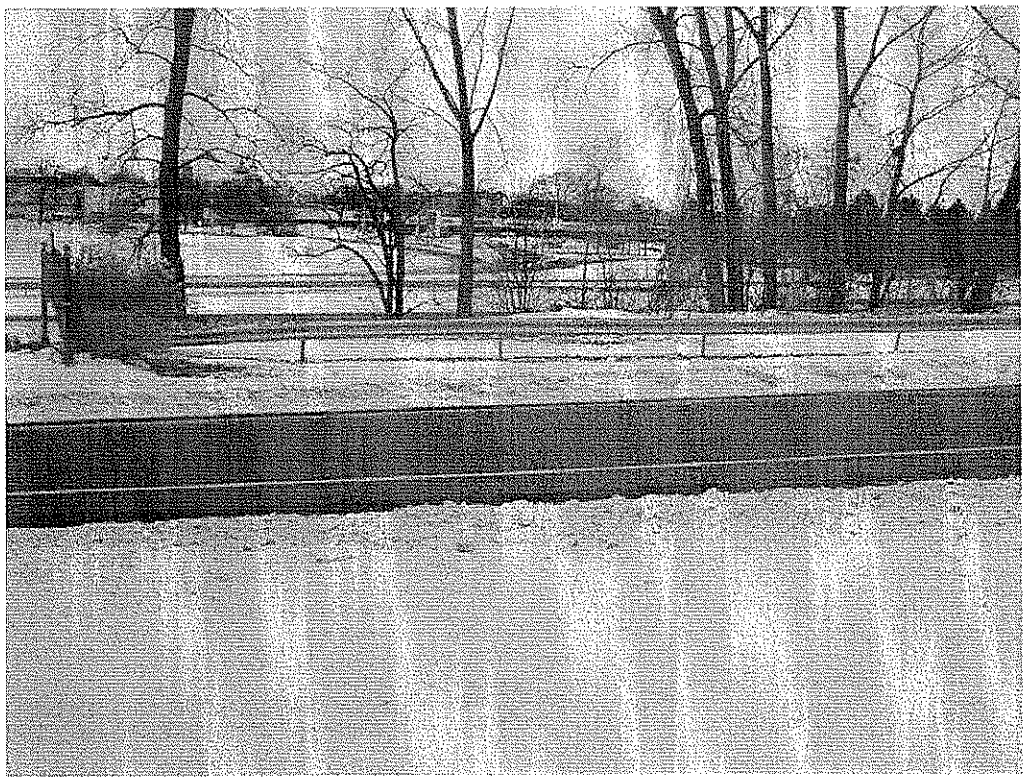
TASK 210 Subsurface Site Investigation



New Britain to Hartford Busway
Contract 1 - Data Gap Investigation
New Britain, Connecticut

Prepared for:
Division of Environmental Compliance
Connecticut Department of Transportation
2800 Berlin Turnpike
Newington, CT 06111

January 2011

ON-CALL ENVIRONMENTAL SERVICES
ConnDOT Project No. 171-305
Assignment No. 304-4042
DTC Project No. 09-188-02E

DIVERSIFIED TECHNOLOGY CONSULTANTS, INC.
HAMDEN, CT ANDOVER, MA

SIGNATURE PAGE

TASK 210 SUBSURFACE SITE INVESTIGATION

NEW BRITAIN TO HARTFORD BUSWAY PROJECT

CONTRACT 1 - DATA GAP INVESTIGATION

NEW BRITAIN, CONNECTICUT

Ethan Stewart
Sr. Environmental Scientist

Michelle Malone
ConnDOT Project Manager

Richard C. Hathaway, L.E.P.
Manager – Environmental

TABLE OF CONTENTS

1.0 INTRODUCTION 1

1.1 BACKGROUND AND PURPOSE 1
1.2 PREVIOUS ENVIRONMENTAL REPORTS 1
1.3 SCOPE OF WORK 2

2.0 LOCAL ENVIRONMENT AND RECEPTORS 3

2.1 SURFICIAL GEOLOGY 3
2.2 BEDROCK GEOLOGY 3
2.3 GROUNDWATER 3
2.4 SURFACE WATER 3
2.5 DRINKING WATER SUPPLY 3

3.0 FIELD INVESTIGATION AND SAMPLING METHODS 3

3.1 SOIL BORING ADVANCEMENT AND SAMPLING 4
3.2 GROUNDWATER GRAB SAMPLE COLLECTION 4

4.0 REGULATORY CRITERIA 5

4.1 SOIL CRITERIA 5
4.2 GROUNDWATER CRITERIA 5

5.0 SUMMARY AND EVALUATION OF ANALYTICAL DATA 6

5.1 SOIL SAMPLE ANALYTICAL RESULTS 6
5.2 GROUNDWATER SAMPLE ANALYTICAL RESULTS 7
5.3 QUALITY ASSURANCE (QA)/QUALITY CONTROL (QC) RESULTS 7

6.0 CONCLUSIONS AND RECOMMENDATIONS 8

6.1 CONCLUSIONS 8
6.2 RECOMMENDATIONS 9

7.0 LIMITATIONS 10

8.0 REFERENCES 11

FIGURES

Figure 1 Site Location Map
Figure 2 Soil Boring Locations
Figures 3-4 Preliminary Soil Areas of Environmental Concern

TABLES

Table 1 Soil Sample Location Rational and Select Analyses
Table 2 Soil Sample Analytical Results

APPENDICES

Appendix A Soil Boring Sampling Logs
Appendix B Soil Analytical Laboratory Report
Appendix C Data Tables & Sample Locations from Maguire's May 2006 Task 210 Report

1.0 INTRODUCTION

Diversified Technology Consultants, Inc. (DTC) was retained by the State of Connecticut Department of Transportation (ConnDOT) to conduct a Task 210 Subsurface Site Investigation (SSI) in support of ConnDOT Project No. 171-305, New Britain to Hartford Busway Project. The proposed project will involve the construction of a dedicated roadway for transit buses and bus stations in the municipalities of New Britain, Newington, West Hartford, and Hartford, Connecticut. The proposed approximately 9.4-mile busway corridor will be constructed along an abandoned rail line in the southern portion of the corridor, and adjacent to an active Amtrak railway in the northern portion of the corridor.

The corridor of land investigated by this Task 210 SSI, identified as Contract 1, encompasses an approximately 1,000-foot, vacant, grass-covered State of Connecticut-owned land located adjacent to an exit ramp for Route 72, between Main Street to Stanley Street, in New Britain, Connecticut. The corridor's location and pertinent features are depicted on Figures 1 through 4.

This report provides a brief description and environmental history of the project corridor, a discussion of the local environment and receptors, the investigation rationale, a summary of the data obtained during the investigation, an interpretation of the results with respect to the appropriate regulatory criteria, recommendations, and attached drawings showing preliminary areas of environmental concern.

1.1 Background and Purpose

Numerous previous investigations were completed for the busway project, including Task 120 Preliminary Site Investigations, and Task 210 SSI's for individual moderate-to-high risk parcels located along the busway route and at proposed busway stations.

Maguire Group, Inc. (Maguire) completed a Task 210 SSI, entitled "Task 210 Subsurface Site Investigation, New Britain-Hartford Busway, Inactive Line, New Britain and Newington, Connecticut", in April 2006 (report dated May 31, 2006), that coincides with Contract 1. Based on review of this Maguire Task 210 report and current available plans, DTC identified several data gaps in the Maguire report, primarily due to design changes resulting in size modification of the corridor.

The purpose of DTC's Task 210 SSI was to collect and review additional on-site soil data in order to more adequately characterize the project corridor with respect to subsurface contamination, and to evaluate whether the proposed construction activities may require management of contaminated soil.

Based on a review of the above-referenced Maguire report and our experience with similar projects, the potential exists for soil within the project corridor to be impacted with volatile organic compounds (VOCs), petroleum hydrocarbons, polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), metals, and chlorinated pesticides.

1.2 Previous Environmental Reports

As previously discussed, Maguire completed a Task 210 SSI report which coincided with the Contract 1 corridor. Environmental soil samples were collected; however, these samples were not adequate to characterize the entire corridor area, based on design changes. Pertinent figures and data tables from the Maguire Task 210 SSI are included in Appendix C.

1.3 Scope of Work

This Task 210 SSI was completed in accordance with DTC's Task 210 Work Plan, dated December 9, 2010. The Task 210 SSI activities were designed based on the proposed activities for the property, as described above.

The scope of work for this Task 210 SSI included the following tasks:

- Pre-drilling activities, including: (1) marking proposed drilling locations and (2) contacting Call-Before-You-Dig to request mark outs of publicly-owned utilities;
- Completion of three soil borings using a truck-mounted Geoprobe® direct push drill-rig;
- Recording lithology and field screening soil samples with a photoionization detector (PID);
- Collection and laboratory analysis of seven soil samples for one or more of the following:
    - Volatile organic compounds (VOCs) by EPA Method 8260;
    - Extractable total petroleum hydrocarbons (ETPH) by the Connecticut DEP method;
    - Polychlorinated biphenyls (PCBs) by EPA Method 8082;
    - Polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8270;
    - Chlorinated pesticides by EPA Method 8081;
    - Total metals (arsenic, cadmium, chromium, mercury, and lead);
    - Leachable arsenic and lead by the Synthetic Precipitation Leaching Procedure (SPLP); and
    - Leachable lead by the Toxicity Characteristic Leaching Procedure (TCLP).

2.0 LOCAL ENVIRONMENT AND RECEPTORS

2.1 Surficial Geology

According to the CTDEP's "Environmental GIS Data for Connecticut" (updated to August 12, 2010), the surficial deposits underlying the corridor consist of till.

Based on soil samples observed during the soil boring advancement activities, surficial materials at the site consist of sand and some gravel. Boring logs are included as Appendix A.

2.2 Bedrock Geology

According to the "Bedrock Geology Map of Connecticut" (Rodgers, 1985), the corridor is described as underlain by East Berlin Formation, a reddish-brown silty shale. No bedrock outcrops were observed at the site.

2.3 Groundwater

The CTDEP's "Environmental GIS Data for Connecticut" (updated to August 12, 2010) depicts the groundwater classification for the corridor "GB". "GB" indicates that a portion of the corridor is located within a historically urbanized area or an area of intense industrial activity where a 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, and land use impacts.

Based on the corridor's location (Willow Brook and associated wetlands are the closest water body located to the south), groundwater likely flows in a south/southeasterly direction. It should be noted that the groundwater flow direction may vary depending on season, precipitation, bedrock, and the presence of subsurface structures and impervious surfaces.

During drilling activities for this Task 210 SSI, the groundwater table beneath the corridor was not encountered.

2.4 Surface Water

The Piper Brook lies approximately 5,000 feet south/southeast of the corridor. According to the above referenced DEP GIS data, the Willow Brook is classified as a class "B/A" surface water body. Class "B" surface water is considered suitable for one or more uses, which include certain fish and wildlife habitat, agricultural and industrial uses, and navigation.

2.5 Drinking Water Supply

The New Britain Public Works provides public water service to the corridor area.

3.0 FIELD INVESTIGATION AND SAMPLING METHODS

This Task 210 SSI included the completion of three soil borings and the collection and laboratory analysis of seven soil samples.

DTC subcontracted Logical Environmental Solutions, LLC (LES) of Tolland, Connecticut to advance the soil borings using a truck-mounted Geoprobe® direct push drill rig. The subsurface exploration investigation was completed on December 16, 2010.

The locations of the soil borings are depicted on Figure 2.

Soil samples were analyzed for the following parameters: VOCs, ETPH, PCBs, PAHs, chlorinated pesticides, total metals (arsenic cadmium, chromium, mercury, and lead), and leachable metals (arsenic and lead) and lead by TCLP. Table 1 provides a summary of the results of the laboratory analyses conducted on the soil samples. The following sections summarize the field investigation and sampling methodologies used during this investigation.

3.1 Soil Boring Advancement and Sampling

Three soil borings, identified as B-1 through B-3, were completed within the proposed construction limits of the Contract 1 Data Gap Investigation utilizing a truck-mounted Geoprobe® rig to a depth of 16 feet below grade. Continuous soil samples were obtained using a four-foot macro core sampling device with dedicated PVC sample liners. The macro core sample liner was opened along its long axis to allow inspection, description of lithology, and sampling of the soil core.

A representative portion of each 4-foot long soil core was immediately collected by the DTC field scientist and field screened with a PID. The PID was equipped with a 10.6 eV bulb and was calibrated to isobutylene standard gas (100 parts per million). The results of the PID screening are provided on the soil boring logs, which are included as Appendix A.

Two to three soil samples per boring, plus one duplicate soil sample from B-3, were submitted to Spectrum Analytical, Inc. (Spectrum) of Agawam, MA, a State of Connecticut Department of Public Health certified environmental testing laboratory, using proper preservation techniques and chain of custody control.

3.2 Groundwater Grab Sample Collection

Grab groundwater samples were not collected due to the presence of bedrock. Groundwater was not encountered during the SSI.

4.0 REGULATORY CRITERIA

The analytical results were compared to the numeric criteria listed in the Connecticut DEP Remediation Standard Regulations (RSRs), sections 22a-133k-1 through 22a-133k-3 of the Regulations of Connecticut State Agencies dated January 1996, and the DEP Comprehensive List of Approved Additional Polluting Substances Criteria and Alternative Criteria, dated October 24, 2005.

The RSRs were developed by the DEP to define the remediation performance standards for soil and groundwater, specific numeric cleanup criteria, and processes for establishing alternative site-specific standards. The RSRs apply specifically to sites at which remedial actions are required by the DEP under Chapters 445 or 446k of the Connecticut General Statutes (CGS) such as under an administrative order, subsequent to a transfer of an establishment under CGS Section 22a-134a, and to sites that are enrolled in a Voluntary Remediation Program under CGS Sections 22a-133x or 22a-133y.

The subject corridor is not currently regulated under any of these State statutes. However, DTC used the numeric criteria in the RSRs as guidelines to assess the corridor and to make conclusions regarding concentrations of regulated compounds detected in soil and groundwater. The following sections provide a brief summary of the soil and groundwater criteria utilized during this Task 210 SSI.

DTC compared the soil analytical results to criteria that are applicable to residential and industrial/commercial usage in an area with a "GB" classified groundwater.

4.1 Soil Criteria

Direct Exposure Criteria (DEC)

The DEC are designed to protect human health from risks associated with exposure to pollutants in contaminated soil within 15 feet of the ground surface. For this site, the soil analytical results were compared to both the Residential and Industrial/Commercial DEC.

Pollutant Mobility Criteria (PMC)

The PMC are designed to protect groundwater quality by reducing or eliminating the potential for migration of pollutants to groundwater from contaminated soil. The RSRs provide two sets of PMC based on the groundwater classification of the site, as designated by DEP. In a "GB" groundwater classification area, the GB PMC apply to soil located from the ground surface to the depth of the seasonal high water table.

5.0 SUMMARY AND EVALUATION OF ANALYTICAL DATA

5.1 Soil Sample Analytical Results

Soil analytical results are summarized in Table 2, along with the regulatory criteria. The soil analytical laboratory reports are included in Appendix B. The soil analytical results are discussed below.

ETPH

Seven soil samples were analyzed for petroleum hydrocarbons utilizing the ETPH method. The B-2 (4-6') (1,430 ppm) sample contained petroleum hydrocarbons above the Residential DEC of 500 ppm. Samples B-1 (0-2'), B-1 (4-5'), B-2 (0-1'), B-2 (8-10'), and B-3 (4-5.5') contained petroleum hydrocarbons at concentrations ranging from 67.6 ppm to 286 ppm, below the Residential DEC of 500 ppm. No other soil samples contained petroleum hydrocarbons at concentrations above the detections limit.

Volatile Organic Compounds (VOCs)

Six soil samples were analyzed for VOCs. None of the soil samples contained detectable concentrations of VOC compounds.

PAHs

Seven soil samples were analyzed for PAHs. Varying concentrations of PAHs were detected in six of the seven soil samples within the project area. The B-2 (0-1') sample contained the PAHs benzo(a)anthracene (2.26 ppm), benzo(a)pyrene (1.92 ppm), benzo(b)fluoranthene (2.05 ppm), benzo(k)fluoranthene (1.85 ppm), and chrysene (2.13 ppm) at concentrations that exceed one or more of the respective criteria Residential DEC, Industrial/Commercial DEC, and GB PMC. The B-2 (4-6') sample contained the PAHs benzo(a)anthracene (15.6 ppm), benzo(a)pyrene (12.9 ppm), benzo(b)fluoranthene (12.6 ppm), benzo(k)fluoranthene (11.9 ppm), and chrysene (11.8 ppm) at concentrations that exceed one or more of the respective criteria Residential DEC, Industrial/Commercial DEC, and GB PMC. Other PAH compounds were detected in samples B-1 (0-2'), B-1 (4-5'), B-2 (8-10'), and B-3 (4-5.5'), at concentrations below any applicable RSR criteria.

PCBs

Six soil samples were analyzed for PCBs. None of the soil samples contained detectable concentrations of PCBs.

Chlorinated Pesticides

Three soil samples were analyzed for chlorinated pesticides. None of the soil samples contained detectable concentrations of pesticides.

