225-BSD1)										
Prepared & Analyzed: 15-Dec-08										
1,1,2-Trichloroethane	17.5		µg/kg wet		20.0		88	70-130	2	25
Trichloroethene	19.1		µg/kg wet		20.0		96	70-130	3	25
Trichlorofluoromethane (Freon 11)	18.7		µg/kg wet		20.0		93	50.9-138	11	50
1,2,3-Trichloropropane	16.4		µg/kg wet		20.0		82	70-130	5	25
1,2,4-Trimethylbenzene	18.4		µg/kg wet		20.0		92	70-130	13	25
1,3,5-Trimethylbenzene	18.8		µg/kg wet		20.0		94	70-130	11	25
Vinyl chloride	15.7		µg/kg wet		20.0		79	70-130	13	25
m,p-Xylene	38.3		µg/kg wet		40.0		96	70-130	12	25
o-Xylene	18.4		µg/kg wet		20.0		92	70-130	10	25
Tetrahydrofuran	19.5		µg/kg wet		20.0		98	70-130	6	25
Ethyl ether	21.6		µg/kg wet		20.0		108	61.4-130	5	50
Tert-amyl methyl ether	16.3		µg/kg wet		20.0		82	70-130	11	25
Ethyl tert-butyl ether	19.7		µg/kg wet		20.0		99	70-130	1	25
Di-isopropyl ether	20.6		µg/kg wet		20.0		103	70-130	3	25
Tert-Butanol / butyl alcohol	186		µg/kg wet		200		93	70-130	8	25
1,4-Dioxane	166		µg/kg wet		200		83	48.3-142	0.7	25
trans-1,4-Dichloro-2-butene	16.8		µg/kg wet		20.0		84	70-130	7	25
Ethanol	305		µg/kg wet		400		76	70-130	4	30
Surrogate: 4-Bromofluorobenzene	*48.5*		µg/kg wet		*50.0*		*97*	*70-130*		
Surrogate: Toluene-d8	*47.8*		µg/kg wet		*50.0*		*96*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.9*		µg/kg wet		*50.0*		*98*	*70-130*		
Surrogate: Dibromofluoromethane	*49.0*		µg/kg wet		*50.0*		*98*	*70-130*		
Matrix Spike (8121225-MS1) **Source: SA88663-03**										
Prepared: 15-Dec-08 Analyzed: 16-Dec-08										
Benzene	15.7		µg/kg dry		20.0	BRL	78	70-130		
Chlorobenzene	12.9	QM7	µg/kg dry		20.0	BRL	64	70-130		
1,1-Dichloroethene	17.0		µg/kg dry		20.0	BRL	85	70-130		
Toluene	14.8		µg/kg dry		20.0	0.1	73	70-130		
Trichloroethene	15.3		µg/kg dry		20.0	BRL	77	70-130		
Surrogate: 4-Bromofluorobenzene	*47.8*		µg/kg dry		*50.0*		*96*	*70-130*		
Surrogate: Toluene-d8	*48.8*		µg/kg dry		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*60.2*		µg/kg dry		*50.0*		*120*	*70-130*		
Surrogate: Dibromofluoromethane	*52.4*		µg/kg dry		*50.0*		*105*	*70-130*		
Matrix Spike Dup (8121225-MSD1) **Source: SA88663-03**										
Prepared: 15-Dec-08 Analyzed: 16-Dec-08										
Benzene	17.7		µg/kg dry		20.0	BRL	89	70-130	12	30
Chlorobenzene	15.3		µg/kg dry		20.0	BRL	77	70-130	18	30
1,1-Dichloroethene	20.1		µg/kg dry		20.0	BRL	100	70-130	17	30
Toluene	15.7		µg/kg dry		20.0	0.1	78	70-130	6	30
Trichloroethene	17.5		µg/kg dry		20.0	BRL	87	70-130	13	30
Surrogate: 4-Bromofluorobenzene	*50.8*		µg/kg dry		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*49.7*		µg/kg dry		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*59.9*		µg/kg dry		*50.0*		*120*	*70-130*		
Surrogate: Dibromofluoromethane	*55.0*		µg/kg dry		*50.0*		*110*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121076 - SW846 3510C										
Blank (8121076-BLK1)										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
Acenaphthene	BRL		µg/l	5.00						
Acenaphthylene	BRL		µg/l	5.00						
Aniline	BRL		µg/l	5.00						
Anthracene	BRL		µg/l	5.00						
Atrazine	BRL		µg/l	5.00						
Azobenzene/Diphenyldiazine	BRL		µg/l	5.00						
Benzidine	BRL		µg/l	5.00						
Benzo (a) anthracene	BRL		µg/l	5.00						
Benzo (a) pyrene	BRL		µg/l	5.00						
Benzo (b) fluoranthene	BRL		µg/l	5.00						
Benzo (g,h,i) perylene	BRL		µg/l	5.00						
Benzo (k) fluoranthene	BRL		µg/l	5.00						
Benzoic acid	BRL		µg/l	5.00						
Benzyl alcohol	BRL		µg/l	5.00						
Bis(2-chloroethoxy)methane	BRL		µg/l	5.00						
Bis(2-chloroethyl)ether	BRL		µg/l	5.00						
Bis(2-chloroisopropyl)ether	BRL		µg/l	5.00						
Bis(2-ethylhexyl)phthalate	BRL		µg/l	5.00						
4-Bromophenyl phenyl ether	BRL		µg/l	5.00						
Butyl benzyl phthalate	BRL		µg/l	5.00						
Carbazole	BRL		µg/l	5.00						
4-Chloro-3-methylphenol	BRL		µg/l	5.00						
4-Chloroaniline	BRL		µg/l	5.00						
2-Chloronaphthalene	BRL		µg/l	5.00						
2-Chlorophenol	BRL		µg/l	5.00						
4-Chlorophenyl phenyl ether	BRL		µg/l	5.00						
Chrysene	BRL		µg/l	5.00						
Dibenzo (a,h) anthracene	BRL		µg/l	5.00						
Dibenzofuran	BRL		µg/l	5.00						
1,2-Dichlorobenzene	BRL		µg/l	5.00						
1,3-Dichlorobenzene	BRL		µg/l	5.00						
1,4-Dichlorobenzene	BRL		µg/l	5.00						
3,3'-Dichlorobenzidine	BRL		µg/l	5.00						
2,4-Dichlorophenol	BRL		µg/l	5.00						
Diethyl phthalate	BRL		µg/l	5.00						
Dimethyl phthalate	BRL		µg/l	5.00						
2,4-Dimethylphenol	BRL		µg/l	5.00						
Di-n-butyl phthalate	BRL		µg/l	5.00						
4,6-Dinitro-2-methylphenol	BRL		µg/l	5.00						
2,4-Dinitrophenol	BRL		µg/l	5.00						
2,4-Dinitrotoluene	BRL		µg/l	5.00						
2,6-Dinitrotoluene	BRL		µg/l	5.00						
Di-n-octyl phthalate	BRL		µg/l	5.00						
Fluoranthene	BRL		µg/l	5.00						
Fluorene	BRL		µg/l	5.00						
Hexachlorobenzene	BRL		µg/l	5.00						
Hexachlorobutadiene	BRL		µg/l	5.00						
Hexachlorocyclopentadiene	BRL		µg/l	5.00						
Hexachloroethane	BRL		µg/l	5.00						

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121076 - SW846 3510C										
Blank (8121076-BLK1)										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
Indeno (1,2,3-cd) pyrene	BRL		µg/l	5.00						
Isophorone	BRL		µg/l	5.00						
2-Methylnaphthalene	BRL		µg/l	5.00						
2-Methylphenol	BRL		µg/l	5.00						
3 & 4-Methylphenol	BRL		µg/l	10.0						
Naphthalene	BRL		µg/l	5.00						
2-Nitroaniline	BRL		µg/l	5.00						
3-Nitroaniline	BRL		µg/l	5.00						
4-Nitroaniline	BRL		µg/l	20.0						
Nitrobenzene	BRL		µg/l	5.00						
2-Nitrophenol	BRL		µg/l	5.00						
4-Nitrophenol	BRL		µg/l	20.0						
N-Nitrosodimethylamine	BRL		µg/l	5.00						
N-Nitrosodi-n-propylamine	BRL		µg/l	5.00						
N-Nitrosodiphenylamine	BRL		µg/l	5.00						
Pentachlorophenol	BRL		µg/l	20.0						
Phenanthrene	BRL		µg/l	5.00						
Phenol	BRL		µg/l	5.00						
Pyrene	BRL		µg/l	5.00						
Pyridine	BRL		µg/l	5.00						
1-Methylnaphthalene	BRL		µg/l	5.00						
1,2,4-Trichlorobenzene	BRL		µg/l	5.00						
2,4,5-Trichlorophenol	BRL		µg/l	5.00						
2,4,6-Trichlorophenol	BRL		µg/l	5.00						
Pentachloronitrobenzene	BRL		µg/l	5.00						
1,2,4,5-Tetrachlorobenzene	BRL		µg/l	5.00						
Surrogate: 2-Fluorobiphenyl	*32.8*		µg/l		*50.0*		*66*	*30-130*		
Surrogate: 2-Fluorophenol	*26.0*		µg/l		*50.0*		*52*	*15-110*		
Surrogate: Nitrobenzene-d5	*31.7*		µg/l		*50.0*		*63*	*30-130*		
Surrogate: Phenol-d5	*15.6*		µg/l		*50.0*		*31*	*15-110*		
Surrogate: Terphenyl-dl4	*43.6*		µg/l		*50.0*		*87*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*38.1*		µg/l		*50.0*		*76*	*15-110*		
LCS (8121076-BS1)										
Prepared: 12-Dec-08 Analyzed: 17-Dec-08										
Acenaphthene	38.0		µg/l	5.00	50.0		76	40-130		
Acenaphthylene	39.5		µg/l	5.00	50.0		79	40-130		
Aniline	21.3		µg/l	5.00	50.0		43	40-130		
Anthracene	38.8		µg/l	5.00	50.0		78	40-130		
Atrazine	34.8		µg/l	5.00	50.0		70	40-130		
Azobenzene/Diphenyldiazine	36.5		µg/l	5.00	50.0		73	40-130		
Benzidine	BRL		µg/l	5.00	50.0			0-224		
Benzo (a) anthracene	45.6		µg/l	5.00	50.0		91	40-130		
Benzo (a) pyrene	40.3		µg/l	5.00	50.0		81	40-130		
Benzo (b) fluoranthene	38.7		µg/l	5.00	50.0		77	40-130		
Benzo (g,h,i) perylene	38.8		µg/l	5.00	50.0		78	40-130		
Benzo (k) fluoranthene	38.3		µg/l	5.00	50.0		77	40-130		
Benzoic acid	21.3		µg/l	5.00	50.0		43	40-130		
Benzyl alcohol	25.8		µg/l	5.00	50.0		52	40-130		
Bis(2-chloroethoxy)methane	38.7		µg/l	5.00	50.0		77	40-130		
Bis(2-chloroethyl)ether	37.2		µg/l	5.00	50.0		74	40-130		

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121076 - SW846 3510C										
LCS (8121076-BS1)										
Prepared: 12-Dec-08 Analyzed: 17-Dec-08										
Bis(2-chloroisopropyl)ether	38.5		µg/l	5.00	50.0		77	40-130		
Bis(2-ethylhexyl)phthalate	53.9		µg/l	5.00	50.0		108	40-130		
4-Bromophenyl phenyl ether	42.3		µg/l	5.00	50.0		85	40-130		
Butyl benzyl phthalate	51.6		µg/l	5.00	50.0		103	40-130		
Carbazole	38.2		µg/l	5.00	50.0		76	40-130		
4-Chloro-3-methylphenol	35.9		µg/l	5.00	50.0		72	40-130		
4-Chloroaniline	27.6		µg/l	5.00	50.0		55	40-130		
2-Chloronaphthalene	34.5		µg/l	5.00	50.0		69	40-130		
2-Chlorophenol	32.9		µg/l	5.00	50.0		66	40-130		
4-Chlorophenyl phenyl ether	45.1		µg/l	5.00	50.0		90	40-130		
Chrysene	46.8		µg/l	5.00	50.0		94	40-130		
Dibenzo (a,h) anthracene	41.5		µg/l	5.00	50.0		83	40-130		
Dibenzofuran	37.3		µg/l	5.00	50.0		75	40-130		
1,2-Dichlorobenzene	31.3		µg/l	5.00	50.0		63	40-130		
1,3-Dichlorobenzene	31.4		µg/l	5.00	50.0		63	40-130		
1,4-Dichlorobenzene	31.0		µg/l	5.00	50.0		62	40-130		
3,3'-Dichlorobenzidine	31.6		µg/l	5.00	50.0		63	40-130		
2,4-Dichlorophenol	36.1		µg/l	5.00	50.0		72	40-130		
Diethyl phthalate	46.0		µg/l	5.00	50.0		92	40-130		
Dimethyl phthalate	47.8		µg/l	5.00	50.0		96	40-130		
2,4-Dimethylphenol	33.2		µg/l	5.00	50.0		66	40-130		
Di-n-butyl phthalate	45.0		µg/l	5.00	50.0		90	40-130		
4,6-Dinitro-2-methylphenol	42.2		µg/l	5.00	50.0		84	40-130		
2,4-Dinitrophenol	43.5		µg/l	5.00	50.0		87	40-130		
2,4-Dinitrotoluene	42.3		µg/l	5.00	50.0		85	40-130		
2,6-Dinitrotoluene	40.9		µg/l	5.00	50.0		82	40-130		
Di-n-octyl phthalate	44.4		µg/l	5.00	50.0		89	40-130		
Fluoranthene	38.5		µg/l	5.00	50.0		77	40-130		
Fluorene	38.1		µg/l	5.00	50.0		76	40-130		
Hexachlorobenzene	36.2		µg/l	5.00	50.0		72	40-130		
Hexachlorobutadiene	32.6		µg/l	5.00	50.0		65	40-130		
Hexachlorocyclopentadiene	27.7		µg/l	5.00	50.0		55	40-130		
Hexachloroethane	31.8		µg/l	5.00	50.0		64	40-130		
Indeno (1,2,3-cd) pyrene	41.0		µg/l	5.00	50.0		82	40-130		
Isophorone	34.2		µg/l	5.00	50.0		68	40-130		
2-Methylnaphthalene	33.8		µg/l	5.00	50.0		68	40-130		
2-Methylphenol	34.2		µg/l	5.00	50.0		68	40-130		
3 & 4-Methylphenol	33.8		µg/l	10.0	50.0		68	40-130		
Naphthalene	33.4		µg/l	5.00	50.0		67	40-130		
2-Nitroaniline	39.7		µg/l	5.00	50.0		79	40-130		
3-Nitroaniline	33.9		µg/l	5.00	50.0		68	40-130		
4-Nitroaniline	38.3		µg/l	20.0	50.0		77	40-130		
Nitrobenzene	32.0		µg/l	5.00	50.0		64	40-130		
2-Nitrophenol	34.9		µg/l	5.00	50.0		70	40-130		
4-Nitrophenol	26.8		µg/l	20.0	50.0		54	40-130		
N-Nitrosodimethylamine	7.36	QC2	µg/l	5.00	50.0		15	40-130		
N-Nitrosodi-n-propylamine	40.0		µg/l	5.00	50.0		80	40-130		
N-Nitrosodiphenylamine	42.1		µg/l	5.00	50.0		84	40-130		
Pentachlorophenol	41.1		µg/l	20.0	50.0		82	40-130		

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121076 - SW846 3510C										
LCS (8121076-BS1)										
Prepared: 12-Dec-08 Analyzed: 17-Dec-08										
Phenanthrene	37.6		µg/l	5.00	50.0		75	40-130		
Phenol	19.6	QC2	µg/l	5.00	50.0		39	40-130		
Pyrene	45.8		µg/l	5.00	50.0		92	40-130		
Pyridine	4.52		µg/l	5.00	50.0		9	0-130		
1,2,4-Trichlorobenzene	31.9		µg/l	5.00	50.0		64	40-130		
1-Methylnaphthalene	36.1		µg/l	5.00	50.0		72	40-140		
2,4,5-Trichlorophenol	40.3		µg/l	5.00	50.0		81	40-130		
2,4,6-Trichlorophenol	37.8		µg/l	5.00	50.0		76	40-130		
Pentachloronitrobenzene	38.3		µg/l	5.00	50.0		77	40-140		
1,2,4,5-Tetrachlorobenzene	32.7		µg/l	5.00	50.0		65	40-140		
Surrogate: 2-Fluorobiphenyl	*33.6*		µg/l		*50.0*		*67*	*30-130*		
Surrogate: 2-Fluorophenol	*23.1*		µg/l		*50.0*		*46*	*15-110*		
Surrogate: Nitrobenzene-d5	*32.1*		µg/l		*50.0*		*64*	*30-130*		
Surrogate: Phenol-d5	*14.7*		µg/l		*50.0*		*29*	*15-110*		
Surrogate: Terphenyl-d14	*41.5*		µg/l		*50.0*		*83*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*39.3*		µg/l		*50.0*		*79*	*15-110*		
Batch 8121325 - SW846 3550B										
Blank (8121325-BLK1)										
Prepared: 16-Dec-08 Analyzed: 23-Dec-08										
Acenaphthene	BRL		µg/kg wet	330						
Acenaphthylene	BRL		µg/kg wet	330						
Aniline	BRL		µg/kg wet	330						
Anthracene	BRL		µg/kg wet	330						
Atrazine	BRL		µg/kg wet	330						
Azobenzene/Diphenyldiazine	BRL		µg/kg wet	330						
Benzidine	BRL		µg/kg wet	330						
Benzo (a) anthracene	BRL		µg/kg wet	330						
Benzo (a) pyrene	BRL		µg/kg wet	330						
Benzo (b) fluoranthene	BRL		µg/kg wet	330						
Benzo (g,h,i) perylene	BRL		µg/kg wet	330						
Benzo (k) fluoranthene	BRL		µg/kg wet	330						
Benzoic acid	BRL		µg/kg wet	330						
Benzyl alcohol	BRL		µg/kg wet	330						
Bis(2-chloroethoxy)methane	BRL		µg/kg wet	330						
Bis(2-chloroethyl)ether	BRL		µg/kg wet	330						
Bis(2-chloroisopropyl)ether	BRL		µg/kg wet	330						
Bis(2-ethylhexyl)phthalate	BRL		µg/kg wet	330						
4-Bromophenyl phenyl ether	BRL		µg/kg wet	330						
Butyl benzyl phthalate	BRL		µg/kg wet	330						
Carbazole	BRL		µg/kg wet	330						
4-Chloro-3-methylphenol	BRL		µg/kg wet	330						
4-Chloroaniline	BRL		µg/kg wet	330						
2-Chloronaphthalene	BRL		µg/kg wet	330						
2-Chlorophenol	BRL		µg/kg wet	330						
4-Chlorophenyl phenyl ether	BRL		µg/kg wet	330						
Chrysene	BRL		µg/kg wet	330						
Dibenzo (a,h) anthracene	BRL		µg/kg wet	330						
Dibenzofuran	BRL		µg/kg wet	330						
1,2-Dichlorobenzene	BRL		µg/kg wet	330						
1,3-Dichlorobenzene	BRL		µg/kg wet	330						

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121325 - SW846 3550B										
Blank (8121325-BLK1)										
Prepared: 16-Dec-08 Analyzed: 23-Dec-08										
1,4-Dichlorobenzene	BRL		µg/kg wet	330						
3,3'-Dichlorobenzidine	BRL		µg/kg wet	330						
2,4-Dichlorophenol	BRL		µg/kg wet	330						
Diethyl phthalate	BRL		µg/kg wet	330						
Dimethyl phthalate	BRL		µg/kg wet	330						
2,4-Dimethylphenol	BRL		µg/kg wet	330						
Di-n-butyl phthalate	BRL		µg/kg wet	330						
4,6-Dinitro-2-methylphenol	BRL		µg/kg wet	330						
2,4-Dinitrophenol	BRL		µg/kg wet	330						
2,4-Dinitrotoluene	BRL		µg/kg wet	330						
2,6-Dinitrotoluene	BRL		µg/kg wet	330						
Di-n-octyl phthalate	BRL		µg/kg wet	330						
Fluoranthene	BRL		µg/kg wet	330						
Fluorene	BRL		µg/kg wet	330						
Hexachlorobenzene	BRL		µg/kg wet	330						
Hexachlorobutadiene	BRL		µg/kg wet	330						
Hexachlorocyclopentadiene	BRL		µg/kg wet	330						
Hexachloroethane	BRL		µg/kg wet	330						
Indeno (1,2,3-cd) pyrene	BRL		µg/kg wet	330						
1-Methylnaphthalene	BRL		µg/kg wet	330						
Isophorone	BRL		µg/kg wet	330						
2-Methylnaphthalene	BRL		µg/kg wet	330						
2-Methylphenol	BRL		µg/kg wet	330						
3 & 4-Methylphenol	BRL		µg/kg wet	330						
Naphthalene	BRL		µg/kg wet	330						
2-Nitroaniline	BRL		µg/kg wet	330						
3-Nitroaniline	BRL		µg/kg wet	330						
4-Nitroaniline	BRL		µg/kg wet	1320						
Nitrobenzene	BRL		µg/kg wet	330						
2-Nitrophenol	BRL		µg/kg wet	330						
4-Nitrophenol	BRL		µg/kg wet	1320						
N-Nitrosodimethylamine	BRL		µg/kg wet	330						
N-Nitrosodi-n-propylamine	BRL		µg/kg wet	330						
N-Nitrosodiphenylamine	BRL		µg/kg wet	330						
Pentachlorophenol	BRL		µg/kg wet	330						
Phenanthrene	BRL		µg/kg wet	330						
Phenol	BRL		µg/kg wet	330						
Pyrene	BRL		µg/kg wet	330						
Pyridine	BRL		µg/kg wet	330						
1,2,4-Trichlorobenzene	BRL		µg/kg wet	330						
2,4,5-Trichlorophenol	BRL		µg/kg wet	330						
2,4,6-Trichlorophenol	BRL		µg/kg wet	330						
Pentachloronitrobenzene	BRL		µg/kg wet	330						
1,2,4,5-Tetrachlorobenzene	BRL		µg/kg wet	330						
Surrogate: 2-Fluorobiphenyl	*1210*		µg/kg wet		*3330*		*36*	*30-130*		
Surrogate: 2-Fluorophenol	*1180*		µg/kg wet		*3330*		*35*	*15-110*		
Surrogate: Nitrobenzene-d5	*1070*		µg/kg wet		*3330*		*32*	*30-130*		
Surrogate: Phenol-d5	*1270*		µg/kg wet		*3330*		*38*	*15-110*		
Surrogate: Terphenyl-dl4	*1250*		µg/kg wet		*3330*		*37*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*67.3*	SGC	µg/kg wet		*3330*		*2*	*15-110*		

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121325 - SW846 3550B										
LCS (8121325-BS1)										
Prepared: 16-Dec-08 Analyzed: 23-Dec-08										
Acenaphthene	2210		µg/kg wet	330	3330		66	40-130		
Acenaphthylene	2230		µg/kg wet	330	3330		67	40-130		
Aniline	798	QC2	µg/kg wet	330	3330		24	40-130		
Anthracene	2410		µg/kg wet	330	3330		72	40-130		
Atrazine	1900		µg/kg wet	330	3330		57	40-130		
Azobenzene/Diphenyldiazine	2390		µg/kg wet	330	3330		72	40-130		
Benzidine	BRL		µg/kg wet	330	3330			0-130		
Benzo (a) anthracene	2370		µg/kg wet	330	3330		71	40-130		
Benzo (a) pyrene	2230		µg/kg wet	330	3330		67	40-130		
Benzo (b) fluoranthene	2190		µg/kg wet	330	3330		66	40-130		
Benzo (g,h,i) perylene	2120		µg/kg wet	330	3330		64	40-130		
Benzo (k) fluoranthene	2430		µg/kg wet	330	3330		73	40-130		
Benzoic acid	1610		µg/kg wet	330	3330		48	3.25-130		
Benzyl alcohol	2110		µg/kg wet	330	3330		63	40-130		
Bis(2-chloroethoxy)methane	2740		µg/kg wet	330	3330		82	40-130		
Bis(2-chloroethyl)ether	2910		µg/kg wet	330	3330		87	40-130		
Bis(2-chloroisopropyl)ether	2610		µg/kg wet	330	3330		78	40-130		
Bis(2-ethylhexyl)phthalate	2810		µg/kg wet	330	3330		84	40-130		
4-Bromophenyl phenyl ether	2570		µg/kg wet	330	3330		77	40-130		
Butyl benzyl phthalate	2750		µg/kg wet	330	3330		83	40-130		
Carbazole	2560		µg/kg wet	330	3330		77	40-130		
4-Chloro-3-methylphenol	2480		µg/kg wet	330	3330		74	40-130		
4-Chloroaniline	1640		µg/kg wet	330	3330		49	40-130		
2-Chloronaphthalene	2090		µg/kg wet	330	3330		63	40-130		
2-Chlorophenol	2120		µg/kg wet	330	3330		64	40-130		
4-Chlorophenyl phenyl ether	2510		µg/kg wet	330	3330		75	40-130		
Chrysene	2420		µg/kg wet	330	3330		73	40-130		
Dibenzo (a,h) anthracene	2220		µg/kg wet	330	3330		67	40-130		
Dibenzofuran	2120		µg/kg wet	330	3330		64	40-130		
1,2-Dichlorobenzene	2140		µg/kg wet	330	3330		64	40-130		
1,3-Dichlorobenzene	2400		µg/kg wet	330	3330		72	40-130		
1,4-Dichlorobenzene	1630		µg/kg wet	330	3330		49	40-130		
3,3'-Dichlorobenzidine	2200		µg/kg wet	330	3330		66	40-130		
2,4-Dichlorophenol	2300		µg/kg wet	330	3330		69	40-130		
Diethyl phthalate	2540		µg/kg wet	330	3330		76	40-130		
Dimethyl phthalate	2520		µg/kg wet	330	3330		76	40-130		
2,4-Dimethylphenol	1960		µg/kg wet	330	3330		59	40-130		
Di-n-butyl phthalate	2700		µg/kg wet	330	3330		81	40-130		
4,6-Dinitro-2-methylphenol	2380		µg/kg wet	330	3330		72	40-130		
2,4-Dinitrophenol	2370		µg/kg wet	330	3330		71	40-130		
2,4-Dinitrotoluene	2440		µg/kg wet	330	3330		73	40-130		
2,6-Dinitrotoluene	2370		µg/kg wet	330	3330		71	40-130		
Di-n-octyl phthalate	2730		µg/kg wet	330	3330		82	40-130		
Fluoranthene	2390		µg/kg wet	330	3330		72	40-130		
Fluorene	2320		µg/kg wet	330	3330		70	40-130		
Hexachlorobenzene	156	QC2	µg/kg wet	330	3330		5	40-130		
Hexachlorobutadiene	2050		µg/kg wet	330	3330		61	40-130		
Hexachlorocyclopentadiene	1520		µg/kg wet	330	3330		46	40-130		
Hexachloroethane	2080		µg/kg wet	330	3330		62	40-130		