Metals

Six soil samples were analyzed for total metals including arsenic, cadmium, chromium, mercury, and lead. One soil sample, B-2 (0-1') contained total arsenic at a concentration that exceed the applicable RSR criteria. The sample was below detection limits for leachable arsenic.

Based upon the results of the total metals analyses, selected soil samples, B-2 (0-1') and B-2 (4-6'), were also analyzed for leachable lead. The samples were below the detection limits.

Soil sample B-2 (0-1') was also analyzed by toxicity characteristic leaching procedure (TCLP). The B-2 (0-1') sample contained TCLP lead (0.0698 ppm) at a concentration that is below the RCRA characteristically hazardous regulatory limit of 5 ppm.

5.2 Groundwater Sample Analytical Results

No groundwater samples were analyzed.

5.3 Quality Assurance (QA)/Quality Control (QC) Results

Soil

As part of the QA/QC protocol, DTC submitted a duplicate soil sample Duplicate-1 [B-3 (4-5.5')] for laboratory analyses. The results of the B-3 (4-5.5') and Duplicate-1 [B-3 (4-5.5')] samples were comparable and within acceptable QA/QC ranges. In addition, DTC thoroughly reviewed the QA/QC report included with the laboratory analytical report to evaluate the reliability of the analytical data. Based on the information provided in the laboratory QA/QC report, the analytical data are reliable. Please refer to the analytical report for a detailed narrative discussion of the reliability of the data.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

As noted in Section 1.1, the purpose of this Task 210 SSI was to collect soil samples, to use the soil analytical data from the borings to evaluate current conditions within the corridor, and to identify the presence and location of subsurface contamination prior to the proposed construction activities.

The Task 210 SSI activities completed by DTC on December 16, 2010 included the completion of three soil borings, and collection and laboratory analysis of seven soil samples. The Task 210 provided information for areas of proposed drainage structures and other construction activities associated for the proposed Contract 1 busway.

The soil samples collected as part of the Task 210 SSI were analyzed for the following: VOCs, ETPH, PAHs, PCBs, chlorinated pesticides, total metals (arsenic, cadmium, chromium, mercury, and lead), leachable arsenic and lead by SPLP, and leachable lead by TCLP. No groundwater samples were obtained due to shallow rock.

Based on the findings of this Task 210 SSI, DTC indentified one (1) Area of Environmental Concern (AOEC) where contaminants are present in the soil at concentrations that exceed applicable DEP RSR criteria. In addition, two (2) portions of the Contract 1 Data Gap Investigation would be considered Low-Level Areas of Environmental Concern (LLAOECs), where contaminants were detected at concentrations below applicable RSR criteria, but above laboratory detection limits.

The following summarizes the locations of the soil AOEC and LLAOECs within the project area.

Soil Area of Environmental Concern

AOEC #1: Boring B-2

The analytical results from the soil samples collected from boring B-2 indicate the presence of PAHs at elevated concentrations in soil ranging from 0 to 6 feet below grade. The contamination detected exceeds the GB PMC, Residential DEC, and Commercial/Industrial DEC. ETPH and arsenic were present above the RES DEC. Slightly elevated concentrations of total lead were also present.

Low Level Area of Environmental Concern

LL AOEC "A": Boring B-1

The analytical results from the above locations indicate the presence of PAHs and ETPH at low concentrations that do not exceed any applicable RSR criteria. The contamination was detected in soil ranging from 0 to 5 feet below grade. Based upon this, these areas have been designated as a Low Level Area of Environmental Concern.

LL AOEC "B": Boring B-3

The analytical results from the above locations indicate the presence of PAHs and ETPH at low concentrations that do not exceed any applicable RSR criteria. The contamination was detected in

soil ranging from 4 to 5.5 feet below grade. Based upon this, these areas have been designated as a Low Level Area of Environmental Concern.

6.2 Recommendations

DTC does not recommend additional soil investigation at this time. The soil results have established the current conditions at the site and identified areas where contamination is present. Based upon the results of this investigation, DTC recommends that a Task 310 Plans and Specifications be prepared to address the construction activities within the Areas of Environmental Concern and Low Level Area of Environmental Concern discussed above.

7.0 LIMITATIONS

All work product and reports provided in connection with the performance of this Task 210 SSI are subject to the following limitations:

This investigation and report were conducted and prepared on behalf of and for the exclusive use of ConnDOT.

The observations, findings, and conclusions provided in this report were based on DTC's observations of the site conditions at the time of the investigation.

The conclusions summarized herein are based on the observations and investigations described within this report. Future events at the site or surrounding properties may alter these findings.

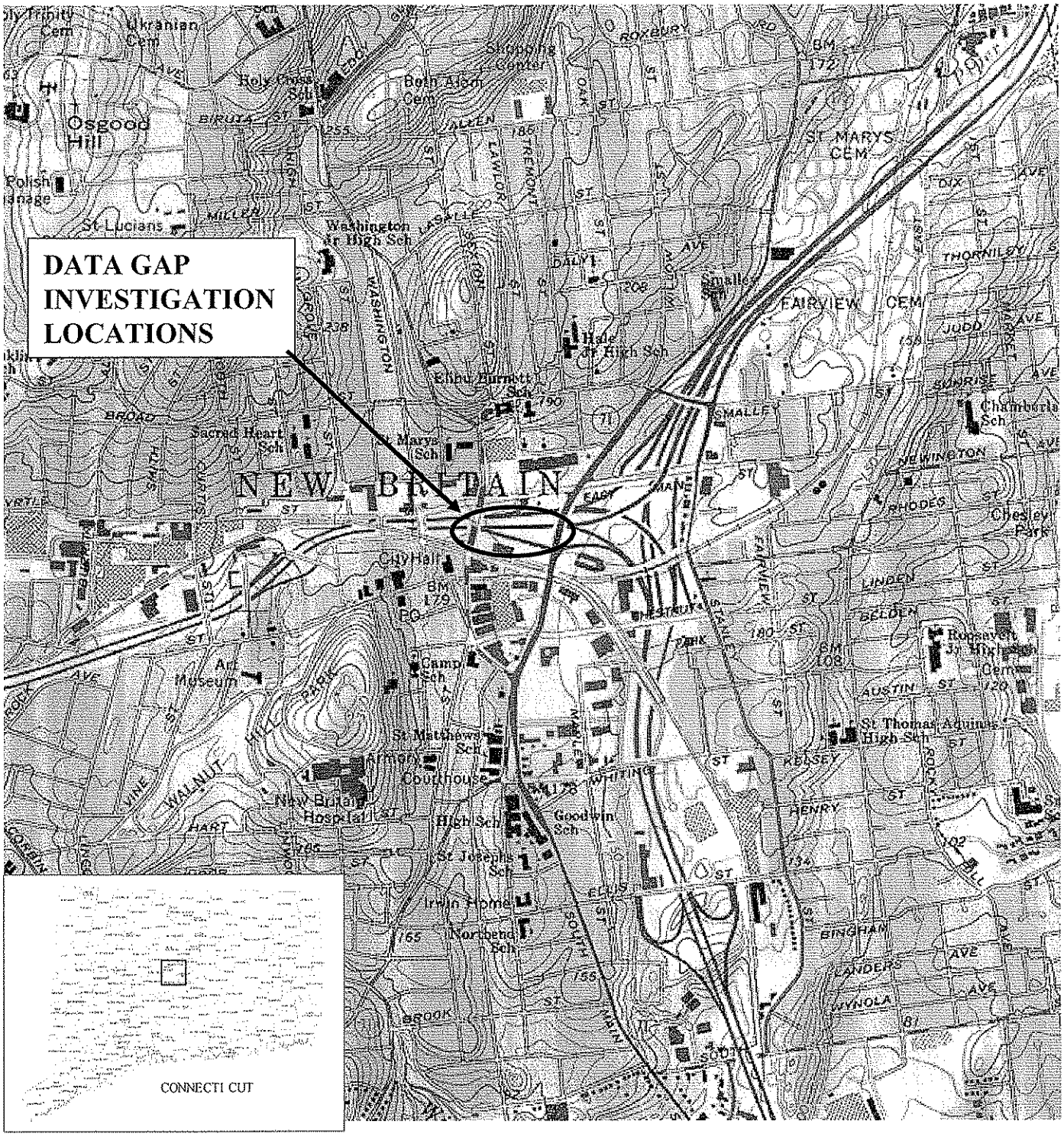
In completing this Task 210 SSI, DTC has relied upon information provided by subcontractors (i.e. laboratories and drilling contractors). DTC has relied upon this information carefully; however, DTC provides no warranty regarding the accuracy and completeness of the information provided.

DTC has performed this study in a professional manner using a degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. The conclusions provided by DTC are based solely on the scope of work conducted and on observations and limited explorations described within this report at the time these services were conducted. No other warranty, expressed or implied, is made as to the professional opinions included by DTC in this report.

8.0 REFERENCES

1. State of Connecticut Department of Environmental Protection (DEP), Remediation Standard Regulations, Sections 22a-133k-1 through –3 of the Regulations of Connecticut State Agencies, effective January 30, 1996. Proposed Revisions, Connecticut's Remediation Standard Regulations, Volatilization Criteria, dated March 2003.
2. DEP, "Comprehensive List of Approved Additional Polluting Substances Criteria and Alternative Criteria", dated October 24, 2005.
3. DEP, "Regulated Criteria Summary Table", CTDEP website, October 11, 2007.
4. DEP, "Environmental GIS Data", updated August 12, 2010.
5. State of Connecticut Department of Transportation, Division of Environmental Compliance, "On-Call Contaminated Soil/Groundwater Scopes" manual, dated 2010.
6. Rogers, J. "Connecticut Bedrock and Natural History Survey", Connecticut Geological and Natural History Survey, Department of the Interior United States Geological Survey, 1985.
7. Task 210 Subsurface Site Investigation, New Britain to Hartford Busway, Inactive Line, New Britain, Connecticut, Maguire Group, Inc., dated June 2006

FIGURES



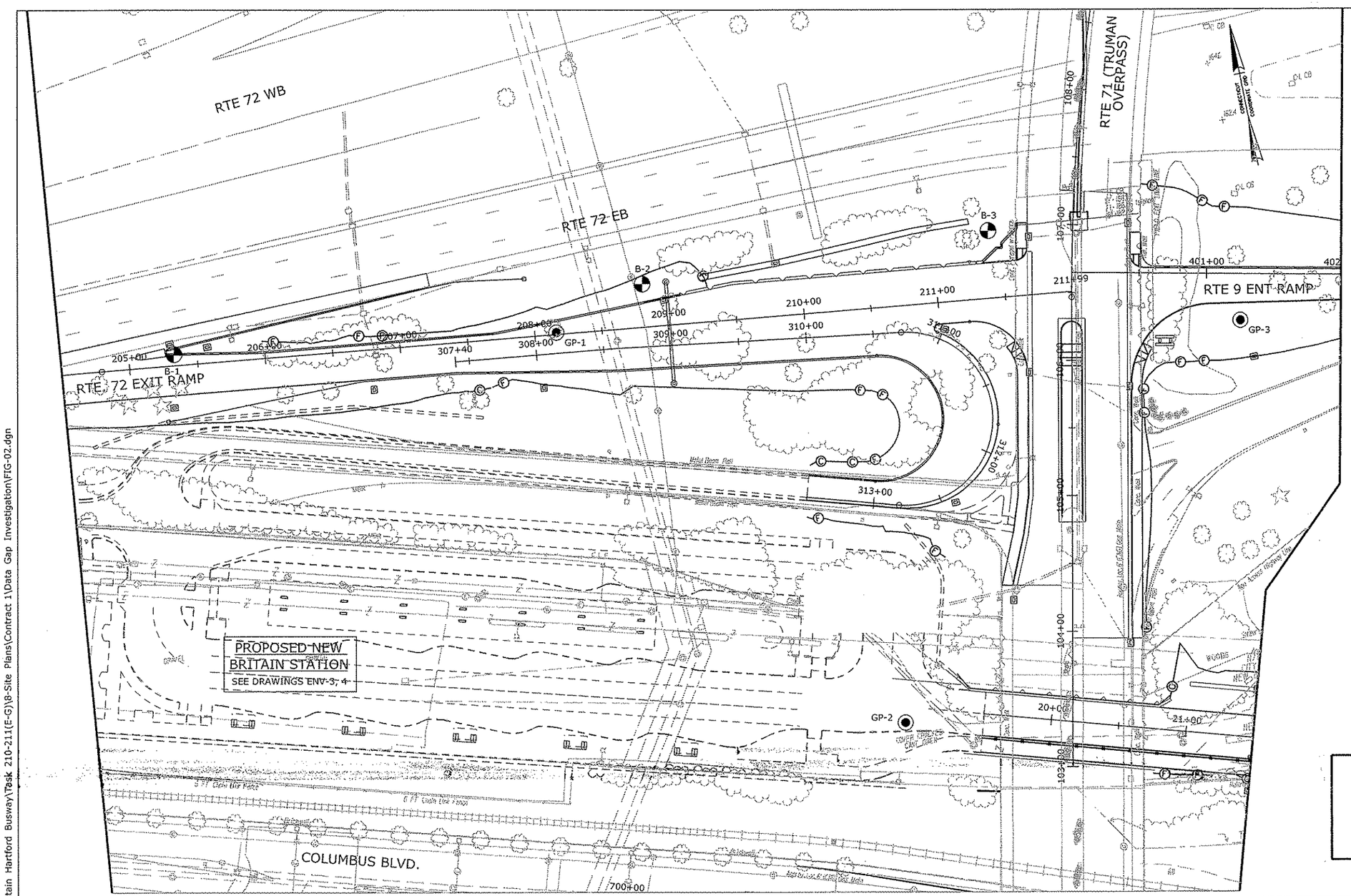
ConnDOT PROJECT No. 171-305
NEW BRITAIN TO HARTFORD BUSWAY
CONTRACT 1 - DATA GAP INVESTIGATION
NEW BRITAIN, CONNECTICUT

DTC Project No: 09-188-02E
January 2011

New Britain Quadrangle No.51
1:24,000

Figure 1

Diversified Technology Consultants, Inc.
2321 Whitney Avenue, Suite 301, Hamden, CT 06518
Andover, MA



NOTES:

1. THE BASE MAP FOR THIS SITE PLAN WAS PROVIDED TO DTC BY CONNDOT

LEGEND

- MAGUIRE SOIL BORING
- DTC SOIL BORING

GRAPHIC SCALE

80 0 40 80 160

(IN FEET)

DTC PROJECT NUMBER: 09-188-02E
DTC DRAWING FILE: ...\FIG-02.dgn
SCALE: 1" = 80'±
DRAWN BY: STG
DATE: 1/18/11
CHECKED BY: ES

DIVERSIFIED TECHNOLOGY CONSULTANTS
2321 Whitney Avenue - Suite 301 - Hamden, CT 06518
203 239-4200 203 234 7376 FAX

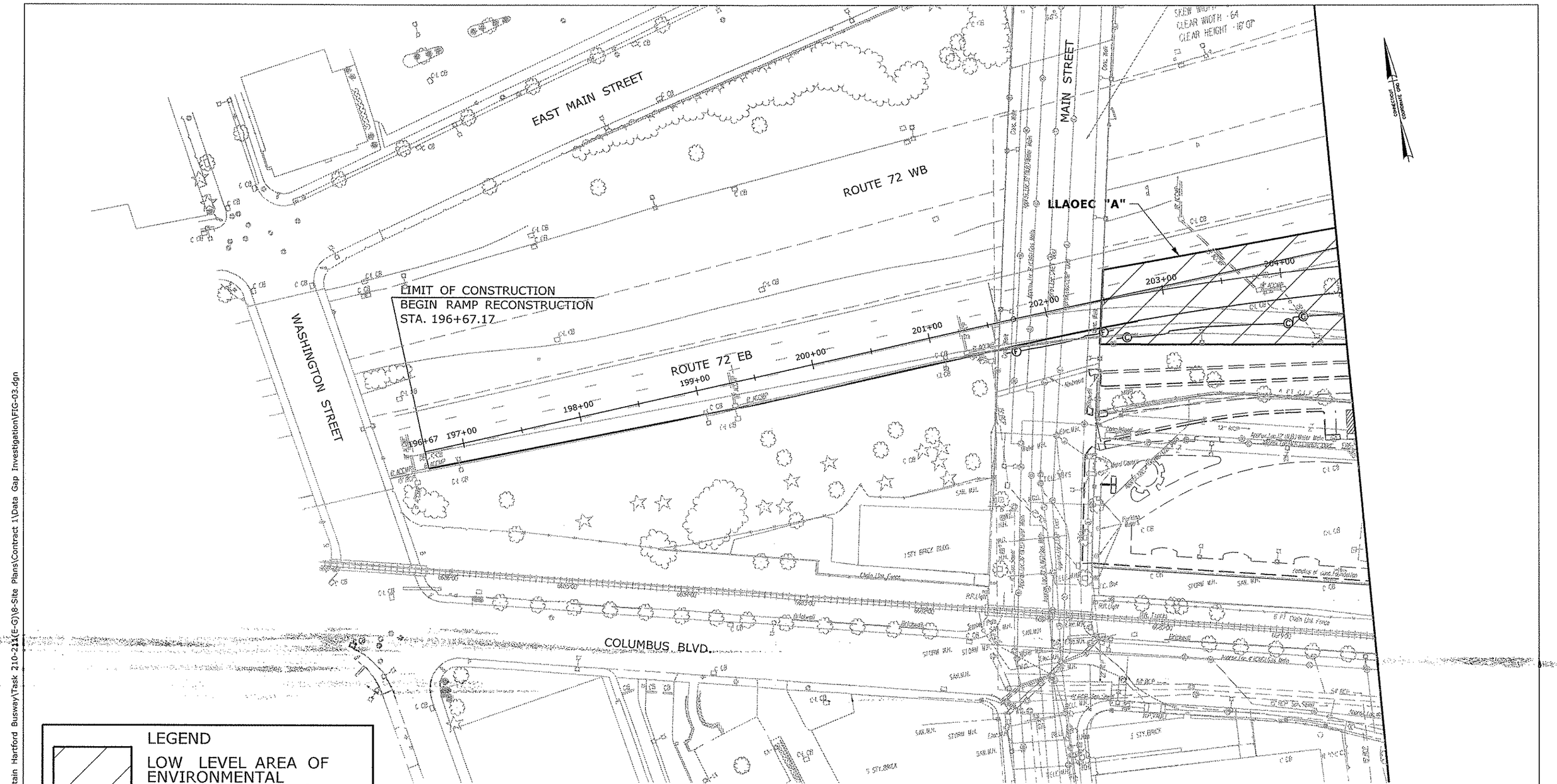
TASK 210
SOIL BORING LOCATIONS

CONTRACT 1 DATA GAP INVESTIGATION

NEW BRITAIN - HARTFORD BUSWAY
NEW BRITAIN, CT

FIGURE 2

P:\-Environmental\DOT 09188\02 New Britain Hartford Busway\Task 210-211(E-G)\8-Site Plans\Contract 1\Data Gap Investigation\FIG-02.dgn