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121325 - SW846 3550B										
LCS (8121325-BS1)										
Prepared: 16-Dec-08 Analyzed: 23-Dec-08										
Indeno (1,2,3-cd) pyrene	2070		µg/kg wet	330	3330		62	40-130		
Isophorone	2400		µg/kg wet	330	3330		72	40-130		
1-Methylnaphthalene	2310		µg/kg wet	330	3330		69	40-140		
2-Methylnaphthalene	2620		µg/kg wet	330	3330		79	40-130		
2-Methylphenol	2200		µg/kg wet	330	3330		66	40-130		
3 & 4-Methylphenol	2300		µg/kg wet	330	3330		69	40-130		
Naphthalene	2220		µg/kg wet	330	3330		67	40-130		
2-Nitroaniline	2480		µg/kg wet	330	3330		74	40-130		
3-Nitroaniline	2070		µg/kg wet	330	3330		62	40-130		
4-Nitroaniline	2450		µg/kg wet	1320	3330		74	40-130		
Nitrobenzene	2690		µg/kg wet	330	3330		81	40-130		
2-Nitrophenol	2280		µg/kg wet	330	3330		68	40-130		
4-Nitrophenol	2500		µg/kg wet	1320	3330		75	40-130		
N-Nitrosodimethylamine	3150		µg/kg wet	330	3330		95	40-130		
N-Nitrosodi-n-propylamine	2500		µg/kg wet	330	3330		75	40-130		
N-Nitrosodiphenylamine	2730		µg/kg wet	330	3330		82	40-130		
Pentachlorophenol	2200		µg/kg wet	330	3330		66	40-130		
Phenanthrene	2240		µg/kg wet	330	3330		67	40-130		
Phenol	2100		µg/kg wet	330	3330		63	40-130		
Pyrene	2280		µg/kg wet	330	3330		68	40-130		
Pyridine	489		µg/kg wet	330	3330		15	0-130		
1,2,4-Trichlorobenzene	2040		µg/kg wet	330	3330		61	40-130		
2,4,5-Trichlorophenol	2190		µg/kg wet	330	3330		66	40-130		
2,4,6-Trichlorophenol	2120		µg/kg wet	330	3330		64	40-130		
Pentachloronitrobenzene	2300		µg/kg wet	330	3330		69	40-140		
1,2,4,5-Tetrachlorobenzene	1980		µg/kg wet	330	3330		59	40-140		
Surrogate: 2-Fluorobiphenyl	*2100*		µg/kg wet		*3330*		*63*	*30-130*		
Surrogate: 2-Fluorophenol	*1980*		µg/kg wet		*3330*		*59*	*15-110*		
Surrogate: Nitrobenzene-d5	*2240*		µg/kg wet		*3330*		*67*	*30-130*		
Surrogate: Phenol-d5	*2300*		µg/kg wet		*3330*		*69*	*15-110*		
Surrogate: Terphenyl-dl4	*2150*		µg/kg wet		*3330*		*64*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*186*	SGC	µg/kg wet		*3330*		*6*	*15-110*		
Duplicate (8121325-DUP1) **Source: SA88675-05**										
Prepared: 16-Dec-08 Analyzed: 23-Dec-08										
Acenaphthene	BRL		µg/kg dry	382		BRL				50
Acenaphthylene	BRL		µg/kg dry	382		BRL				50
Aniline	BRL		µg/kg dry	382		BRL				50
Anthracene	BRL		µg/kg dry	382		BRL				50
Atrazine	BRL		µg/kg dry	382		BRL				50
Azobenzene/Diphenyldiazine	BRL		µg/kg dry	382		BRL				50
Benzidine	BRL		µg/kg dry	382		BRL				50
Benzo (a) anthracene	BRL		µg/kg dry	382		BRL				50
Benzo (a) pyrene	BRL		µg/kg dry	382		BRL				50
Benzo (b) fluoranthene	BRL		µg/kg dry	382		BRL				50
Benzo (g,h,i) perylene	BRL		µg/kg dry	382		BRL				50
Benzo (k) fluoranthene	BRL		µg/kg dry	382		BRL				50
Benzoic acid	BRL		µg/kg dry	382		BRL				50
Benzyl alcohol	BRL		µg/kg dry	382		BRL				50
Bis(2-chloroethoxy)methane	BRL		µg/kg dry	382		BRL				50
Bis(2-chloroethyl)ether	BRL		µg/kg dry	382		BRL				50

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121325 - SW846 3550B										
Duplicate (8121325-DUP1) **Source: SA88675-05**										
Prepared: 16-Dec-08 Analyzed: 23-Dec-08										
Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	382		BRL				50
Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	382		BRL				50
4-Bromophenyl phenyl ether	BRL		µg/kg dry	382		BRL				50
Butyl benzyl phthalate	BRL		µg/kg dry	382		BRL				50
Carbazole	BRL		µg/kg dry	382		BRL				50
4-Chloro-3-methylphenol	BRL		µg/kg dry	382		BRL				50
4-Chloroaniline	BRL		µg/kg dry	382		BRL				50
2-Chloronaphthalene	BRL		µg/kg dry	382		BRL				50
2-Chlorophenol	BRL		µg/kg dry	382		BRL				50
4-Chlorophenyl phenyl ether	BRL		µg/kg dry	382		BRL				50
Chrysene	BRL		µg/kg dry	382		BRL				50
Dibenzo (a,h) anthracene	BRL		µg/kg dry	382		BRL				50
Dibenzofuran	BRL		µg/kg dry	382		BRL				50
1,2-Dichlorobenzene	BRL		µg/kg dry	382		BRL				50
1,3-Dichlorobenzene	BRL		µg/kg dry	382		BRL				50
1,4-Dichlorobenzene	BRL		µg/kg dry	382		BRL				50
3,3'-Dichlorobenzidine	BRL		µg/kg dry	382		BRL				50
2,4-Dichlorophenol	BRL		µg/kg dry	382		BRL				50
Diethyl phthalate	BRL		µg/kg dry	382		BRL				50
Dimethyl phthalate	BRL		µg/kg dry	382		BRL				50
2,4-Dimethylphenol	BRL		µg/kg dry	382		BRL				50
Di-n-butyl phthalate	BRL		µg/kg dry	382		BRL				50
4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	382		BRL				50
2,4-Dinitrophenol	BRL		µg/kg dry	382		BRL				50
2,4-Dinitrotoluene	BRL		µg/kg dry	382		BRL				50
2,6-Dinitrotoluene	BRL		µg/kg dry	382		BRL				50
Di-n-octyl phthalate	BRL		µg/kg dry	382		BRL				50
Fluoranthene	BRL		µg/kg dry	382		BRL				50
Fluorene	BRL		µg/kg dry	382		BRL				50
Hexachlorobenzene	BRL		µg/kg dry	382		BRL				50
Hexachlorobutadiene	BRL		µg/kg dry	382		BRL				50
Hexachlorocyclopentadiene	BRL		µg/kg dry	382		BRL				50
Hexachloroethane	BRL		µg/kg dry	382		BRL				50
Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	382		BRL				50
1-Methylnaphthalene	BRL		µg/kg dry	382		BRL				50
Isophorone	BRL		µg/kg dry	382		BRL				50
2-Methylnaphthalene	BRL		µg/kg dry	382		BRL				50
2-Methylphenol	BRL		µg/kg dry	382		BRL				50
3 & 4-Methylphenol	BRL		µg/kg dry	382		BRL				50
Naphthalene	BRL		µg/kg dry	382		BRL				50
2-Nitroaniline	BRL		µg/kg dry	382		BRL				50
3-Nitroaniline	BRL		µg/kg dry	382		BRL				50
4-Nitroaniline	BRL		µg/kg dry	1530		BRL				50
Nitrobenzene	BRL		µg/kg dry	382		BRL				50
2-Nitrophenol	BRL		µg/kg dry	382		BRL				50
4-Nitrophenol	BRL		µg/kg dry	1530		BRL				50
N-Nitrosodimethylamine	BRL		µg/kg dry	382		BRL				50
N-Nitrosodi-n-propylamine	BRL		µg/kg dry	382		BRL				50
N-Nitrosodiphenylamine	BRL		µg/kg dry	382		BRL				50

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121325 - SW846 3550B										
Duplicate (8121325-DUP1) **Source: SA88675-05**										
Prepared: 16-Dec-08 Analyzed: 23-Dec-08										
Pentachlorophenol	BRL		µg/kg dry	382		BRL				50
Phenanthrene	BRL		µg/kg dry	382		BRL				50
Phenol	BRL		µg/kg dry	382		BRL				50
Pyrene	BRL		µg/kg dry	382		BRL				50
Pyridine	BRL		µg/kg dry	382		BRL				50
1,2,4-Trichlorobenzene	BRL		µg/kg dry	382		BRL				50
2,4,5-Trichlorophenol	BRL		µg/kg dry	382		BRL				50
2,4,6-Trichlorophenol	BRL		µg/kg dry	382		BRL				50
Pentachloronitrobenzene	BRL		µg/kg dry	382		BRL				50
1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	382		BRL				50
Surrogate: 2-Fluorobiphenyl	*1340*		µg/kg dry		*1930*		*70*	*30-130*		
Surrogate: 2-Fluorophenol	*1320*		µg/kg dry		*1930*		*68*	*15-110*		
Surrogate: Nitrobenzene-d5	*1170*		µg/kg dry		*1930*		*60*	*30-130*		
Surrogate: Phenol-d5	*1330*		µg/kg dry		*1930*		*69*	*15-110*		
Surrogate: Terphenyl-dl4	*1420*		µg/kg dry		*1930*		*74*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*80.2*	SGC	µg/kg dry		*1930*		*4*	*15-110*		
Matrix Spike (8121325-MS1) **Source: SA88675-05**										
Prepared: 16-Dec-08 Analyzed: 23-Dec-08										
Acenaphthene	1270		µg/kg dry	191	1930	BRL	66	40-140		
Benzo (b) fluoranthene	1040		µg/kg dry	191	1930	BRL	54	40-140		
Benzo (k) fluoranthene	1680		µg/kg dry	191	1930	BRL	87	40-140		
4-Chloro-3-methylphenol	1340		µg/kg dry	191	1930	BRL	70	30-130		
2-Chlorophenol	1210		µg/kg dry	191	1930	BRL	63	30-130		
Chrysene	1390		µg/kg dry	191	1930	BRL	72	40-140		
1,4-Dichlorobenzene	1260		µg/kg dry	191	1930	BRL	65	40-140		
Indeno (1,2,3-cd) pyrene	1220		µg/kg dry	191	1930	BRL	63	40-140		
Naphthalene	1280		µg/kg dry	191	1930	BRL	67	40-140		
4-Nitrophenol	1370		µg/kg dry	764	1930	BRL	71	30-130		
N-Nitrosodi-n-propylamine	1410		µg/kg dry	191	1930	BRL	73	40-140		
Pentachlorophenol	1260		µg/kg dry	191	1930	BRL	65	30-130		
Phenol	1210		µg/kg dry	191	1930	BRL	63	30-130		
Pyrene	1410		µg/kg dry	191	1930	BRL	73	40-140		
1,2,4-Trichlorobenzene	1180		µg/kg dry	191	1930	BRL	61	40-140		
Surrogate: 2-Fluorobiphenyl	*1170*		µg/kg dry		*1930*		*61*	*30-130*		
Surrogate: 2-Fluorophenol	*1100*		µg/kg dry		*1930*		*57*	*15-110*		
Surrogate: Nitrobenzene-d5	*1230*		µg/kg dry		*1930*		*64*	*30-130*		
Surrogate: Phenol-d5	*1270*		µg/kg dry		*1930*		*66*	*15-110*		
Surrogate: Terphenyl-dl4	*1240*		µg/kg dry		*1930*		*64*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*103*	SGC	µg/kg dry		*1930*		*5*	*15-110*		
Matrix Spike Dup (8121325-MSD1) **Source: SA88675-05**										
Prepared: 16-Dec-08 Analyzed: 23-Dec-08										
Acenaphthene	1190		µg/kg dry	188	1900	BRL	63	40-140	5	30
Benzo (b) fluoranthene	973		µg/kg dry	188	1900	BRL	51	40-140	5	30
Benzo (k) fluoranthene	1540		µg/kg dry	188	1900	BRL	81	40-140	7	30
4-Chloro-3-methylphenol	1260		µg/kg dry	188	1900	BRL	66	30-130	5	30
2-Chlorophenol	1140		µg/kg dry	188	1900	BRL	60	30-130	4	30
Chrysene	1280		µg/kg dry	188	1900	BRL	68	40-140	6	30
1,4-Dichlorobenzene	1200		µg/kg dry	188	1900	BRL	64	40-140	3	30
Indeno (1,2,3-cd) pyrene	1110		µg/kg dry	188	1900	BRL	59	40-140	7	30
Naphthalene	1210		µg/kg dry	188	1900	BRL	64	40-140	4	30
4-Nitrophenol	1250		µg/kg dry	751	1900	BRL	66	30-130	7	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 8121325 - SW846 3550B										
Matrix Spike Dup (8121325-MSD1) **Source: SA88675-05**										
Prepared: 16-Dec-08 Analyzed: 23-Dec-08										
N-Nitrosodi-n-propylamine	1330		µg/kg dry	188	1900	BRL	70	40-140	4	30
Pentachlorophenol	1070		µg/kg dry	188	1900	BRL	57	30-130	14	30
Phenol	1150		µg/kg dry	188	1900	BRL	61	30-130	3	30
Pyrene	1290		µg/kg dry	188	1900	BRL	68	40-140	7	30
1,2,4-Trichlorobenzene	1110		µg/kg dry	188	1900	BRL	58	40-140	4	30
Surrogate: 2-Fluorobiphenyl	*1130*		µg/kg dry		*1900*		*60*	*30-130*		
Surrogate: 2-Fluorophenol	*1080*		µg/kg dry		*1900*		*57*	*15-110*		
Surrogate: Nitrobenzene-d5	*1200*		µg/kg dry		*1900*		*63*	*30-130*		
Surrogate: Phenol-d5	*1230*		µg/kg dry		*1900*		*65*	*15-110*		
Surrogate: Terphenyl-dl4	*1150*		µg/kg dry		*1900*		*61*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*95.1*	SGC	µg/kg dry		*1900*		*5*	*15-110*		

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8120969 - SW846 3510C										
Blank (8120969-BLK1)										
Prepared: 11-Dec-08 Analyzed: 12-Dec-08										
PCB 1016	BRL		µg/l	0.200						
PCB 1221	BRL		µg/l	0.200						
PCB 1232	BRL		µg/l	0.200						
PCB 1242	BRL		µg/l	0.200						
PCB 1248	BRL		µg/l	0.200						
PCB 1254	BRL		µg/l	0.200						
PCB 1260	BRL		µg/l	0.200						
PCB 1262	BRL		µg/l	0.200						
PCB 1268	BRL		µg/l	0.200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*BRL*		µg/l		*0.200*		*88*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*BRL*		µg/l		*0.200*		*66*	*30-150*		
LCS (8120969-BS1)										
Prepared: 11-Dec-08 Analyzed: 12-Dec-08										
PCB 1016	2.09		µg/l	0.200	2.50		83	40-140		
PCB 1260	2.44		µg/l	0.200	2.50		97	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.161*		µg/l		*0.200*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.210*		µg/l		*0.200*		*105*	*30-150*		
LCS Dup (8120969-BSD1)										
Prepared: 11-Dec-08 Analyzed: 12-Dec-08										
PCB 1016	2.11		µg/l	0.200	2.50		85	40-140	1	20
PCB 1260	2.55		µg/l	0.200	2.50		102	40-140	5	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.144*		µg/l		*0.200*		*72*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.218*		µg/l		*0.200*		*109*	*30-150*		
Batch 8120971 - SW846 3510C										
Blank (8120971-BLK1)										
Prepared & Analyzed: 11-Dec-08										
2,4,5-T	BRL		µg/l	0.100						
2,4,5-T [2C]	BRL		µg/l	0.100						
2,4,5-TP (Silvex)	BRL		µg/l	0.100						
2,4,5-TP (Silvex) [2C]	BRL		µg/l	0.100						
2,4-D	BRL		µg/l	0.100						
2,4-D [2C]	BRL		µg/l	0.100						
2,4-DB	BRL		µg/l	0.100						
2,4-DB [2C]	BRL		µg/l	0.100						
Dalapon	BRL		µg/l	0.100						
Dalapon [2C]	BRL		µg/l	0.100						
Dicamba	BRL		µg/l	0.100						
Dicamba [2C]	BRL		µg/l	0.100						
Dichlorprop	BRL		µg/l	0.100						
Dichlorprop [2C]	BRL		µg/l	0.100						
Dinoseb	BRL		µg/l	0.100						
Dinoseb [2C]	BRL		µg/l	0.100						
MCPA	BRL		µg/l	1.50						
MCPA [2C]	BRL		µg/l	1.50						
MCPB	BRL		µg/l	1.50						
MCPB [2C]	BRL		µg/l	1.50						
MCPP	BRL		µg/l	1.50						
MCPP [2C]	BRL		µg/l	1.50						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.235*		µg/l		*0.200*		*118*	*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 8120971 - SW846 3510C										
Blank (8120971-BLK1)										
Prepared & Analyzed: 11-Dec-08										
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*0.248*		µg/l		*0.200*		*124*	*30-150*		
LCS (8120971-BS1)										
Prepared & Analyzed: 11-Dec-08										
2,4,5-T	0.421		µg/l	0.100	0.500		84	40-140		
2,4,5-T [2C]	0.370		µg/l	0.100	0.500		74	40-140		
2,4,5-TP (Silvex)	0.453		µg/l	0.100	0.500		91	40-140		
2,4,5-TP (Silvex) [2C]	0.426		µg/l	0.100	0.500		85	40-140		
2,4-D	0.416		µg/l	0.100	0.500		83	40-140		
2,4-D [2C]	0.340		µg/l	0.100	0.500		68	40-140		
2,4-DB	0.356		µg/l	0.100	0.500		71	40-140		
2,4-DB [2C]	0.308		µg/l	0.100	0.500		62	40-140		
Dalapon	0.331		µg/l	0.100	0.500		66	40-140		
Dalapon [2C]	0.380		µg/l	0.100	0.500		76	40-140		
Dicamba	0.433		µg/l	0.100	0.500		87	40-140		
Dicamba [2C]	0.475		µg/l	0.100	0.500		95	40-140		
Dichlorprop	0.408		µg/l	0.100	0.500		82	40-140		
Dichlorprop [2C]	0.472		µg/l	0.100	0.500		94	40-140		
Dinoseb	0.499		µg/l	0.100	0.500		100	40-140		
Dinoseb [2C]	0.491		µg/l	0.100	0.500		98	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.234*		µg/l		*0.200*		*117*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*0.248*		µg/l		*0.200*		*124*	*30-150*		
LCS (8120971-BS2)										
Prepared & Analyzed: 11-Dec-08										
MCPA	128		µg/l	1.50	150		85	40-140		
MCPA [2C]	138		µg/l	1.50	150		92	40-140		
MCPB	125		µg/l	1.50	150		83	40-140		
MCPB [2C]	141		µg/l	1.50	150		94	40-140		
MCPP	115		µg/l	1.50	150		77	40-140		
MCPP [2C]	114		µg/l	1.50	150		76	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.221*		µg/l		*0.200*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*0.222*		µg/l		*0.200*		*111*	*30-150*		
LCS Dup (8120971-BSD1)										
Prepared & Analyzed: 11-Dec-08										
2,4,5-T	0.397		µg/l	0.100	0.500		79	40-140	6	25
2,4,5-T [2C]	0.369		µg/l	0.100	0.500		74	40-140	0.3	25
2,4,5-TP (Silvex)	0.431		µg/l	0.100	0.500		86	40-140	5	25
2,4,5-TP (Silvex) [2C]	0.416		µg/l	0.100	0.500		83	40-140	2	25
2,4-D	0.406		µg/l	0.100	0.500		81	40-140	2	25
2,4-D [2C]	0.369		µg/l	0.100	0.500		74	40-140	8	25
2,4-DB	0.372		µg/l	0.100	0.500		74	40-140	4	25
2,4-DB [2C]	0.313		µg/l	0.100	0.500		63	40-140	2	25
Dalapon	0.321		µg/l	0.100	0.500		64	40-140	3	25
Dalapon [2C]	0.372		µg/l	0.100	0.500		74	40-140	2	25
Dicamba	0.435		µg/l	0.100	0.500		87	40-140	0.5	25
Dicamba [2C]	0.479		µg/l	0.100	0.500		96	40-140	0.8	25
Dichlorprop	0.432		µg/l	0.100	0.500		86	40-140	6	25
Dichlorprop [2C]	0.462		µg/l	0.100	0.500		92	40-140	2	25
Dinoseb	0.444		µg/l	0.100	0.500		89	40-140	12	25
Dinoseb [2C]	0.476		µg/l	0.100	0.500		95	40-140	3	25

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8120971 - SW846 3510C										
LCS Dup (8120971-BSD1)										
Prepared & Analyzed: 11-Dec-08										
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.216*		µg/l		*0.200*		*108*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*0.238*		µg/l		*0.200*		*119*	*30-150*		
LCS Dup (8120971-BSD2)										
Prepared & Analyzed: 11-Dec-08										
MCPA	131		µg/l	1.50	150		87	40-140	2	25
MCPA [2C]	147		µg/l	1.50	150		98	40-140	6	25
MCPB	126		µg/l	1.50	150		84	40-140	0.8	25
MCPB [2C]	142		µg/l	1.50	150		95	40-140	0.7	25
MCPP	120		µg/l	1.50	150		80	40-140	4	25
MCPP [2C]	120		µg/l	1.50	150		80	40-140	5	25
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.229*		µg/l		*0.200*		*114*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*0.240*		µg/l		*0.200*		*120*	*30-150*		
Batch 8121397 - SW846 3550B										
Blank (8121397-BLK1)										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
2,4,5-T	BRL		µg/kg wet	6.70						
2,4,5-T [2C]	BRL		µg/kg wet	6.70						
2,4,5-TP (Silvex)	BRL		µg/kg wet	6.70						
2,4,5-TP (Silvex) [2C]	BRL		µg/kg wet	6.70						
2,4-D	BRL		µg/kg wet	6.70						
2,4-D [2C]	BRL		µg/kg wet	6.70						
2,4-DB	BRL		µg/kg wet	6.70						
2,4-DB [2C]	BRL		µg/kg wet	6.70						
Dalapon	BRL		µg/kg wet	6.70						
Dalapon [2C]	BRL		µg/kg wet	6.70						
Dicamba	BRL		µg/kg wet	6.70						
Dicamba [2C]	BRL		µg/kg wet	6.70						
Dichlorprop	BRL		µg/kg wet	6.70						
Dichlorprop [2C]	BRL		µg/kg wet	6.70						
Dinoseb	BRL		µg/kg wet	6.70						
Dinoseb [2C]	BRL		µg/kg wet	6.70						
MCPA	BRL		µg/kg wet	670						
MCPA [2C]	BRL		µg/kg wet	670						
MCPB	BRL		µg/kg wet	670						
MCPB [2C]	BRL		µg/kg wet	670						
MCPP	BRL		µg/kg wet	670						
MCPP [2C]	BRL		µg/kg wet	670						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*17.1*		µg/kg wet		*13.3*		*128*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*17.7*		µg/kg wet		*13.3*		*133*	*30-150*		
LCS (8121397-BS1)										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
2,4,5-T	31.7		µg/kg wet	6.70	33.3		95	40-140		
2,4,5-T [2C]	32.8		µg/kg wet	6.70	33.3		98	40-140		
2,4,5-TP (Silvex)	32.6		µg/kg wet	6.70	33.3		98	40-140		
2,4,5-TP (Silvex) [2C]	31.3		µg/kg wet	6.70	33.3		94	40-140		
2,4-D	32.1		µg/kg wet	6.70	33.3		96	40-140		
2,4-D [2C]	30.1		µg/kg wet	6.70	33.3		90	40-140		
2,4-DB	32.1		µg/kg wet	6.70	33.3		96	40-140		
2,4-DB [2C]	31.5		µg/kg wet	6.70	33.3		94	40-140		

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121397 - SW846 3550B										
LCS (8121397-BS1)										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Dalapon	18.6		µg/kg wet	6.70	33.3		56	40-140		
Dalapon [2C]	22.7		µg/kg wet	6.70	33.3		68	40-140		
Dicamba	30.2		µg/kg wet	6.70	33.3		91	40-140		
Dicamba [2C]	32.1		µg/kg wet	6.70	33.3		96	40-140		
Dichlorprop	32.8		µg/kg wet	6.70	33.3		98	40-140		
Dichlorprop [2C]	30.9		µg/kg wet	6.70	33.3		93	40-140		
Dinoseb	33.3		µg/kg wet	6.70	33.3		100	40-140		
Dinoseb [2C]	34.8		µg/kg wet	6.70	33.3		104	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*16.3*		µg/kg wet		*13.3*		*122*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*18.1*		µg/kg wet		*13.3*		*136*	*30-150*		
LCS (8121397-BS2)										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
MCPA	9400		µg/kg wet	670	10000		94	40-140		
MCPA [2C]	10900		µg/kg wet	670	10000		109	40-140		
MCPB	9530		µg/kg wet	670	10000		95	40-140		
MCPB [2C]	10300		µg/kg wet	670	10000		103	40-140		
MCPP	9530		µg/kg wet	670	10000		95	40-140		
MCPP [2C]	9470		µg/kg wet	670	10000		95	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*17.2*		µg/kg wet		*13.3*		*129*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*18.1*		µg/kg wet		*13.3*		*136*	*30-150*		
LCS Dup (8121397-BSD1)										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
2,4,5-T	29.3		µg/kg wet	6.70	33.3		88	40-140	8	25
2,4,5-T [2C]	30.2		µg/kg wet	6.70	33.3		91	40-140	8	25
2,4,5-TP (Silvex)	31.8		µg/kg wet	6.70	33.3		95	40-140	2	25
2,4,5-TP (Silvex) [2C]	29.6		µg/kg wet	6.70	33.3		89	40-140	5	25
2,4-D	31.5		µg/kg wet	6.70	33.3		95	40-140	2	25
2,4-D [2C]	27.6		µg/kg wet	6.70	33.3		83	40-140	9	25
2,4-DB	30.9		µg/kg wet	6.70	33.3		93	40-140	4	25
2,4-DB [2C]	30.6		µg/kg wet	6.70	33.3		92	40-140	3	25
Dalapon	18.7		µg/kg wet	6.70	33.3		56	40-140	0.4	25
Dalapon [2C]	22.5		µg/kg wet	6.70	33.3		67	40-140	1	25
Dicamba	29.0		µg/kg wet	6.70	33.3		87	40-140	4	25
Dicamba [2C]	32.9		µg/kg wet	6.70	33.3		99	40-140	2	25
Dichlorprop	31.5		µg/kg wet	6.70	33.3		94	40-140	4	25
Dichlorprop [2C]	30.2		µg/kg wet	6.70	33.3		91	40-140	2	25
Dinoseb	33.3		µg/kg wet	6.70	33.3		100	40-140	0	25
Dinoseb [2C]	31.8		µg/kg wet	6.70	33.3		95	40-140	9	25
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*15.2*		µg/kg wet		*13.3*		*114*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*17.7*		µg/kg wet		*13.3*		*133*	*30-150*		
LCS Dup (8121397-BSD2)										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
MCPA	9200		µg/kg wet	670	10000		92	40-140	2	25
MCPA [2C]	10700		µg/kg wet	670	10000		107	40-140	2	25
MCPB	9470		µg/kg wet	670	10000		95	40-140	0.7	25
MCPB [2C]	10300		µg/kg wet	670	10000		103	40-140	0.6	25
MCPP	9470		µg/kg wet	670	10000		95	40-140	0.7	25
MCPP [2C]	8670		µg/kg wet	670	10000		87	40-140	9	25
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*16.5*		µg/kg wet		*13.3*		*124*	*30-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121397 - SW846 3550B										
LCS Dup (8121397-BSD2)										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*17.7*		µg/kg wet		*13.3*		*133*	*30-150*		
Duplicate (8121397-DUP1) **Source: SA88675-05**										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
2,4,5-T	BRL		µg/kg dry	6.70		BRL				30
2,4,5-T [2C]	BRL		µg/kg dry	6.70		BRL				30
2,4,5-TP (Silvex)	BRL		µg/kg dry	6.70		BRL				30
2,4,5-TP (Silvex) [2C]	BRL		µg/kg dry	6.70		BRL				30
2,4-D	BRL		µg/kg dry	6.70		BRL				30
2,4-D [2C]	BRL		µg/kg dry	6.70		BRL				30
2,4-DB	BRL		µg/kg dry	6.70		BRL				30
2,4-DB [2C]	BRL		µg/kg dry	6.70		BRL				30
Dalapon	BRL		µg/kg dry	6.70		BRL				30
Dalapon [2C]	BRL		µg/kg dry	6.70		BRL				30
Dicamba	BRL		µg/kg dry	6.70		BRL				30
Dicamba [2C]	BRL		µg/kg dry	6.70		BRL				30
Dichlorprop	BRL		µg/kg dry	6.70		BRL				30
Dichlorprop [2C]	BRL		µg/kg dry	6.70		BRL				30
Dinoseb	BRL		µg/kg dry	6.70		BRL				30
Dinoseb [2C]	BRL		µg/kg dry	6.70		BRL				30
MCPA	BRL		µg/kg dry	670		BRL				30
MCPA [2C]	BRL		µg/kg dry	670		BRL				30
MCPB	BRL		µg/kg dry	670		BRL				30
MCPB [2C]	BRL		µg/kg dry	670		BRL				30
MCPP	BRL		µg/kg dry	670		BRL				30
MCPP [2C]	BRL		µg/kg dry	670		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*12.8*		µg/kg dry		*15.1*		*85*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*11.6*		µg/kg dry		*15.1*		*77*	*30-150*		
Batch 8121501 - SW846 3550B										
Blank (8121501-BLK1)										
Prepared: 18-Dec-08 Analyzed: 19-Dec-08										
PCB 1016	BRL		µg/kg wet	20.0						
PCB 1221	BRL		µg/kg wet	20.0						
PCB 1232	BRL		µg/kg wet	20.0						
PCB 1242	BRL		µg/kg wet	20.0						
PCB 1248	BRL		µg/kg wet	20.0						
PCB 1254	BRL		µg/kg wet	20.0						
PCB 1260	BRL		µg/kg wet	20.0						
PCB 1262	BRL		µg/kg wet	20.0						
PCB 1268	BRL		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
LCS (8121501-BS1)										
Prepared: 18-Dec-08 Analyzed: 19-Dec-08										
PCB 1016	247		µg/kg wet	20.0	250		99	40-140		
PCB 1260	278		µg/kg wet	20.0	250		111	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*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 8121501 - SW846 3550B										
LCS Dup (8121501-BSD1)										
Prepared: 18-Dec-08 Analyzed: 19-Dec-08										
PCB 1016	233		µg/kg wet	20.0	250		93	40-140	6	30
PCB 1260	214		µg/kg wet	20.0	250		86	40-140	26	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.0*		µg/kg wet		*20.0*		*75*	*30-150*		
Duplicate (8121501-DUP1) **Source: SA88676-05**										
Prepared: 18-Dec-08 Analyzed: 19-Dec-08										
PCB 1016	BRL		µg/kg dry	25.2		BRL				40
PCB 1221	BRL		µg/kg dry	25.2		BRL				40
PCB 1232	BRL		µg/kg dry	25.2		BRL				40
PCB 1242	BRL		µg/kg dry	25.2		BRL				40
PCB 1248	BRL		µg/kg dry	25.2		BRL				40
PCB 1254	BRL		µg/kg dry	25.2		BRL				40
PCB 1260	BRL		µg/kg dry	25.2		BRL				40
PCB 1262	BRL		µg/kg dry	25.2		BRL				40
PCB 1268	BRL		µg/kg dry	25.2		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*25.2*		µg/kg dry		*25.2*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*29.0*		µg/kg dry		*25.2*		*115*	*30-150*		
Matrix Spike (8121501-MS1) **Source: SA88676-05**										
Prepared: 18-Dec-08 Analyzed: 19-Dec-08										
PCB 1016	318		µg/kg dry	25.3	315	BRL	101	40-140		
PCB 1260	323		µg/kg dry	25.3	315	BRL	102	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*26.5*		µg/kg dry		*25.2*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg dry		*25.2*		*95*	*30-150*		
Matrix Spike Dup (8121501-MSD1) **Source: SA88676-05**										
Prepared: 18-Dec-08 Analyzed: 19-Dec-08										
PCB 1016	303		µg/kg dry	24.9	311	BRL	97	40-140	3	50
PCB 1260	297		µg/kg dry	24.9	311	BRL	96	40-140	7	50
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*24.9*		µg/kg dry		*24.9*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.1*		µg/kg dry		*24.9*		*85*	*30-150*		

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121075 - SW846 3510C										
Blank (8121075-BLK1)										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
Gasoline	BRL		mg/l	0.05						
Fuel Oil #2	BRL		mg/l	0.05						
Fuel Oil #4	BRL		mg/l	0.05						
Fuel Oil #6	BRL		mg/l	0.05						
Motor Oil	BRL		mg/l	0.05						
Aviation Fuel	BRL		mg/l	0.05						
Unidentified	BRL		mg/l	0.05						
Other Oil	BRL		mg/l	0.05						
Total Petroleum Hydrocarbons	BRL		mg/l	0.05						
C9-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.05						
Surrogate: 1-Chlorooctadecane	*0.0289*		mg/l		*0.0500*		*58*	*50-150*		
LCS (8121075-BS1)										
Prepared: 12-Dec-08 Analyzed: 16-Dec-08										
C9-C36 Aliphatic Hydrocarbons	1.5		mg/l	0.05	1.40		107	60-120		
Surrogate: 1-Chlorooctadecane	*0.0304*		mg/l		*0.0500*		*61*	*50-150*		
Matrix Spike (8121075-MS1) **Source: SA88658-07**										
Prepared: 12-Dec-08 Analyzed: 17-Dec-08										
C9-C36 Aliphatic Hydrocarbons	1.0		mg/l	0.05	1.47	BRL	71	50-150		
Surrogate: 1-Chlorooctadecane	*0.0274*		mg/l		*0.0526*		*52*	*50-150*		
Matrix Spike Dup (8121075-MSD1) **Source: SA88658-07**										
Prepared: 12-Dec-08 Analyzed: 17-Dec-08										
C9-C36 Aliphatic Hydrocarbons	1.0		mg/l	0.05	1.43	BRL	70	50-150	2	30
Surrogate: 1-Chlorooctadecane	*0.0262*		mg/l		*0.0510*		*51*	*50-150*		
Batch 8121322 - SW846 3550B										
Blank (8121322-BLK1)										
Prepared: 16-Dec-08 Analyzed: 18-Dec-08										
Gasoline	BRL		mg/kg wet	13.3						
Fuel Oil #2	BRL		mg/kg wet	13.3						
Fuel Oil #4	BRL		mg/kg wet	13.3						
Fuel Oil #6	BRL		mg/kg wet	13.3						
Motor Oil	BRL		mg/kg wet	13.3						
Aviation Fuel	BRL		mg/kg wet	13.3						
Unidentified	BRL		mg/kg wet	13.3						
Other Oil	BRL		mg/kg wet	13.3						
Total Petroleum Hydrocarbons	BRL		mg/kg wet	13.3						
C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg wet	13.3						
Surrogate: 1-Chlorooctadecane	*3.28*		mg/kg wet		*3.33*		*99*	*50-150*		
LCS (8121322-BS1)										
Prepared: 16-Dec-08 Analyzed: 18-Dec-08										
C9-C36 Aliphatic Hydrocarbons	69.1		mg/kg wet	13.3	93.3		74	60-120		
Surrogate: 1-Chlorooctadecane	*2.42*		mg/kg wet		*3.33*		*72*	*50-150*		
Duplicate (8121322-DUP1) **Source: SA88675-05**										
Prepared: 16-Dec-08 Analyzed: 18-Dec-08										
Gasoline	BRL		mg/kg dry	15.4		BRL				50
Fuel Oil #2	BRL		mg/kg dry	15.4		BRL				50
Fuel Oil #4	BRL		mg/kg dry	15.4		BRL				50
Fuel Oil #6	BRL		mg/kg dry	15.4		BRL				50

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121322 - SW846 3550B										
Duplicate (8121322-DUP1) **Source: SA88675-05**										
Prepared: 16-Dec-08 Analyzed: 18-Dec-08										
Motor Oil	BRL		mg/kg dry	15.4		BRL				50
Aviation Fuel	BRL		mg/kg dry	15.4		BRL				50
Unidentified	BRL		mg/kg dry	15.4		BRL				50
Other Oil	BRL		mg/kg dry	15.4		BRL				50
Total Petroleum Hydrocarbons	BRL		mg/kg dry	15.4		BRL				50
C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	15.4		BRL				50
Surrogate: 1-Chlorooctadecane	*2.07*		mg/kg dry		*1.93*		*107*	*50-150*		
Matrix Spike (8121322-MS1) **Source: SA88675-05**										
Prepared: 16-Dec-08 Analyzed: 18-Dec-08										
C9-C36 Aliphatic Hydrocarbons	77.6		mg/kg dry	14.7	103	BRL	75	50-150		
Surrogate: 1-Chlorooctadecane	*2.69*		mg/kg dry		*3.69*		*73*	*50-150*		
Matrix Spike Dup (8121322-MSD1) **Source: SA88675-05**										
Prepared: 16-Dec-08 Analyzed: 18-Dec-08										
C9-C36 Aliphatic Hydrocarbons	76.3		mg/kg dry	15.3	108	BRL	71	50-150	6	30
Surrogate: 1-Chlorooctadecane	*2.59*		mg/kg dry		*3.84*		*67*	*50-150*		

Total 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 8121031 - SW846 3050B										
Blank (8121031-BLK1)										
Prepared: 18-Dec-08 Analyzed: 19-Dec-08										
Lead	BRL		mg/kg wet	1.44						
Selenium	BRL		mg/kg wet	1.44						
Chromium	BRL		mg/kg wet	0.963						
Silver	BRL		mg/kg wet	1.44						
Arsenic	BRL		mg/kg wet	1.44						
Cadmium	BRL		mg/kg wet	0.482						
Barium	BRL		mg/kg wet	0.963						
Duplicate (8121031-DUP1) **Source: SA88661-01**										
Prepared: 18-Dec-08 Analyzed: 19-Dec-08										
Lead	9.75		mg/kg dry	1.45		9.72			0.4	20
Selenium	BRL		mg/kg dry	1.45		BRL				20
Chromium	8.18		mg/kg dry	0.970		8.04			2	20
Cadmium	0.238	J	mg/kg dry	0.485		0.248			4	20
Arsenic	1.84	QR6	mg/kg dry	1.45		2.37			25	20
Silver	BRL		mg/kg dry	1.45		BRL				20
Barium	31.3		mg/kg dry	0.970		33.1			5	20
Matrix Spike (8121031-MS1) **Source: SA88661-02**										
Prepared: 18-Dec-08 Analyzed: 19-Dec-08										
Lead	123		mg/kg dry	1.40	117	17.6	91	75-125		
Selenium	122		mg/kg dry	1.40	117	BRL	105	75-125		
Chromium	128		mg/kg dry	0.935	117	8.45	102	75-125		
Arsenic	120		mg/kg dry	1.40	117	2.32	101	75-125		
Silver	111		mg/kg dry	1.40	117	BRL	95	75-125		
Cadmium	107		mg/kg dry	0.467	117	0.268	91	75-125		
Barium	160		mg/kg dry	0.935	117	39.2	104	75-125		
Matrix Spike Dup (8121031-MSD1) **Source: SA88661-02**										
Prepared: 18-Dec-08 Analyzed: 22-Dec-08										
Selenium	115		mg/kg dry	1.39	116	BRL	99	75-125	7	20
Lead	120		mg/kg dry	1.39	116	17.6	89	75-125	2	20
Arsenic	112		mg/kg dry	1.39	116	2.32	95	75-125	7	20
Silver	109		mg/kg dry	1.39	116	BRL	94	75-125	2	20
Chromium	125		mg/kg dry	0.930	116	8.45	100	75-125	2	20
Cadmium	106		mg/kg dry	0.465	116	0.268	91	75-125	0.6	20
Barium	153		mg/kg dry	0.930	116	39.2	98	75-125	5	20
Post Spike (8121031-PS1) **Source: SA88661-02**										
Prepared: 18-Dec-08 Analyzed: 22-Dec-08										
Selenium	124		mg/kg dry	1.41	117	BRL	106	80-120		
Lead	125		mg/kg dry	1.41	117	17.6	92	80-120		
Silver	114		mg/kg dry	1.41	117	BRL	97	80-120		
Arsenic	122		mg/kg dry	1.41	117	2.32	102	80-120		
Chromium	129		mg/kg dry	0.938	117	8.45	103	80-120		
Cadmium	111		mg/kg dry	0.469	117	0.268	95	80-120		
Barium	149		mg/kg dry	0.938	117	39.2	94	80-120		
Reference (8121031-SRM1)										
Prepared: 18-Dec-08 Analyzed: 19-Dec-08										
Lead	59.2		mg/kg wet	1.50	68.0		87	80.9-119.9		
Selenium	114		mg/kg wet	1.50	99.6		114	79.9-119.6		

Total 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 8121031 - SW846 3050B										
Reference (8121031-SRM1)										
Prepared: 18-Dec-08 Analyzed: 19-Dec-08										
Silver	27.3		mg/kg wet	1.50	31.2		87	66.2-133.7		
Cadmium	118		mg/kg wet	0.500	129		92	83.7-116.7		
Chromium	74.5		mg/kg wet	1.00	69.0		108	81.9-118.1		
Arsenic	59.2		mg/kg wet	1.50	61.5		96	82.9-117.1		
Barium	114		mg/kg wet	1.00	128		89	80.5-119.5		
Reference (8121031-SRM2)										
Prepared: 18-Dec-08 Analyzed: 22-Dec-08										
Selenium	119		mg/kg wet	1.50	103		115	79.9-119.6		
Lead	60.6		mg/kg wet	1.50	70.4		86	80.9-119.9		
Arsenic	65.6		mg/kg wet	1.50	63.6		103	82.9-117.1		
Cadmium	116		mg/kg wet	0.500	133		87	83.7-116.7		
Silver	31.0		mg/kg wet	1.50	32.3		96	66.2-133.7		
Chromium	74.4		mg/kg wet	1.00	71.4		104	81.9-118.1		
Barium	125		mg/kg wet	1.00	132		94	80.5-119.5		
Batch 8121032 - EPA200/SW7000 Series										
Blank (8121032-BLK1)										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Mercury	BRL		mg/kg wet	0.0283						
Duplicate (8121032-DUP1) **Source: SA88661-01**		QR6								
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Mercury	0.0713		mg/kg dry	0.0293		0.0577			21	20
Matrix Spike (8121032-MS1) **Source: SA88661-02**										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Mercury	0.530		mg/kg dry	0.0290	0.403	0.0870	110	75-125		
Matrix Spike Dup (8121032-MSD1) **Source: SA88661-02**										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Mercury	0.579		mg/kg dry	0.0306	0.424	0.0870	116	75-125	9	20
Post Spike (8121032-PS1) **Source: SA88661-02**										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Mercury	0.565	QC1	mg/kg dry	0.0284	0.394	0.0870	121	80-120		
Reference (8121032-SRM1)										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Mercury	2.03		mg/kg wet	0.0300	2.06		98	71.7-128		
Batch 8121130 - SW846 3005A										
Blank (8121130-BLK1)										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Selenium	BRL		mg/l	0.0150						
Lead	BRL		mg/l	0.0075						
Arsenic	BRL		mg/l	0.0040						
Silver	BRL		mg/l	0.0050						
Barium	BRL		mg/l	0.0050						
Chromium	BRL		mg/l	0.0050						
Cadmium	BRL		mg/l	0.0025						
LCS (8121130-BS1)										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										

Total 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 8121130 - SW846 3005A										
LCS (8121130-BS1)										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Lead	1.25		mg/l	0.0075	1.25		100	85-115		
Selenium	1.36		mg/l	0.0150	1.25		109	85-115		
Chromium	1.17		mg/l	0.0050	1.25		94	85-115		
Barium	1.17		mg/l	0.0050	1.25		93	85-115		
Arsenic	1.26		mg/l	0.0040	1.25		101	85-115		
Silver	1.17		mg/l	0.0050	1.25		94	85-115		
Cadmium	1.31		mg/l	0.0025	1.25		104	85-115		
LCS Dup (8121130-BSD1)										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Lead	1.25		mg/l	0.0075	1.25		100	85-115	0.1	20
Selenium	1.37		mg/l	0.0150	1.25		110	85-115	0.6	20
Barium	1.17		mg/l	0.0050	1.25		93	85-115	0	20
Chromium	1.17		mg/l	0.0050	1.25		93	85-115	0.4	20
Arsenic	1.26		mg/l	0.0040	1.25		101	85-115	0.2	20
Cadmium	1.30		mg/l	0.0025	1.25		104	85-115	0.2	20
Silver	1.17		mg/l	0.0050	1.25		94	85-115	0.3	20
Duplicate (8121130-DUP1) **Source: SA88665-04**										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Lead	0.0124		mg/l	0.0075		0.0134			9	20
Selenium	BRL		mg/l	0.0150		BRL				20
Silver	BRL		mg/l	0.0050		BRL				20
Chromium	0.0294		mg/l	0.0050		0.0308			5	20
Arsenic	0.0113		mg/l	0.0040		0.0124			9	20
Barium	0.333		mg/l	0.0050		0.331			0.6	20
Cadmium	BRL		mg/l	0.0025		BRL				20
Matrix Spike (8121130-MS1) **Source: SA88673-02**										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Selenium	1.36		mg/l	0.0150	1.25	BRL	109	75-125		
Lead	1.22		mg/l	0.0075	1.25	0.0143	97	75-125		
Arsenic	1.28		mg/l	0.0040	1.25	0.0092	101	75-125		
Silver	1.18		mg/l	0.0050	1.25	BRL	95	75-125		
Cadmium	1.27		mg/l	0.0025	1.25	0.0005	102	75-125		
Barium	1.32		mg/l	0.0050	1.25	0.145	94	75-125		
Chromium	1.19		mg/l	0.0050	1.25	0.0174	94	75-125		
Matrix Spike Dup (8121130-MSD1) **Source: SA88673-02**										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Lead	1.21		mg/l	0.0075	1.25	0.0143	95	75-125	2	20
Selenium	1.34		mg/l	0.0150	1.25	BRL	107	75-125	2	20
Cadmium	1.25		mg/l	0.0025	1.25	0.0005	100	75-125	2	20
Arsenic	1.26		mg/l	0.0040	1.25	0.0092	100	75-125	2	20
Silver	1.17		mg/l	0.0050	1.25	BRL	94	75-125	0.8	20
Chromium	1.19		mg/l	0.0050	1.25	0.0174	94	75-125	0.4	20
Barium	1.31		mg/l	0.0050	1.25	0.145	93	75-125	0.9	20
Post Spike (8121130-PS1) **Source: SA88673-02**										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Selenium	1.39		mg/l	0.0150	1.25	BRL	111	80-120		
Lead	1.24		mg/l	0.0075	1.25	0.0143	98	80-120		

Total 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 8121130 - SW846 3005A										
Post Spike (8121130-PS1) **Source: SA88673-02**										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Cadmium	1.28		mg/l	0.0025	1.25	0.0005	102	80-120		
Arsenic	1.30		mg/l	0.0040	1.25	0.0092	103	80-120		
Barium	1.32		mg/l	0.0050	1.25	0.145	94	80-120		
Silver	1.21		mg/l	0.0050	1.25	BRL	96	80-120		
Chromium	1.20		mg/l	0.0050	1.25	0.0174	95	80-120		

Total 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 8121131 - EPA200/SW7000 Series										
Blank (8121131-BLK1)										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Mercury	BRL		mg/l	0.00020						
LCS (8121131-BS1)										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Mercury	0.00451		mg/l	0.00020	0.00500		90	85-115		
Duplicate (8121131-DUP1) **Source: SA88665-04**										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Mercury	0.00004	J	mg/l	0.00020		BRL				20
Matrix Spike (8121131-MS1) **Source: SA88673-02**										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Mercury	0.00516		mg/l	0.00020	0.00500	BRL	103	75-125		
Matrix Spike Dup (8121131-MSD1) **Source: SA88673-02**										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Mercury	0.00522		mg/l	0.00020	0.00500	BRL	104	75-125	1	20
Post Spike (8121131-PS1) **Source: SA88673-02**										
Prepared: 17-Dec-08 Analyzed: 18-Dec-08										
Mercury	0.00513		mg/l	0.00020	0.00500	BRL	103	85-115		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8121006 - General Preparation										
Duplicate (8121006-DUP1) **Source: SA88663-03**										
Prepared & Analyzed: 11-Dec-08										
% Solids	85.2		%			85.8			0.7	20

Notes and Definitions

QC1	Analyte out of acceptance range.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR5	RPD out of acceptance range.
QR6	The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.
R02	Elevated Reporting Limits due to limited sample volume.
SGC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
Z-2	The response for the confirmation column was out of acceptance limits. The primary column was used for all data. Samples were BDL.
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
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

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

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.
Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 - includes #4 fuel oil
Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
Motor Oil - includes virgin and waste automobile oil
Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel - includes kerosene, Jet A and JP-4
Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as *TPH (Calculated as).

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.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Leja

CHAIN OF CUSTODY RECORD

Page 1 of 1

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Report Date:
02-Feb-09 16:49

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Tetra Tech Rizzo
150 Trumbull Street, 4th Floor
Hartford, CT 06103-2428
Attn: Joseph Perko

Project: Conn Dot Flatbush Ave-Hartford, CT
Project 12701186

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA89692-01	RSB-1 (3-6')	Soil	09-Jan-09 08:30	12-Jan-09 13:00
SA89692-02	RSB-1 (GW)	Ground Water	09-Jan-09 08:45	12-Jan-09 13:00
SA89692-03	RSB-8 (1-4')	Soil	09-Jan-09 09:20	12-Jan-09 13:00
SA89692-04	RSB-20 (2-4')	Soil	09-Jan-09 09:40	12-Jan-09 13:00
SA89692-05	RSB-7 (2-6')	Soil	09-Jan-09 10:00	12-Jan-09 13:00
SA89692-06	RSB-7 (GW)	Ground Water	09-Jan-09 10:45	12-Jan-09 13:00
SA89692-07	Trip Blank	Aqueous	09-Jan-09 10:50	12-Jan-09 13:00

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
Vermont # VT-11393

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

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 62 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supercedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report is available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

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CASE NARRATIVE:

The samples were received 5.7 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.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "BRL" (Below the Reporting Limit) in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

According to CTDEP RCP Quality Assurance and Quality Control Requirements for VOCs by method 8260, SW-846 version 1, 7/28/05 Table 1A, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended 70%-130% recovery range, a range has been set based on historical control limits.

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

SW846 1312/6010B

Duplicates:

9011791-DUP1 *Source: SA89834-02*

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.

Barium
Lead

SW846 6010B

SW846 6010B

Spikes:

9010634-MS1 *Source: SA89727-02*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Barium
Lead

The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery

Silver

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 or SRM recoveries within the control limits.

Chromium

9010634-MSD1 *Source: SA89727-02*

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Chromium

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Barium
Lead

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for batch duplicate.

Silver

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 or SRM recoveries within the control limits.

Chromium

9010634-PS1 *Source: SA89727-02*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Barium
Lead

Duplicates:

9010634-DUP1 *Source: SA89692-03*

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Barium
Chromium

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.

Lead

SW846 7471A

SW846 7471A

Spikes:

9010635-MSD1 *Source: SA89727-02*

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for batch duplicate.

Mercury

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 or SRM recoveries within the control limits.

Mercury

SW846 8151A

Samples:

SA89692-06 *RSB-7 (GW)*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

4,4-DB-Octafluorobiphenyl (Sr)

SW846 8260B

SW846 8260B

Laboratory Control Samples:

9010690-BSD1

Analyte out of acceptance range.

Chloromethane

RPD out of acceptance range.

Chloromethane

The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

Acrylonitrile
Ethanol
Tert-Butanol / butyl alcohol
Vinyl chloride

9010800-BS1

Analyte out of acceptance range.

1,1-Dichloroethane

9010800-BSD1

Analyte out of acceptance range.

1,1,2-Trichlorotrifluoroethane (Freon 113)
1,1-Dichloroethene
Acrylonitrile
Methylene chloride
Tert-Butanol / butyl alcohol

RPD out of acceptance range.

1,1,2-Trichlorotrifluoroethane (Freon 113)
1,1-Dichloroethane
1,1-Dichloroethene
Acrylonitrile
Methylene chloride
Tert-Butanol / butyl alcohol

The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

2-Butanone (MEK)
Carbon disulfide

SW846 8260B

Spikes:

9010800-MS1 *Source: SA89692-02*

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

1,1-Dichloroethene
Benzene

9010800-MSD1 *Source: SA89692-02*

RPD out of acceptance range.

1,1-Dichloroethene

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

1,1-Dichloroethene
Benzene

Samples:

SA89692-01 *RSB-1 (3-6')*

The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.

SA89692-03 *RSB-8 (1-4')*

The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.