LEGEND

LOW LEVEL AREA OF ENVIRONMENTAL CONCERN (LLAOEC)

AREA OF ENVIRONMENTAL CONCERN (AOEC)

MAGUIRE SOIL BORING

DTC SOIL BORING

NOTES:

1. THE BASE MAP FOR THIS SITE PLAN WAS PROVIDED TO DTC BY CONNDOT

GRAPHIC SCALE

80 0 40 80 160

(IN FEET)

DTC PROJECT NUMBER: 09-188-02E
DTC DRAWING FILE: ...\FIG-03.dgn
SCALE: 1" = 80'±
DRAWN BY: STG
DATE: 1/18/11
CHECKED BY: ES

DIVERSIFIED TECHNOLOGY CONSULTANTS
2321 Whitney Avenue - Suite 301 - Hamden, CT 06518
203 230 4200 203 234 7376 FAX

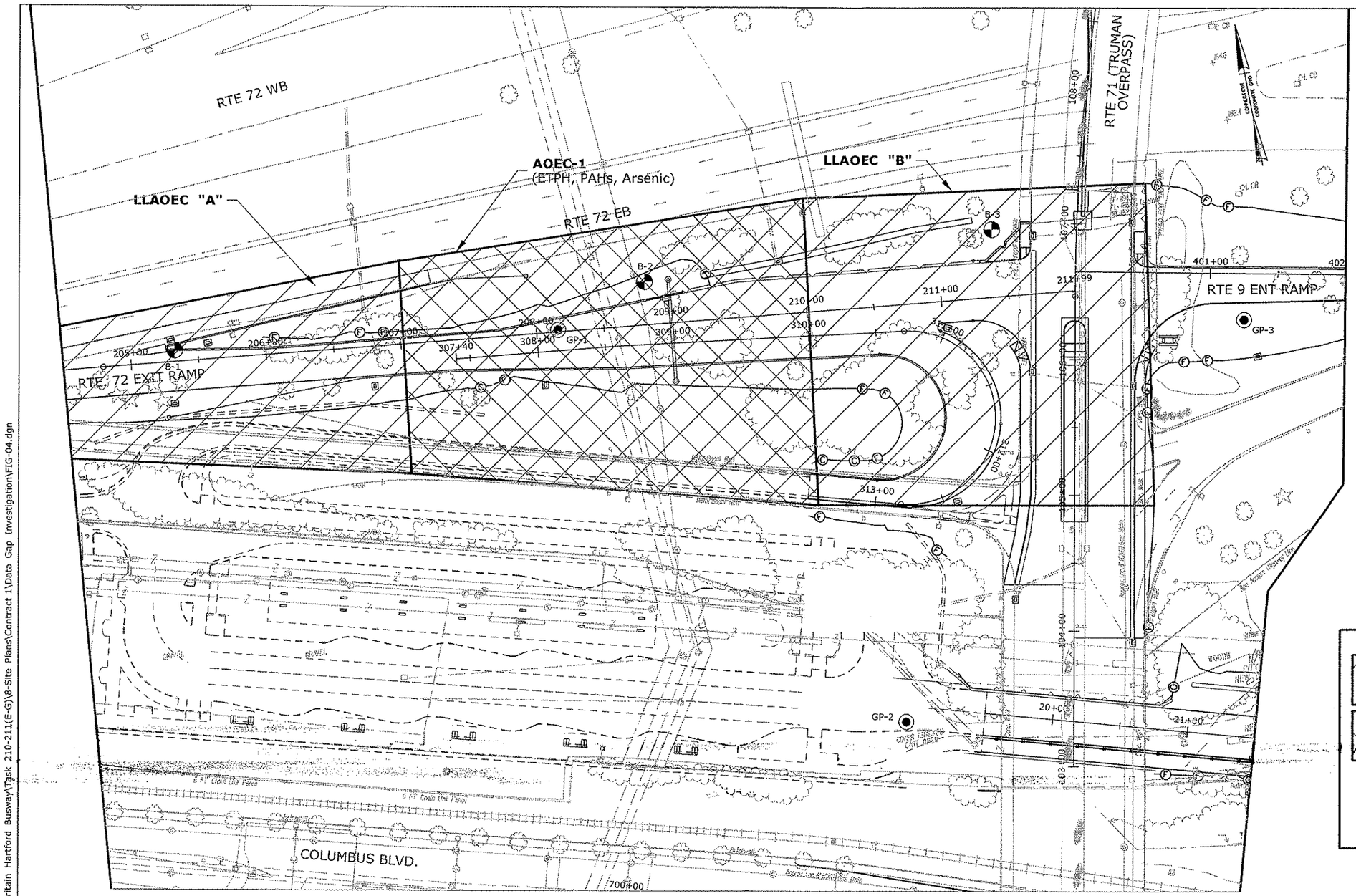
TASK 210
PRELIMINARY SOIL AREAS OF CONCERN

CONTRACT 1 DATA GAP INVESTIGATION

NEW BRITAIN - HARTFORD BUSWAY
NEW BRITAIN, CT

FIGURE 3

P:\-Environmental\DOT 09188\02 New Britain Hartford Busway\Task 210-21X(E-G)\8-Site Plans\Contract 1\Data Gap Investigation\FIG-03.dgn



NOTES:

1. THE BASE MAP FOR THIS SITE PLAN WAS PROVIDED TO DTC BY CONNDOT

LEGEND

- LOW LEVEL AREA OF ENVIRONMENTAL CONCERN (LLAOEC)
- AREA OF ENVIRONMENTAL CONCERN (AOEC)
- MAGUIRE SOIL BORING
- DTC SOIL BORING

GRAPHIC SCALE

80 0 40 80 160

(IN FEET)

DTC PROJECT NUMBER: 09-188-02E
DTC DRAWING FILE: ...\FIG-04.dgn
SCALE: 1" = 80'±
DRAWN BY: STG
DATE: 1/18/11
CHECKED BY: ES

DIVERSIFIED TECHNOLOGY CONSULTANTS
2321 Whitney Avenue - Suite 301 - Hamden, CT 06518
203 239 4260 203 234 7376 FAX

TASK 210
PRELIMINARY SOIL AREAS OF CONCERN

CONTRACT 1 DATA GAP INVESTIGATION

NEW BRITAIN - HARTFORD BUSWAY
NEW BRITAIN, CT

FIGURE 4

P:_Environmental\DOT 09188\02 New Britain Hartford Busway\Task 210-211(E-G)\8-Site Plans\Contract 1\Data Gap Investigation\FIG-04.dgn

TABLES

TABLE 1

Soil Sample Location Rationale and Selected Analyses

Task 210 – Subsurface Site Investigation

New Britain to Hartford Busway – Contract 1 Data Gap Investigation

New Britain, Connecticut

Sample Identification	Sample Interval (feet)	Location Rationale	VOCs (8260)	PAHs (8270)	ETPH	RCRA 5 Metals (As, Cd, Cr, Hg, & Pb)	PCBs (8082)	Pesticides (8081)
B-1	0-2	Soil, within Limits of proposed Contract 1 Busway construction activities	X	X	X	X	X	X
	4-5		X	X	X	X	X	
B-2	0-1	Soil, within Limits of proposed Contract 1 Busway construction activities	X	X	X	X*	X	X
	4-6		X	X	X	X*	X	
	8-10			X	X			
B-3	0-2	Soil, within Limits of proposed Contract 1 Busway construction activities	X	X	X	X	X	X
	4-5.5		X	X	X	X	X	

Notes:

* Sample also analyzed by SPLP and/or TCLP.

TABLE 2

Soil Sample Analytical Results

Task 210 - Subsurface Site Investigation

New Britain to Hartford Busway - Contract 1 - Data Gap Investigation

New Britain, Connecticut

Parameters	Remediation Standard Regulations			B-1	B-1	B-2	B-2	B-2	B-3	B-3	Duplicate-1	Trip
				0-2'	4-5'	0-1'	4-6'	8-10'	0-2'	4-5.5'	B-3 (4-5.5')	Blank
	RES DEC	I/C DEC	GB PMC	12/16/10	12/16/10	12/16/10	12/16/10	12/16/10	12/16/10	12/16/10	12/16/10	12/16/10
VOCs per EPA 8260 (mg/kg)	Various	Various	Various	--	--	--	--	*NA*	--	--	--	--
PAHs per EPA 8270 (mg/kg)												*NA*
Benzo (a) anthracene	1	7.8	1	0.981	0.632	2.26	15.6	0.585	--	0.492	0.512	
Benzo (a) pyrene	1	1	1	0.911	0.523	1.92	12.9	0.435	--	0.527	0.545	
Benzo (b) fluoranthene	1	7.8	1	0.829	0.472	2.05	12.6	0.378	--	0.55	0.499	
Benzo (k) fluoranthene	8.4	78	1	0.818	0.495	1.85	11.9	--	--	0.468	0.558	
Chrysene	84	780	1	0.897	0.563	2.13	11.8	0.475	--	0.526	0.5	
Fluoranthene	1,000	2,500	56	1.22	0.776	2.95	18.2	0.728	--	0.958	0.942	
Phenanthrene	1,000	2,500	40	0.599	0.494	1.44	4.22	--	--	0.487	0.44	
Pyrene	1,000	2,500	40	1.14	0.712	2.63	16.1	0.62	--	1.01	0.965	
ETPH per CTDEP method (mg/kg)	500	2,500	2,500	119	91.9	286	1,430	67.6	--	185	170	*NA*
Total RCRA Metals per EPA 6010 & 7471 (mg/kg)								*NA*				*NA*
Arsenic	10	10	NE	4.58	4.63	13.8	4.4		--	1.73	2.1	
Cadmium	34	1,000	NE	0.622	0.602	1.43	0.684		--	--	--	
Total Chromium	100	100	NE	20.4	17.6	34.7	17		8.93	12.2	12	
Mercury	20	610	NE	0.504	0.534	0.623	0.266		--	--	0.0502	
Lead	500	1,000	NE	51.4	41.6	109	70.3		6.07	28.8	45.4	
SPLP Metals per EPA 6010 (mg/l)				*NA*	*NA*			*NA*	*NA*	*NA*	*NA*	*NA*
Arsenic	*NA*	*NA*	0.1			--	*NA*					
Lead	*NA*	*NA*	0.15			--	--					
TCLP Metals per EPA 6010 (mg/l)				*NA*	*NA*		*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Lead	*NA*	*NA*	5*			0.0698						
PCBs per EPA 8082 (mg/kg)	1	10	*NA*	--	--	--	--	*NA*	--	--	--	*NA*
Chlorinated Pesticides per EPA 8081 (mg/kg)	Various	Various	Various	--	*NA*	--	*NA*	*NA*	--	*NA*	*NA*	*NA*

Notes:
RES DEC = Residential Direct Exposure Criteria.
I/C DEC = Industrial/Commercial Direct Exposure Criteria.
GB PMC = GB Pollutant Mobility Criteria.
VOCs = Volatile Organic Compounds.
PAHs = Polynuclear Aromatic Hydrocarbons
ETPH = Extractable Total Petroleum Hydrocarbons.
SPLP = Synthetic Precipitation Leaching Procedure.
TCLP = Toxicity Characteristic Leaching Procedure.
PCBs = Polychlorinated Biphenyls.
mg/kg = milligrams per kilogram.
mg/l = milligrams per liter.
* RCRA Characteristically Hazardous Waste Regulatory Limit
-- = not detected, see laboratory reports for specific detection limits.
NA = not applicable / not analyzed for this compound.
NE = Criteria not established.
Shaded values indicate an exceedance of the RES DEC.
Bold values indicate an exceedance of the GB PMC.

APPENDIX A

Soil Boring Logs

ENGINEERED SOLUTIONS — LAND STRUCTURES WATER

DIVERSIFIED TECHNOLOGY CONSULTANTS

Subsurface Log

Sheet 1 of 1

Date started: 12/16/10
Date Completed: 12/16/10

BORING No. B-1

Project: New Britain to Hartford Busway - Contract 1
Location: New Britain, CT

Method of investigation: Geoprobe

Project No.: 09-188-02E
P. Manager: Ethan Stewart
Drilling Co.: Logical Env. Solutions
Geologist: J. Andrew
Driller: Wayne
D. Helper: Cindy
Drill Rig: Geoprobe
Weather: 20's

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-4		0-0.4			24	Topsoil, organic matter		Groundwater not observed
		0.4-2				Brown M SAND some gravel, rock	0.0	
4-8		4-5			12	Brown C-M SAND with gravel, rock (refusal @ 5')		
						END OF BORING @ 5'		

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet 1 of 1	Date started: 12/16/10 Date Completed: 12/16/10	BORING No. B-2
	Project: New Britain to Hartford Busway - Contract 1 Location: New Britain, CT			Method of investigation: Geoprobe

Project No.: 09-188-02E	Drilling Co.: Logical Env. Solutions	Driller: Wayne	Drill Rig: Geoprobe	Weather: 20's
P. Manager: Ethan Stewart	Geologist: J. Andrew	D. Helper: Cindy		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-4		0-0.4			12	Topsoil, organic		Groundwater not observed
	1	0.4-1				Dark brown M-C SAND with gravel, brick, FILL	0.0	
4-8		4-4.5			24	Dark brown C-M SAND with gravel, brick, FILL		
	2	4.5-6				Brown M-F SAND with asphalt, brick, concrete, FILL	0.0	
8-12	3	8-10			24	Brown F-M SAND, little gravel	0.0	
12-16					0	no recovery (refusal @ 13')		
						END OF BORING @ 13'		

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:

ENGINEERED SOLUTIONS — LAND STRUCTURES WATER

DIVERSIFIED TECHNOLOGY CONSULTANTS

Subsurface Log

Sheet 1 of 1

Date started: 12/16/10
Date Completed: 12/16/10

BORING No. B-3

Project: New Britain to Hartford Busway - Contract 1
Location: New Britain, CT

Method of investigation: Geoprobe

Project No.: 09-188-02E
P. Manager: Ethan Stewart
Drilling Co.: Logical Env. Solutions
Geologist: J. Andrew
Driller: Wayne
D. Helper: Cindy
Drill Rig: Geoprobe
Weather: 20's

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-4		0-0.3			24	Topsoil, organic matter		
	1	0.3-2				Brown to red-brown M-F SAND, trace silt	0.0	
4-8		4-5.1			18	Brown to red-brown M-F SAND, little silt	0.0	Groundwater not observed
		5.1-5.5				Black C-M SAND with rock (refusal @ 5.5')		
						END OF BORING @ 5.5'		

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:

APPENDIX B

Soil Analytical Laboratory Report

Report Date:
07-Jan-11 11:22

☐ Final Report
☐ Re-Issued Report
☑ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Diversified Technology Consultants
2321 Whitney Ave., Hamden Center II
Hamden, CT 06518
Attn: Ethan Stewart

Project: NBHB - Contract 1 - New Britain, CT
Project #: 09-188-02E

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB22692-01	B-1 0-2'	Soil	16-Dec-10 08:25	20-Dec-10 16:25
SB22692-02	B-1 4-5'	Soil	16-Dec-10 08:35	20-Dec-10 16:25
SB22692-03	B-2 0-1'	Soil	16-Dec-10 08:50	20-Dec-10 16:25
SB22692-04	B-2 4-6'	Soil	16-Dec-10 08:55	20-Dec-10 16:25
SB22692-05	B-2 8-10'	Soil	16-Dec-10 09:00	20-Dec-10 16:25
SB22692-06	B-3 0-2'	Soil	16-Dec-10 09:15	20-Dec-10 16:25
SB22692-07	B-3 4-5.5'	Soil	16-Dec-10 09:20	20-Dec-10 16:25
SB22692-08	Duplicate-1	Soil	16-Dec-10 00:00	20-Dec-10 16:25
SB22692-09	Trip Blank	Methanol/Deionized Water	16-Dec-10 00:00	20-Dec-10 16:25

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

NELAP ACCREDITED TNI LABORATORY

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.
Please note that this report contains 73 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

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

CASE NARRATIVE:

The sample temperature upon receipt by Spectrum Analytical courier was recorded as 1.7 degrees Celsius. The condition of these samples was further noted as refrigerated. The samples were transported on ice to the laboratory facility and the temperature was recorded at 1.7 degrees Celsius upon receipt at the laboratory. Please refer to the Chain of Custody for details specific to sample receipt times.