SA89692-04 *RSB-20 (2-4')*

The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-1 (3-6') SA89692-01	12701186	Soil	09-Jan-09 08:30	12-Jan-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	12-Jan-09	12-Jan-09	9010650	
Volatile Organic Compounds			VC10			Initial weight: 6.53 g					
Prepared by method SW846 5035A Soil (low level)											
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	7.6	1	SW846 8260B	13-Jan-09	13-Jan-09	9010690	X
67-64-1	Acetone	BRL		µg/kg dry	75.7	1	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/kg dry	7.6	1	"	"	"	"	X
71-43-2	Benzene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
74-97-5	Bromochloromethane	BRL		µg/kg dry	7.6	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/kg dry	7.6	1	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/kg dry	7.6	1	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/kg dry	15.1	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	75.7	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/kg dry	37.8	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	7.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/kg dry	15.1	1	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg dry	7.6	1	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg dry	15.1	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	15.1	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/kg dry	7.6	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	7.6	1	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/kg dry	7.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	15.1	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	7.6	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	7.6	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	7.6	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	7.6	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	7.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	75.7	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	7.6	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	75.7	1	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg dry	75.7	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	7.6	1	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-1 (3-6') SA89692-01	12701186	Soil	09-Jan-09 08:30	12-Jan-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
Volatile Organic Compounds			VC10								
Prepared by method SW846 5035A Soil (low level)					Initial weight: 6.53 g						
103-65-1	n-Propylbenzene	BRL		µg/kg dry	7.6	1	SW846 8260B	13-Jan-09	13-Jan-09	9010690	X
100-42-5	Styrene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	7.6	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	7.6	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	7.6	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	7.6	1	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	7.6	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	7.6	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/kg dry	7.6	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	15.1	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	7.6	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	75.7	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	7.6	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	7.6	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	7.6	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	7.6	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	75.7	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg dry	151	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	37.8	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/kg dry	3030	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*89*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*93*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*118*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*103*		*70-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
PAHs by SW846 8270C											
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	189	1	SW846 8270C	13-Jan-09	18-Jan-09	9010669	X
208-96-8	Acenaphthylene	BRL		µg/kg dry	189	1	"	"	"	"	X
120-12-7	Anthracene	BRL		µg/kg dry	189	1	"	"	"	"	X
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	189	1	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	189	1	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	189	1	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	189	1	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	189	1	"	"	"	"	X
218-01-9	Chrysene	BRL		µg/kg dry	189	1	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	189	1	"	"	"	"	X
206-44-0	Fluoranthene	BRL		µg/kg dry	189	1	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/kg dry	189	1	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	189	1	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	189	1	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-1 (3-6') SA89692-01	12701186	Soil	09-Jan-09 08:30	12-Jan-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Semivolatile Organic Compounds by GCMS											
PAHs by SW846 8270C											
Prepared by method SW846 3550B											
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	189	1	SW846 8270C	13-Jan-09	18-Jan-09	9010669	X
91-20-3	Naphthalene	BRL		µg/kg dry	189	1	"	"	"	"	X
85-01-8	Phenanthrene	BRL		µg/kg dry	189	1	"	"	"	"	X
129-00-0	Pyrene	BRL		µg/kg dry	189	1	"	"	"	"	X
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*72*		*30-130 %*			"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*65*		*30-130 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	37.7	1	+CT ETPH	13-Jan-09	14-Jan-09	9010672	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	37.7	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	37.7	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	37.7	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	37.7	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	37.7	1	"	"	"	"	
	Unidentified	BRL		mg/kg dry	37.7	1	"	"	"	"	
	Other Oil	BRL		mg/kg dry	37.7	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	37.7	1	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	37.7	1	"	"	"	"	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*91*		*50-150 %*			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.95	1	SW846 6010B	15-Jan-09	16-Jan-09	9010634	X
7440-38-2	Arsenic	BRL		mg/kg dry	1.95	1	"	"	"	"	X
7440-39-3	Barium	61.6		mg/kg dry	1.30	1	"	"	"	"	X
7440-43-9	Cadmium	BRL		mg/kg dry	0.649	1	"	"	"	"	X
7440-47-3	Chromium	13.4		mg/kg dry	1.30	1	"	"	"	"	X
7439-97-6	Mercury	BRL		mg/kg dry	0.0389	1	SW846 7471A	13-Jan-09	16-Jan-09	9010635	X
7439-92-1	Lead	5.71		mg/kg dry	1.95	1	SW846 6010B	15-Jan-09	16-Jan-09	9010634	X
7782-49-2	Selenium	2.87		mg/kg dry	1.95	1	"	"	"	"	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods											
	SPLP Extraction	Completed		N/A		1	SW846 1312	27-Jan-09	27-Jan-09	9011729	
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1312/6010B	29-Jan-09	29-Jan-09	9011791	
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	
7440-39-3	Barium	BRL		mg/l	0.0100	1	"	"	"	"	
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1312/7470A	28-Jan-09	30-Jan-09	9011792	
7439-92-1	Lead	BRL		mg/l	0.0150	1	SW846 1312/6010B	29-Jan-09	29-Jan-09	9011791	
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	
General Chemistry Parameters											
	% Solids	70.3		%		1	SM2540 G Mod.	14-Jan-09	14-Jan-09	9010819	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-1 (GW) SA89692-02	12701186	Ground Water	09-Jan-09 08:45	12-Jan-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5030 Water MS											
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	1.0	1	SW846 8260B	14-Jan-09	14-Jan-09	9010800	X
67-64-1	Acetone	BRL		µg/l	10.0	1	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/l	0.5	1	"	"	"	"	X
71-43-2	Benzene	BRL		µg/l	1.0	1	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/l	1.0	1	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/l	1.0	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/l	0.5	1	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/l	1.0	1	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/l	2.0	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/l	10.0	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/l	5.0	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/l	1.0	1	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/l	2.0	1	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/l	1.0	1	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/l	2.0	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/l	1.0	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/l	1.0	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/l	0.5	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/l	10.0	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0	1	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/l	5.0	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-1 (GW) SA89692-02	12701186	Ground Water	09-Jan-09 08:45	12-Jan-09

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5030 Water MS											
100-42-5	Styrene	BRL		µg/l	1.0	1	SW846 8260B	14-Jan-09	14-Jan-09	9010800	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/l	1.0	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/l	10.0	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/l	1.0	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	10.0	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/l	20.0	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0	1	"	"	"	"	X
64-17-5	Ethanol	BRL		µg/l	400	1	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*99*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*98*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*101*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*104*		*70-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
SVOCs by SW846 8270C SIM											
Prepared by method SW846 3510C											
83-32-9	Acenaphthene	0.078		µg/l	0.050	1	SW846 8270C/EPA 625 SIM	13-Jan-09	20-Jan-09	9010681	X
208-96-8	Acenaphthylene	0.244		µg/l	0.050	1	"	"	"	"	X
90-12-0	1-Methylnaphthalene	0.256		µg/l	0.050	1	"	"	"	"	
120-12-7	Anthracene	0.167		µg/l	0.050	1	"	"	"	"	X
56-55-3	Benzo (a) anthracene	0.167		µg/l	0.050	1	"	"	"	"	X
50-32-8	Benzo (a) pyrene	0.356		µg/l	0.050	1	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	0.344		µg/l	0.050	1	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	0.467		µg/l	0.050	1	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	0.300		µg/l	0.050	1	"	"	"	"	X
218-01-9	Chrysene	0.133		µg/l	0.050	1	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	0.111		µg/l	0.050	1	"	"	"	"	X
206-44-0	Fluoranthene	0.200		µg/l	0.050	1	"	"	"	"	X
86-73-7	Fluorene	0.078		µg/l	0.050	1	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	0.311		µg/l	0.050	1	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-1 (GW) SA89692-02	12701186	Ground Water	09-Jan-09 08:45	12-Jan-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Semivolatile Organic Compounds by GCMS											
SVOCs by SW846 8270C SIM											
Prepared by method SW846 3510C											
91-57-6	2-Methylnaphthalene	0.333		µg/l	0.050	1	SW846 8270C/EPA 625 SIM	13-Jan-09	20-Jan-09	9010681	
91-20-3	Naphthalene	1.74		µg/l	0.050	1	"	"	"	"	X
85-01-8	Phenanthrene	0.222		µg/l	0.050	1	"	"	"	"	X
129-00-0	Pyrene	0.289		µg/l	0.050	1	"	"	"	"	X
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*59*		*30-130 %*			"	"	"	"	
1718-51-0	*Terphenyl-d14*	*113*		*30-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3510C											
12674-11-2	PCB 1016	BRL		µg/l	0.235	1	SW846 8082	13-Jan-09	13-Jan-09	9010680	X
11104-28-2	PCB 1221	BRL		µg/l	0.235	1	"	"	"	"	X
11141-16-5	PCB 1232	BRL		µg/l	0.235	1	"	"	"	"	X
53469-21-9	PCB 1242	BRL		µg/l	0.235	1	"	"	"	"	X
12672-29-6	PCB 1248	BRL		µg/l	0.235	1	"	"	"	"	X
11097-69-1	PCB 1254	BRL		µg/l	0.235	1	"	"	"	"	X
11096-82-5	PCB 1260	BRL		µg/l	0.235	1	"	"	"	"	X
37324-23-5	PCB 1262	BRL		µg/l	0.235	1	"	"	"	"	X
11100-14-4	PCB 1268	BRL		µg/l	0.235	1	"	"	"	"	X
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*72*		*30-150 %*			"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*76*		*30-150 %*			"	"	"	"	
Chlorinated Herbicides by SW846 8151A											
Prepared by method SW846 3510C											
93-76-5	2,4,5-T	BRL		µg/l	0.100	1	SW846 8151A	15-Jan-09	16-Jan-09	9010876	X
93-72-1	2,4,5-TP (Silvex)	BRL		µg/l	0.100	1	"	"	"	"	X
94-75-7	2,4-D	BRL		µg/l	0.100	1	"	"	"	"	X
94-82-6	2,4-DB	BRL		µg/l	0.100	1	"	"	"	"	X
75-99-0	Dalapon	BRL		µg/l	0.100	1	"	"	"	"	X
1918-00-9	Dicamba	BRL		µg/l	0.100	1	"	"	"	"	X
120-36-5	Dichlorprop	BRL		µg/l	0.100	1	"	"	"	"	X
88-85-7	Dinoseb	BRL		µg/l	0.100	1	"	"	"	"	X
94-74-6	MCPA	BRL		µg/l	1.50	1	"	"	"	"	
94-81-5	MCPB	BRL		µg/l	1.50	1	"	"	"	"	
93-65-2	MCPP	BRL		µg/l	1.50	1	"	"	"	"	
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*67*		*30-150 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3510C											
8006-61-9	Gasoline	BRL		mg/l	0.1	1	+CT ETPH	13-Jan-09	14-Jan-09	9010682	
68476-30-2	Fuel Oil #2	BRL		mg/l	0.1	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/l	0.1	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/l	0.1	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/l	0.1	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/l	0.1	1	"	"	"	"	
	Unidentified	BRL		mg/l	0.1	1	"	"	"	"	
	Other Oil	BRL		mg/l	0.1	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/l	0.1	1	"	"	"	"	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-1 (GW) SA89692-02	12701186	Ground Water	09-Jan-09 08:45	12-Jan-09

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3510C											
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.1	1	+CT ETPH	13-Jan-09	14-Jan-09	9010682	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*79*		*50-150 %*			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/l	0.0050	1	SW846 6010B	13-Jan-09	15-Jan-09	9010733	X
7440-38-2	Arsenic	BRL		mg/l	0.0040	1	"	"	"	"	X
7440-39-3	Barium	0.0508		mg/l	0.0050	1	"	"	"	"	X
7440-43-9	Cadmium	BRL		mg/l	0.0025	1	"	"	"	"	X
7440-47-3	Chromium	0.0112		mg/l	0.0050	1	"	"	"	"	X
7439-92-1	Lead	0.0202		mg/l	0.0075	1	"	"	"	"	X
7782-49-2	Selenium	BRL		mg/l	0.0150	1	"	"	"	"	X
Total Metals by EPA 200 Series Methods											
7439-97-6	Mercury	BRL		mg/l	0.00020	1	EPA 245.1/7470A	13-Jan-09	16-Jan-09	9010734	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-8 (1-4')	12701186	Soil	09-Jan-09 09:20	12-Jan-09
SA89692-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	12-Jan-09	12-Jan-09	9010650	
Volatile Organic Compounds			VC10								
Prepared by method SW846 5035A Soil (low level)					Initial weight: 6.37 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	6.4	1	SW846 8260B	13-Jan-09	13-Jan-09	9010690	X
67-64-1	Acetone	BRL		µg/kg dry	64.4	1	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/kg dry	6.4	1	"	"	"	"	X
71-43-2	Benzene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
74-97-5	Bromochloromethane	BRL		µg/kg dry	6.4	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/kg dry	6.4	1	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/kg dry	6.4	1	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/kg dry	12.9	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	64.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/kg dry	32.2	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	6.4	1	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/kg dry	12.9	1	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg dry	6.4	1	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg dry	12.9	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	12.9	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/kg dry	6.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	6.4	1	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/kg dry	6.4	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	12.9	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	6.4	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	6.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	6.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	6.4	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	6.4	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	64.4	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	6.4	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	64.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg dry	64.4	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	6.4	1	"	"	"	"	X

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-8 (1-4') SA89692-03	12701186	Soil	09-Jan-09 09:20	12-Jan-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
Volatile Organic Compounds			VC10								
Prepared by method SW846 5035A Soil (low level)					Initial weight: 6.37 g						
103-65-1	n-Propylbenzene	BRL		µg/kg dry	6.4	1	SW846 8260B	13-Jan-09	13-Jan-09	9010690	X
100-42-5	Styrene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	6.4	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	6.4	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	6.4	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	6.4	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	6.4	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	6.4	1	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	6.4	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	6.4	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/kg dry	6.4	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	12.9	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	64.4	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	6.4	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	6.4	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	6.4	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	6.4	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	64.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg dry	129	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	32.2	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/kg dry	2580	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*86*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*93*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*120*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*		*70-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
PAHs by SW846 8270C											
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	164	1	SW846 8270C	13-Jan-09	18-Jan-09	9010669	X
208-96-8	Acenaphthylene	BRL		µg/kg dry	164	1	"	"	"	"	X
120-12-7	Anthracene	BRL		µg/kg dry	164	1	"	"	"	"	X
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	164	1	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	164	1	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	164	1	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	164	1	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	164	1	"	"	"	"	X
218-01-9	Chrysene	BRL		µg/kg dry	164	1	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	164	1	"	"	"	"	X
206-44-0	Fluoranthene	BRL		µg/kg dry	164	1	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/kg dry	164	1	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	164	1	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	164	1	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-8 (1-4')	12701186	Soil	09-Jan-09 09:20	12-Jan-09
SA89692-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Semivolatile Organic Compounds by GCMS											
PAHs by SW846 8270C											
Prepared by method SW846 3550B											
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	164	1	SW846 8270C	13-Jan-09	18-Jan-09	9010669	X
91-20-3	Naphthalene	BRL		µg/kg dry	164	1	"	"	"	"	X
85-01-8	Phenanthrene	BRL		µg/kg dry	164	1	"	"	"	"	X
129-00-0	Pyrene	BRL		µg/kg dry	164	1	"	"	"	"	X
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*68*		*30-130 %*			"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*63*		*30-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	25.5	1	SW846 8082	13-Jan-09	13-Jan-09	9010678	X
11104-28-2	PCB 1221	BRL		µg/kg dry	25.5	1	"	"	"	"	X
11141-16-5	PCB 1232	BRL		µg/kg dry	25.5	1	"	"	"	"	X
53469-21-9	PCB 1242	BRL		µg/kg dry	25.5	1	"	"	"	"	X
12672-29-6	PCB 1248	BRL		µg/kg dry	25.5	1	"	"	"	"	X
11097-69-1	PCB 1254	BRL		µg/kg dry	25.5	1	"	"	"	"	X
11096-82-5	PCB 1260	BRL		µg/kg dry	25.5	1	"	"	"	"	X
37324-23-5	PCB 1262	BRL		µg/kg dry	25.5	1	"	"	"	"	X
11100-14-4	PCB 1268	BRL		µg/kg dry	25.5	1	"	"	"	"	X
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*102*		*30-150 %*			"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*102*		*30-150 %*			"	"	"	"	
Chlorinated Herbicides by SW846 8151A											
Prepared by method SW846 3550B											
93-76-5	2,4,5-T	BRL		µg/kg dry	6.70	1	SW846 8151A	14-Jan-09	15-Jan-09	9010811	X
93-72-1	2,4,5-TP (Silvex)	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-75-7	2,4-D	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-82-6	2,4-DB	BRL		µg/kg dry	6.70	1	"	"	"	"	X
75-99-0	Dalapon	BRL		µg/kg dry	6.70	1	"	"	"	"	X
1918-00-9	Dicamba	BRL		µg/kg dry	6.70	1	"	"	"	"	X
120-36-5	Dichlorprop	BRL		µg/kg dry	6.70	1	"	"	"	"	X
88-85-7	Dinoseb	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-74-6	MCPA	BRL		µg/kg dry	670	1	"	"	"	"	X
94-81-5	MCPB	BRL		µg/kg dry	670	1	"	"	"	"	
93-65-2	MCPP	BRL		µg/kg dry	670	1	"	"	"	"	X
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*84*		*30-150 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	32.8	1	+CT ETPH	13-Jan-09	14-Jan-09	9010672	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	32.8	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	32.8	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	32.8	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	32.8	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	32.8	1	"	"	"	"	
	Unidentified	BRL		mg/kg dry	32.8	1	"	"	"	"	
	Other Oil	BRL		mg/kg dry	32.8	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	32.8	1	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-8 (1-4') SA89692-03	12701186	Soil	09-Jan-09 09:20	12-Jan-09

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	32.8	1	+CT ETPH	13-Jan-09	14-Jan-09	9010672	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*77*		*50-150 %*			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.87	1	SW846 6010B	15-Jan-09	16-Jan-09	9010634	X
7440-38-2	Arsenic	6.15		mg/kg dry	1.87	1	"	"	"	"	X
7440-39-3	Barium	36.1		mg/kg dry	1.25	1	"	"	"	"	X
7440-43-9	Cadmium	BRL		mg/kg dry	0.624	1	"	"	"	"	X
7440-47-3	Chromium	9.30		mg/kg dry	1.25	1	"	"	"	"	X
7439-97-6	Mercury	BRL		mg/kg dry	0.0358	1	SW846 7471A	13-Jan-09	16-Jan-09	9010635	X
7439-92-1	Lead	13.8		mg/kg dry	1.87	1	SW846 6010B	15-Jan-09	16-Jan-09	9010634	X
7782-49-2	Selenium	BRL		mg/kg dry	1.87	1	"	"	"	"	X
General Chemistry Parameters											
	% Solids	78.0		%		1	SM2540 G Mod.	14-Jan-09	14-Jan-09	9010819	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-20 (2-4')	12701186	Soil	09-Jan-09 09:40	12-Jan-09
SA89692-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	12-Jan-09	12-Jan-09	9010650	
Volatile Organic Compounds			VC10								
Prepared by method SW846 5035A Soil (low level)					Initial weight: 6.26 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	6.9	1	SW846 8260B	13-Jan-09	13-Jan-09	9010690	X
67-64-1	Acetone	BRL		µg/kg dry	69.4	1	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/kg dry	6.9	1	"	"	"	"	X
71-43-2	Benzene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
74-97-5	Bromochloromethane	BRL		µg/kg dry	6.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/kg dry	6.9	1	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/kg dry	6.9	1	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/kg dry	13.9	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	69.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/kg dry	34.7	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	6.9	1	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/kg dry	13.9	1	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg dry	6.9	1	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg dry	13.9	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	13.9	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/kg dry	6.9	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	6.9	1	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/kg dry	6.9	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	13.9	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	6.9	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	6.9	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	6.9	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	6.9	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	6.9	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	69.4	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	6.9	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	69.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg dry	69.4	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	6.9	1	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-20 (2-4') SA89692-04	12701186	Soil	09-Jan-09 09:40	12-Jan-09

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Volatile Organic Compounds											
Volatile Organic Compounds			VC10								
Prepared by method SW846 5035A Soil (low level)						Initial weight: 6.26 g					
103-65-1	n-Propylbenzene	BRL		µg/kg dry	6.9	1	SW846 8260B	13-Jan-09	13-Jan-09	9010690	X
100-42-5	Styrene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	6.9	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	6.9	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	6.9	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	6.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	6.9	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	6.9	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/kg dry	6.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	13.9	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	6.9	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	69.4	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	6.9	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	6.9	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	6.9	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	6.9	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	69.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg dry	139	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	34.7	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/kg dry	2770	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*87*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*91*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*117*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*104*		*70-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
PAHs by SW846 8270C											
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	174	1	SW846 8270C	13-Jan-09	18-Jan-09	9010669	X
208-96-8	Acenaphthylene	BRL		µg/kg dry	174	1	"	"	"	"	X
120-12-7	Anthracene	BRL		µg/kg dry	174	1	"	"	"	"	X
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	174	1	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	174	1	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	174	1	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	174	1	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	174	1	"	"	"	"	X
218-01-9	Chrysene	BRL		µg/kg dry	174	1	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	174	1	"	"	"	"	X
206-44-0	Fluoranthene	BRL		µg/kg dry	174	1	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/kg dry	174	1	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	174	1	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	174	1	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-20 (2-4')	12701186	Soil	09-Jan-09 09:40	12-Jan-09
SA89692-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Semivolatile Organic Compounds by GCMS											
PAHs by SW846 8270C											
Prepared by method SW846 3550B											
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	174	1	SW846 8270C	13-Jan-09	18-Jan-09	9010669	X
91-20-3	Naphthalene	BRL		µg/kg dry	174	1	"	"	"	"	X
85-01-8	Phenanthrene	BRL		µg/kg dry	174	1	"	"	"	"	X
129-00-0	Pyrene	BRL		µg/kg dry	174	1	"	"	"	"	X
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*65*		*30-130 %*			"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*62*		*30-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	26.1	1	SW846 8082	13-Jan-09	13-Jan-09	9010678	X
11104-28-2	PCB 1221	BRL		µg/kg dry	26.1	1	"	"	"	"	X
11141-16-5	PCB 1232	BRL		µg/kg dry	26.1	1	"	"	"	"	X
53469-21-9	PCB 1242	BRL		µg/kg dry	26.1	1	"	"	"	"	X
12672-29-6	PCB 1248	BRL		µg/kg dry	26.1	1	"	"	"	"	X
11097-69-1	PCB 1254	BRL		µg/kg dry	26.1	1	"	"	"	"	X
11096-82-5	PCB 1260	BRL		µg/kg dry	26.1	1	"	"	"	"	X
37324-23-5	PCB 1262	BRL		µg/kg dry	26.1	1	"	"	"	"	X
11100-14-4	PCB 1268	BRL		µg/kg dry	26.1	1	"	"	"	"	X
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*106*		*30-150 %*			"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*102*		*30-150 %*			"	"	"	"	
Chlorinated Herbicides by SW846 8151A											
Prepared by method SW846 3550B											
93-76-5	2,4,5-T	BRL		µg/kg dry	6.70	1	SW846 8151A	14-Jan-09	15-Jan-09	9010811	X
93-72-1	2,4,5-TP (Silvex)	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-75-7	2,4-D	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-82-6	2,4-DB	BRL		µg/kg dry	6.70	1	"	"	"	"	X
75-99-0	Dalapon	BRL		µg/kg dry	6.70	1	"	"	"	"	X
1918-00-9	Dicamba	BRL		µg/kg dry	6.70	1	"	"	"	"	X
120-36-5	Dichlorprop	BRL		µg/kg dry	6.70	1	"	"	"	"	X
88-85-7	Dinoseb	BRL		µg/kg dry	6.70	1	"	"	"	"	X
94-74-6	MCPA	BRL		µg/kg dry	670	1	"	"	"	"	X
94-81-5	MCPB	BRL		µg/kg dry	670	1	"	"	"	"	
93-65-2	MCPP	BRL		µg/kg dry	670	1	"	"	"	"	X
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*99*		*30-150 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	34.8	1	+CT ETPH	13-Jan-09	14-Jan-09	9010672	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	34.8	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	34.8	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	34.8	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	34.8	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	34.8	1	"	"	"	"	
	Unidentified	BRL		mg/kg dry	34.8	1	"	"	"	"	
	Other Oil	BRL		mg/kg dry	34.8	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	34.8	1	"	"	"	"	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-20 (2-4') SA89692-04	12701186	Soil	09-Jan-09 09:40	12-Jan-09

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	34.8	1	+CT ETPH	13-Jan-09	14-Jan-09	9010672	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*73*		*50-150 %*			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.83	1	SW846 6010B	15-Jan-09	16-Jan-09	9010634	X
7440-38-2	Arsenic	1.86		mg/kg dry	1.83	1	"	"	"	"	X
7440-39-3	Barium	68.2		mg/kg dry	1.22	1	"	"	"	"	X
7440-43-9	Cadmium	BRL		mg/kg dry	0.610	1	"	"	"	"	X
7440-47-3	Chromium	17.5		mg/kg dry	1.22	1	"	"	"	"	X
7439-97-6	Mercury	BRL		mg/kg dry	0.0366	1	SW846 7471A	13-Jan-09	16-Jan-09	9010635	X
7439-92-1	Lead	4.78		mg/kg dry	1.83	1	SW846 6010B	15-Jan-09	16-Jan-09	9010634	X
7782-49-2	Selenium	3.00		mg/kg dry	1.83	1	"	"	"	"	X
General Chemistry Parameters											
	% Solids	75.3		%		1	SM2540 G Mod.	14-Jan-09	14-Jan-09	9010819	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-7 (2-6') SA89692-05	12701186	Soil	09-Jan-09 10:00	12-Jan-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	12-Jan-09	12-Jan-09	9010650	
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 6.01 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	7.3	1	SW846 8260B	13-Jan-09	13-Jan-09	9010690	X
67-64-1	Acetone	BRL		µg/kg dry	73.1	1	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/kg dry	7.3	1	"	"	"	"	X
71-43-2	Benzene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
74-97-5	Bromochloromethane	BRL		µg/kg dry	7.3	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/kg dry	7.3	1	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/kg dry	7.3	1	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/kg dry	14.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	73.1	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/kg dry	36.6	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	7.3	1	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/kg dry	14.6	1	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg dry	7.3	1	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg dry	14.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	14.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/kg dry	7.3	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	7.3	1	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/kg dry	7.3	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	14.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	7.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	7.3	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	7.3	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	7.3	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	7.3	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	73.1	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	7.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	73.1	1	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg dry	73.1	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	7.3	1	"	"	"	"	X

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-7 (2-6') SA89692-05	12701186	Soil	09-Jan-09 10:00	12-Jan-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 6.01 g						
103-65-1	n-Propylbenzene	BRL		µg/kg dry	7.3	1	SW846 8260B	13-Jan-09	13-Jan-09	9010690	X
100-42-5	Styrene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	7.3	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	7.3	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	7.3	1	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	7.3	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	7.3	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	7.3	1	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	7.3	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	7.3	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/kg dry	7.3	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	14.6	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	7.3	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	73.1	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	7.3	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	7.3	1	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	7.3	1	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	7.3	1	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	73.1	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg dry	146	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	36.6	1	"	"	"	"	
64-17-5	Ethanol	BRL		µg/kg dry	2920	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*87*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*92*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*114*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*101*		*70-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
PAHs by SW846 8270C											
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	175	1	SW846 8270C	13-Jan-09	18-Jan-09	9010669	X
208-96-8	Acenaphthylene	BRL		µg/kg dry	175	1	"	"	"	"	X
120-12-7	Anthracene	BRL		µg/kg dry	175	1	"	"	"	"	X
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	175	1	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	175	1	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	175	1	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	175	1	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	175	1	"	"	"	"	X
218-01-9	Chrysene	BRL		µg/kg dry	175	1	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	175	1	"	"	"	"	X
206-44-0	Fluoranthene	BRL		µg/kg dry	175	1	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/kg dry	175	1	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	175	1	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	175	1	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-7 (2-6')	12701186	Soil	09-Jan-09 10:00	12-Jan-09
SA89692-05				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS											
PAHs by SW846 8270C											
Prepared by method SW846 3550B											
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	175	1	SW846 8270C	13-Jan-09	18-Jan-09	9010669	X
91-20-3	Naphthalene	BRL		µg/kg dry	175	1	"	"	"	"	X
85-01-8	Phenanthrene	BRL		µg/kg dry	175	1	"	"	"	"	X
129-00-0	Pyrene	BRL		µg/kg dry	175	1	"	"	"	"	X
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*79*		*30-130 %*			"	"	"	"	
1718-51-0	*Terphenyl-d14*	*74*		*30-130 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	34.9	1	+CT ETPH	13-Jan-09	14-Jan-09	9010672	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	34.9	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	34.9	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	34.9	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	34.9	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	34.9	1	"	"	"	"	
	Unidentified	BRL		mg/kg dry	34.9	1	"	"	"	"	
	Other Oil	BRL		mg/kg dry	34.9	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	34.9	1	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	34.9	1	"	"	"	"	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*94*		*50-150 %*			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.93	1	SW846 6010B	15-Jan-09	16-Jan-09	9010634	X
7440-38-2	Arsenic	BRL		mg/kg dry	1.93	1	"	"	"	"	X
7440-39-3	Barium	44.4		mg/kg dry	1.29	1	"	"	"	"	X
7440-43-9	Cadmium	BRL		mg/kg dry	0.644	1	"	"	"	"	X
7440-47-3	Chromium	13.4		mg/kg dry	1.29	1	"	"	"	"	X
7439-97-6	Mercury	BRL		mg/kg dry	0.0350	1	SW846 7471A	13-Jan-09	16-Jan-09	9010635	X
7439-92-1	Lead	2.99		mg/kg dry	1.93	1	SW846 6010B	15-Jan-09	16-Jan-09	9010634	X
7782-49-2	Selenium	BRL		mg/kg dry	1.93	1	"	"	"	"	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods											
	SPLP Extraction	Completed		N/A		1	SW846 1312	27-Jan-09	27-Jan-09	9011729	
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1312/6010B	29-Jan-09	29-Jan-09	9011791	
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	
7440-39-3	Barium	BRL		mg/l	0.0100	1	"	"	"	"	
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1312/7470A	28-Jan-09	30-Jan-09	9011792	
7439-92-1	Lead	BRL		mg/l	0.0150	1	SW846 1312/6010B	29-Jan-09	29-Jan-09	9011791	
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	
General Chemistry Parameters											
	% Solids	74.4		%		1	SM2540 G Mod.	14-Jan-09	14-Jan-09	9010819	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-7 (GW) SA89692-06	12701186	Ground Water	09-Jan-09 10:45	12-Jan-09

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5030 Water MS											
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	1.0	1	SW846 8260B	14-Jan-09	14-Jan-09	9010800	X
67-64-1	Acetone	34.8		µg/l	10.0	1	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/l	0.5	1	"	"	"	"	X
71-43-2	Benzene	BRL		µg/l	1.0	1	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/l	1.0	1	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/l	1.0	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/l	0.5	1	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/l	1.0	1	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/l	2.0	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/l	10.0	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/l	5.0	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/l	1.0	1	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/l	2.0	1	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/l	1.0	1	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/l	2.0	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/l	1.0	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/l	1.0	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/l	0.5	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/l	10.0	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0	1	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/l	5.0	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-7 (GW) SA89692-06	12701186	Ground Water	09-Jan-09 10:45	12-Jan-09

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5030 Water MS											
100-42-5	Styrene	BRL		µg/l	1.0	1	SW846 8260B	14-Jan-09	14-Jan-09	9010800	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/l	1.0	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/l	10.0	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/l	1.0	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	10.0	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/l	20.0	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0	1	"	"	"	"	X
64-17-5	Ethanol	BRL		µg/l	400	1	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*96*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*98*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*101*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*95*		*70-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GCMS											
SVOCs by SW846 8270C SIM											
Prepared by method SW846 3510C											
83-32-9	Acenaphthene	BRL		µg/l	0.050	1	SW846 8270C/EPA 625 SIM	13-Jan-09	20-Jan-09	9010681	X
208-96-8	Acenaphthylene	BRL		µg/l	0.050	1	"	"	"	"	X
90-12-0	1-Methylnaphthalene	0.133		µg/l	0.050	1	"	"	"	"	
120-12-7	Anthracene	BRL		µg/l	0.050	1	"	"	"	"	X
56-55-3	Benzo (a) anthracene	BRL		µg/l	0.050	1	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BRL		µg/l	0.050	1	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BRL		µg/l	0.050	1	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/l	0.050	1	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BRL		µg/l	0.050	1	"	"	"	"	X
218-01-9	Chrysene	BRL		µg/l	0.050	1	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/l	0.050	1	"	"	"	"	X
206-44-0	Fluoranthene	BRL		µg/l	0.050	1	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/l	0.050	1	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/l	0.050	1	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-7 (GW) SA89692-06	12701186	Ground Water	09-Jan-09 10:45	12-Jan-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Semivolatile Organic Compounds by GCMS											
SVOCs by SW846 8270C SIM											
Prepared by method SW846 3510C											
91-57-6	2-Methylnaphthalene	0.144		µg/l	0.050	1	SW846 8270C/EPA 625 SIM	13-Jan-09	20-Jan-09	9010681	
91-20-3	Naphthalene	0.378		µg/l	0.050	1	"	"	"	"	X
85-01-8	Phenanthrene	BRL		µg/l	0.050	1	"	"	"	"	X
129-00-0	Pyrene	BRL		µg/l	0.050	1	"	"	"	"	X
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*65*		*30-130 %*			"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*123*		*30-130 %*			"	"	"	"	
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3510C											
12674-11-2	PCB 1016	BRL		µg/l	0.222	1	SW846 8082	13-Jan-09	13-Jan-09	9010680	X
11104-28-2	PCB 1221	BRL		µg/l	0.222	1	"	"	"	"	X
11141-16-5	PCB 1232	BRL		µg/l	0.222	1	"	"	"	"	X
53469-21-9	PCB 1242	BRL		µg/l	0.222	1	"	"	"	"	X
12672-29-6	PCB 1248	BRL		µg/l	0.222	1	"	"	"	"	X
11097-69-1	PCB 1254	BRL		µg/l	0.222	1	"	"	"	"	X
11096-82-5	PCB 1260	BRL		µg/l	0.222	1	"	"	"	"	X
37324-23-5	PCB 1262	BRL		µg/l	0.222	1	"	"	"	"	X
11100-14-4	PCB 1268	BRL		µg/l	0.222	1	"	"	"	"	X
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*77*		*30-150 %*			"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*97*		*30-150 %*			"	"	"	"	
Chlorinated Herbicides by SW846 8151A											
Prepared by method SW846 3510C											
93-76-5	2,4,5-T	BRL		µg/l	0.100	1	SW846 8151A	15-Jan-09	16-Jan-09	9010876	X
93-72-1	2,4,5-TP (Silvex)	BRL		µg/l	0.100	1	"	"	"	"	X
94-75-7	2,4-D	BRL		µg/l	0.100	1	"	"	"	"	X
94-82-6	2,4-DB	BRL		µg/l	0.100	1	"	"	"	"	X
75-99-0	Dalapon	BRL		µg/l	0.100	1	"	"	"	"	X
1918-00-9	Dicamba	BRL		µg/l	0.100	1	"	"	"	"	X
120-36-5	Dichlorprop	BRL		µg/l	0.100	1	"	"	"	"	X
88-85-7	Dinoseb	BRL		µg/l	0.100	1	"	"	"	"	X
94-74-6	MCPA	BRL		µg/l	1.50	1	"	"	"	"	
94-81-5	MCPB	BRL		µg/l	1.50	1	"	"	"	"	
93-65-2	MCPP	BRL		µg/l	1.50	1	"	"	"	"	
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*65*		*30-150 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3510C											
8006-61-9	Gasoline	BRL		mg/l	0.1	1	+CT ETPH	13-Jan-09	14-Jan-09	9010682	
68476-30-2	Fuel Oil #2	BRL		mg/l	0.1	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/l	0.1	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/l	0.1	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/l	0.1	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/l	0.1	1	"	"	"	"	
	Unidentified	BRL		mg/l	0.1	1	"	"	"	"	
	Other Oil	BRL		mg/l	0.1	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/l	0.1	1	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RSB-7 (GW) SA89692-06	12701186	Ground Water	09-Jan-09 10:45	12-Jan-09

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3510C											
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.1	1	+CT ETPH	13-Jan-09	14-Jan-09	9010682	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*84*		*50-150 %*			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/l	0.0050	1	SW846 6010B	13-Jan-09	15-Jan-09	9010733	X
7440-38-2	Arsenic	BRL		mg/l	0.0040	1	"	"	"	"	X
7440-39-3	Barium	0.403		mg/l	0.0050	1	"	"	"	"	X
7440-43-9	Cadmium	BRL		mg/l	0.0025	1	"	"	"	"	X
7440-47-3	Chromium	BRL		mg/l	0.0050	1	"	"	"	"	X
7439-92-1	Lead	BRL		mg/l	0.0075	1	"	"	"	"	X
7782-49-2	Selenium	BRL		mg/l	0.0150	1	"	"	"	"	X
Total Metals by EPA 200 Series Methods											
7439-97-6	Mercury	BRL		mg/l	0.00020	1	EPA 245.1/7470A	13-Jan-09	16-Jan-09	9010734	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SA89692-07	12701186	Aqueous	09-Jan-09 10:50	12-Jan-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5030 Water MS											
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	1.0	1	SW846 8260B	14-Jan-09	14-Jan-09	9010800	X
67-64-1	Acetone	BRL		µg/l	10.0	1	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/l	0.5	1	"	"	"	"	X
71-43-2	Benzene	BRL		µg/l	1.0	1	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/l	1.0	1	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/l	1.0	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/l	0.5	1	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/l	1.0	1	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/l	2.0	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/l	10.0	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/l	5.0	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/l	1.0	1	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/l	2.0	1	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/l	1.0	1	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/l	2.0	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/l	1.0	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/l	1.0	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/l	0.5	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/l	10.0	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0	1	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/l	5.0	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	12701186	Aqueous	09-Jan-09 10:50	12-Jan-09
SA89692-07				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5030 Water MS											
100-42-5	Styrene	BRL		µg/l	1.0	1	SW846 8260B	14-Jan-09	14-Jan-09	9010800	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/l	1.0	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	1.0	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/l	1.0	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/l	10.0	1	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/l	1.0	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BRL		µg/l	1.0	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	10.0	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/l	20.0	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0	1	"	"	"	"	X
64-17-5	Ethanol	BRL		µg/l	400	1	"	"	"	"	X
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*	*103*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*96*		*70-130 %*			"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010690 - SW846 5035A Soil (low level)										
Blank (9010690-BLK1)										
Prepared & Analyzed: 13-Jan-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg wet	5.0						
Acetone	BRL		µg/kg wet	50.0						
Acrylonitrile	BRL		µg/kg wet	5.0						
Benzene	BRL		µg/kg wet	5.0						
Bromobenzene	BRL		µg/kg wet	5.0						
Bromochloromethane	BRL		µg/kg wet	5.0						
Bromodichloromethane	BRL		µg/kg wet	5.0						
Bromoform	BRL		µg/kg wet	5.0						
Bromomethane	BRL		µg/kg wet	10.0						
2-Butanone (MEK)	BRL		µg/kg wet	50.0						
n-Butylbenzene	BRL		µg/kg wet	5.0						
sec-Butylbenzene	BRL		µg/kg wet	5.0						
tert-Butylbenzene	BRL		µg/kg wet	5.0						
Carbon disulfide	BRL		µg/kg wet	25.0						
Carbon tetrachloride	BRL		µg/kg wet	5.0						
Chlorobenzene	BRL		µg/kg wet	5.0						
Chloroethane	BRL		µg/kg wet	10.0						
Chloroform	BRL		µg/kg wet	5.0						
Chloromethane	BRL		µg/kg wet	10.0						
2-Chlorotoluene	BRL		µg/kg wet	5.0						
4-Chlorotoluene	BRL		µg/kg wet	5.0						
1,2-Dibromo-3-chloropropane	BRL		µg/kg wet	10.0						
Dibromochloromethane	BRL		µg/kg wet	5.0						
1,2-Dibromoethane (EDB)	BRL		µg/kg wet	5.0						
Dibromomethane	BRL		µg/kg wet	5.0						
1,2-Dichlorobenzene	BRL		µg/kg wet	5.0						
1,3-Dichlorobenzene	BRL		µg/kg wet	5.0						
1,4-Dichlorobenzene	BRL		µg/kg wet	5.0						
Dichlorodifluoromethane (Freon12)	BRL		µg/kg wet	10.0						
1,1-Dichloroethane	BRL		µg/kg wet	5.0						
1,2-Dichloroethane	BRL		µg/kg wet	5.0						
1,1-Dichloroethene	BRL		µg/kg wet	5.0						
cis-1,2-Dichloroethene	BRL		µg/kg wet	5.0						
trans-1,2-Dichloroethene	BRL		µg/kg wet	5.0						
1,2-Dichloropropane	BRL		µg/kg wet	5.0						
1,3-Dichloropropane	BRL		µg/kg wet	5.0						
2,2-Dichloropropane	BRL		µg/kg wet	5.0						
1,1-Dichloropropene	BRL		µg/kg wet	5.0						
cis-1,3-Dichloropropene	BRL		µg/kg wet	5.0						
trans-1,3-Dichloropropene	BRL		µg/kg wet	5.0						
Ethylbenzene	BRL		µg/kg wet	5.0						
Hexachlorobutadiene	BRL		µg/kg wet	5.0						
2-Hexanone (MBK)	BRL		µg/kg wet	50.0						
Isopropylbenzene	BRL		µg/kg wet	5.0						
4-Isopropyltoluene	BRL		µg/kg wet	5.0						
Methyl tert-butyl ether	BRL		µg/kg wet	5.0						
4-Methyl-2-pentanone (MIBK)	BRL		µg/kg wet	50.0						
Methylene chloride	BRL		µg/kg wet	50.0						
Naphthalene	BRL		µg/kg wet	5.0						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010690 - SW846 5035A Soil (low level)										
Blank (9010690-BLK1)										
Prepared & Analyzed: 13-Jan-09										
n-Propylbenzene	BRL		µg/kg wet	5.0						
Styrene	BRL		µg/kg wet	5.0						
1,1,1,2-Tetrachloroethane	BRL		µg/kg wet	5.0						
1,1,2,2-Tetrachloroethane	BRL		µg/kg wet	5.0						
Tetrachloroethene	BRL		µg/kg wet	5.0						
Toluene	BRL		µg/kg wet	5.0						
1,2,3-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,2,4-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,3,5-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,1,1-Trichloroethane	BRL		µg/kg wet	5.0						
1,1,2-Trichloroethane	BRL		µg/kg wet	5.0						
Trichloroethene	BRL		µg/kg wet	5.0						
Trichlorofluoromethane (Freon 11)	BRL		µg/kg wet	5.0						
1,2,3-Trichloropropane	BRL		µg/kg wet	5.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	5.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	5.0						
Vinyl chloride	BRL		µg/kg wet	5.0						
m,p-Xylene	BRL		µg/kg wet	10.0						
o-Xylene	BRL		µg/kg wet	5.0						
Tetrahydrofuran	BRL		µg/kg wet	50.0						
Ethyl ether	BRL		µg/kg wet	5.0						
Tert-amyl methyl ether	BRL		µg/kg wet	5.0						
Ethyl tert-butyl ether	BRL		µg/kg wet	5.0						
Di-isopropyl ether	BRL		µg/kg wet	5.0						
Tert-Butanol / butyl alcohol	BRL		µg/kg wet	50.0						
1,4-Dioxane	BRL		µg/kg wet	100						
trans-1,4-Dichloro-2-butene	BRL		µg/kg wet	25.0						
Ethanol	BRL		µg/kg wet	2000						
Surrogate: 4-Bromofluorobenzene	*48.5*		µg/kg wet		*50.0*		*97*	*70-130*		
Surrogate: Toluene-d8	*49.1*		µg/kg wet		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*59.6*		µg/kg wet		*50.0*		*119*	*70-130*		
Surrogate: Dibromofluoromethane	*53.3*		µg/kg wet		*50.0*		*107*	*70-130*		
LCS (9010690-BS1)										
Prepared & Analyzed: 13-Jan-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	19.8		µg/kg wet		20.0		99	70-130		
Acetone	15.9		µg/kg wet		20.0		80	7.9-168		
Acrylonitrile	20.8		µg/kg wet		20.0		104	70-130		
Benzene	20.9		µg/kg wet		20.0		104	70-130		
Bromobenzene	19.4		µg/kg wet		20.0		97	70-130		
Bromochloromethane	19.0		µg/kg wet		20.0		95	70-130		
Bromodichloromethane	20.4		µg/kg wet		20.0		102	70-130		
Bromoform	20.0		µg/kg wet		20.0		100	70-130		
Bromomethane	18.8		µg/kg wet		20.0		94	50-134		
2-Butanone (MEK)	16.7		µg/kg wet		20.0		84	44.6-130		
n-Butylbenzene	22.6		µg/kg wet		20.0		113	70-130		
sec-Butylbenzene	21.5		µg/kg wet		20.0		108	70-130		
tert-Butylbenzene	20.4		µg/kg wet		20.0		102	70-130		
Carbon disulfide	21.6		µg/kg wet		20.0		108	70-130		
Carbon tetrachloride	19.8		µg/kg wet		20.0		99	70-130		
Chlorobenzene	20.1		µg/kg wet		20.0		100	70-130		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010690 - SW846 5035A Soil (low level)										
LCS (9010690-BS1)										
Prepared & Analyzed: 13-Jan-09										
Chloroethane	18.8		µg/kg wet		20.0		94	59.2-130		
Chloroform	18.3		µg/kg wet		20.0		92	70-130		
Chloromethane	18.1		µg/kg wet		20.0		91	70-130		
2-Chlorotoluene	21.5		µg/kg wet		20.0		107	70-130		
4-Chlorotoluene	21.2		µg/kg wet		20.0		106	70-130		
1,2-Dibromo-3-chloropropane	22.2		µg/kg wet		20.0		111	70-130		
Dibromochloromethane	19.6		µg/kg wet		20.0		98	63.8-130		
1,2-Dibromoethane (EDB)	18.4		µg/kg wet		20.0		92	70-130		
Dibromomethane	18.8		µg/kg wet		20.0		94	70-130		
1,2-Dichlorobenzene	21.0		µg/kg wet		20.0		105	70-130		
1,3-Dichlorobenzene	20.1		µg/kg wet		20.0		101	70-130		
1,4-Dichlorobenzene	20.8		µg/kg wet		20.0		104	70-130		
Dichlorodifluoromethane (Freon12)	15.9		µg/kg wet		20.0		80	41.8-130		
1,1-Dichloroethane	19.9		µg/kg wet		20.0		99	70-130		
1,2-Dichloroethane	19.0		µg/kg wet		20.0		95	70-130		
1,1-Dichloroethene	21.5		µg/kg wet		20.0		108	70-130		
cis-1,2-Dichloroethene	19.1		µg/kg wet		20.0		96	70-130		
trans-1,2-Dichloroethene	19.8		µg/kg wet		20.0		99	70-130		
1,2-Dichloropropane	21.3		µg/kg wet		20.0		107	70-130		
1,3-Dichloropropane	19.6		µg/kg wet		20.0		98	70-130		
2,2-Dichloropropane	18.3		µg/kg wet		20.0		92	70-130		
1,1-Dichloropropene	20.2		µg/kg wet		20.0		101	70-130		
cis-1,3-Dichloropropene	18.5		µg/kg wet		20.0		93	70-130		
trans-1,3-Dichloropropene	20.1		µg/kg wet		20.0		100	70-130		
Ethylbenzene	20.6		µg/kg wet		20.0		103	70-130		
Hexachlorobutadiene	18.6		µg/kg wet		20.0		93	68.3-130		
2-Hexanone (MBK)	18.4		µg/kg wet		20.0		92	70-130		
Isopropylbenzene	20.4		µg/kg wet		20.0		102	70-130		
4-Isopropyltoluene	21.3		µg/kg wet		20.0		107	70-130		
Methyl tert-butyl ether	20.0		µg/kg wet		20.0		100	70-130		
4-Methyl-2-pentanone (MIBK)	15.7		µg/kg wet		20.0		79	53.1-132		
Methylene chloride	20.2		µg/kg wet		20.0		101	70-130		
Naphthalene	18.1		µg/kg wet		20.0		91	70-130		
n-Propylbenzene	21.2		µg/kg wet		20.0		106	70-130		
Styrene	20.9		µg/kg wet		20.0		105	70-130		
1,1,1,2-Tetrachloroethane	20.1		µg/kg wet		20.0		100	70-130		
1,1,2,2-Tetrachloroethane	21.6		µg/kg wet		20.0		108	70-130		
Tetrachloroethene	18.6		µg/kg wet		20.0		93	70-130		
Toluene	17.7		µg/kg wet		20.0		89	70-130		
1,2,3-Trichlorobenzene	19.7		µg/kg wet		20.0		99	70-130		
1,2,4-Trichlorobenzene	19.7		µg/kg wet		20.0		99	70-130		
1,3,5-Trichlorobenzene	20.2		µg/kg wet		20.0		101	70-130		
1,1,1-Trichloroethane	19.5		µg/kg wet		20.0		97	70-130		
1,1,2-Trichloroethane	19.2		µg/kg wet		20.0		96	70-130		
Trichloroethene	20.0		µg/kg wet		20.0		100	70-130		
Trichlorofluoromethane (Freon 11)	19.8		µg/kg wet		20.0		99	68.2-130		
1,2,3-Trichloropropane	19.8		µg/kg wet		20.0		99	70-130		
1,2,4-Trimethylbenzene	20.9		µg/kg wet		20.0		104	70-130		
1,3,5-Trimethylbenzene	20.9		µg/kg wet		20.0		104	70-130		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010690 - SW846 5035A Soil (low level)										
LCS (9010690-BS1)										
Prepared & Analyzed: 13-Jan-09										
Vinyl chloride	20.6		µg/kg wet		20.0		103	70-130		
m,p-Xylene	43.0		µg/kg wet		40.0		107	70-130		
o-Xylene	20.7		µg/kg wet		20.0		104	70-130		
Tetrahydrofuran	18.3		µg/kg wet		20.0		92	70-130		
Ethyl ether	19.7		µg/kg wet		20.0		98	70-130		
Tert-amyl methyl ether	17.7		µg/kg wet		20.0		88	70-130		
Ethyl tert-butyl ether	19.1		µg/kg wet		20.0		95	70-130		
Di-isopropyl ether	19.8		µg/kg wet		20.0		99	70-130		
Tert-Butanol / butyl alcohol	205		µg/kg wet		200		102	70-130		
1,4-Dioxane	167		µg/kg wet		200		83	48.7-130		
trans-1,4-Dichloro-2-butene	19.7		µg/kg wet		20.0		99	70-130		
Ethanol	426		µg/kg wet		400		107	70-130		
Surrogate: 4-Bromofluorobenzene	*50.2*		µg/kg wet		*50.0*		*100*	*70-130*		
Surrogate: Toluene-d8	*47.1*		µg/kg wet		*50.0*		*94*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*47.0*		µg/kg wet		*50.0*		*94*	*70-130*		
Surrogate: Dibromofluoromethane	*46.6*		µg/kg wet		*50.0*		*93*	*70-130*		
LCS Dup (9010690-BSD1)										
Prepared & Analyzed: 13-Jan-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.3		µg/kg wet		20.0		106	70-130	7	25
Acetone	10.0		µg/kg wet		20.0		50	7.9-168	46	50
Acrylonitrile	15.8	QR2	µg/kg wet		20.0		79	70-130	27	25
Benzene	20.7		µg/kg wet		20.0		103	70-130	1	25
Bromobenzene	17.6		µg/kg wet		20.0		88	70-130	10	25
Bromochloromethane	15.1		µg/kg wet		20.0		75	70-130	23	25
Bromodichloromethane	19.9		µg/kg wet		20.0		99	70-130	3	25
Bromoform	19.1		µg/kg wet		20.0		95	70-130	5	25
Bromomethane	12.6		µg/kg wet		20.0		63	50-134	40	50
2-Butanone (MEK)	15.2		µg/kg wet		20.0		76	44.6-130	10	50
n-Butylbenzene	21.5		µg/kg wet		20.0		108	70-130	5	25
sec-Butylbenzene	17.4		µg/kg wet		20.0		87	70-130	21	25
tert-Butylbenzene	17.0		µg/kg wet		20.0		85	70-130	18	25
Carbon disulfide	19.6		µg/kg wet		20.0		98	70-130	10	25
Carbon tetrachloride	21.5		µg/kg wet		20.0		108	70-130	8	25
Chlorobenzene	19.8		µg/kg wet		20.0		99	70-130	1	25
Chloroethane	13.8		µg/kg wet		20.0		69	59.2-130	31	50
Chloroform	18.5		µg/kg wet		20.0		92	70-130	0.7	25
Chloromethane	12.2	QC1, QR5	µg/kg wet		20.0		61	70-130	39	25
2-Chlorotoluene	19.0		µg/kg wet		20.0		95	70-130	12	25
4-Chlorotoluene	17.8		µg/kg wet		20.0		89	70-130	17	25
1,2-Dibromo-3-chloropropane	20.1		µg/kg wet		20.0		100	70-130	10	25
Dibromochloromethane	16.8		µg/kg wet		20.0		84	63.8-130	16	50
1,2-Dibromoethane (EDB)	16.2		µg/kg wet		20.0		81	70-130	12	25
Dibromomethane	17.1		µg/kg wet		20.0		86	70-130	9	25
1,2-Dichlorobenzene	20.1		µg/kg wet		20.0		100	70-130	5	25
1,3-Dichlorobenzene	16.1		µg/kg wet		20.0		81	70-130	22	25
1,4-Dichlorobenzene	20.8		µg/kg wet		20.0		104	70-130	0.2	25
Dichlorodifluoromethane (Freon12)	11.8		µg/kg wet		20.0		59	41.8-130	29	50
1,1-Dichloroethane	20.1		µg/kg wet		20.0		100	70-130	1	25
1,2-Dichloroethane	18.1		µg/kg wet		20.0		90	70-130	5	25