An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

Low level VOC soil samples submitted in DI water or in an encore sampler were frozen on 12/20/2010 at 16:25.

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

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.

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. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

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.

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.

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

SW846 1312 SPLP and 1311 TCLP Case Narrative:

Sample SB22692-03 did not contain enough sample to analyze for both SPLPand TCLP at the required weight of 100 grams. The sample was prepared at a ratio of 1:20 with the remaining contents of the sample container. The final sample weight used for this sample was 25 grams for SPLP and 25 grams for TCLP.

Please provide sufficient sample to meet the required weight of the method when a SPLP extraction may be requested.

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

+CT ETPH

Samples:

SB22692-03 *B-2 0-1'*

+CT ETPH

Samples:

SB22692-03 *B-2 0-1'*

The Reporting Limit has been raised to account for matrix interference.

SB22692-04 *B-2 4-6'*

The Reporting Limit has been raised to account for matrix interference.

SB22692-05 *B-2 8-10'*

The Reporting Limit has been raised to account for matrix interference.

SB22692-07 *B-3 4-5.5'*

The Reporting Limit has been raised to account for matrix interference.

SB22692-08 *Duplicate-1*

The Reporting Limit has been raised to account for matrix interference.

SW846 7471B

Spikes:

1026853-MS1 *Source: SB22692-02*

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.

Mercury

1026853-MSD1 *Source: SB22692-02*

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.

Mercury

SW846 8260C

Laboratory Control Samples:

1026397 BS/BSD

1,1,2-Trichlorotrifluoroethane (Freon 113) percent recoveries (66/67) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-1 0-2'

1,1-Dichloroethane percent recoveries (69/71) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-1 0-2'

1,1-Dichloroethene percent recoveries (70/69) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-1 0-2'

Carbon disulfide percent recoveries (69/71) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-1 0-2'

SW846 8260C

Laboratory Control Samples:

1026397 BS/BSD

Chloromethane percent recoveries (69/69) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-1 0-2'

Dichlorodifluoromethane (Freon12) percent recoveries (67/68) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-1 0-2'

trans-1,4-Dichloro-2-butene percent recoveries (142/132) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-1 0-2'

Trichlorofluoromethane (Freon 11) percent recoveries (66/67) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-1 0-2'

Vinyl chloride percent recoveries (63/65) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-1 0-2'

Samples:

S011474-CCV1

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

Vinyl chloride (-21.9%)

This affected the following samples:

1026621-BLK1
1026621-BS1
1026621-BSD1
B-1 4-5'
B-2 0-1'
B-2 4-6'
B-3 0-2'
B-3 4-5.5'
Duplicate-1
Trip Blank

S011514-CCV1

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

1,1,2-Trichlorotrifluoroethane (Freon 113) (-21.4%)
1,1-Dichloroethane (-20.3%)
2,2-Dichloropropane (56.5%)
cis-1,3-Dichloropropene (28.9%)
Dichlorodifluoromethane (Freon12) (-27.6%)
trans-1,3-Dichloropropene (32.9%)
trans-1,4-Dichloro-2-butene (81.3%)
Trichlorofluoromethane (Freon 11) (-23.7%)
Vinyl chloride (-31.2%)

SW846 8260C

Samples:

S011514-CCV1

This affected the following samples:

1026397-BLK1
1026397-BS1
1026397-BSD1
B-1 0-2'

SW846 8270D

Samples:

S011555-CCV1

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

Dibenzo (a,h) anthracene (25.3%)
Fluorene (23.7%)

This affected the following samples:

B-1 0-2'
B-1 4-5'
B-2 0-1'
B-2 4-6'
B-3 0-2'
B-3 4-5.5'
Duplicate-1

S100079-CCV1

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

Fluorene (28.5%)

This affected the following samples:

B-2 8-10'

SB22692-03 *B-2 0-1'*

The Reporting Limit has been raised to account for matrix interference.

SB22692-04 *B-2 4-6'*

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

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-1 0-2' SB22692-01	09-188-02E	Soil	16-Dec-10 08:25	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds												
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Dec-10	20-Dec-10	JLH	1026434	
Volatile Organic Compounds Prepared by method SW846 5035A Soil (low level)					Initial weight: 7.69 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	4.2	1	SW846 8260C	21-Dec-10	22-Dec-10	ek	1026397	X
67-64-1	Acetone	BRL		µg/kg dry	41.9	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
71-43-2	Benzene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/kg dry	8.4	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	41.9	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/kg dry	8.4	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/kg dry	8.4	1	"	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg dry	8.4	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	8.4	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	8.4	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-1 0-2' SB22692-01	09-188-02E	Soil	16-Dec-10 08:25	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds												
Volatile Organic Compounds												
Prepared by method SW846 5035A Soil (low level)					Initial weight: 7.69 g							
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	41.9	1	SW846 8260C	21-Dec-10	22-Dec-10	ek	1026397	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	41.9	1	"	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg dry	8.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
100-42-5	Styrene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	8.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	4.2	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	8.4	1	"	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	4.2	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	4.2	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	4.2	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	4.2	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	41.9	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg dry	83.8	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	21.0	1	"	"	"	"	"	X
64-17-5	Ethanol	BRL		µg/kg dry	1680	1	"	"	"	"	"	
Surrogate recoveries:												
460-00-4	*4-Bromofluorobenzene*	*95*			*70-130 %*		"	"	"	"	"	
2037-26-5	*Toluene-d8*	*104*			*70-130 %*		"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*112*			*70-130 %*		"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*104*			*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GCMS												
PAHs by SW846 8270C												
Prepared by method SW846 3545A												
83-32-9	Acenaphthene	BRL		µg/kg dry	363	1	SW846 8270D	23-Dec-10	23-Dec-10	MSL	1026748	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-1 0-2' SB22692-01	09-188-02E	Soil	16-Dec-10 08:25	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS												
PAHs by SW846 8270C												
Prepared by method SW846 3545A												
208-96-8	Acenaphthylene	BRL		µg/kg dry	363	1	SW846 8270D	23-Dec-10	23-Dec-10	MSL	1026748	X
120-12-7	Anthracene	BRL		µg/kg dry	363	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	981		µg/kg dry	363	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	911		µg/kg dry	363	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	829		µg/kg dry	363	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	363	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	818		µg/kg dry	363	1	"	"	"	"	"	X
218-01-9	Chrysene	897		µg/kg dry	363	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	363	1	"	"	"	"	"	X
206-44-0	Fluoranthene	1,220		µg/kg dry	363	1	"	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/kg dry	363	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	363	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	363	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	363	1	"	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	363	1	"	"	"	"	"	X
85-01-8	Phenanthrene	599		µg/kg dry	363	1	"	"	"	"	"	X
129-00-0	Pyrene	1,140		µg/kg dry	363	1	"	"	"	"	"	X
Surrogate recoveries:												
321-60-8	*2-Fluorobiphenyl*	*51*			*30-130 %*		"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*53*			*30-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GC												
Organochlorine Pesticides SW846 8081A												
Prepared by method SW846 3545A												
319-84-6	alpha-BHC	BRL		µg/kg dry	2.72	1	SW846 8081B	22-Dec-10	23-Dec-10	TG	1026607	X
319-85-7	beta-BHC	BRL		µg/kg dry	2.72	1	"	"	"	"	"	X
319-86-8	delta-BHC	BRL		µg/kg dry	2.72	1	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	BRL		µg/kg dry	2.72	1	"	"	"	"	"	X
76-44-8	Heptachlor	BRL		µg/kg dry	2.72	1	"	"	"	"	"	X
309-00-2	Aldrin	BRL		µg/kg dry	2.72	1	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	BRL		µg/kg dry	2.72	1	"	"	"	"	"	X
959-98-8	Endosulfan I	BRL		µg/kg dry	2.72	1	"	"	"	"	"	X
60-57-1	Dieldrin	BRL		µg/kg dry	2.72	1	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	BRL		µg/kg dry	2.72	1	"	"	"	"	"	X
72-20-8	Endrin	BRL		µg/kg dry	4.35	1	"	"	"	"	"	X
33213-65-9	Endosulfan II	BRL		µg/kg dry	4.35	1	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	BRL		µg/kg dry	4.35	1	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	BRL		µg/kg dry	4.35	1	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	BRL		µg/kg dry	4.35	1	"	"	"	"	"	X
72-43-5	Methoxychlor	BRL		µg/kg dry	4.35	1	"	"	"	"	"	X
53494-70-5	Endrin ketone	BRL		µg/kg dry	4.35	1	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	BRL		µg/kg dry	4.35	1	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	BRL		µg/kg dry	2.72	1	"	"	"	"	"	X
5566-34-7	gamma-Chlordane	BRL		µg/kg dry	2.72	1	"	"	"	"	"	X
8001-35-2	Toxaphene	BRL		µg/kg dry	54.4	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-1 0-2' SB22692-01	09-188-02E	Soil	16-Dec-10 08:25	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC												
Organochlorine Pesticides SW846 8081A Prepared by method SW846 3545A												
57-74-9	Chlordane	BRL		µg/kg dry	10.9	1	SW846 8081B	22-Dec-10	23-Dec-10	TG	1026607	X
15972-60-8	Alachlor	BRL		µg/kg dry	2.72	1	"	"	"	"	"	
Surrogate recoveries:												
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*66*			*30-150 %*		"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*61*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*62*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*57*			*30-150 %*		"	"	"	"	"	
Polychlorinated Biphenyls by SW846 8082 Prepared by method SW846 3545A												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	21.3	1	SW846 8082A	21-Dec-10	23-Dec-10	SM	1026460	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	21.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	21.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	21.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	21.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	21.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	21.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	21.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	21.3	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*83*			*30-150 %*		"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*79*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*96*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*		"	"	"	"	"	
Extractable Petroleum Hydrocarbons												
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3545A												
8006-61-9	Gasoline	BRL		mg/kg dry	14.6	1	+CT ETPH	23-Dec-10	25-Dec-10	SHM	1026753	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	14.6	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	14.6	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	14.6	1	"	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	14.6	1	"	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	14.6	1	"	"	"	"	"	
	Unidentified	119		mg/kg dry	14.6	1	"	"	"	"	"	
	Other Oil	Calculated as		mg/kg dry	14.6	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	119		mg/kg dry	14.6	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	119		mg/kg dry	14.6	1	"	"	"	"	"	
Surrogate recoveries:												
3386-33-2	*1-Chlorooctadecane*	*92*			*50-150 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	4.58		mg/kg dry	1.49	1	SW846 6010C	27-Dec-10	28-Dec-10	TBG	1026852	X
7440-43-9	Cadmium	0.622		mg/kg dry	0.498	1	"	"	"	"	"	X
7440-47-3	Chromium	20.4		mg/kg dry	0.996	1	"	"	28-Dec-10	"	"	X
7439-97-6	Mercury	0.504		mg/kg dry	0.0328	1	SW846 7471B	"	28-Dec-10	ARF	1026853	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
B-1 0-2' SB22692-01	09-188-02E	Soil	16-Dec-10 08:25	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods												
7439-92-1	Lead	51.4		mg/kg dry	1.49	1	SW846 6010C	27-Dec-10	28-Dec-10	TBG	1026852	X
General Chemistry Parameters												
	% Solids	89.8		%		1	SM2540 G Mod.	21-Dec-10	21-Dec-10	DT	1026475	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-1 4-5' SB22692-02	09-188-02E	Soil	16-Dec-10 08:35	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds												
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Dec-10	20-Dec-10	JLH	1026434	
Volatile Organic Compounds Prepared by method SW846 5035A Soil (low level)					Initial weight: 11.55 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	2.9	1	SW846 8260C	22-Dec-10	22-Dec-10	JRO	1026621	X
67-64-1	Acetone	BRL		µg/kg dry	29.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
71-43-2	Benzene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	29.0	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/kg dry	5.8	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	5.8	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	5.8	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-1 4-5' SB22692-02	09-188-02E	Soil	16-Dec-10 08:35	20-Dec-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds												
Volatile Organic Compounds												
Prepared by method SW846 5035A Soil (low level)					Initial weight: 11.55 g							
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	29.0	1	SW846 8260C	22-Dec-10	22-Dec-10	JRO	1026621	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	29.0	1	"	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg dry	5.8	1	"	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
100-42-5	Styrene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	5.8	1	"	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	2.9	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	5.8	1	"	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	2.9	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	2.9	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	2.9	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	2.9	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	29.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg dry	58.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	14.5	1	"	"	"	"	"	X
64-17-5	Ethanol	BRL		µg/kg dry	1160	1	"	"	"	"	"	
Surrogate recoveries:												
460-00-4	*4-Bromofluorobenzene*	*101*			*70-130 %*		"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*		"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*120*			*70-130 %*		"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*			*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GCMS												
PAHs by SW846 8270C												
Prepared by method SW846 3545A												
83-32-9	Acenaphthene	BRL		µg/kg dry	357	1	SW846 8270D	23-Dec-10	23-Dec-10	MSL	1026748	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
B-1 4-5' SB22692-02	09-188-02E	Soil	16-Dec-10 08:35	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS												
PAHs by SW846 8270C Prepared by method SW846 3545A												
208-96-8	Acenaphthylene	BRL		µg/kg dry	357	1	SW846 8270D	23-Dec-10	23-Dec-10	MSL	1026748	X
120-12-7	Anthracene	BRL		µg/kg dry	357	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	632		µg/kg dry	357	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	523		µg/kg dry	357	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	472		µg/kg dry	357	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	357	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	495		µg/kg dry	357	1	"	"	"	"	"	X
218-01-9	Chrysene	563		µg/kg dry	357	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	357	1	"	"	"	"	"	X
206-44-0	Fluoranthene	776		µg/kg dry	357	1	"	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/kg dry	357	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	357	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	357	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	357	1	"	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	357	1	"	"	"	"	"	X
85-01-8	Phenanthrene	494		µg/kg dry	357	1	"	"	"	"	"	X
129-00-0	Pyrene	712		µg/kg dry	357	1	"	"	"	"	"	X
Surrogate recoveries:												
321-60-8	*2-Fluorobiphenyl*	*57*			*30-130 %*		"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*66*			*30-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082 Prepared by method SW846 3545A												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	22.0	1	SW846 8082A	21-Dec-10	23-Dec-10	SM	1026460	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	22.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	22.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	22.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	22.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	22.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	22.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	22.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	22.0	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*82*			*30-150 %*		"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*70*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*117*			*30-150 %*		"	"	"	"	"	
Extractable Petroleum Hydrocarbons												
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3545A												
8006-61-9	Gasoline	BRL		mg/kg dry	14.4	1	+CT ETPH	23-Dec-10	25-Dec-10	SHM	1026753	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	14.4	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	14.4	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	14.4	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
B-1 4-5' SB22692-02	09-188-02E	Soil	16-Dec-10 08:35	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons												
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3545A												
M09800000	Motor Oil	BRL		mg/kg dry	14.4	1	+CT ETPH	23-Dec-10	25-Dec-10	SHM	1026753	
J00100000	Aviation Fuel	BRL		mg/kg dry	14.4	1	"	"	"	"	"	
	Unidentified	91.9		mg/kg dry	14.4	1	"	"	"	"	"	
	Other Oil	Calculated as		mg/kg dry	14.4	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	91.9		mg/kg dry	14.4	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	91.9		mg/kg dry	14.4	1	"	"	"	"	"	
Surrogate recoveries:												
3386-33-2	*1-Chlorooctadecane*	*110*			*50-150 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	4.63		mg/kg dry	1.48	1	SW846 6010C	27-Dec-10	28-Dec-10	TBG	1026852	X
7440-43-9	Cadmium	0.602		mg/kg dry	0.494	1	"	"	"	"	"	X
7440-47-3	Chromium	17.6		mg/kg dry	0.988	1	"	"	28-Dec-10	"	"	X
7439-97-6	Mercury	0.534		mg/kg dry	0.0329	1	SW846 7471B	"	28-Dec-10	ARF	1026853	X
7439-92-1	Lead	41.6		mg/kg dry	1.48	1	SW846 6010C	"	28-Dec-10	TBG	1026852	X
General Chemistry Parameters												
	% Solids	90.7		%		1	SM2540 G Mod.	21-Dec-10	21-Dec-10	DT	1026475	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-2 0-1' SB22692-03	09-188-02E	Soil	16-Dec-10 08:50	20-Dec-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds												
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Dec-10	20-Dec-10	JLH	1026434	
Volatile Organic Compounds Prepared by method SW846 5035A Soil (low level)					Initial weight: 10.91 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	3.4	1	SW846 8260C	22-Dec-10	22-Dec-10	JRO	1026621	X
67-64-1	Acetone	BRL		µg/kg dry	34.3	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
71-43-2	Benzene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/kg dry	6.9	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	34.3	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/kg dry	6.9	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/kg dry	6.9	1	"	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg dry	6.9	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	6.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	6.9	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-2 0-1' SB22692-03	09-188-02E	Soil	16-Dec-10 08:50	20-Dec-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds												
Volatile Organic Compounds												
Prepared by method SW846 5035A Soil (low level)					Initial weight: 10.91 g							
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	34.3	1	SW846 8260C	22-Dec-10	22-Dec-10	JRO	1026621	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	34.3	1	"	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg dry	6.9	1	"	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
100-42-5	Styrene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	6.9	1	"	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	3.4	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	6.9	1	"	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	3.4	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	3.4	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	3.4	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	3.4	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	34.3	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg dry	68.7	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	17.2	1	"	"	"	"	"	X
64-17-5	Ethanol	BRL		µg/kg dry	1370	1	"	"	"	"	"	
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*	*119*			*70-130 %*		"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*			*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GCMS												
PAHs by SW846 8270C			R01									
Prepared by method SW846 3545A												
83-32-9	Acenaphthene	BRL		µg/kg dry	745	2	SW846 8270D	23-Dec-10	23-Dec-10	MSL	1026748	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
B-2 0-1' SB22692-03	09-188-02E	Soil	16-Dec-10 08:50	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS												
PAHs by SW846 8270C			R01									
Prepared by method SW846 3545A												
208-96-8	Acenaphthylene	BRL		µg/kg dry	745	2	SW846 8270D	23-Dec-10	23-Dec-10	MSL	1026748	X
120-12-7	Anthracene	BRL		µg/kg dry	745	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	2,260		µg/kg dry	745	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	1,920		µg/kg dry	745	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	2,050		µg/kg dry	745	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	745	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	1,850		µg/kg dry	745	2	"	"	"	"	"	X
218-01-9	Chrysene	2,130		µg/kg dry	745	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	745	2	"	"	"	"	"	X
206-44-0	Fluoranthene	2,950		µg/kg dry	745	2	"	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/kg dry	745	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	745	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	745	2	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	745	2	"	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	745	2	"	"	"	"	"	X
85-01-8	Phenanthrene	1,440		µg/kg dry	745	2	"	"	"	"	"	X
129-00-0	Pyrene	2,630		µg/kg dry	745	2	"	"	"	"	"	X
Surrogate recoveries:												
321-60-8	*2-Fluorobiphenyl*	*53*			*30-130 %*		"	"	"	"	"	
1718-51-0	*Terphenyl-d14*	*62*			*30-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GC												
Organochlorine Pesticides SW846 8081A												
Prepared by method SW846 3545A												
319-84-6	alpha-BHC	BRL		µg/kg dry	2.81	1	SW846 8081B	22-Dec-10	23-Dec-10	TG	1026607	X
319-85-7	beta-BHC	BRL		µg/kg dry	2.81	1	"	"	"	"	"	X
319-86-8	delta-BHC	BRL		µg/kg dry	2.81	1	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	BRL		µg/kg dry	2.81	1	"	"	"	"	"	X
76-44-8	Heptachlor	BRL		µg/kg dry	2.81	1	"	"	"	"	"	X
309-00-2	Aldrin	BRL		µg/kg dry	2.81	1	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	BRL		µg/kg dry	2.81	1	"	"	"	"	"	X
959-98-8	Endosulfan I	BRL		µg/kg dry	2.81	1	"	"	"	"	"	X
60-57-1	Dieldrin	BRL		µg/kg dry	2.81	1	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	BRL		µg/kg dry	2.81	1	"	"	"	"	"	X
72-20-8	Endrin	BRL		µg/kg dry	4.50	1	"	"	"	"	"	X
33213-65-9	Endosulfan II	BRL		µg/kg dry	4.50	1	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	BRL		µg/kg dry	4.50	1	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	BRL		µg/kg dry	4.50	1	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	BRL		µg/kg dry	4.50	1	"	"	"	"	"	X
72-43-5	Methoxychlor	BRL		µg/kg dry	4.50	1	"	"	"	"	"	X
53494-70-5	Endrin ketone	BRL		µg/kg dry	4.50	1	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	BRL		µg/kg dry	4.50	1	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	BRL		µg/kg dry	2.81	1	"	"	"	"	"	X
5566-34-7	gamma-Chlordane	BRL		µg/kg dry	2.81	1	"	"	"	"	"	X
8001-35-2	Toxaphene	BRL		µg/kg dry	56.3	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-2 0-1' SB22692-03	09-188-02E	Soil	16-Dec-10 08:50	20-Dec-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
Organochlorine Pesticides SW846 8081A Prepared by method SW846 3545A												
57-74-9	Chlordane	BRL		µg/kg dry	11.3	1	SW846 8081B	22-Dec-10	23-Dec-10	TG	1026607	X
15972-60-8	Alachlor	BRL		µg/kg dry	2.81	1	"	"	"	"	"	
Surrogate recoveries:												
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*73*			*30-150 %*		"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*64*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*38*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*36*			*30-150 %*		"	"	"	"	"	
Polychlorinated Biphenyls by SW846 8082 Prepared by method SW846 3545A												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	22.6	1	SW846 8082A	21-Dec-10	23-Dec-10	SM	1026460	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	22.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	22.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	22.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	22.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	22.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	22.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	22.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	22.6	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*		"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*76*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*101*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*		"	"	"	"	"	
Extractable Petroleum Hydrocarbons												
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3545A			R01									
8006-61-9	Gasoline	BRL		mg/kg dry	30.0	2	+CT ETPH	23-Dec-10	25-Dec-10	SHM	1026753	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	30.0	2	"	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	30.0	2	"	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	30.0	2	"	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	30.0	2	"	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	30.0	2	"	"	"	"	"	
	Unidentified	286		mg/kg dry	30.0	2	"	"	"	"	"	
	Other Oil	Calculated as		mg/kg dry	30.0	2	"	"	"	"	"	
	Total Petroleum Hydrocarbons	286		mg/kg dry	30.0	2	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	286		mg/kg dry	30.0	2	"	"	"	"	"	
Surrogate recoveries:												
3386-33-2	*1-Chlorooctadecane*	*95*			*50-150 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	13.8		mg/kg dry	1.52	1	SW846 6010C	27-Dec-10	28-Dec-10	TBG	1026852	X
7440-43-9	Cadmium	1.43		mg/kg dry	0.506	1	"	"	"	"	"	X
7440-47-3	Chromium	34.7		mg/kg dry	1.01	1	"	"	28-Dec-10	"	"	X
7439-97-6	Mercury	0.623		mg/kg dry	0.0347	1	SW846 7471B	"	28-Dec-10	ARF	1026853	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
B-2 0-1' SB22692-03	09-188-02E	Soil	16-Dec-10 08:50	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods												
7439-92-1	Lead	109		mg/kg dry	1.52	1	SW846 6010C	27-Dec-10	28-Dec-10	TBG	1026852	X
TCLP Metals by EPA 1311 & 6000/7000 Series Methods												
	TCLP Extraction	Completed		N/A		1	SW846 1311	03-Jan-11	04-Jan-11	JLH	1100060	X
7439-92-1	Lead	0.0698		mg/l	0.0150	1	SW846 1311/6010C	04-Jan-11	04-Jan-11	TBC	1100113	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods												
	SPLP Extraction	Completed		N/A		1	SW846 1312	03-Jan-11	04-Jan-11	JLH	1100058	X
7440-38-2	Arsenic	BRL		mg/l	0.0040	1	SW846 1312/6010C	04-Jan-11	05-Jan-11	TBC	1100111	
7439-92-1	Lead	BRL		mg/l	0.0075	1	"	"	"	"	"	X
General Chemistry Parameters												
	% Solids	86.5		%		1	SM2540 G Mod.	21-Dec-10	21-Dec-10	DT	1026475	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-2 4-6' SB22692-04	09-188-02E	Soil	16-Dec-10 08:55	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds												
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Dec-10	20-Dec-10	JLH	1026434	
Volatile Organic Compounds Prepared by method SW846 5035A Soil (low level)					Initial weight: 8.21 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	3.7	1	SW846 8260C	22-Dec-10	22-Dec-10	JRO	1026621	X
67-64-1	Acetone	BRL		µg/kg dry	37.3	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	7.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	37.3	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	7.5	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	7.5	1	"	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg dry	3.7	1	"	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg dry	7.5	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	7.5	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	7.5	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