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010690 - SW846 5035A Soil (low level)										
LCS Dup (9010690-BSD1)										
Prepared & Analyzed: 13-Jan-09										
1,1-Dichloroethene	19.6		µg/kg wet		20.0		98	70-130	9	25
cis-1,2-Dichloroethene	19.5		µg/kg wet		20.0		97	70-130	2	25
trans-1,2-Dichloroethene	21.0		µg/kg wet		20.0		105	70-130	6	25
1,2-Dichloropropane	19.9		µg/kg wet		20.0		100	70-130	7	25
1,3-Dichloropropane	17.7		µg/kg wet		20.0		88	70-130	10	25
2,2-Dichloropropane	19.3		µg/kg wet		20.0		97	70-130	5	25
1,1-Dichloropropene	21.1		µg/kg wet		20.0		106	70-130	4	25
cis-1,3-Dichloropropene	17.9		µg/kg wet		20.0		89	70-130	4	25
trans-1,3-Dichloropropene	18.5		µg/kg wet		20.0		93	70-130	8	25
Ethylbenzene	20.4		µg/kg wet		20.0		102	70-130	1	25
Hexachlorobutadiene	17.3		µg/kg wet		20.0		86	68.3-130	7	50
2-Hexanone (MBK)	14.7		µg/kg wet		20.0		73	70-130	22	25
Isopropylbenzene	18.0		µg/kg wet		20.0		90	70-130	13	25
4-Isopropyltoluene	21.2		µg/kg wet		20.0		106	70-130	0.8	25
Methyl tert-butyl ether	19.0		µg/kg wet		20.0		95	70-130	5	25
4-Methyl-2-pentanone (MIBK)	16.1		µg/kg wet		20.0		80	53.1-132	2	50
Methylene chloride	16.2		µg/kg wet		20.0		81	70-130	22	25
Naphthalene	16.1		µg/kg wet		20.0		80	70-130	12	25
n-Propylbenzene	18.0		µg/kg wet		20.0		90	70-130	16	25
Styrene	18.2		µg/kg wet		20.0		91	70-130	14	25
1,1,1,2-Tetrachloroethane	21.2		µg/kg wet		20.0		106	70-130	6	25
1,1,2,2-Tetrachloroethane	17.4		µg/kg wet		20.0		87	70-130	22	25
Tetrachloroethene	17.6		µg/kg wet		20.0		88	70-130	5	25
Toluene	16.5		µg/kg wet		20.0		82	70-130	7	25
1,2,3-Trichlorobenzene	17.3		µg/kg wet		20.0		86	70-130	13	25
1,2,4-Trichlorobenzene	17.2		µg/kg wet		20.0		86	70-130	13	25
1,3,5-Trichlorobenzene	18.9		µg/kg wet		20.0		95	70-130	6	25
1,1,1-Trichloroethane	20.7		µg/kg wet		20.0		104	70-130	6	25
1,1,2-Trichloroethane	17.6		µg/kg wet		20.0		88	70-130	9	25
Trichloroethene	20.0		µg/kg wet		20.0		100	70-130	0.05	25
Trichlorofluoromethane (Freon 11)	17.6		µg/kg wet		20.0		88	68.2-130	12	50
1,2,3-Trichloropropane	16.9		µg/kg wet		20.0		85	70-130	16	25
1,2,4-Trimethylbenzene	17.8		µg/kg wet		20.0		89	70-130	16	25
1,3,5-Trimethylbenzene	18.0		µg/kg wet		20.0		90	70-130	15	25
Vinyl chloride	14.6	QR2	µg/kg wet		20.0		73	70-130	34	25
m,p-Xylene	39.6		µg/kg wet		40.0		99	70-130	8	25
o-Xylene	19.2		µg/kg wet		20.0		96	70-130	7	25
Tetrahydrofuran	15.8		µg/kg wet		20.0		79	70-130	15	25
Ethyl ether	21.3		µg/kg wet		20.0		107	70-130	8	50
Tert-amyl methyl ether	17.6		µg/kg wet		20.0		88	70-130	0.7	25
Ethyl tert-butyl ether	20.4		µg/kg wet		20.0		102	70-130	6	25
Di-isopropyl ether	21.1		µg/kg wet		20.0		105	70-130	6	25
Tert-Butanol / butyl alcohol	152	QR2	µg/kg wet		200		76	70-130	30	25
1,4-Dioxane	143		µg/kg wet		200		72	48.7-130	15	25
trans-1,4-Dichloro-2-butene	17.8		µg/kg wet		20.0		89	70-130	10	25
Ethanol	292	QR2	µg/kg wet		400		73	70-130	37	30
Surrogate: 4-Bromofluorobenzene	*45.0*		µg/kg wet		*50.0*		*90*	*70-130*		
Surrogate: Toluene-d8	*44.9*		µg/kg wet		*50.0*		*90*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*45.7*		µg/kg wet		*50.0*		*91*	*70-130*		
Surrogate: Dibromofluoromethane	*47.3*		µg/kg wet		*50.0*		*95*	*70-130*		

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* Reportable Detection Limit BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010800 - SW846 5030 Water MS										
Blank (9010800-BLK1)										
Prepared & Analyzed: 14-Jan-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	1.0						
Acetone	BRL		µg/l	10.0						
Acrylonitrile	BRL		µg/l	0.5						
Benzene	BRL		µg/l	1.0						
Bromobenzene	BRL		µg/l	1.0						
Bromochloromethane	BRL		µg/l	1.0						
Bromodichloromethane	BRL		µg/l	0.5						
Bromoform	BRL		µg/l	1.0						
Bromomethane	BRL		µg/l	2.0						
2-Butanone (MEK)	BRL		µg/l	10.0						
n-Butylbenzene	BRL		µg/l	1.0						
sec-Butylbenzene	BRL		µg/l	1.0						
tert-Butylbenzene	BRL		µg/l	1.0						
Carbon disulfide	BRL		µg/l	5.0						
Carbon tetrachloride	BRL		µg/l	1.0						
Chlorobenzene	BRL		µg/l	1.0						
Chloroethane	BRL		µg/l	2.0						
Chloroform	BRL		µg/l	1.0						
Chloromethane	BRL		µg/l	2.0						
2-Chlorotoluene	BRL		µg/l	1.0						
4-Chlorotoluene	BRL		µg/l	1.0						
1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0						
Dibromochloromethane	BRL		µg/l	0.5						
1,2-Dibromoethane (EDB)	BRL		µg/l	0.5						
Dibromomethane	BRL		µg/l	1.0						
1,2-Dichlorobenzene	BRL		µg/l	1.0						
1,3-Dichlorobenzene	BRL		µg/l	1.0						
1,4-Dichlorobenzene	BRL		µg/l	1.0						
Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0						
1,1-Dichloroethane	BRL		µg/l	1.0						
1,2-Dichloroethane	BRL		µg/l	1.0						
1,1-Dichloroethene	BRL		µg/l	1.0						
cis-1,2-Dichloroethene	BRL		µg/l	1.0						
trans-1,2-Dichloroethene	BRL		µg/l	1.0						
1,2-Dichloropropane	BRL		µg/l	1.0						
1,3-Dichloropropane	BRL		µg/l	1.0						
2,2-Dichloropropane	BRL		µg/l	1.0						
1,1-Dichloropropene	BRL		µg/l	1.0						
cis-1,3-Dichloropropene	BRL		µg/l	0.5						
trans-1,3-Dichloropropene	BRL		µg/l	0.5						
Ethylbenzene	BRL		µg/l	1.0						
Hexachlorobutadiene	BRL		µg/l	0.5						
2-Hexanone (MBK)	BRL		µg/l	10.0						
Isopropylbenzene	BRL		µg/l	1.0						
4-Isopropyltoluene	BRL		µg/l	1.0						
Methyl tert-butyl ether	BRL		µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0						
Methylene chloride	BRL		µg/l	5.0						
Naphthalene	BRL		µg/l	1.0						
n-Propylbenzene	BRL		µg/l	1.0						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010800 - SW846 5030 Water MS										
Blank (9010800-BLK1)										
Prepared & Analyzed: 14-Jan-09										
Styrene	BRL		µg/l	1.0						
1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0						
1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5						
Tetrachloroethene	BRL		µg/l	1.0						
Toluene	BRL		µg/l	1.0						
1,2,3-Trichlorobenzene	BRL		µg/l	1.0						
1,2,4-Trichlorobenzene	BRL		µg/l	1.0						
1,3,5-Trichlorobenzene	BRL		µg/l	1.0						
1,1,1-Trichloroethane	BRL		µg/l	1.0						
1,1,2-Trichloroethane	BRL		µg/l	1.0						
Trichloroethene	BRL		µg/l	1.0						
Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0						
1,2,3-Trichloropropane	BRL		µg/l	1.0						
1,2,4-Trimethylbenzene	BRL		µg/l	1.0						
1,3,5-Trimethylbenzene	BRL		µg/l	1.0						
Vinyl chloride	BRL		µg/l	1.0						
m,p-Xylene	BRL		µg/l	2.0						
o-Xylene	BRL		µg/l	1.0						
Tetrahydrofuran	BRL		µg/l	10.0						
Ethyl ether	BRL		µg/l	1.0						
Tert-amyl methyl ether	BRL		µg/l	1.0						
Ethyl tert-butyl ether	BRL		µg/l	1.0						
Di-isopropyl ether	BRL		µg/l	1.0						
Tert-Butanol / butyl alcohol	BRL		µg/l	10.0						
1,4-Dioxane	BRL		µg/l	20.0						
trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0						
Ethanol	BRL		µg/l	400						
Surrogate: 4-Bromofluorobenzene	*47.6*		µg/l		*50.0*		*95*	*70-130*		
Surrogate: Toluene-d8	*48.4*		µg/l		*50.0*		*97*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.6*		µg/l		*50.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*46.6*		µg/l		*50.0*		*93*	*70-130*		
LCS (9010800-BS1)										
Prepared & Analyzed: 14-Jan-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	19.3		µg/l		20.0		96	70-130		
Acetone	22.3		µg/l		20.0		111	45.7-161		
Acrylonitrile	18.5		µg/l		20.0		92	70-130		
Benzene	19.8		µg/l		20.0		99	70-130		
Bromobenzene	19.7		µg/l		20.0		98	70-130		
Bromochloromethane	17.8		µg/l		20.0		89	70-130		
Bromodichloromethane	19.5		µg/l		20.0		97	70-130		
Bromoform	19.4		µg/l		20.0		97	70-130		
Bromomethane	21.1		µg/l		20.0		105	39.7-172		
2-Butanone (MEK)	21.2		µg/l		20.0		106	50.8-149		
n-Butylbenzene	20.0		µg/l		20.0		100	70-130		
sec-Butylbenzene	20.1		µg/l		20.0		101	70-130		
tert-Butylbenzene	20.2		µg/l		20.0		101	70-130		
Carbon disulfide	15.7		µg/l		20.0		78	70-130		
Carbon tetrachloride	22.2		µg/l		20.0		111	70-130		
Chlorobenzene	19.4		µg/l		20.0		97	70-130		
Chloroethane	19.9		µg/l		20.0		99	70-136		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010800 - SW846 5030 Water MS										
LCS (9010800-BS1)										
Prepared & Analyzed: 14-Jan-09										
Chloroform	18.1		µg/l		20.0		90	70-130		
Chloromethane	18.7		µg/l		20.0		93	70-130		
2-Chlorotoluene	22.1		µg/l		20.0		111	70-130		
4-Chlorotoluene	21.6		µg/l		20.0		108	70-130		
1,2-Dibromo-3-chloropropane	19.2		µg/l		20.0		96	70-130		
Dibromochloromethane	19.3		µg/l		20.0		97	59.7-133		
1,2-Dibromoethane (EDB)	19.4		µg/l		20.0		97	70-130		
Dibromomethane	18.4		µg/l		20.0		92	70-130		
1,2-Dichlorobenzene	20.3		µg/l		20.0		102	70-130		
1,3-Dichlorobenzene	21.3		µg/l		20.0		106	70-130		
1,4-Dichlorobenzene	19.2		µg/l		20.0		96	70-130		
Dichlorodifluoromethane (Freon12)	20.9		µg/l		20.0		104	43-134		
1,1-Dichloroethane	11.1	QC1	µg/l		20.0		56	70-130		
1,2-Dichloroethane	19.1		µg/l		20.0		96	70-130		
1,1-Dichloroethene	19.8		µg/l		20.0		99	70-130		
cis-1,2-Dichloroethene	19.4		µg/l		20.0		97	70-130		
trans-1,2-Dichloroethene	18.1		µg/l		20.0		91	70-130		
1,2-Dichloropropane	19.1		µg/l		20.0		96	70-130		
1,3-Dichloropropane	18.8		µg/l		20.0		94	70-130		
2,2-Dichloropropane	20.6		µg/l		20.0		103	70-130		
1,1-Dichloropropene	22.2		µg/l		20.0		111	70-130		
cis-1,3-Dichloropropene	18.8		µg/l		20.0		94	70-130		
trans-1,3-Dichloropropene	21.4		µg/l		20.0		107	70-130		
Ethylbenzene	20.8		µg/l		20.0		104	70-130		
Hexachlorobutadiene	21.9		µg/l		20.0		110	50.9-165		
2-Hexanone (MBK)	20.6		µg/l		20.0		103	70-130		
Isopropylbenzene	20.8		µg/l		20.0		104	70-130		
4-Isopropyltoluene	19.3		µg/l		20.0		96	70-130		
Methyl tert-butyl ether	18.8		µg/l		20.0		94	70-130		
4-Methyl-2-pentanone (MIBK)	18.0		µg/l		20.0		90	52.8-134		
Methylene chloride	20.4		µg/l		20.0		102	70-130		
Naphthalene	18.0		µg/l		20.0		90	70-130		
n-Propylbenzene	19.3		µg/l		20.0		97	70-130		
Styrene	18.8		µg/l		20.0		94	70-130		
1,1,1,2-Tetrachloroethane	20.2		µg/l		20.0		101	70-130		
1,1,2,2-Tetrachloroethane	19.4		µg/l		20.0		97	70-130		
Tetrachloroethene	21.0		µg/l		20.0		105	70-130		
Toluene	19.5		µg/l		20.0		98	70-130		
1,2,3-Trichlorobenzene	19.3		µg/l		20.0		97	70-130		
1,2,4-Trichlorobenzene	18.7		µg/l		20.0		94	70-130		
1,3,5-Trichlorobenzene	22.8		µg/l		20.0		114	70-130		
1,1,1-Trichloroethane	20.5		µg/l		20.0		102	70-130		
1,1,2-Trichloroethane	19.4		µg/l		20.0		97	70-130		
Trichloroethene	19.5		µg/l		20.0		97	70-130		
Trichlorofluoromethane (Freon 11)	21.7		µg/l		20.0		108	60-147		
1,2,3-Trichloropropane	19.7		µg/l		20.0		99	70-130		
1,2,4-Trimethylbenzene	19.6		µg/l		20.0		98	70-130		
1,3,5-Trimethylbenzene	19.3		µg/l		20.0		96	70-130		
Vinyl chloride	18.9		µg/l		20.0		94	70-130		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010800 - SW846 5030 Water MS										
LCS (9010800-BS1)										
Prepared & Analyzed: 14-Jan-09										
m,p-Xylene	42.7		µg/l		40.0		107	70-130		
o-Xylene	21.5		µg/l		20.0		107	70-130		
Tetrahydrofuran	19.0		µg/l		20.0		95	70-130		
Ethyl ether	18.3		µg/l		20.0		92	67.1-130		
Tert-amyl methyl ether	18.8		µg/l		20.0		94	70-130		
Ethyl tert-butyl ether	17.4		µg/l		20.0		87	70-130		
Di-isopropyl ether	18.0		µg/l		20.0		90	70-130		
Tert-Butanol / butyl alcohol	185		µg/l		200		93	70-130		
1,4-Dioxane	217		µg/l		200		108	56.4-130		
trans-1,4-Dichloro-2-butene	20.1		µg/l		20.0		100	70-130		
Ethanol	421		µg/l		400		105	70-130		
Surrogate: 4-Bromofluorobenzene	*50.0*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: Toluene-d8	*49.7*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.6*		µg/l		*50.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*45.4*		µg/l		*50.0*		*91*	*70-130*		
LCS Dup (9010800-BSD1)										
Prepared & Analyzed: 14-Jan-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	12.6	QC1, QR5	µg/l		20.0		63	70-130	42	25
Acetone	20.8		µg/l		20.0		104	45.7-161	7	50
Acrylonitrile	8.9	QC1, QR5	µg/l		20.0		45	70-130	70	25
Benzene	18.4		µg/l		20.0		92	70-130	7	25
Bromobenzene	19.2		µg/l		20.0		96	70-130	3	25
Bromochloromethane	19.9		µg/l		20.0		99	70-130	11	25
Bromodichloromethane	18.8		µg/l		20.0		94	70-130	3	25
Bromoform	19.2		µg/l		20.0		96	70-130	1	25
Bromomethane	20.4		µg/l		20.0		102	39.7-172	3	50
2-Butanone (MEK)	12.4	QR2	µg/l		20.0		62	50.8-149	53	50
n-Butylbenzene	18.5		µg/l		20.0		92	70-130	8	25
sec-Butylbenzene	19.2		µg/l		20.0		96	70-130	5	25
tert-Butylbenzene	18.9		µg/l		20.0		94	70-130	7	25
Carbon disulfide	23.0	QR2	µg/l		20.0		115	70-130	38	25
Carbon tetrachloride	20.7		µg/l		20.0		103	70-130	7	25
Chlorobenzene	18.5		µg/l		20.0		92	70-130	5	25
Chloroethane	18.8		µg/l		20.0		94	70-136	6	50
Chloroform	19.1		µg/l		20.0		95	70-130	5	25
Chloromethane	17.3		µg/l		20.0		86	70-130	8	25
2-Chlorotoluene	20.8		µg/l		20.0		104	70-130	6	25
4-Chlorotoluene	20.2		µg/l		20.0		101	70-130	7	25
1,2-Dibromo-3-chloropropane	19.2		µg/l		20.0		96	70-130	0.3	25
Dibromochloromethane	18.8		µg/l		20.0		94	59.7-133	2	50
1,2-Dibromoethane (EDB)	19.2		µg/l		20.0		96	70-130	0.6	25
Dibromomethane	17.5		µg/l		20.0		87	70-130	5	25
1,2-Dichlorobenzene	19.6		µg/l		20.0		98	70-130	4	25
1,3-Dichlorobenzene	19.8		µg/l		20.0		99	70-130	7	25
1,4-Dichlorobenzene	18.2		µg/l		20.0		91	70-130	5	25
Dichlorodifluoromethane (Freon12)	19.5		µg/l		20.0		98	43-134	7	50
1,1-Dichloroethane	18.9	QR5	µg/l		20.0		94	70-130	52	25
1,2-Dichloroethane	18.5		µg/l		20.0		92	70-130	3	25

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010800 - SW846 5030 Water MS										
LCS Dup (9010800-BSD1)										
Prepared & Analyzed: 14-Jan-09										
1,1-Dichloroethene	10.9	QC1, QR5	µg/l		20.0		54	70-130	58	25
cis-1,2-Dichloroethene	18.3		µg/l		20.0		91	70-130	6	25
trans-1,2-Dichloroethene	18.7		µg/l		20.0		94	70-130	3	25
1,2-Dichloropropane	18.2		µg/l		20.0		91	70-130	5	25
1,3-Dichloropropane	18.7		µg/l		20.0		93	70-130	0.7	25
2,2-Dichloropropane	18.2		µg/l		20.0		91	70-130	12	25
1,1-Dichloropropene	20.8		µg/l		20.0		104	70-130	7	25
cis-1,3-Dichloropropene	19.0		µg/l		20.0		95	70-130	0.7	25
trans-1,3-Dichloropropene	20.8		µg/l		20.0		104	70-130	3	25
Ethylbenzene	19.6		µg/l		20.0		98	70-130	6	25
Hexachlorobutadiene	19.7		µg/l		20.0		99	50.9-165	11	50
2-Hexanone (MBK)	20.5		µg/l		20.0		103	70-130	0.3	25
Isopropylbenzene	19.3		µg/l		20.0		96	70-130	7	25
4-Isopropyltoluene	18.3		µg/l		20.0		91	70-130	6	25
Methyl tert-butyl ether	18.7		µg/l		20.0		93	70-130	0.7	25
4-Methyl-2-pentanone (MIBK)	19.0		µg/l		20.0		95	52.8-134	5	50
Methylene chloride	10.1	QC1, QR5	µg/l		20.0		50	70-130	68	25
Naphthalene	17.7		µg/l		20.0		89	70-130	1	25
n-Propylbenzene	18.2		µg/l		20.0		91	70-130	6	25
Styrene	17.9		µg/l		20.0		90	70-130	4	25
1,1,1,2-Tetrachloroethane	18.9		µg/l		20.0		94	70-130	7	25
1,1,2,2-Tetrachloroethane	19.1		µg/l		20.0		96	70-130	2	25
Tetrachloroethene	19.4		µg/l		20.0		97	70-130	8	25
Toluene	18.1		µg/l		20.0		90	70-130	8	25
1,2,3-Trichlorobenzene	18.2		µg/l		20.0		91	70-130	6	25
1,2,4-Trichlorobenzene	17.8		µg/l		20.0		89	70-130	5	25
1,3,5-Trichlorobenzene	20.4		µg/l		20.0		102	70-130	11	25
1,1,1-Trichloroethane	19.0		µg/l		20.0		95	70-130	8	25
1,1,2-Trichloroethane	18.8		µg/l		20.0		94	70-130	3	25
Trichloroethene	18.5		µg/l		20.0		93	70-130	5	25
Trichlorofluoromethane (Freon 11)	19.9		µg/l		20.0		100	60-147	8	50
1,2,3-Trichloropropane	19.7		µg/l		20.0		98	70-130	0.4	25
1,2,4-Trimethylbenzene	18.8		µg/l		20.0		94	70-130	4	25
1,3,5-Trimethylbenzene	18.6		µg/l		20.0		93	70-130	4	25
Vinyl chloride	16.8		µg/l		20.0		84	70-130	12	25
m,p-Xylene	40.7		µg/l		40.0		102	70-130	5	25
o-Xylene	20.0		µg/l		20.0		100	70-130	7	25
Tetrahydrofuran	18.6		µg/l		20.0		93	70-130	2	25
Ethyl ether	18.1		µg/l		20.0		90	67.1-130	1	50
Tert-amyl methyl ether	18.8		µg/l		20.0		94	70-130	0	25
Ethyl tert-butyl ether	18.6		µg/l		20.0		93	70-130	7	25
Di-isopropyl ether	16.6		µg/l		20.0		83	70-130	8	25
Tert-Butanol / butyl alcohol	97.2	QC1, QR5	µg/l		200		49	70-130	62	25
1,4-Dioxane	202		µg/l		200		101	56.4-130	7	25
trans-1,4-Dichloro-2-butene	18.6		µg/l		20.0		93	70-130	7	25
Ethanol	414		µg/l		400		104	70-130	2	30
Surrogate: 4-Bromofluorobenzene	*49.9*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: Toluene-d8	*49.3*		µg/l		*50.0*		*99*	*70-130*		

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* Reportable Detection Limit BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010800 - SW846 5030 Water MS										
LCS Dup (9010800-BSD1)										
Prepared & Analyzed: 14-Jan-09										
Surrogate: 1,2-Dichloroethane-d4	*47.8*		µg/l		*50.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*50.2*		µg/l		*50.0*		*100*	*70-130*		
Matrix Spike (9010800-MS1)	**Source: SA89692-02**									
Prepared & Analyzed: 14-Jan-09										
Benzene	13.6	QM7	µg/l		20.0	BRL	68	70-130		
Chlorobenzene	20.7		µg/l		20.0	BRL	104	70-130		
1,1-Dichloroethene	3.7	QM7	µg/l		20.0	BRL	18	70-130		
Toluene	18.1		µg/l		20.0	0.5	88	70-130		
Trichloroethene	16.3		µg/l		20.0	BRL	81	70-130		
Surrogate: 4-Bromofluorobenzene	*48.1*		µg/l		*50.0*		*96*	*70-130*		
Surrogate: Toluene-d8	*48.3*		µg/l		*50.0*		*97*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*47.2*		µg/l		*50.0*		*94*	*70-130*		
Surrogate: Dibromofluoromethane	*44.0*		µg/l		*50.0*		*88*	*70-130*		
Matrix Spike Dup (9010800-MSD1)	**Source: SA89692-02**									
Prepared & Analyzed: 14-Jan-09										
Benzene	12.7	QM7	µg/l		20.0	BRL	63	70-130	7	30
Chlorobenzene	20.4		µg/l		20.0	BRL	102	70-130	1	30
1,1-Dichloroethene	2.2	QM7, QR5	µg/l		20.0	BRL	11	70-130	51	30
Toluene	18.0		µg/l		20.0	0.5	87	70-130	0.7	30
Trichloroethene	15.3		µg/l		20.0	BRL	76	70-130	6	30
Surrogate: 4-Bromofluorobenzene	*46.4*		µg/l		*50.0*		*93*	*70-130*		
Surrogate: Toluene-d8	*48.9*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.0*		µg/l		*50.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*50.4*		µg/l		*50.0*		*101*	*70-130*		