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-2 4-6' SB22692-04	09-188-02E	Soil	16-Dec-10 08:55	20-Dec-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds												
Volatile Organic Compounds												
Prepared by method SW846 5035A Soil (low level)					Initial weight: 8.21 g							
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	37.3	1	SW846 8260C	22-Dec-10	22-Dec-10	JRO	1026621	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	37.3	1	"	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg dry	7.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	3.7	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	"	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	"	"	"	"	"	X
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	7.5	1	"	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	3.7	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	7.5	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	37.3	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg dry	74.5	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	18.6	1	"	"	"	"	"	X
64-17-5	Ethanol	BRL		µg/kg dry	1490	1	"	"	"	"	"	
Surrogate recoveries:												
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*		"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*		"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*122*			*70-130 %*		"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*107*			*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GCMS												
PAHs by SW846 8270C			GS1									
Prepared by method SW846 3545A												
83-32-9	Acenaphthene	BRL		µg/kg dry	3550	10	SW846 8270D	23-Dec-10	23-Dec-10	MSL	1026748	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
B-2 4-6' SB22692-04	09-188-02E	Soil	16-Dec-10 08:55	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS												
PAHs by SW846 8270C Prepared by method SW846 3545A			GS1									
208-96-8	Acenaphthylene	BRL		µg/kg dry	3550	10	SW846 8270D	23-Dec-10	23-Dec-10	MSL	1026748	X
120-12-7	Anthracene	BRL		µg/kg dry	3550	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	15,600		µg/kg dry	3550	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	12,900		µg/kg dry	3550	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	12,600		µg/kg dry	3550	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	3550	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	11,900		µg/kg dry	3550	10	"	"	"	"	"	X
218-01-9	Chrysene	11,800		µg/kg dry	3550	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	3550	10	"	"	"	"	"	X
206-44-0	Fluoranthene	18,200		µg/kg dry	3550	10	"	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/kg dry	3550	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	3550	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	3550	10	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	3550	10	"	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	3550	10	"	"	"	"	"	X
85-01-8	Phenanthrene	4,220		µg/kg dry	3550	10	"	"	"	"	"	X
129-00-0	Pyrene	16,100		µg/kg dry	3550	10	"	"	"	"	"	X
Surrogate recoveries:												
321-60-8	*2-Fluorobiphenyl*	*51*			*30-130 %*		"	"	"	"	"	
1718-51-0	*Terphenyl-d14*	*64*			*30-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082 Prepared by method SW846 3545A												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	20.8	1	SW846 8082A	21-Dec-10	23-Dec-10	SM	1026460	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	20.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	20.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	20.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	20.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	20.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	20.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	20.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	20.8	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*59*			*30-150 %*		"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*54*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*74*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*53*			*30-150 %*		"	"	"	"	"	
Extractable Petroleum Hydrocarbons												
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3545A			R01									
8006-61-9	Gasoline	BRL		mg/kg dry	143	10	+CT ETPH	23-Dec-10	25-Dec-10	SHM	1026753	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	143	10	"	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	143	10	"	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	143	10	"	"	"	"	"	