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010669 - SW846 3550B										
Blank (9010669-BLK1)										
Prepared & Analyzed: 13-Jan-09										
Acenaphthene	BRL		µg/kg wet	66.5						
Acenaphthylene	BRL		µg/kg wet	66.5						
Anthracene	BRL		µg/kg wet	66.5						
Benzo (a) anthracene	BRL		µg/kg wet	66.5						
Benzo (a) pyrene	BRL		µg/kg wet	66.5						
Benzo (b) fluoranthene	BRL		µg/kg wet	66.5						
Benzo (g,h,i) perylene	BRL		µg/kg wet	66.5						
Benzo (k) fluoranthene	BRL		µg/kg wet	66.5						
Chrysene	BRL		µg/kg wet	66.5						
Dibenzo (a,h) anthracene	BRL		µg/kg wet	66.5						
Fluoranthene	BRL		µg/kg wet	66.5						
Fluorene	BRL		µg/kg wet	66.5						
Indeno (1,2,3-cd) pyrene	BRL		µg/kg wet	66.5						
1-Methylnaphthalene	BRL		µg/kg wet	66.5						
2-Methylnaphthalene	BRL		µg/kg wet	66.5						
Naphthalene	BRL		µg/kg wet	66.5						
Phenanthrene	BRL		µg/kg wet	66.5						
Pyrene	BRL		µg/kg wet	66.5						
Surrogate: 2-Fluorobiphenyl	*2210*		µg/kg wet		*3330*		*66*	*30-130*		
Surrogate: Terphenyl-d14	*2540*		µg/kg wet		*3330*		*76*	*30-130*		
LCS (9010669-BS1)										
Prepared & Analyzed: 13-Jan-09										
Acenaphthene	2580		µg/kg wet	66.5	3330		77	40-140		
Acenaphthylene	2480		µg/kg wet	66.5	3330		74	40-140		
Anthracene	2390		µg/kg wet	66.5	3330		72	40-140		
Benzo (a) anthracene	2930		µg/kg wet	66.5	3330		88	40-140		
Benzo (a) pyrene	2480		µg/kg wet	66.5	3330		74	40-140		
Benzo (b) fluoranthene	2560		µg/kg wet	66.5	3330		77	40-140		
Benzo (g,h,i) perylene	2420		µg/kg wet	66.5	3330		73	40-140		
Benzo (k) fluoranthene	2470		µg/kg wet	66.5	3330		74	40-140		
Chrysene	3050		µg/kg wet	66.5	3330		91	40-140		
Dibenzo (a,h) anthracene	2520		µg/kg wet	66.5	3330		76	40-140		
Fluoranthene	2400		µg/kg wet	66.5	3330		72	40-140		
Fluorene	2450		µg/kg wet	66.5	3330		73	40-140		
Indeno (1,2,3-cd) pyrene	2610		µg/kg wet	66.5	3330		78	40-140		
1-Methylnaphthalene	2540		µg/kg wet	66.5	3330		76	40-140		
2-Methylnaphthalene	2770		µg/kg wet	66.5	3330		83	40-140		
Naphthalene	2390		µg/kg wet	66.5	3330		72	40-140		
Phenanthrene	2400		µg/kg wet	66.5	3330		72	40-140		
Pyrene	2990		µg/kg wet	66.5	3330		90	40-140		
Surrogate: 2-Fluorobiphenyl	*2430*		µg/kg wet		*3330*		*73*	*30-130*		
Surrogate: Terphenyl-d14	*2640*		µg/kg wet		*3330*		*79*	*30-130*		
Duplicate (9010669-DUP1) **Source: SA89650-03**										
Prepared: 13-Jan-09 Analyzed: 14-Jan-09										
Acenaphthene	BRL		µg/kg dry	85.2		BRL				50
Acenaphthylene	BRL		µg/kg dry	85.2		BRL				50
Anthracene	BRL		µg/kg dry	85.2		BRL				50
Benzo (a) anthracene	BRL		µg/kg dry	85.2		BRL				50
Benzo (a) pyrene	BRL		µg/kg dry	85.2		BRL				50

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010669 - SW846 3550B										
Duplicate (9010669-DUP1) **Source: SA89650-03**										
Prepared: 13-Jan-09 Analyzed: 14-Jan-09										
Benzo (b) fluoranthene	BRL		µg/kg dry	85.2		BRL				50
Benzo (g,h,i) perylene	BRL		µg/kg dry	85.2		BRL				50
Benzo (k) fluoranthene	BRL		µg/kg dry	85.2		BRL				50
Chrysene	BRL		µg/kg dry	85.2		BRL				50
Dibenzo (a,h) anthracene	BRL		µg/kg dry	85.2		BRL				50
Fluoranthene	BRL		µg/kg dry	85.2		BRL				50
Fluorene	BRL		µg/kg dry	85.2		BRL				50
Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	85.2		BRL				50
1-Methylnaphthalene	BRL		µg/kg dry	85.2		BRL				50
2-Methylnaphthalene	BRL		µg/kg dry	85.2		BRL				50
Naphthalene	BRL		µg/kg dry	85.2		BRL				50
Phenanthrene	BRL		µg/kg dry	85.2		BRL				50
Pyrene	BRL		µg/kg dry	85.2		BRL				50
Surrogate: 2-Fluorobiphenyl	*1070*		µg/kg dry		*2140*		*50*	*30-130*		
Surrogate: Terphenyl-dl4	*1260*		µg/kg dry		*2140*		*59*	*30-130*		
Matrix Spike (9010669-MS1) **Source: SA89650-03**										
Prepared: 13-Jan-09 Analyzed: 14-Jan-09										
Acenaphthene	1230		µg/kg dry	43.4	2170	BRL	56	40-140		
Pyrene	1570		µg/kg dry	43.4	2170	BRL	72	40-140		
Surrogate: 2-Fluorobiphenyl	*1030*		µg/kg dry		*2170*		*47*	*30-130*		
Surrogate: Terphenyl-dl4	*1200*		µg/kg dry		*2170*		*55*	*30-130*		
Matrix Spike Dup (9010669-MSD1) **Source: SA89650-03**										
Prepared: 13-Jan-09 Analyzed: 14-Jan-09										
Acenaphthene	1460		µg/kg dry	42.9	2150	BRL	68	40-140	19	30
Pyrene	1660		µg/kg dry	42.9	2150	BRL	77	40-140	7	30
Surrogate: 2-Fluorobiphenyl	*1260*		µg/kg dry		*2150*		*58*	*30-130*		
Surrogate: Terphenyl-dl4	*1360*		µg/kg dry		*2150*		*63*	*30-130*		
Batch 9010681 - SW846 3510C										
Blank (9010681-BLK1)										
Prepared & Analyzed: 13-Jan-09										
Acenaphthene	BRL		µg/l	0.050						
Acenaphthylene	BRL		µg/l	0.050						
1-Methylnaphthalene	BRL		µg/l	0.050						
Anthracene	BRL		µg/l	0.050						
Benzo (a) anthracene	BRL		µg/l	0.050						
Benzo (a) pyrene	BRL		µg/l	0.050						
Benzo (b) fluoranthene	BRL		µg/l	0.050						
Benzo (g,h,i) perylene	BRL		µg/l	0.050						
Benzo (k) fluoranthene	BRL		µg/l	0.050						
Chrysene	BRL		µg/l	0.050						
Dibenzo (a,h) anthracene	BRL		µg/l	0.050						
Fluoranthene	BRL		µg/l	0.050						
Fluorene	BRL		µg/l	0.050						
Indeno (1,2,3-cd) pyrene	BRL		µg/l	0.050						
2-Methylnaphthalene	BRL		µg/l	0.050						
Naphthalene	BRL		µg/l	0.050						
Phenanthrene	BRL		µg/l	0.050						
Pyrene	BRL		µg/l	0.050						
Hexachlorobenzene	BRL		µg/l	1.00						

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010681 - SW846 3510C										
Blank (9010681-BLK1)										
Prepared & Analyzed: 13-Jan-09										
Hexachloroethane	BRL		µg/l	1.00						
Pentachlorophenol	BRL		µg/l	1.00						
Hexachlorobutadiene	BRL		µg/l	0.500						
Surrogate: 2-Fluorobiphenyl	*32.3*		µg/l		*50.0*		*65*	*30-130*		
Surrogate: Terphenyl-dl4	*38.9*		µg/l		*50.0*		*78*	*30-130*		
LCS (9010681-BS1)										
Prepared & Analyzed: 13-Jan-09										
Acenaphthene	39.8		µg/l	0.050	50.0		80	40-140		
Acenaphthylene	38.4		µg/l	0.050	50.0		77	40-140		
1-Methylnaphthalene	38.7		µg/l	0.050	50.0		77	40-140		
Anthracene	36.7		µg/l	0.050	50.0		73	40-140		
Benzo (a) anthracene	46.0		µg/l	0.050	50.0		92	40-140		
Benzo (a) pyrene	38.6		µg/l	0.050	50.0		77	40-140		
Benzo (b) fluoranthene	41.2		µg/l	0.050	50.0		82	40-140		
Benzo (g,h,i) perylene	39.3		µg/l	0.050	50.0		79	40-140		
Benzo (k) fluoranthene	35.7		µg/l	0.050	50.0		71	40-140		
Chrysene	46.0		µg/l	0.050	50.0		92	40-140		
Dibenzo (a,h) anthracene	40.6		µg/l	0.050	50.0		81	40-140		
Fluoranthene	37.0		µg/l	0.050	50.0		74	40-140		
Fluorene	37.7		µg/l	0.050	50.0		75	40-140		
Indeno (1,2,3-cd) pyrene	41.5		µg/l	0.050	50.0		83	40-140		
2-Methylnaphthalene	39.5		µg/l	0.050	50.0		79	40-140		
Naphthalene	35.3		µg/l	0.050	50.0		71	40-140		
Phenanthrene	38.1		µg/l	0.050	50.0		76	40-140		
Pyrene	47.0		µg/l	0.050	50.0		94	40-140		
Hexachlorobenzene	33.6		µg/l	1.00	50.0		67	40-140		
Hexachloroethane	33.1		µg/l	1.00	50.0		66	40-140		
Pentachlorophenol	39.8		µg/l	1.00	50.0		80	30-130		
Hexachlorobutadiene	32.3		µg/l	0.500	50.0		65	40-140		
Surrogate: 2-Fluorobiphenyl	*36.0*		µg/l		*50.0*		*72*	*30-130*		
Surrogate: Terphenyl-dl4	*40.8*		µg/l		*50.0*		*82*	*30-130*		

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010678 - SW846 3550B										
Blank (9010678-BLK1)										
Prepared & Analyzed: 13-Jan-09										
PCB 1016	BRL		µg/kg wet	20.0						
PCB 1221	BRL		µg/kg wet	20.0						
PCB 1232	BRL		µg/kg wet	20.0						
PCB 1242	BRL		µg/kg wet	20.0						
PCB 1248	BRL		µg/kg wet	20.0						
PCB 1254	BRL		µg/kg wet	20.0						
PCB 1260	BRL		µg/kg wet	20.0						
PCB 1262	BRL		µg/kg wet	20.0						
PCB 1268	BRL		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.2*		µg/kg wet		*20.0*		*101*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*19.2*		µg/kg wet		*20.0*		*96*	*30-150*		
LCS (9010678-BS1)										
Prepared & Analyzed: 13-Jan-09										
PCB 1016	225		µg/kg wet	20.0	250		90	40-140		
PCB 1260	224		µg/kg wet	20.0	250		90	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*18.7*		µg/kg wet		*20.0*		*94*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.9*		µg/kg wet		*20.0*		*90*	*30-150*		
LCS Dup (9010678-BSD1)										
Prepared & Analyzed: 13-Jan-09										
PCB 1016	232		µg/kg wet	20.0	250		93	40-140	3	30
PCB 1260	233		µg/kg wet	20.0	250		93	40-140	4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*18.5*		µg/kg wet		*20.0*		*92*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.5*		µg/kg wet		*20.0*		*88*	*30-150*		
Duplicate (9010678-DUP1) **Source: SA89692-03**										
Prepared & Analyzed: 13-Jan-09										
PCB 1016	BRL		µg/kg dry	25.2		BRL				40
PCB 1221	BRL		µg/kg dry	25.2		BRL				40
PCB 1232	BRL		µg/kg dry	25.2		BRL				40
PCB 1242	BRL		µg/kg dry	25.2		BRL				40
PCB 1248	BRL		µg/kg dry	25.2		BRL				40
PCB 1254	BRL		µg/kg dry	25.2		BRL				40
PCB 1260	BRL		µg/kg dry	25.2		BRL				40
PCB 1262	BRL		µg/kg dry	25.2		BRL				40
PCB 1268	BRL		µg/kg dry	25.2		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*25.0*		µg/kg dry		*25.2*		*99*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*25.1*		µg/kg dry		*25.2*		*99*	*30-150*		
Matrix Spike (9010678-MS1) **Source: SA89692-03**										
Prepared & Analyzed: 13-Jan-09										
PCB 1016	274		µg/kg dry	24.2	303	BRL	91	40-140		
PCB 1260	308		µg/kg dry	24.2	303	BRL	102	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*23.8*		µg/kg dry		*24.2*		*98*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*23.2*		µg/kg dry		*24.2*		*96*	*30-150*		
Matrix Spike Dup (9010678-MSD1) **Source: SA89692-03**										
Prepared & Analyzed: 13-Jan-09										
PCB 1016	298		µg/kg dry	25.4	317	BRL	94	40-140	4	50
PCB 1260	327		µg/kg dry	25.4	317	BRL	103	40-140	1	50
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*26.0*		µg/kg dry		*25.4*		*102*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*26.3*		µg/kg dry		*25.4*		*104*	*30-150*		
Batch 9010680 - SW846 3510C										

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010680 - SW846 3510C										
Blank (9010680-BLK1)										
Prepared & Analyzed: 13-Jan-09										
PCB 1016	BRL		µg/l	0.200						
PCB 1221	BRL		µg/l	0.200						
PCB 1232	BRL		µg/l	0.200						
PCB 1242	BRL		µg/l	0.200						
PCB 1248	BRL		µg/l	0.200						
PCB 1254	BRL		µg/l	0.200						
PCB 1260	BRL		µg/l	0.200						
PCB 1262	BRL		µg/l	0.200						
PCB 1268	BRL		µg/l	0.200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.213*		µg/l		*0.200*		*106*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.235*		µg/l		*0.200*		*118*	*30-150*		
LCS (9010680-BS1)										
Prepared & Analyzed: 13-Jan-09										
PCB 1016	2.64		µg/l	0.200	2.50		105	40-140		
PCB 1260	2.84		µg/l	0.200	2.50		114	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.163*		µg/l		*0.200*		*82*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.229*		µg/l		*0.200*		*114*	*30-150*		
LCS Dup (9010680-BSD1)										
Prepared & Analyzed: 13-Jan-09										
PCB 1016	2.60		µg/l	0.200	2.50		104	40-140	1	20
PCB 1260	2.81		µg/l	0.200	2.50		112	40-140	1	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.161*		µg/l		*0.200*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.224*		µg/l		*0.200*		*112*	*30-150*		
Batch 9010811 - SW846 3550B										
Blank (9010811-BLK1)										
Prepared: 14-Jan-09 Analyzed: 15-Jan-09										
2,4,5-T	BRL		µg/kg wet	6.70						
2,4,5-T [2C]	BRL		µg/kg wet	6.70						
2,4,5-TP (Silvex)	BRL		µg/kg wet	6.70						
2,4,5-TP (Silvex) [2C]	BRL		µg/kg wet	6.70						
2,4-D	BRL		µg/kg wet	6.70						
2,4-D [2C]	BRL		µg/kg wet	6.70						
2,4-DB	BRL		µg/kg wet	6.70						
2,4-DB [2C]	BRL		µg/kg wet	6.70						
Dalapon	BRL		µg/kg wet	6.70						
Dalapon [2C]	BRL		µg/kg wet	6.70						
Dicamba	BRL		µg/kg wet	6.70						
Dicamba [2C]	BRL		µg/kg wet	6.70						
Dichlorprop	BRL		µg/kg wet	6.70						
Dichlorprop [2C]	BRL		µg/kg wet	6.70						
Dinoseb	BRL		µg/kg wet	6.70						
Dinoseb [2C]	BRL		µg/kg wet	6.70						
MCPA	BRL		µg/kg wet	670						
MCPA [2C]	BRL		µg/kg wet	670						
MCPB	BRL		µg/kg wet	670						
MCPB [2C]	BRL		µg/kg wet	670						
MCPP	BRL		µg/kg wet	670						
MCPP [2C]	BRL		µg/kg wet	670						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*17.6*		µg/kg wet		*13.3*		*132*	*30-150*		

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010811 - SW846 3550B										
Blank (9010811-BLK1)										
Prepared: 14-Jan-09 Analyzed: 15-Jan-09										
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*15.9*		µg/kg wet		*13.3*		*119*	*30-150*		
LCS (9010811-BS1)										
Prepared: 14-Jan-09 Analyzed: 15-Jan-09										
2,4,5-T	26.4		µg/kg wet	6.70	33.3		79	40-140		
2,4,5-T [2C]	29.5		µg/kg wet	6.70	33.3		89	40-140		
2,4,5-TP (Silvex)	28.4		µg/kg wet	6.70	33.3		85	40-140		
2,4,5-TP (Silvex) [2C]	30.9		µg/kg wet	6.70	33.3		93	40-140		
2,4-D	23.7		µg/kg wet	6.70	33.3		71	40-140		
2,4-D [2C]	27.0		µg/kg wet	6.70	33.3		81	40-140		
2,4-DB	28.5		µg/kg wet	6.70	33.3		86	40-140		
2,4-DB [2C]	29.5		µg/kg wet	6.70	33.3		88	40-140		
Dalapon	24.3		µg/kg wet	6.70	33.3		73	40-140		
Dalapon [2C]	19.7		µg/kg wet	6.70	33.3		59	40-140		
Dicamba	29.0		µg/kg wet	6.70	33.3		87	40-140		
Dicamba [2C]	29.0		µg/kg wet	6.70	33.3		87	40-140		
Dichlorprop	31.7		µg/kg wet	6.70	33.3		95	40-140		
Dichlorprop [2C]	32.5		µg/kg wet	6.70	33.3		97	40-140		
Dinoseb	27.7		µg/kg wet	6.70	33.3		83	40-140		
Dinoseb [2C]	28.8		µg/kg wet	6.70	33.3		86	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*15.9*		µg/kg wet		*13.3*		*119*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*15.1*		µg/kg wet		*13.3*		*113*	*30-150*		
LCS (9010811-BS2)										
Prepared: 14-Jan-09 Analyzed: 15-Jan-09										
MCPA	12500		µg/kg wet	670	10000		125	40-140		
MCPA [2C]	11000		µg/kg wet	670	10000		110	40-140		
MCPB	13400		µg/kg wet	670	10000		134	40-140		
MCPB [2C]	12100		µg/kg wet	670	10000		121	40-140		
MCPP	11500		µg/kg wet	670	10000		115	40-140		
MCPP [2C]	12500		µg/kg wet	670	10000		125	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*18.2*		µg/kg wet		*13.3*		*136*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*17.4*		µg/kg wet		*13.3*		*130*	*30-150*		
LCS Dup (9010811-BSD1)										
Prepared: 14-Jan-09 Analyzed: 15-Jan-09										
2,4,5-T	30.3		µg/kg wet	6.70	33.3		91	40-140	14	25
2,4,5-T [2C]	29.0		µg/kg wet	6.70	33.3		87	40-140	2	25
2,4,5-TP (Silvex)	29.8		µg/kg wet	6.70	33.3		89	40-140	5	25
2,4,5-TP (Silvex) [2C]	30.7		µg/kg wet	6.70	33.3		92	40-140	0.4	25
2,4-D	23.7		µg/kg wet	6.70	33.3		71	40-140	0.3	25
2,4-D [2C]	28.3		µg/kg wet	6.70	33.3		85	40-140	5	25
2,4-DB	33.0		µg/kg wet	6.70	33.3		99	40-140	15	25
2,4-DB [2C]	34.3		µg/kg wet	6.70	33.3		103	40-140	15	25
Dalapon	23.9		µg/kg wet	6.70	33.3		72	40-140	1	25
Dalapon [2C]	21.3		µg/kg wet	6.70	33.3		64	40-140	7	25
Dicamba	30.4		µg/kg wet	6.70	33.3		91	40-140	5	25
Dicamba [2C]	28.8		µg/kg wet	6.70	33.3		86	40-140	0.7	25
Dichlorprop	33.5		µg/kg wet	6.70	33.3		101	40-140	6	25
Dichlorprop [2C]	32.6		µg/kg wet	6.70	33.3		98	40-140	0.4	25
Dinoseb	29.9		µg/kg wet	6.70	33.3		90	40-140	8	25
Dinoseb [2C]	30.3		µg/kg wet	6.70	33.3		91	40-140	5	25

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010811 - SW846 3550B										
LCS Dup (9010811-BSD1)										
Prepared: 14-Jan-09 Analyzed: 15-Jan-09										
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*16.2*		µg/kg wet		*13.3*		*122*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*15.5*		µg/kg wet		*13.3*		*116*	*30-150*		
LCS Dup (9010811-BSD2)										
Prepared: 14-Jan-09 Analyzed: 15-Jan-09										
MCPA	12300		µg/kg wet	670	10000		123	40-140	1	25
MCPA [2C]	10700		µg/kg wet	670	10000		107	40-140	3	25
MCPB	12700		µg/kg wet	670	10000		127	40-140	6	25
MCPB [2C]	12400		µg/kg wet	670	10000		124	40-140	2	25
MCPP	11700		µg/kg wet	670	10000		117	40-140	1	25
MCPP [2C]	12500		µg/kg wet	670	10000		125	40-140	0.5	25
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*18.5*		µg/kg wet		*13.3*		*139*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*16.9*		µg/kg wet		*13.3*		*127*	*30-150*		
Duplicate (9010811-DUP1) **Source: SA89692-04**										
Prepared: 14-Jan-09 Analyzed: 15-Jan-09										
2,4,5-T	BRL		µg/kg dry	6.70		BRL				30
2,4,5-T [2C]	BRL		µg/kg dry	6.70		BRL				30
2,4,5-TP (Silvex)	BRL		µg/kg dry	6.70		BRL				30
2,4,5-TP (Silvex) [2C]	BRL		µg/kg dry	6.70		BRL				30
2,4-D	BRL		µg/kg dry	6.70		BRL				30
2,4-D [2C]	BRL		µg/kg dry	6.70		BRL				30
2,4-DB	BRL		µg/kg dry	6.70		BRL				30
2,4-DB [2C]	BRL		µg/kg dry	6.70		BRL				30
Dalapon	BRL		µg/kg dry	6.70		BRL				30
Dalapon [2C]	BRL		µg/kg dry	6.70		BRL				30
Dicamba	BRL		µg/kg dry	6.70		BRL				30
Dicamba [2C]	BRL		µg/kg dry	6.70		BRL				30
Dichlorprop	BRL		µg/kg dry	6.70		BRL				30
Dichlorprop [2C]	BRL		µg/kg dry	6.70		BRL				30
Dinoseb	BRL		µg/kg dry	6.70		BRL				30
Dinoseb [2C]	BRL		µg/kg dry	6.70		BRL				30
MCPA	BRL		µg/kg dry	670		BRL				30
MCPA [2C]	BRL		µg/kg dry	670		BRL				30
MCPB	BRL		µg/kg dry	670		BRL				30
MCPB [2C]	BRL		µg/kg dry	670		BRL				30
MCPP	BRL		µg/kg dry	670		BRL				30
MCPP [2C]	BRL		µg/kg dry	670		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*13.6*		µg/kg dry		*17.1*		*80*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*12.9*		µg/kg dry		*17.1*		*75*	*30-150*		
Batch 9010876 - SW846 3510C										
Blank (9010876-BLK1)										
Prepared: 15-Jan-09 Analyzed: 16-Jan-09										
2,4,5-T	BRL		µg/l	0.100						
2,4,5-T [2C]	BRL		µg/l	0.100						
2,4,5-TP (Silvex)	BRL		µg/l	0.100						
2,4,5-TP (Silvex) [2C]	BRL		µg/l	0.100						
2,4-D	BRL		µg/l	0.100						
2,4-D [2C]	BRL		µg/l	0.100						
2,4-DB	BRL		µg/l	0.100						
2,4-DB [2C]	BRL		µg/l	0.100						

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010876 - SW846 3510C										
Blank (9010876-BLK1)										
Prepared: 15-Jan-09 Analyzed: 16-Jan-09										
Dalapon	BRL		µg/l	0.100						
Dalapon [2C]	BRL		µg/l	0.100						
Dicamba	BRL		µg/l	0.100						
Dicamba [2C]	BRL		µg/l	0.100						
Dichlorprop	BRL		µg/l	0.100						
Dichlorprop [2C]	BRL		µg/l	0.100						
Dinoseb	BRL		µg/l	0.100						
Dinoseb [2C]	BRL		µg/l	0.100						
MCPA	BRL		µg/l	1.50						
MCPA [2C]	BRL		µg/l	1.50						
MCPB	BRL		µg/l	1.50						
MCPB [2C]	BRL		µg/l	1.50						
MCPP	BRL		µg/l	1.50						
MCPP [2C]	BRL		µg/l	1.50						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.179*		µg/l		*0.200*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*0.170*		µg/l		*0.200*		*85*	*30-150*		
LCS (9010876-BS1)										
Prepared: 15-Jan-09 Analyzed: 16-Jan-09										
2,4,5-T	0.386		µg/l	0.100	0.500		77	40-140		
2,4,5-T [2C]	0.439		µg/l	0.100	0.500		88	40-140		
2,4,5-TP (Silvex)	0.420		µg/l	0.100	0.500		84	40-140		
2,4,5-TP (Silvex) [2C]	0.448		µg/l	0.100	0.500		90	40-140		
2,4-D	0.405		µg/l	0.100	0.500		81	40-140		
2,4-D [2C]	0.431		µg/l	0.100	0.500		86	40-140		
2,4-DB	0.479		µg/l	0.100	0.500		96	40-140		
2,4-DB [2C]	0.463		µg/l	0.100	0.500		93	40-140		
Dalapon	0.349		µg/l	0.100	0.500		70	40-140		
Dalapon [2C]	0.348		µg/l	0.100	0.500		70	40-140		
Dicamba	0.414		µg/l	0.100	0.500		83	40-140		
Dicamba [2C]	0.416		µg/l	0.100	0.500		83	40-140		
Dichlorprop	0.442		µg/l	0.100	0.500		88	40-140		
Dichlorprop [2C]	0.423		µg/l	0.100	0.500		85	40-140		
Dinoseb	0.404		µg/l	0.100	0.500		81	40-140		
Dinoseb [2C]	0.417		µg/l	0.100	0.500		83	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.156*		µg/l		*0.200*		*78*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*0.165*		µg/l		*0.200*		*82*	*30-150*		
LCS (9010876-BS2)										
Prepared: 15-Jan-09 Analyzed: 16-Jan-09										
MCPA	134		µg/l	1.50	150		89	40-140		
MCPA [2C]	133		µg/l	1.50	150		89	40-140		
MCPB	142		µg/l	1.50	150		95	40-140		
MCPB [2C]	151		µg/l	1.50	150		101	40-140		
MCPP	141		µg/l	1.50	150		94	40-140		
MCPP [2C]	141		µg/l	1.50	150		94	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.158*		µg/l		*0.200*		*79*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*0.161*		µg/l		*0.200*		*80*	*30-150*		
LCS Dup (9010876-BSD1)										
Prepared: 15-Jan-09 Analyzed: 16-Jan-09										
2,4,5-T	0.452		µg/l	0.100	0.500		90	40-140	16	25