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
B-2 4-6' SB22692-04	09-188-02E	Soil	16-Dec-10 08:55	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons												
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3545A			R01									
M09800000	Motor Oil	BRL		mg/kg dry	143	10	+CT ETPH	23-Dec-10	25-Dec-10	SHM	1026753	
J00100000	Aviation Fuel	BRL		mg/kg dry	143	10	"	"	"	"	"	
	Unidentified	1,430		mg/kg dry	143	10	"	"	"	"	"	
	Other Oil	Calculated as		mg/kg dry	143	10	"	"	"	"	"	
	Total Petroleum Hydrocarbons	1,430		mg/kg dry	143	10	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	1,430		mg/kg dry	143	10	"	"	"	"	"	
Surrogate recoveries:												
3386-33-2	*1-Chlorooctadecane*	*87*			*50-150 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	4.40		mg/kg dry	1.54	1	SW846 6010C	27-Dec-10	28-Dec-10	TBG	1026852	X
7440-43-9	Cadmium	0.684		mg/kg dry	0.514	1	"	"	"	"	"	X
7440-47-3	Chromium	17.0		mg/kg dry	1.03	1	"	"	28-Dec-10	"	"	X
7439-97-6	Mercury	0.266		mg/kg dry	0.0301	1	SW846 7471B	"	28-Dec-10	ARF	1026853	X
7439-92-1	Lead	70.3		mg/kg dry	1.54	1	SW846 6010C	"	28-Dec-10	TBG	1026852	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods												
	SPLP Extraction	Completed		N/A		1	SW846 1312	03-Jan-11	04-Jan-11	JLH	1100058	X
7439-92-1	Lead	BRL		mg/l	0.0075	1	SW846 1312/6010C	04-Jan-11	05-Jan-11	TBC	1100111	X
General Chemistry Parameters												
	% Solids	92.2		%		1	SM2540 G Mod.	21-Dec-10	21-Dec-10	DT	1026475	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-2 8-10' SB22692-05	09-188-02E	Soil	16-Dec-10 09:00	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS												
PAHs by SW846 8270C												
Prepared by method SW846 3545A												
83-32-9	Acenaphthene	BRL		µg/kg dry	354	1	SW846 8270D	29-Dec-10	04-Jan-11	MSL	1027133	X
208-96-8	Acenaphthylene	BRL		µg/kg dry	354	1	"	"	"	"	"	X
120-12-7	Anthracene	BRL		µg/kg dry	354	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	585		µg/kg dry	354	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	435		µg/kg dry	354	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	378		µg/kg dry	354	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	354	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	354	1	"	"	"	"	"	X
218-01-9	Chrysene	475		µg/kg dry	354	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	354	1	"	"	"	"	"	X
206-44-0	Fluoranthene	728		µg/kg dry	354	1	"	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/kg dry	354	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	354	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	354	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	354	1	"	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	354	1	"	"	"	"	"	X
85-01-8	Phenanthrene	BRL		µg/kg dry	354	1	"	"	"	"	"	X
129-00-0	Pyrene	620		µg/kg dry	354	1	"	"	"	"	"	X
Surrogate recoveries:												
321-60-8	*2-Fluorobiphenyl*	*62*			*30-130 %*		"	"	"	"	"	
1718-51-0	*Terphenyl-d14*	*61*			*30-130 %*		"	"	"	"	"	
Extractable Petroleum Hydrocarbons												
Extractable Total Petroleum Hydrocarbons			R01									
Prepared by method SW846 3545A												
8006-61-9	Gasoline	BRL		mg/kg dry	28.5	2	+CT ETPH	30-Dec-10	03-Jan-11	SHM	1027237	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	28.5	2	"	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	28.5	2	"	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	28.5	2	"	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	28.5	2	"	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	28.5	2	"	"	"	"	"	
	Unidentified	67.6		mg/kg dry	28.5	2	"	"	"	"	"	
	Other Oil	Calculated as		mg/kg dry	28.5	2	"	"	"	"	"	
	Total Petroleum Hydrocarbons	67.6		mg/kg dry	28.5	2	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	67.6		mg/kg dry	28.5	2	"	"	"	"	"	
Surrogate recoveries:												
3386-33-2	*1-Chlorooctadecane*	*73*			*50-150 %*		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	91.7		%		1	SM2540 G Mod.	30-Dec-10	30-Dec-10	BD	1027241	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-3 0-2' SB22692-06	09-188-02E	Soil	16-Dec-10 09:15	20-Dec-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds												
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Dec-10	20-Dec-10	JLH	1026434	
Volatile Organic Compounds Prepared by method SW846 5035A Soil (low level)					Initial weight: 10.72 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	3.3	1	SW846 8260C	22-Dec-10	22-Dec-10	JRO	1026621	X
67-64-1	Acetone	BRL		µg/kg dry	32.9	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
71-43-2	Benzene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/kg dry	6.6	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	32.9	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/kg dry	6.6	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/kg dry	6.6	1	"	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg dry	6.6	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	6.6	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	6.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-3 0-2' SB22692-06	09-188-02E	Soil	16-Dec-10 09:15	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds												
Volatile Organic Compounds												
Prepared by method SW846 5035A Soil (low level)					Initial weight: 10.72 g							
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	32.9	1	SW846 8260C	22-Dec-10	22-Dec-10	JRO	1026621	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	32.9	1	"	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg dry	6.6	1	"	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
100-42-5	Styrene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	6.6	1	"	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	3.3	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	6.6	1	"	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	3.3	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	3.3	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	3.3	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	3.3	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	32.9	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg dry	65.7	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	16.4	1	"	"	"	"	"	X
64-17-5	Ethanol	BRL		µg/kg dry	1310	1	"	"	"	"	"	
Surrogate recoveries:												
460-00-4	*4-Bromofluorobenzene*	*101*			*70-130 %*		"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*		"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*119*			*70-130 %*		"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*			*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GCMS												
PAHs by SW846 8270C												
Prepared by method SW846 3545A												
83-32-9	Acenaphthene	BRL		µg/kg dry	373	1	SW846 8270D	23-Dec-10	23-Dec-10	MSL	1026748	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-3 0-2' SB22692-06	09-188-02E	Soil	16-Dec-10 09:15	20-Dec-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS												
PAHs by SW846 8270C												
Prepared by method SW846 3545A												
208-96-8	Acenaphthylene	BRL		µg/kg dry	373	1	SW846 8270D	23-Dec-10	23-Dec-10	MSL	1026748	X
120-12-7	Anthracene	BRL		µg/kg dry	373	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	373	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	373	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	373	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	373	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	373	1	"	"	"	"	"	X
218-01-9	Chrysene	BRL		µg/kg dry	373	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	373	1	"	"	"	"	"	X
206-44-0	Fluoranthene	BRL		µg/kg dry	373	1	"	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/kg dry	373	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	373	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	373	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	373	1	"	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	373	1	"	"	"	"	"	X
85-01-8	Phenanthrene	BRL		µg/kg dry	373	1	"	"	"	"	"	X
129-00-0	Pyrene	BRL		µg/kg dry	373	1	"	"	"	"	"	X
Surrogate recoveries:												
321-60-8	*2-Fluorobiphenyl*	*60*			*30-130 %*		"	"	"	"	"	
1718-51-0	*Terphenyl-d14*	*72*			*30-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GC												
Organochlorine Pesticides SW846 8081A												
Prepared by method SW846 3545A												
319-84-6	alpha-BHC	BRL		µg/kg dry	2.77	1	SW846 8081B	22-Dec-10	23-Dec-10	TG	1026607	X
319-85-7	beta-BHC	BRL		µg/kg dry	2.77	1	"	"	"	"	"	X
319-86-8	delta-BHC	BRL		µg/kg dry	2.77	1	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	BRL		µg/kg dry	2.77	1	"	"	"	"	"	X
76-44-8	Heptachlor	BRL		µg/kg dry	2.77	1	"	"	"	"	"	X
309-00-2	Aldrin	BRL		µg/kg dry	2.77	1	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	BRL		µg/kg dry	2.77	1	"	"	"	"	"	X
959-98-8	Endosulfan I	BRL		µg/kg dry	2.77	1	"	"	"	"	"	X
60-57-1	Dieldrin	BRL		µg/kg dry	2.77	1	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	BRL		µg/kg dry	2.77	1	"	"	"	"	"	X
72-20-8	Endrin	BRL		µg/kg dry	4.44	1	"	"	"	"	"	X
33213-65-9	Endosulfan II	BRL		µg/kg dry	4.44	1	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	BRL		µg/kg dry	4.44	1	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	BRL		µg/kg dry	4.44	1	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	BRL		µg/kg dry	4.44	1	"	"	"	"	"	X
72-43-5	Methoxychlor	BRL		µg/kg dry	4.44	1	"	"	"	"	"	X
53494-70-5	Endrin ketone	BRL		µg/kg dry	4.44	1	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	BRL		µg/kg dry	4.44	1	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	BRL		µg/kg dry	2.77	1	"	"	"	"	"	X
5566-34-7	gamma-Chlordane	BRL		µg/kg dry	2.77	1	"	"	"	"	"	X
8001-35-2	Toxaphene	BRL		µg/kg dry	55.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-3 0-2' SB22692-06	09-188-02E	Soil	16-Dec-10 09:15	20-Dec-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
Organochlorine Pesticides SW846 8081A Prepared by method SW846 3545A												
57-74-9	Chlordane	BRL		µg/kg dry	11.1	1	SW846 8081B	22-Dec-10	23-Dec-10	TG	1026607	X
15972-60-8	Alachlor	BRL		µg/kg dry	2.77	1	"	"	"	"	"	
Surrogate recoveries:												
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*87*			*30-150 %*		"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*80*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*125*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*39*			*30-150 %*		"	"	"	"	"	
Polychlorinated Biphenyls by SW846 8082 Prepared by method SW846 3545A												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	21.7	1	SW846 8082A	21-Dec-10	23-Dec-10	SM	1026460	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	21.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	21.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	21.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	21.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	21.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	21.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	21.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	21.7	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*83*			*30-150 %*		"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*81*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*99*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*		"	"	"	"	"	
Extractable Petroleum Hydrocarbons												
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3545A												
8006-61-9	Gasoline	BRL		mg/kg dry	15.0	1	+CT ETPH	23-Dec-10	24-Dec-10	SHM	1026753	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	15.0	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	15.0	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	15.0	1	"	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	15.0	1	"	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	15.0	1	"	"	"	"	"	
	Unidentified	BRL		mg/kg dry	15.0	1	"	"	"	"	"	
	Other Oil	BRL		mg/kg dry	15.0	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	15.0	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	15.0	1	"	"	"	"	"	
Surrogate recoveries:												
3386-33-2	*1-Chlorooctadecane*	*81*			*50-150 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	BRL		mg/kg dry	1.66	1	SW846 6010C	27-Dec-10	28-Dec-10	TBG	1026852	X
7440-43-9	Cadmium	BRL		mg/kg dry	0.555	1	"	"	"	"	"	X
7440-47-3	Chromium	8.93		mg/kg dry	1.11	1	"	"	28-Dec-10	"	"	X
7439-97-6	Mercury	BRL		mg/kg dry	0.0336	1	SW846 7471B	"	28-Dec-10	ARF	1026853	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
B-3 0-2' SB22692-06	09-188-02E	Soil	16-Dec-10 09:15	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods												
7439-92-1	Lead	6.07		mg/kg dry	1.66	1	SW846 6010C	27-Dec-10	28-Dec-10	TBG	1026852	X
General Chemistry Parameters												
	% Solids	88.5		%		1	SM2540 G Mod.	21-Dec-10	21-Dec-10	DT	1026475	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-3 4-5.5' SB22692-07	09-188-02E	Soil	16-Dec-10 09:20	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds												
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Dec-10	20-Dec-10	JLH	1026434	
Volatile Organic Compounds Prepared by method SW846 5035A Soil (low level)					Initial weight: 8.22 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	4.0	1	SW846 8260C	22-Dec-10	22-Dec-10	JRO	1026621	X
67-64-1	Acetone	BRL		µg/kg dry	40.2	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
71-43-2	Benzene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/kg dry	8.0	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	40.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/kg dry	8.0	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/kg dry	8.0	1	"	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg dry	8.0	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	8.0	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	8.0	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	4.0	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
B-3 4-5.5' SB22692-07	09-188-02E	Soil	16-Dec-10 09:20	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds												
Volatile Organic Compounds												
Prepared by method SW846 5035A Soil (low level)					Initial weight: 8.22 g							
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	40.2	1	SW846 8260C	22-Dec-10	22-Dec-10	JRO	1026621	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	40.2	1	"	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg dry	8.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
100-42-5	Styrene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	8.0	1	"	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	4.0	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	8.0	1	"	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg dry	4.0	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	4.0	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	4.0	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	4.0	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	40.2	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg dry	80.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	20.1	1	"	"	"	"	"	X
64-17-5	Ethanol	BRL		µg/kg dry	1610	1	"	"	"	"	"	
Surrogate recoveries:												
460-00-4	*4-Bromofluorobenzene*	*95*			*70-130 %*		"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*		"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*113*			*70-130 %*		"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*103*			*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GCMS												
PAHs by SW846 8270C												
Prepared by method SW846 3545A												
83-32-9	Acenaphthene	BRL		µg/kg dry	363	1	SW846 8270D	23-Dec-10	23-Dec-10	MSL	1026748	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B-3 4-5.5' SB22692-07	09-188-02E	Soil	16-Dec-10 09:20	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS												
PAHs by SW846 8270C Prepared by method SW846 3545A												
208-96-8	Acenaphthylene	BRL		µg/kg dry	363	1	SW846 8270D	23-Dec-10	23-Dec-10	MSL	1026748	X
120-12-7	Anthracene	BRL		µg/kg dry	363	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	492		µg/kg dry	363	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	527		µg/kg dry	363	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	550		µg/kg dry	363	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	363	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	468		µg/kg dry	363	1	"	"	"	"	"	X
218-01-9	Chrysene	526		µg/kg dry	363	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	363	1	"	"	"	"	"	X
206-44-0	Fluoranthene	958		µg/kg dry	363	1	"	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/kg dry	363	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	363	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	363	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	363	1	"	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	363	1	"	"	"	"	"	X
85-01-8	Phenanthrene	487		µg/kg dry	363	1	"	"	"	"	"	X
129-00-0	Pyrene	1,010		µg/kg dry	363	1	"	"	"	"	"	X
Surrogate recoveries:												
321-60-8	*2-Fluorobiphenyl*	*54*			*30-130 %*		"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*63*			*30-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082 Prepared by method SW846 3545A												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	21.7	1	SW846 8082A	21-Dec-10	23-Dec-10	SM	1026460	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	21.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	21.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	21.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	21.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	21.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	21.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	21.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	21.7	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*112*			*30-150 %*		"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*78*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*97*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*86*			*30-150 %*		"	"	"	"	"	
Extractable Petroleum Hydrocarbons												
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3545A			R01									
8006-61-9	Gasoline	BRL		mg/kg dry	29.2	2	+CT ETPH	23-Dec-10	25-Dec-10	SHM	1026753	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	29.2	2	"	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	29.2	2	"	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	29.2	2	"	"	"	"	"	

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
B-3 4-5.5' SB22692-07	09-188-02E	Soil	16-Dec-10 09:20	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons												
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3545A			R01									
M09800000	Motor Oil	BRL		mg/kg dry	29.2	2	+CT ETPH	23-Dec-10	25-Dec-10	SHM	1026753	
J00100000	Aviation Fuel	BRL		mg/kg dry	29.2	2	"	"	"	"	"	
	Unidentified	185		mg/kg dry	29.2	2	"	"	"	"	"	
	Other Oil	Calculated as		mg/kg dry	29.2	2	"	"	"	"	"	
	Total Petroleum Hydrocarbons	185		mg/kg dry	29.2	2	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	185		mg/kg dry	29.2	2	"	"	"	"	"	
Surrogate recoveries:												
3386-33-2	*1-Chlorooctadecane*	*71*			*50-150 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	1.73		mg/kg dry	1.62	1	SW846 6010C	27-Dec-10	28-Dec-10	TBG	1026852	X
7440-43-9	Cadmium	BRL		mg/kg dry	0.538	1	"	"	"	"	"	X
7440-47-3	Chromium	12.2		mg/kg dry	1.08	1	"	"	28-Dec-10	"	"	X
7439-97-6	Mercury	BRL		mg/kg dry	0.0321	1	SW846 7471B	"	28-Dec-10	ARF	1026853	X
7439-92-1	Lead	28.8		mg/kg dry	1.62	1	SW846 6010C	"	28-Dec-10	TBG	1026852	X
General Chemistry Parameters												
	% Solids	89.1		%		1	SM2540 G Mod.	21-Dec-10	21-Dec-10	DT	1026475	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Duplicate-1	09-188-02E	Soil	16-Dec-10 00:00	20-Dec-10
SB22692-08				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds												
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Dec-10	20-Dec-10	JLH	1026434	
Volatile Organic Compounds Prepared by method SW846 5035A Soil (low level)					Initial weight: 7 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	4.7	1	SW846 8260C	22-Dec-10	22-Dec-10	JRO	1026621	X
67-64-1	Acetone	BRL		µg/kg dry	46.8	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	9.4	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	46.8	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	9.4	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	9.4	1	"	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg dry	4.7	1	"	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg dry	9.4	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	9.4	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	9.4	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

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Duplicate-1	09-188-02E	Soil	16-Dec-10 00:00	20-Dec-10
SB22692-08				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds												
Volatile Organic Compounds												
Prepared by method SW846 5035A Soil (low level)					Initial weight: 7 g							
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	46.8	1	SW846 8260C	22-Dec-10	22-Dec-10	JRO	1026621	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	46.8	1	"	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg dry	9.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	4.7	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"	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	"	"	"	"	"	X
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	9.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	4.7	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	9.4	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	46.8	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg dry	93.5	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	23.4	1	"	"	"	"	"	X
64-17-5	Ethanol	BRL		µg/kg dry	1870	1	"	"	"	"	"	
Surrogate recoveries:												
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*		"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*		"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*114*			*70-130 %*		"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*104*			*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GCMS												
PAHs by SW846 8270C												
Prepared by method SW846 3545A												
83-32-9	Acenaphthene	BRL		µg/kg dry	366	1	SW846 8270D	23-Dec-10	23-Dec-10	MSL	1026748	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Duplicate-1	09-188-02E	Soil	16-Dec-10 00:00	20-Dec-10
SB22692-08				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS												
PAHs by SW846 8270C												
Prepared by method SW846 3545A												
208-96-8	Acenaphthylene	BRL		µg/kg dry	366	1	SW846 8270D	23-Dec-10	23-Dec-10	MSL	1026748	X
120-12-7	Anthracene	BRL		µg/kg dry	366	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	512		µg/kg dry	366	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	545		µg/kg dry	366	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	499		µg/kg dry	366	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	366	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	558		µg/kg dry	366	1	"	"	"	"	"	X
218-01-9	Chrysene	500		µg/kg dry	366	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	366	1	"	"	"	"	"	X
206-44-0	Fluoranthene	942		µg/kg dry	366	1	"	"	"	"	"	X
86-73-7	Fluorene	BRL		µg/kg dry	366	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	366	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	366	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	366	1	"	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	366	1	"	"	"	"	"	X
85-01-8	Phenanthrene	440		µg/kg dry	366	1	"	"	"	"	"	X
129-00-0	Pyrene	965		µg/kg dry	366	1	"	"	"	"	"	X
Surrogate recoveries:												
321-60-8	*2-Fluorobiphenyl*	*59*			*30-130 %*		"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*71*			*30-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3545A												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	21.0	1	SW846 8082A	21-Dec-10	23-Dec-10	SM	1026460	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	21.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	21.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	21.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	21.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	21.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	21.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	21.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	21.0	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*93*			*30-150 %*		"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*71*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*99*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*67*			*30-150 %*		"	"	"	"	"	
Extractable Petroleum Hydrocarbons												
Extractable Total Petroleum Hydrocarbons			R01									
Prepared by method SW846 3545A												
8006-61-9	Gasoline	BRL		mg/kg dry	29.5	2	+CT ETPH	23-Dec-10	25-Dec-10	SHM	1026753	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	29.5	2	"	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	29.5	2	"	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	29.5	2	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Duplicate-1	09-188-02E	Soil	16-Dec-10 00:00	20-Dec-10
SB22692-08				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons												
Extractable Total Petroleum Hydrocarbons Prepared by method SW846 3545A			R01									
M09800000	Motor Oil	BRL		mg/kg dry	29.5	2	+CT ETPH	23-Dec-10	25-Dec-10	SHM	1026753	
J00100000	Aviation Fuel	BRL		mg/kg dry	29.5	2	"	"	"	"	"	
	Unidentified	170		mg/kg dry	29.5	2	"	"	"	"	"	
	Other Oil	Calculated as		mg/kg dry	29.5	2	"	"	"	"	"	
	Total Petroleum Hydrocarbons	170		mg/kg dry	29.5	2	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	170		mg/kg dry	29.5	2	"	"	"	"	"	
Surrogate recoveries:												
3386-33-2	*1-Chlorooctadecane*	*83*			*50-150 %*		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	2.10		mg/kg dry	1.42	1	SW846 6010C	27-Dec-10	28-Dec-10	TBG	1026852	X
7440-43-9	Cadmium	BRL		mg/kg dry	0.475	1	"	"	"	"	"	X
7440-47-3	Chromium	12.0		mg/kg dry	0.949	1	"	"	28-Dec-10	"	"	X
7439-97-6	Mercury	0.0502		mg/kg dry	0.0308	1	SW846 7471B	"	28-Dec-10	ARF	1026853	X
7439-92-1	Lead	45.4		mg/kg dry	1.42	1	SW846 6010C	"	28-Dec-10	TBG	1026852	X
General Chemistry Parameters												
	% Solids	88.6		%		1	SM2540 G Mod.	21-Dec-10	21-Dec-10	DT	1026475	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SB22692-09	09-188-02E	Methanol/Deionized Water	16-Dec-10 00:00	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds												
Volatile Organic Compounds Prepared by method SW846 5035A Soil (low level)												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg wet	5.0	1	SW846 8260C	22-Dec-10	22-Dec-10	JRO	1026621	X
67-64-1	Acetone	BRL		µg/kg wet	50.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
71-43-2	Benzene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/kg wet	10.0	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/kg wet	50.0	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/kg wet	10.0	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/kg wet	10.0	1	"	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/kg wet	10.0	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg wet	10.0	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg wet	10.0	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/kg wet	50.0	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SB22692-09	09-188-02E	Methanol/Deionized Water	16-Dec-10 00:00	20-Dec-10

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds												
Volatile Organic Compounds Prepared by method SW846 5035A Soil (low level)												
99-87-6	4-Isopropyltoluene	BRL		µg/kg wet	5.0	1	SW846 8260C	22-Dec-10	22-Dec-10	JRO	1026621	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg wet	50.0	1	"	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/kg wet	10.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
100-42-5	Styrene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg wet	10.0	1	"	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg wet	5.0	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/kg wet	10.0	1	"	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/kg wet	5.0	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/kg wet	5.0	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg wet	5.0	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	BRL		µg/kg wet	5.0	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg wet	50.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/kg wet	100	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg wet	25.0	1	"	"	"	"	"	X
64-17-5	Ethanol	BRL		µg/kg wet	2000	1	"	"	"	"	"	
Surrogate recoveries:												
460-00-4	*4-Bromofluorobenzene*	*101*			*70-130 %*		"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*		"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*115*			*70-130 %*		"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*			*70-130 %*		"	"	"	"	"	

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1026397 - SW846 5035A Soil (low level)										
Blank (1026397-BLK1)					Prepared: 20-Dec-10 Analyzed: 21-Dec-10					
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	10.0						
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	10.0						
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						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1026397 - SW846 5035A Soil (low level)										
Blank (1026397-BLK1)					Prepared: 20-Dec-10 Analyzed: 21-Dec-10					
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	10.0						
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	*47.2*		µg/kg wet		*50.0*		*94*	*70-130*		
Surrogate: Toluene-d8	*52.2*		µg/kg wet		*50.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*58.7*		µg/kg wet		*50.0*		*117*	*70-130*		
Surrogate: Dibromofluoromethane	*54.0*		µg/kg wet		*50.0*		*108*	*70-130*		
LCS (1026397-BS1)						Prepared: 20-Dec-10 Analyzed: 21-Dec-10				
1,1,2-Trichlorotrifluoroethane (Freon 113)	13.2	QC2	µg/kg wet		20.0		66	70-130		
Acetone	18.3		µg/kg wet		20.0		92	70-130		
Acrylonitrile	15.4		µg/kg wet		20.0		77	70-130		
Benzene	17.7		µg/kg wet		20.0		89	70-130		
Bromobenzene	17.5		µg/kg wet		20.0		88	70-130		
Bromochloromethane	17.8		µg/kg wet		20.0		89	70-130		
Bromodichloromethane	17.5		µg/kg wet		20.0		87	70-130		
Bromoform	16.0		µg/kg wet		20.0		80	70-130		
Bromomethane	17.3		µg/kg wet		20.0		86	70-130		
2-Butanone (MEK)	21.6		µg/kg wet		20.0		108	70-130		
n-Butylbenzene	19.5		µg/kg wet		20.0		97	70-130		
sec-Butylbenzene	17.5		µg/kg wet		20.0		88	70-130		
tert-Butylbenzene	17.3		µg/kg wet		20.0		86	70-130		
Carbon disulfide	13.8	QM9	µg/kg wet		20.0		69	70-130		
Carbon tetrachloride	16.9		µg/kg wet		20.0		85	70-130		
Chlorobenzene	17.3		µg/kg wet		20.0		86	70-130		
Chloroethane	13.9		µg/kg wet		20.0		70	70-130		
Chloroform	16.9		µg/kg wet		20.0		85	70-130		
Chloromethane	13.8		µg/kg wet		20.0		69	70-130		
2-Chlorotoluene	17.8		µg/kg wet		20.0		89	70-130		
4-Chlorotoluene	18.4		µg/kg wet		20.0		92	70-130		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1026397 - SW846 5035A Soil (low level)										
LCS (1026397-BS1)						Prepared: 20-Dec-10		Analyzed: 21-Dec-10		
1,2-Dibromo-3-chloropropane	16.8		µg/kg wet		20.0		84	70-130		
Dibromochloromethane	18.0		µg/kg wet		20.0		90	70-130		
1,2-Dibromoethane (EDB)	18.3		µg/kg wet		20.0		91	70-130		
Dibromomethane	17.9		µg/kg wet		20.0		90	70-130		
1,2-Dichlorobenzene	17.9		µg/kg wet		20.0		90	70-130		
1,3-Dichlorobenzene	18.2		µg/kg wet		20.0		91	70-130		
1,4-Dichlorobenzene	18.3		µg/kg wet		20.0		92	70-130		
Dichlorodifluoromethane (Freon12)	13.4		µg/kg wet		20.0		67	70-130		
1,1-Dichloroethane	13.7	QM9	µg/kg wet		20.0		69	70-130		
1,2-Dichloroethane	17.2		µg/kg wet		20.0		86	70-130		
1,1-Dichloroethene	14.1		µg/kg wet		20.0		70	70-130		
cis-1,2-Dichloroethene	17.5		µg/kg wet		20.0		88	70-130		
trans-1,2-Dichloroethene	14.1		µg/kg wet		20.0		70	70-130		
1,2-Dichloropropane	17.6		µg/kg wet		20.0		88	70-130		
1,3-Dichloropropane	18.4		µg/kg wet		20.0		92	70-130		
2,2-Dichloropropane	25.1		µg/kg wet		20.0		125	70-130		
1,1-Dichloropropene	17.2		µg/kg wet		20.0		86	70-130		
cis-1,3-Dichloropropene	20.8		µg/kg wet		20.0		104	70-130		
trans-1,3-Dichloropropene	21.6		µg/kg wet		20.0		108	70-130		
Ethylbenzene	17.4		µg/kg wet		20.0		87	70-130		
Hexachlorobutadiene	17.8		µg/kg wet		20.0		89	70-130		
2-Hexanone (MBK)	20.1		µg/kg wet		20.0		101	70-130		
Isopropylbenzene	17.4		µg/kg wet		20.0		87	70-130		
4-Isopropyltoluene	18.4		µg/kg wet		20.0		92	70-130		
Methyl tert-butyl ether	15.1		µg/kg wet		20.0		75	70-130		
4-Methyl-2-pentanone (MIBK)	22.9		µg/kg wet		20.0		115	70-130		
Methylene chloride	14.4		µg/kg wet		20.0		72	70-130		
Naphthalene	20.4		µg/kg wet		20.0		102	70-130		
n-Propylbenzene	17.8		µg/kg wet		20.0		89	70-130		
Styrene	19.1		µg/kg wet		20.0		96	70-130		
1,1,1,2-Tetrachloroethane	17.3		µg/kg wet		20.0		87	70-130		
1,1,2,2-Tetrachloroethane	17.8		µg/kg wet		20.0		89	70-130		
Tetrachloroethene	17.9		µg/kg wet		20.0		90	70-130		
Toluene	17.3		µg/kg wet		20.0		86	70-130		
1,2,3-Trichlorobenzene	19.6		µg/kg wet		20.0		98	70-130		
1,2,4-Trichlorobenzene	20.2		µg/kg wet		20.0		101	70-130		
1,3,5-Trichlorobenzene	20.6		µg/kg wet		20.0		103	70-130		
1,1,1-Trichloroethane	16.7		µg/kg wet		20.0		83	70-130		
1,1,2-Trichloroethane	18.1		µg/kg wet		20.0		90	70-130		
Trichloroethene	16.8		µg/kg wet		20.0		84	70-130		
Trichlorofluoromethane (Freon 11)	13.2	QC2	µg/kg wet		20.0		66	70-130		
1,2,3-Trichloropropane	17.3		µg/kg wet		20.0		86	70-130		
1,2,4-Trimethylbenzene	18.3		µg/kg wet		20.0		92	70-130		
1,3,5-Trimethylbenzene	17.9		µg/kg wet		20.0		90	70-130		
Vinyl chloride	12.6	QC2	µg/kg wet		20.0		63	70-130		
m,p-Xylene	35.5		µg/kg wet		40.0		89	70-130		
o-Xylene	17.5		µg/kg wet		20.0		87	70-130		
Tetrahydrofuran	18.0		µg/kg wet		20.0		90	70-130		
Ethyl ether	14.9		µg/kg wet		20.0		74	70-130		
Tert-amyl methyl ether	16.9		µg/kg wet		20.0		85	70-130		
Ethyl tert-butyl ether	18.1		µg/kg wet		20.0		91	70-130		
Di-isopropyl ether	18.0		µg/kg wet		20.0		90	70-130		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1026397 - SW846 5035A Soil (low level)										
LCS (1026397-BS1)						Prepared: 20-Dec-10 Analyzed: 21-Dec-10				
Tert-Butanol / butyl alcohol	158		µg/kg wet		200		79	70-130		
1,4-Dioxane	201		µg/kg wet		200		101	70-130		
trans-1,4-Dichloro-2-butene	28.3	QC2	µg/kg wet		20.0		142	70-130		
Ethanol	374		µg/kg wet		400		94	70-130		
Surrogate: 4-Bromofluorobenzene	*48.4*		µg/kg wet		*50.0*		*97*	*70-130*		
Surrogate: Toluene-d8	*51.5*		µg/kg wet		*50.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.4*		µg/kg wet		*50.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*50.3*		µg/kg wet		*50.0*		*101*	*70-130*		
LCS Dup (1026397-BSD1)						Prepared: 20-Dec-10 Analyzed: 21-Dec-10				
1,1,2-Trichlorotrifluoroethane (Freon 113)	13.4	QC2	µg/kg wet		20.0		67	70-130	1	25
Acetone	18.3		µg/kg wet		20.0		92	70-130	0	50
Acrylonitrile	14.9		µg/kg wet		20.0		75	70-130	3	25
Benzene	18.0		µg/kg wet		20.0		90	70-130	1	25
Bromobenzene	17.7		µg/kg wet		20.0		88	70-130	0.9	25
Bromochloromethane	17.5		µg/kg wet		20.0		88	70-130	2	25
Bromodichloromethane	17.6		µg/kg wet		20.0		88	70-130	0.9	25
Bromoform	15.7		µg/kg wet		20.0		79	70-130	1	25
Bromomethane	17.0		µg/kg wet		20.0		85	70-130	2	50
2-Butanone (MEK)	18.7		µg/kg wet		20.0		93	70-130	14	50
n-Butylbenzene	19.4		µg/kg wet		20.0		97	70-130	0.3	25
sec-Butylbenzene	18.0		µg/kg wet		20.0		90	70-130	3	25
tert-Butylbenzene	17.8		µg/kg wet		20.0		89	70-130	3	25
Carbon disulfide	14.2		µg/kg wet		20.0		71	70-130	3	25
Carbon tetrachloride	17.2		µg/kg wet		20.0		86	70-130	2	25
Chlorobenzene	17.7		µg/kg wet		20.0		88	70-130	2	25
Chloroethane	14.1		µg/kg wet		20.0		70	70-130	1	50
Chloroform	17.2		µg/kg wet		20.0		86	70-130	2	25
Chloromethane	13.8		µg/kg wet		20.0		69	70-130	0.07	25
2-Chlorotoluene	18.1		µg/kg wet		20.0		91	70-130	2	25
4-Chlorotoluene	18.5		µg/kg wet		20.0		93	70-130	0.5	25
1,2-Dibromo-3-chloropropane	15.7		µg/kg wet		20.0		78	70-130	7	25
Dibromochloromethane	18.0		µg/kg wet		20.0		90	70-130	0.4	50
1,2-Dibromoethane (EDB)	18.2		µg/kg wet		20.0		91	70-130	0.3	25
Dibromomethane	17.7		µg/kg wet		20.0		88	70-130	1	25
1,2-Dichlorobenzene	18.0		µg/kg wet		20.0		90	70-130	0.6	25
1,3-Dichlorobenzene	18.4		µg/kg wet		20.0		92	70-130	1	25
1,4-Dichlorobenzene	18.2		µg/kg wet		20.0		91	70-130	0.8	25
Dichlorodifluoromethane (Freon12)	13.6		µg/kg wet		20.0		68	70-130	2	50
1,1-Dichloroethane	14.1		µg/kg wet		20.0		71	70-130	3	25
1,2-Dichloroethane	17.2		µg/kg wet		20.0		86	70-130	0.5	25
1,1-Dichloroethene	13.9	QM9	µg/kg wet		20.0		69	70-130	2	25
cis-1,2-Dichloroethene	17.8		µg/kg wet		20.0		89	70-130	2	25
trans-1,2-Dichloroethene	14.5		µg/kg wet		20.0		72	70-130	3	25
1,2-Dichloropropane	17.7		µg/kg wet		20.0		89	70-130	1	25
1,3-Dichloropropane	17.8		µg/kg wet		20.0		89	70-130	3	25
2,2-Dichloropropane	25.1		µg/kg wet		20.0		126	70-130	0.2	25
1,1-Dichloropropene	17.7		µg/kg wet		20.0		89	70-130	3	25
cis-1,3-Dichloropropene	21.0		µg/kg wet		20.0		105	70-130	1	25
trans-1,3-Dichloropropene	21.4		µg/kg wet		20.0		107	70-130	1	25
Ethylbenzene	17.6		µg/kg wet		20.0		88	70-130	1	25
Hexachlorobutadiene	18.2		µg/kg wet		20.0		91	70-130	3	50