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010876 - SW846 3510C										
LCS Dup (9010876-BSD1)										
Prepared: 15-Jan-09 Analyzed: 16-Jan-09										
2,4,5-T [2C]	0.476		µg/l	0.100	0.500		95	40-140	8	25
2,4,5-TP (Silvex)	0.474		µg/l	0.100	0.500		95	40-140	12	25
2,4,5-TP (Silvex) [2C]	0.481		µg/l	0.100	0.500		96	40-140	7	25
2,4-D	0.418		µg/l	0.100	0.500		84	40-140	3	25
2,4-D [2C]	0.437		µg/l	0.100	0.500		87	40-140	1	25
2,4-DB	0.498		µg/l	0.100	0.500		100	40-140	4	25
2,4-DB [2C]	0.503		µg/l	0.100	0.500		101	40-140	8	25
Dalapon	0.325		µg/l	0.100	0.500		65	40-140	7	25
Dalapon [2C]	0.323		µg/l	0.100	0.500		65	40-140	7	25
Dicamba	0.445		µg/l	0.100	0.500		89	40-140	7	25
Dicamba [2C]	0.433		µg/l	0.100	0.500		87	40-140	4	25
Dichlorprop	0.517		µg/l	0.100	0.500		103	40-140	16	25
Dichlorprop [2C]	0.452		µg/l	0.100	0.500		90	40-140	7	25
Dinoseb	0.460		µg/l	0.100	0.500		92	40-140	13	25
Dinoseb [2C]	0.458		µg/l	0.100	0.500		92	40-140	9	25
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.172*		µg/l		*0.200*		*86*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*0.176*		µg/l		*0.200*		*88*	*30-150*		
LCS Dup (9010876-BSD2)										
Prepared: 15-Jan-09 Analyzed: 16-Jan-09										
MCPA	136		µg/l	1.50	150		91	40-140	1	25
MCPA [2C]	136		µg/l	1.50	150		91	40-140	2	25
MCPB	149		µg/l	1.50	150		99	40-140	5	25
MCPB [2C]	148		µg/l	1.50	150		99	40-140	2	25
MCPP	148		µg/l	1.50	150		99	40-140	5	25
MCPP [2C]	154		µg/l	1.50	150		103	40-140	9	25
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.162*		µg/l		*0.200*		*81*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2	*0.164*		µg/l		*0.200*		*82*	*30-150*		

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010672 - SW846 3550B										
Blank (9010672-BLK1)										
Prepared: 13-Jan-09 Analyzed: 14-Jan-09										
Gasoline	BRL		mg/kg wet	13.3						
Fuel Oil #2	BRL		mg/kg wet	13.3						
Fuel Oil #4	BRL		mg/kg wet	13.3						
Fuel Oil #6	BRL		mg/kg wet	13.3						
Motor Oil	BRL		mg/kg wet	13.3						
Aviation Fuel	BRL		mg/kg wet	13.3						
Unidentified	BRL		mg/kg wet	13.3						
Other Oil	BRL		mg/kg wet	13.3						
Total Petroleum Hydrocarbons	BRL		mg/kg wet	13.3						
C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg wet	13.3						
Surrogate: 1-Chlorooctadecane	*3.22*		mg/kg wet		*3.33*		*97*	*50-150*		
LCS (9010672-BS1)										
Prepared: 13-Jan-09 Analyzed: 14-Jan-09										
C9-C36 Aliphatic Hydrocarbons	95.3		mg/kg wet	13.3	93.3		102	60-120		
Surrogate: 1-Chlorooctadecane	*3.33*		mg/kg wet		*3.33*		*100*	*50-150*		
Duplicate (9010672-DUP1) **Source: SA89650-03**										
Prepared: 13-Jan-09 Analyzed: 14-Jan-09										
Gasoline	BRL		mg/kg dry	17.0		BRL				50
Fuel Oil #2	BRL		mg/kg dry	17.0		BRL				50
Fuel Oil #4	BRL		mg/kg dry	17.0		BRL				50
Fuel Oil #6	BRL		mg/kg dry	17.0		BRL				50
Motor Oil	BRL		mg/kg dry	17.0		BRL				50
Aviation Fuel	BRL		mg/kg dry	17.0		BRL				50
Unidentified	BRL		mg/kg dry	17.0		BRL				50
Other Oil	BRL		mg/kg dry	17.0		BRL				50
Total Petroleum Hydrocarbons	BRL		mg/kg dry	17.0		BRL				50
C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	17.0		BRL				50
Surrogate: 1-Chlorooctadecane	*2.05*		mg/kg dry		*2.14*		*96*	*50-150*		
Matrix Spike (9010672-MS1) **Source: SA89650-03**										
Prepared: 13-Jan-09 Analyzed: 14-Jan-09										
C9-C36 Aliphatic Hydrocarbons	105		mg/kg dry	16.6	117	BRL	90	50-150		
Surrogate: 1-Chlorooctadecane	*3.68*		mg/kg dry		*4.17*		*88*	*50-150*		
Matrix Spike Dup (9010672-MSD1) **Source: SA89650-03**										
Prepared: 13-Jan-09 Analyzed: 14-Jan-09										
C9-C36 Aliphatic Hydrocarbons	116		mg/kg dry	16.9	119	BRL	97	50-150	8	30
Surrogate: 1-Chlorooctadecane	*4.06*		mg/kg dry		*4.24*		*96*	*50-150*		
Batch 9010682 - SW846 3510C										
Blank (9010682-BLK1)										
Prepared: 13-Jan-09 Analyzed: 14-Jan-09										
Gasoline	BRL		mg/l	0.05						
Fuel Oil #2	BRL		mg/l	0.05						
Fuel Oil #4	BRL		mg/l	0.05						
Fuel Oil #6	BRL		mg/l	0.05						
Motor Oil	BRL		mg/l	0.05						
Aviation Fuel	BRL		mg/l	0.05						
Unidentified	BRL		mg/l	0.05						
Other Oil	BRL		mg/l	0.05						

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010682 - SW846 3510C										
Blank (9010682-BLK1)										
Prepared: 13-Jan-09 Analyzed: 14-Jan-09										
Total Petroleum Hydrocarbons	BRL		mg/l	0.05						
C9-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.05						
Surrogate: 1-Chlorooctadecane	*0.0267*		mg/l		*0.0500*		*53*	*50-150*		
LCS (9010682-BS1)										
Prepared: 13-Jan-09 Analyzed: 14-Jan-09										
C9-C36 Aliphatic Hydrocarbons	1.3		mg/l	0.05	1.40		96	60-120		
Surrogate: 1-Chlorooctadecane	*0.0366*		mg/l		*0.0500*		*73*	*50-150*		

Total 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 9010634 - SW846 3050B										
Blank (9010634-BLK1)										
Prepared: 15-Jan-09 Analyzed: 16-Jan-09										
Selenium	BRL		mg/kg wet	1.35						
Lead	BRL		mg/kg wet	1.35						
Silver	BRL		mg/kg wet	1.35						
Chromium	BRL		mg/kg wet	0.902						
Arsenic	BRL		mg/kg wet	1.35						
Cadmium	BRL		mg/kg wet	0.451						
Barium	BRL		mg/kg wet	0.902						
Duplicate (9010634-DUP1) **Source: SA89692-03**										
Prepared: 15-Jan-09 Analyzed: 16-Jan-09										
Selenium	1.91		mg/kg dry	1.69		1.57			19	20
Lead	7.46	QR6	mg/kg dry	1.69		13.8			60	20
Cadmium	0.490	J	mg/kg dry	0.563		0.499			2	20
Silver	BRL		mg/kg dry	1.69		BRL				20
Arsenic	5.04		mg/kg dry	1.69		6.15			20	20
Chromium	7.57	QR9	mg/kg dry	1.13		9.30			21	20
Barium	27.5	QR9	mg/kg dry	1.13		36.1			27	20
Matrix Spike (9010634-MS1) **Source: SA89727-02**										
Prepared: 15-Jan-09 Analyzed: 16-Jan-09										
Lead	2610	QM2	mg/kg dry	1.89	157	1300	837	75-125		
Selenium	138		mg/kg dry	1.89	157	5.13	84	75-125		
Chromium	259	QM9	mg/kg dry	1.26	157	227	20	75-125		
Cadmium	177		mg/kg dry	0.629	157	19.9	100	75-125		
Silver	115	QM8	mg/kg dry	1.89	157	12.1	65	75-125		
Arsenic	169		mg/kg dry	1.89	157	21.3	94	75-125		
Barium	1280	QM2	mg/kg dry	1.26	157	1630	-224	75-125		
Matrix Spike Dup (9010634-MSD1) **Source: SA89727-02**										
Prepared: 15-Jan-09 Analyzed: 16-Jan-09										
Selenium	129		mg/kg dry	1.87	156	5.13	79	75-125	7	20
Lead	2740	QM2	mg/kg dry	1.87	156	1300	924	75-125	5	20
Arsenic	157		mg/kg dry	1.87	156	21.3	87	75-125	8	20
Cadmium	179		mg/kg dry	0.624	156	19.9	102	75-125	1	20
Silver	170	QR7	mg/kg dry	1.87	156	12.1	101	75-125	39	20
Chromium	508	QM9, QR9	mg/kg dry	1.25	156	227	180	75-125	65	20
Barium	1590	QM2	mg/kg dry	1.25	156	1630	-26	75-125	22	20
Post Spike (9010634-PS1) **Source: SA89727-02**										
Prepared: 15-Jan-09 Analyzed: 16-Jan-09										
Lead	6340	QM2	mg/kg dry	1.73	144	1300	3500	80-120		
Selenium	151		mg/kg dry	1.73	144	5.13	101	80-120		
Silver	162		mg/kg dry	1.73	144	12.1	104	80-120		
Arsenic	169		mg/kg dry	1.73	144	21.3	102	80-120		
Cadmium	164		mg/kg dry	0.577	144	19.9	100	80-120		
Barium	1930	QM2	mg/kg dry	1.15	144	1630	204	80-120		
Reference (9010634-SRM1)										
Prepared: 15-Jan-09 Analyzed: 16-Jan-09										
Selenium	143		mg/kg wet	1.50	144		99	76.6-123.1		
Lead	42.3		mg/kg wet	1.50	43.4		97	78.8-120.9		
Cadmium	30.7		mg/kg wet	0.500	30.6		100	80.9-119.3		

Total 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 9010634 - SW846 3050B										
Reference (9010634-SRM1)										
Prepared: 15-Jan-09 Analyzed: 16-Jan-09										
Silver	14.6		mg/kg wet	1.50	15.2		96	66.4-133.6		
Chromium	123		mg/kg wet	1.00	119		103	79.7-120.3		
Arsenic	50.3		mg/kg wet	1.50	52.5		96	77.6-123.1		
Barium	118		mg/kg wet	1.00	99.9		119	79.8-119.7		
Reference (9010634-SRM2)										
Prepared: 15-Jan-09 Analyzed: 16-Jan-09										
Lead	44.7		mg/kg wet	1.50	43.9		102	78.8-120.9		
Selenium	148		mg/kg wet	1.50	146		101	76.6-123.1		
Cadmium	31.6		mg/kg wet	0.500	31.0		102	80.9-119.3		
Arsenic	52.8		mg/kg wet	1.50	53.1		99	77.6-123.1		
Silver	15.1		mg/kg wet	1.50	15.4		98	66.4-133.6		
Chromium	125		mg/kg wet	1.00	121		104	79.7-120.3		
Barium	104		mg/kg wet	1.00	101		103	79.8-119.7		
Batch 9010635 - EPA200/SW7000 Series										
Blank (9010635-BLK1)										
Prepared: 13-Jan-09 Analyzed: 16-Jan-09										
Mercury	BRL		mg/kg wet	0.0292						
Duplicate (9010635-DUP1) **Source: SA89692-03**										
Prepared: 13-Jan-09 Analyzed: 16-Jan-09										
Mercury	BRL		mg/kg dry	0.0331		BRL				20
Matrix Spike (9010635-MS1) **Source: SA89727-02**										
Prepared: 13-Jan-09 Analyzed: 16-Jan-09										
Mercury	0.848		mg/kg dry	0.0346	0.481	0.428	87	75-125		
Matrix Spike Dup (9010635-MSD1) **Source: SA89727-02**										
Prepared: 13-Jan-09 Analyzed: 16-Jan-09										
Mercury	1.15	QM9, QR7	mg/kg dry	0.0371	0.516	0.428	139	75-125	30	20
Reference (9010635-SRM1)										
Prepared: 13-Jan-09 Analyzed: 16-Jan-09										
Mercury	2.31		mg/kg wet	0.0300	2.19		105	71.7-128.8		
Batch 9010733 - SW846 3005A										
Blank (9010733-BLK1)										
Prepared: 13-Jan-09 Analyzed: 15-Jan-09										
Lead	BRL		mg/l	0.0075						
Selenium	BRL		mg/l	0.0150						
Chromium	BRL		mg/l	0.0050						
Arsenic	BRL		mg/l	0.0040						
Barium	BRL		mg/l	0.0050						
Silver	BRL		mg/l	0.0050						
Cadmium	BRL		mg/l	0.0025						
LCS (9010733-BS1)										
Prepared: 13-Jan-09 Analyzed: 15-Jan-09										
Lead	1.21		mg/l	0.0075	1.25		97	85-115		
Selenium	1.22		mg/l	0.0150	1.25		97	85-115		
Chromium	1.24		mg/l	0.0050	1.25		99	85-115		
Barium	1.18		mg/l	0.0050	1.25		95	85-115		

Total 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 9010733 - SW846 3005A										
LCS (9010733-BS1)										
Prepared: 13-Jan-09 Analyzed: 15-Jan-09										
Silver	1.20		mg/l	0.0050	1.25		96	85-115		
Arsenic	1.22		mg/l	0.0040	1.25		98	85-115		
Cadmium	1.26		mg/l	0.0025	1.25		101	85-115		
LCS Dup (9010733-BSD1)										
Prepared: 13-Jan-09 Analyzed: 15-Jan-09										
Selenium	1.22		mg/l	0.0150	1.25		98	85-115	0.5	20
Lead	1.21		mg/l	0.0075	1.25		97	85-115	0.3	20
Barium	1.18		mg/l	0.0050	1.25		94	85-115	0.2	20
Chromium	1.24		mg/l	0.0050	1.25		99	85-115	0.2	20
Silver	1.21		mg/l	0.0050	1.25		97	85-115	0.8	20
Cadmium	1.27		mg/l	0.0025	1.25		102	85-115	0.5	20
Arsenic	1.23		mg/l	0.0040	1.25		98	85-115	0.5	20
Duplicate (9010733-DUP1) **Source: SA89692-02**										
Prepared: 13-Jan-09 Analyzed: 15-Jan-09										
Lead	0.0214		mg/l	0.0075		0.0202			6	20
Selenium	BRL		mg/l	0.0150		BRL				20
Silver	BRL		mg/l	0.0050		BRL				20
Cadmium	0.0005	J	mg/l	0.0025		0.0004			11	20
Arsenic	BRL		mg/l	0.0040		BRL				20
Barium	0.0554		mg/l	0.0050		0.0508			8	20
Chromium	0.0126		mg/l	0.0050		0.0112			13	20
Matrix Spike (9010733-MS1) **Source: SA89692-06**										
Prepared: 13-Jan-09 Analyzed: 15-Jan-09										
Lead	1.19		mg/l	0.0075	1.25	BRL	95	75-125		
Selenium	1.25		mg/l	0.0150	1.25	BRL	100	75-125		
Barium	1.55		mg/l	0.0050	1.25	0.403	91	75-125		
Cadmium	1.21		mg/l	0.0025	1.25	0.0004	97	75-125		
Chromium	1.21		mg/l	0.0050	1.25	0.0039	97	75-125		
Arsenic	1.24		mg/l	0.0040	1.25	BRL	99	75-125		
Silver	1.28		mg/l	0.0050	1.25	BRL	102	75-125		
Matrix Spike Dup (9010733-MSD1) **Source: SA89692-06**										
Prepared: 13-Jan-09 Analyzed: 15-Jan-09										
Lead	1.20		mg/l	0.0075	1.25	BRL	96	75-125	0.8	20
Selenium	1.26		mg/l	0.0150	1.25	BRL	100	75-125	0.5	20
Barium	1.60		mg/l	0.0050	1.25	0.403	96	75-125	4	20
Cadmium	1.23		mg/l	0.0025	1.25	0.0004	98	75-125	1	20
Silver	1.31		mg/l	0.0050	1.25	BRL	105	75-125	2	20
Arsenic	1.25		mg/l	0.0040	1.25	BRL	100	75-125	0.9	20
Chromium	1.23		mg/l	0.0050	1.25	0.0039	98	75-125	1	20
Post Spike (9010733-PS1) **Source: SA89692-06**										
Prepared: 13-Jan-09 Analyzed: 15-Jan-09										
Lead	1.20		mg/l	0.0075	1.25	BRL	96	80-120		
Selenium	1.27		mg/l	0.0150	1.25	BRL	101	80-120		
Chromium	1.22		mg/l	0.0050	1.25	0.0039	97	80-120		
Barium	1.57		mg/l	0.0050	1.25	0.403	93	80-120		
Silver	1.29		mg/l	0.0050	1.25	BRL	103	80-120		
Arsenic	1.26		mg/l	0.0040	1.25	BRL	101	80-120		

Total 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 9010733 - SW846 3005A										
Post Spike (9010733-PS1) **Source: SA89692-06**										
Prepared: 13-Jan-09 Analyzed: 15-Jan-09										
Cadmium	1.23		mg/l	0.0025	1.25	0.0004	98	80-120		

Total 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 9010734 - EPA200/SW7000 Series										
Blank (9010734-BLK1)										
Prepared: 13-Jan-09 Analyzed: 16-Jan-09										
Mercury	BRL		mg/l	0.00020						
LCS (9010734-BS1)										
Prepared: 13-Jan-09 Analyzed: 16-Jan-09										
Mercury	0.00436		mg/l	0.00020	0.00500		87	85-115		
Duplicate (9010734-DUP1) **Source: SA89692-02**										
Prepared: 13-Jan-09 Analyzed: 16-Jan-09										
Mercury	0.00006	J	mg/l	0.00020		BRL				20
Matrix Spike (9010734-MS1) **Source: SA89692-06**										
Prepared: 13-Jan-09 Analyzed: 16-Jan-09										
Mercury	0.00490		mg/l	0.00020	0.00500	BRL	98	75-125		
Matrix Spike Dup (9010734-MSD1) **Source: SA89692-06**										
Prepared: 13-Jan-09 Analyzed: 16-Jan-09										
Mercury	0.00483		mg/l	0.00020	0.00500	BRL	97	75-125	1	20
Post Spike (9010734-PS1) **Source: SA89692-06**										
Prepared: 13-Jan-09 Analyzed: 16-Jan-09										
Mercury	0.00494		mg/l	0.00020	0.00500	BRL	99	85-115		

SPLP Metals by EPA 1312 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9011791 - SW846 3010A										
Blank (9011791-BLK1)										
Prepared: 28-Jan-09 Analyzed: 29-Jan-09										
Selenium	BRL		mg/l	0.0300						
Lead	BRL		mg/l	0.0150						
Cadmium	BRL		mg/l	0.0050						
Silver	BRL		mg/l	0.0100						
Arsenic	BRL		mg/l	0.0080						
Chromium	BRL		mg/l	0.0100						
Barium	BRL		mg/l	0.0100						
LCS (9011791-BS1)										
Prepared: 28-Jan-09 Analyzed: 29-Jan-09										
Selenium	2.69		mg/l	0.0300	2.50		107	85-115		
Lead	2.62		mg/l	0.0150	2.50		105	85-115		
Arsenic	2.66		mg/l	0.0080	2.50		106	85-115		
Chromium	2.70		mg/l	0.0100	2.50		108	85-115		
Cadmium	2.69		mg/l	0.0050	2.50		108	85-115		
Silver	2.66		mg/l	0.0100	2.50		106	85-115		
Barium	2.66		mg/l	0.0100	2.50		107	85-115		
LCS Dup (9011791-BSD1)										
Prepared: 28-Jan-09 Analyzed: 29-Jan-09										
Lead	2.68		mg/l	0.0150	2.50		107	85-115	3	20
Selenium	2.74		mg/l	0.0300	2.50		110	85-115	2	20
Silver	2.73		mg/l	0.0100	2.50		109	85-115	3	20
Chromium	2.78		mg/l	0.0100	2.50		111	85-115	3	20
Cadmium	2.76		mg/l	0.0050	2.50		110	85-115	3	20
Arsenic	2.73		mg/l	0.0080	2.50		109	85-115	3	20
Barium	2.75		mg/l	0.0100	2.50		110	85-115	3	20
Duplicate (9011791-DUP1) **Source: SA89834-02**										
Prepared: 28-Jan-09 Analyzed: 29-Jan-09										
Selenium	BRL		mg/l	0.0300		BRL				20
Lead	0.0144	J,QR8	mg/l	0.0150		0.0114			23	20
Arsenic	BRL		mg/l	0.0080		BRL				20
Cadmium	BRL		mg/l	0.0050		BRL				20
Chromium	0.0124		mg/l	0.0100		0.0115			8	20
Silver	BRL		mg/l	0.0100		BRL				20
Barium	0.0087	J,QR8	mg/l	0.0100		0.0070			22	20
Matrix Spike (9011791-MS1) **Source: SA89692-01**										
Prepared: 28-Jan-09 Analyzed: 29-Jan-09										
Selenium	2.76		mg/l	0.0300	2.50	BRL	110	75-125		
Lead	2.66		mg/l	0.0150	2.50	BRL	107	75-125		
Arsenic	2.73		mg/l	0.0080	2.50	BRL	109	75-125		
Cadmium	2.75		mg/l	0.0050	2.50	BRL	110	75-125		
Chromium	2.77		mg/l	0.0100	2.50	BRL	111	75-125		
Silver	2.72		mg/l	0.0100	2.50	BRL	109	75-125		
Barium	2.72		mg/l	0.0100	2.50	0.0050	109	75-125		
Matrix Spike Dup (9011791-MSD1) **Source: SA89692-01**										
Prepared: 28-Jan-09 Analyzed: 29-Jan-09										
Lead	2.68		mg/l	0.0150	2.50	BRL	107	75-125	0.8	20
Selenium	2.78		mg/l	0.0300	2.50	BRL	111	75-125	0.6	20

SPLP Metals by EPA 1312 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9011791 - SW846 3010A										
Matrix Spike Dup (9011791-MSD1) **Source: SA89692-01**										
Prepared: 28-Jan-09 Analyzed: 29-Jan-09										
Arsenic	2.75		mg/l	0.0080	2.50	BRL	110	75-125	0.9	20
Cadmium	2.77		mg/l	0.0050	2.50	BRL	111	75-125	0.5	20
Silver	2.73		mg/l	0.0100	2.50	BRL	109	75-125	0.3	20
Chromium	2.79		mg/l	0.0100	2.50	BRL	112	75-125	0.8	20
Barium	2.76		mg/l	0.0100	2.50	0.0050	110	75-125	1	20
Post Spike (9011791-PS1) **Source: SA89692-01**										
Prepared: 28-Jan-09 Analyzed: 29-Jan-09										
Selenium	2.79		mg/l	0.0300	2.50	BRL	112	75-125		
Lead	2.70		mg/l	0.0150	2.50	BRL	108	75-125		
Arsenic	2.78		mg/l	0.0080	2.50	BRL	111	75-125		
Chromium	2.80		mg/l	0.0100	2.50	BRL	112	75-125		
Cadmium	2.79		mg/l	0.0050	2.50	BRL	111	75-125		
Silver	2.75		mg/l	0.0100	2.50	BRL	110	75-125		
Barium	2.76		mg/l	0.0100	2.50	0.0050	110	75-125		
Batch 9011792 - EPA200/SW7000 Series										
Blank (9011792-BLK1)										
Prepared: 28-Jan-09 Analyzed: 30-Jan-09										
Mercury	BRL		mg/l	0.00020						
LCS (9011792-BS1)										
Prepared: 28-Jan-09 Analyzed: 30-Jan-09										
Mercury	0.00519		mg/l	0.00020	0.00500		104	56.1-122		
Duplicate (9011792-DUP1) **Source: SA89692-05**										
Prepared: 28-Jan-09 Analyzed: 30-Jan-09										
Mercury	BRL		mg/l	0.00020		BRL				20
Matrix Spike (9011792-MS1) **Source: SA89692-01**										
Prepared: 28-Jan-09 Analyzed: 30-Jan-09										
Mercury	0.00524		mg/l	0.00020	0.00500	BRL	105	59.8-119		
Matrix Spike Dup (9011792-MSD1) **Source: SA89692-01**										
Prepared: 28-Jan-09 Analyzed: 30-Jan-09										
Mercury	0.00509		mg/l	0.00020	0.00500	BRL	102	59.8-119	3	20

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9010819 - General Preparation										
Duplicate (9010819-DUP1) **Source: SA89603-01**										
Prepared & Analyzed: 14-Jan-09										
% Solids	82.3		%			83.8			2	20

Notes and Definitions

QC1	Analyte out of acceptance range.
QM2	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM8	The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or 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 or SRM recoveries within the control limits.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR5	RPD out of acceptance range.
QR6	The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.
QR7	The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for batch duplicate.
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.
QR9	RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
VC10	The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting 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
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

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

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.
Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 - includes #4 fuel oil
Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
Motor Oil - includes virgin and waste automobile oil
Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel - includes kerosene, Jet A and JP-4
Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as *TPH (Calculated as).

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.

Validated by:
Hanibal C. Tayeh, Ph.D.
June O'Connor
Rebecca Merz

State Of Connecticut
Department of Environmental Protection
Laboratory Quality Control and Quality Assurance Form

Laboratory Name:	Spectrum Analytical, Inc. - Agawam, MA	Project Name and Number:	
Project Location:	Conn Dot Flatbush Ave-Hartford, CT	Conn Dot Flatbush Ave-Hartford, CT/ 12701186	
This Form Provides certifications for the following data set: SA89692-01 SA89692-02 SA89692-03 SA89692-04 SA89692-05 SA89692-06 SA89692-07		List Specific Analytical Methods Used: +CT ETPH EPA 245.1/7470A SM2540 G Mod. SW846 1312 SW846 1312/6010B SW846 1312/7470A SW846 6010B SW846 7471A SW846 8082 SW846 8151A SW846 8260B SW846 8270C SW846 8270C/EPA 625 ! VOC Soil Extraction	
Sample Matrices: Aqueous Soil/Sediment			

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain of Custody documentation for the data set?	☑ Yes ☐ No
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed?	☑ Yes ☐ No
C	Were all QC performance standards and recommendations for the specified methods achieved?	☑ Yes ☐ No
D	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☐ Yes ☑ No *

* The compounds and/or elements reported are as specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

Negative responses for A, B and C are addressed in a case narrative on the cover page of this report.

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

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Date: 2/2/2009

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc. - Agawam, MA

Client: Tetra Tech Rizzo - Hartford, CT

Project Location: Conn Dot Flatbush Ave-Hartford, CT

Project Number: 12701186

Sampling Date(s):
09-Jan-09

Laboratory Sample ID(s):
SA89692-01 through SA89692-07

RCP Methods Used: +CT ETPH, EPA 245.1/7470A, SW846 1312, SW846 1312/6010B, SW846 1312/7470A, SW846 6010B, SW846 7471A, SW846 8082, SW846 8151A, SW846 8260B, SW846 8270C, SW846 8270C/EPA 625

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	***VPH and EPH methods only***: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)? * ** These methods have not yet been approved for release by CT DEP*	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? * b) Were these reporting limits met? ** Exceptions are defined by qualifiers*	☑ Yes ☐ No ☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Note: **For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."**

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

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Date: 2/2/2009

CHAIN OF CUSTODY RECORD

No. 1 of 1

CHAIN OF CUSTODY RECORD

Page 1 of 1

Site Name: Connecticut Flatbush Ave

Town: West Hartford

Time
08:30
08:45
09:50
09:40
13:31
10:45
10:50