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1026397 - SW846 5035A Soil (low level)										
LCS Dup (1026397-BSD1)					Prepared: 20-Dec-10 Analyzed: 21-Dec-10					
2-Hexanone (MBK)	19.1		µg/kg wet		20.0		96	70-130	5	25
Isopropylbenzene	17.6		µg/kg wet		20.0		88	70-130	1	25
4-Isopropyltoluene	18.5		µg/kg wet		20.0		92	70-130	0.1	25
Methyl tert-butyl ether	14.5		µg/kg wet		20.0		73	70-130	4	25
4-Methyl-2-pentanone (MIBK)	21.0		µg/kg wet		20.0		105	70-130	9	50
Methylene chloride	14.3		µg/kg wet		20.0		72	70-130	0.6	25
Naphthalene	18.7		µg/kg wet		20.0		94	70-130	9	25
n-Propylbenzene	18.3		µg/kg wet		20.0		91	70-130	2	25
Styrene	19.3		µg/kg wet		20.0		96	70-130	0.9	25
1,1,1,2-Tetrachloroethane	17.2		µg/kg wet		20.0		86	70-130	0.9	25
1,1,2,2-Tetrachloroethane	17.3		µg/kg wet		20.0		87	70-130	3	25
Tetrachloroethene	18.3		µg/kg wet		20.0		92	70-130	2	25
Toluene	17.8		µg/kg wet		20.0		89	70-130	3	25
1,2,3-Trichlorobenzene	19.0		µg/kg wet		20.0		95	70-130	3	25
1,2,4-Trichlorobenzene	20.1		µg/kg wet		20.0		100	70-130	0.7	25
1,3,5-Trichlorobenzene	20.6		µg/kg wet		20.0		103	70-130	0.2	25
1,1,1-Trichloroethane	16.9		µg/kg wet		20.0		84	70-130	1	25
1,1,2-Trichloroethane	17.8		µg/kg wet		20.0		89	70-130	2	25
Trichloroethene	17.1		µg/kg wet		20.0		86	70-130	2	25
Trichlorofluoromethane (Freon 11)	13.4	QC2	µg/kg wet		20.0		67	70-130	1	50
1,2,3-Trichloropropane	17.3		µg/kg wet		20.0		87	70-130	0.2	25
1,2,4-Trimethylbenzene	18.6		µg/kg wet		20.0		93	70-130	1	25
1,3,5-Trimethylbenzene	18.4		µg/kg wet		20.0		92	70-130	3	25
Vinyl chloride	13.0	QC2	µg/kg wet		20.0		65	70-130	3	25
m,p-Xylene	35.9		µg/kg wet		40.0		90	70-130	1	25
o-Xylene	17.9		µg/kg wet		20.0		89	70-130	2	25
Tetrahydrofuran	17.1		µg/kg wet		20.0		85	70-130	5	25
Ethyl ether	14.1		µg/kg wet		20.0		70	70-130	6	50
Tert-amyl methyl ether	17.0		µg/kg wet		20.0		85	70-130	0.6	25
Ethyl tert-butyl ether	18.3		µg/kg wet		20.0		91	70-130	0.8	25
Di-isopropyl ether	17.8		µg/kg wet		20.0		89	70-130	1	25
Tert-Butanol / butyl alcohol	162		µg/kg wet		200		81	70-130	2	25
1,4-Dioxane	200		µg/kg wet		200		100	70-130	0.7	25
trans-1,4-Dichloro-2-butene	26.5	QC2	µg/kg wet		20.0		132	70-130	7	25
Ethanol	335		µg/kg wet		400		84	70-130	11	30
Surrogate: 4-Bromofluorobenzene	*49.6*		µg/kg wet		*50.0*		*99*	*70-130*		
Surrogate: Toluene-d8	*51.6*		µg/kg wet		*50.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*46.6*		µg/kg wet		*50.0*		*93*	*70-130*		
Surrogate: Dibromofluoromethane	*50.0*		µg/kg wet		*50.0*		*100*	*70-130*		
Batch 1026621 - SW846 5035A Soil (low level)										
Blank (1026621-BLK1)					Prepared & Analyzed: 22-Dec-10					
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						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1026621 - SW846 5035A Soil (low level)										
Blank (1026621-BLK1)					Prepared & Analyzed: 22-Dec-10					
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	10.0						
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	10.0						
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						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1026621 - SW846 5035A Soil (low level)										
Blank (1026621-BLK1)					Prepared & Analyzed: 22-Dec-10					
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	10.0						
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	*50.0*		µg/kg wet		*50.0*		*100*	*70-130*		
Surrogate: Toluene-d8	*50.2*		µg/kg wet		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*55.5*		µg/kg wet		*50.0*		*111*	*70-130*		
Surrogate: Dibromofluoromethane	*51.9*		µg/kg wet		*50.0*		*104*	*70-130*		
LCS (1026621-BS1)					Prepared & Analyzed: 22-Dec-10					
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.6		µg/kg wet		20.0		103	70-130		
Acetone	22.3		µg/kg wet		20.0		112	70-130		
Acrylonitrile	21.9		µg/kg wet		20.0		110	70-130		
Benzene	20.8		µg/kg wet		20.0		104	70-130		
Bromobenzene	20.9		µg/kg wet		20.0		105	70-130		
Bromochloromethane	21.9		µg/kg wet		20.0		110	70-130		
Bromodichloromethane	19.8		µg/kg wet		20.0		99	70-130		
Bromoform	18.9		µg/kg wet		20.0		95	70-130		
Bromomethane	22.4		µg/kg wet		20.0		112	70-130		
2-Butanone (MEK)	21.8		µg/kg wet		20.0		109	70-130		
n-Butylbenzene	20.9		µg/kg wet		20.0		104	70-130		
sec-Butylbenzene	20.9		µg/kg wet		20.0		105	70-130		
tert-Butylbenzene	20.7		µg/kg wet		20.0		104	70-130		
Carbon disulfide	18.2		µg/kg wet		20.0		91	70-130		
Carbon tetrachloride	19.2		µg/kg wet		20.0		96	70-130		
Chlorobenzene	21.1		µg/kg wet		20.0		105	70-130		
Chloroethane	21.3		µg/kg wet		20.0		106	70-130		
Chloroform	20.8		µg/kg wet		20.0		104	70-130		
Chloromethane	20.4		µg/kg wet		20.0		102	70-130		
2-Chlorotoluene	22.3		µg/kg wet		20.0		111	70-130		
4-Chlorotoluene	20.8		µg/kg wet		20.0		104	70-130		
1,2-Dibromo-3-chloropropane	18.6		µg/kg wet		20.0		93	70-130		
Dibromochloromethane	19.3		µg/kg wet		20.0		96	70-130		
1,2-Dibromoethane (EDB)	21.1		µg/kg wet		20.0		105	70-130		
Dibromomethane	21.5		µg/kg wet		20.0		107	70-130		
1,2-Dichlorobenzene	20.6		µg/kg wet		20.0		103	70-130		
1,3-Dichlorobenzene	21.3		µg/kg wet		20.0		106	70-130		
1,4-Dichlorobenzene	19.9		µg/kg wet		20.0		100	70-130		
Dichlorodifluoromethane (Freon12)	19.5		µg/kg wet		20.0		98	70-130		
1,1-Dichloroethane	20.2		µg/kg wet		20.0		101	70-130		
1,2-Dichloroethane	20.8		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 1026621 - SW846 5035A Soil (low level)										
LCS (1026621-BS1)						Prepared & Analyzed: 22-Dec-10				
1,1-Dichloroethene	20.3		µg/kg wet		20.0		101	70-130		
cis-1,2-Dichloroethene	20.6		µg/kg wet		20.0		103	70-130		
trans-1,2-Dichloroethene	21.0		µg/kg wet		20.0		105	70-130		
1,2-Dichloropropane	20.3		µg/kg wet		20.0		102	70-130		
1,3-Dichloropropane	21.0		µg/kg wet		20.0		105	70-130		
2,2-Dichloropropane	18.6		µg/kg wet		20.0		93	70-130		
1,1-Dichloropropene	20.2		µg/kg wet		20.0		101	70-130		
cis-1,3-Dichloropropene	19.1		µg/kg wet		20.0		96	70-130		
trans-1,3-Dichloropropene	18.2		µg/kg wet		20.0		91	70-130		
Ethylbenzene	20.9		µg/kg wet		20.0		105	70-130		
Hexachlorobutadiene	19.6		µg/kg wet		20.0		98	70-130		
2-Hexanone (MBK)	21.6		µg/kg wet		20.0		108	70-130		
Isopropylbenzene	20.8		µg/kg wet		20.0		104	70-130		
4-Isopropyltoluene	20.3		µg/kg wet		20.0		102	70-130		
Methyl tert-butyl ether	19.3		µg/kg wet		20.0		97	70-130		
4-Methyl-2-pentanone (MIBK)	23.0		µg/kg wet		20.0		115	70-130		
Methylene chloride	19.6		µg/kg wet		20.0		98	70-130		
Naphthalene	20.0		µg/kg wet		20.0		100	70-130		
n-Propylbenzene	21.2		µg/kg wet		20.0		106	70-130		
Styrene	21.0		µg/kg wet		20.0		105	70-130		
1,1,1,2-Tetrachloroethane	20.0		µg/kg wet		20.0		100	70-130		
1,1,2,2-Tetrachloroethane	21.3		µg/kg wet		20.0		106	70-130		
Tetrachloroethene	21.0		µg/kg wet		20.0		105	70-130		
Toluene	19.8		µg/kg wet		20.0		99	70-130		
1,2,3-Trichlorobenzene	21.8		µg/kg wet		20.0		109	70-130		
1,2,4-Trichlorobenzene	21.7		µg/kg wet		20.0		109	70-130		
1,3,5-Trichlorobenzene	20.1		µg/kg wet		20.0		101	70-130		
1,1,1-Trichloroethane	20.1		µg/kg wet		20.0		100	70-130		
1,1,2-Trichloroethane	21.0		µg/kg wet		20.0		105	70-130		
Trichloroethene	20.9		µg/kg wet		20.0		105	70-130		
Trichlorofluoromethane (Freon 11)	21.0		µg/kg wet		20.0		105	70-130		
1,2,3-Trichloropropane	21.8		µg/kg wet		20.0		109	70-130		
1,2,4-Trimethylbenzene	20.8		µg/kg wet		20.0		104	70-130		
1,3,5-Trimethylbenzene	21.0		µg/kg wet		20.0		105	70-130		
Vinyl chloride	21.0		µg/kg wet		20.0		105	70-130		
m,p-Xylene	42.5		µg/kg wet		40.0		106	70-130		
o-Xylene	21.1		µg/kg wet		20.0		105	70-130		
Tetrahydrofuran	21.3		µg/kg wet		20.0		107	70-130		
Ethyl ether	19.8		µg/kg wet		20.0		99	70-130		
Tert-amyl methyl ether	20.8		µg/kg wet		20.0		104	70-130		
Ethyl tert-butyl ether	19.4		µg/kg wet		20.0		97	70-130		
Di-isopropyl ether	19.5		µg/kg wet		20.0		98	70-130		
Tert-Butanol / butyl alcohol	193		µg/kg wet		200		96	70-130		
1,4-Dioxane	220		µg/kg wet		200		110	70-130		
trans-1,4-Dichloro-2-butene	15.9		µg/kg wet		20.0		80	70-130		
Ethanol	507		µg/kg wet		400		127	70-130		
Surrogate: 4-Bromofluorobenzene	*50.7*		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*49.6*		µg/kg wet		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.5*		µg/kg wet		*50.0*		*99*	*70-130*		
Surrogate: Dibromofluoromethane	*50.0*		µg/kg wet		*50.0*		*100*	*70-130*		
LCS Dup (1026621-BSD1)						Prepared & Analyzed: 22-Dec-10				

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1026621 - SW846 5035A Soil (low level)										
LCS Dup (1026621-BSD1)					Prepared & Analyzed: 22-Dec-10					
1,1,2-Trichlorotrifluoroethane (Freon 113)	17.0		µg/kg wet		20.0		85	70-130	19	25
Acetone	19.5		µg/kg wet		20.0		98	70-130	14	50
Acrylonitrile	21.2		µg/kg wet		20.0		106	70-130	3	25
Benzene	17.6		µg/kg wet		20.0		88	70-130	17	25
Bromobenzene	18.6		µg/kg wet		20.0		93	70-130	12	25
Bromochloromethane	20.2		µg/kg wet		20.0		101	70-130	8	25
Bromodichloromethane	17.6		µg/kg wet		20.0		88	70-130	12	25
Bromoform	17.0		µg/kg wet		20.0		85	70-130	11	25
Bromomethane	18.2		µg/kg wet		20.0		91	70-130	20	50
2-Butanone (MEK)	17.4		µg/kg wet		20.0		87	70-130	22	50
n-Butylbenzene	17.5		µg/kg wet		20.0		88	70-130	18	25
sec-Butylbenzene	17.0		µg/kg wet		20.0		85	70-130	21	25
tert-Butylbenzene	17.3		µg/kg wet		20.0		86	70-130	18	25
Carbon disulfide	14.6		µg/kg wet		20.0		73	70-130	22	25
Carbon tetrachloride	15.2		µg/kg wet		20.0		76	70-130	23	25
Chlorobenzene	18.3		µg/kg wet		20.0		92	70-130	14	25
Chloroethane	17.3		µg/kg wet		20.0		87	70-130	21	50
Chloroform	17.8		µg/kg wet		20.0		89	70-130	15	25
Chloromethane	16.2		µg/kg wet		20.0		81	70-130	23	25
2-Chlorotoluene	18.5		µg/kg wet		20.0		92	70-130	18	25
4-Chlorotoluene	17.8		µg/kg wet		20.0		89	70-130	16	25
1,2-Dibromo-3-chloropropane	17.5		µg/kg wet		20.0		87	70-130	6	25
Dibromochloromethane	17.4		µg/kg wet		20.0		87	70-130	10	50
1,2-Dibromoethane (EDB)	19.6		µg/kg wet		20.0		98	70-130	7	25
Dibromomethane	19.3		µg/kg wet		20.0		96	70-130	11	25
1,2-Dichlorobenzene	18.4		µg/kg wet		20.0		92	70-130	11	25
1,3-Dichlorobenzene	18.3		µg/kg wet		20.0		92	70-130	15	25
1,4-Dichlorobenzene	17.8		µg/kg wet		20.0		89	70-130	11	25
Dichlorodifluoromethane (Freon12)	16.2		µg/kg wet		20.0		81	70-130	19	50
1,1-Dichloroethane	17.5		µg/kg wet		20.0		88	70-130	14	25
1,2-Dichloroethane	18.9		µg/kg wet		20.0		95	70-130	9	25
1,1-Dichloroethene	16.3		µg/kg wet		20.0		82	70-130	22	25
cis-1,2-Dichloroethene	17.8		µg/kg wet		20.0		89	70-130	15	25
trans-1,2-Dichloroethene	17.1		µg/kg wet		20.0		85	70-130	21	25
1,2-Dichloropropane	18.0		µg/kg wet		20.0		90	70-130	12	25
1,3-Dichloropropane	19.5		µg/kg wet		20.0		98	70-130	7	25
2,2-Dichloropropane	15.4		µg/kg wet		20.0		77	70-130	19	25
1,1-Dichloropropene	16.7		µg/kg wet		20.0		84	70-130	19	25
cis-1,3-Dichloropropene	17.1		µg/kg wet		20.0		86	70-130	11	25
trans-1,3-Dichloropropene	16.5		µg/kg wet		20.0		82	70-130	10	25
Ethylbenzene	17.6		µg/kg wet		20.0		88	70-130	17	25
Hexachlorobutadiene	16.4		µg/kg wet		20.0		82	70-130	18	50
2-Hexanone (MBK)	20.1		µg/kg wet		20.0		101	70-130	7	25
Isopropylbenzene	17.4		µg/kg wet		20.0		87	70-130	18	25
4-Isopropyltoluene	17.0		µg/kg wet		20.0		85	70-130	18	25
Methyl tert-butyl ether	18.4		µg/kg wet		20.0		92	70-130	5	25
4-Methyl-2-pentanone (MIBK)	21.8		µg/kg wet		20.0		109	70-130	5	50
Methylene chloride	17.2		µg/kg wet		20.0		86	70-130	13	25
Naphthalene	18.2		µg/kg wet		20.0		91	70-130	9	25
n-Propylbenzene	17.5		µg/kg wet		20.0		87	70-130	19	25
Styrene	17.6		µg/kg wet		20.0		88	70-130	18	25
1,1,1,2-Tetrachloroethane	17.6		µg/kg wet		20.0		88	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 1026621 - SW846 5035A Soil (low level)										
LCS Dup (1026621-BSD1)						Prepared & Analyzed: 22-Dec-10				
1,1,2,2-Tetrachloroethane	19.9		µg/kg wet		20.0		99	70-130	7	25
Tetrachloroethene	17.6		µg/kg wet		20.0		88	70-130	17	25
Toluene	17.0		µg/kg wet		20.0		85	70-130	15	25
1,2,3-Trichlorobenzene	20.0		µg/kg wet		20.0		100	70-130	9	25
1,2,4-Trichlorobenzene	19.2		µg/kg wet		20.0		96	70-130	12	25
1,3,5-Trichlorobenzene	18.0		µg/kg wet		20.0		90	70-130	11	25
1,1,1-Trichloroethane	16.5		µg/kg wet		20.0		83	70-130	19	25
1,1,2-Trichloroethane	19.0		µg/kg wet		20.0		95	70-130	10	25
Trichloroethene	17.7		µg/kg wet		20.0		89	70-130	17	25
Trichlorofluoromethane (Freon 11)	17.2		µg/kg wet		20.0		86	70-130	20	50
1,2,3-Trichloropropane	20.0		µg/kg wet		20.0		100	70-130	8	25
1,2,4-Trimethylbenzene	17.8		µg/kg wet		20.0		89	70-130	15	25
1,3,5-Trimethylbenzene	17.6		µg/kg wet		20.0		88	70-130	18	25
Vinyl chloride	16.4		µg/kg wet		20.0		82	70-130	25	25
m,p-Xylene	35.7		µg/kg wet		40.0		89	70-130	18	25
o-Xylene	18.0		µg/kg wet		20.0		90	70-130	16	25
Tetrahydrofuran	20.1		µg/kg wet		20.0		101	70-130	6	25
Ethyl ether	18.5		µg/kg wet		20.0		92	70-130	7	50
Tert-amyl methyl ether	19.5		µg/kg wet		20.0		98	70-130	7	25
Ethyl tert-butyl ether	17.8		µg/kg wet		20.0		89	70-130	8	25
Di-isopropyl ether	18.0		µg/kg wet		20.0		90	70-130	8	25
Tert-Butanol / butyl alcohol	187		µg/kg wet		200		93	70-130	3	25
1,4-Dioxane	206		µg/kg wet		200		103	70-130	6	25
trans-1,4-Dichloro-2-butene	14.0		µg/kg wet		20.0		70	70-130	13	25
Ethanol	511		µg/kg wet		400		128	70-130	0.7	30
Surrogate: 4-Bromofluorobenzene	*50.9*		µg/kg wet		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*50.4*		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.0*		µg/kg wet		*50.0*		*98*	*70-130*		
Surrogate: Dibromofluoromethane	*50.9*		µg/kg wet		*50.0*		*102*	*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 1026748 - SW846 3545A										
Blank (1026748-BLK1)						Prepared & Analyzed: 23-Dec-10				
Acenaphthene	BRL		µg/kg wet	165						
Acenaphthylene	BRL		µg/kg wet	165						
Anthracene	BRL		µg/kg wet	165						
Benzo (a) anthracene	BRL		µg/kg wet	165						
Benzo (a) pyrene	BRL		µg/kg wet	165						
Benzo (b) fluoranthene	BRL		µg/kg wet	165						
Benzo (g,h,i) perylene	BRL		µg/kg wet	165						
Benzo (k) fluoranthene	BRL		µg/kg wet	165						
Chrysene	BRL		µg/kg wet	165						
Dibenzo (a,h) anthracene	BRL		µg/kg wet	165						
Fluoranthene	BRL		µg/kg wet	165						
Fluorene	BRL		µg/kg wet	165						
Indeno (1,2,3-cd) pyrene	BRL		µg/kg wet	165						
1-Methylnaphthalene	BRL		µg/kg wet	165						
2-Methylnaphthalene	BRL		µg/kg wet	165						
Naphthalene	BRL		µg/kg wet	165						
Phenanthrene	BRL		µg/kg wet	165						
Pyrene	BRL		µg/kg wet	165						
Surrogate: 2-Fluorobiphenyl	*1080*		µg/kg wet		*1670*		*65*	*30-130*		
Surrogate: Terphenyl-d14	*1060*		µg/kg wet		*1670*		*64*	*30-130*		
LCS (1026748-BS1)						Prepared & Analyzed: 23-Dec-10				
Acenaphthene	1330		µg/kg wet	165	1670		80	40-140		
Acenaphthylene	1290		µg/kg wet	165	1670		77	40-140		
Anthracene	1150		µg/kg wet	165	1670		69	40-140		
Benzo (a) anthracene	1260		µg/kg wet	165	1670		76	40-140		
Benzo (a) pyrene	1340		µg/kg wet	165	1670		81	40-140		
Benzo (b) fluoranthene	1430		µg/kg wet	165	1670		86	40-140		
Benzo (g,h,i) perylene	1180		µg/kg wet	165	1670		71	40-140		
Benzo (k) fluoranthene	1300		µg/kg wet	165	1670		78	40-140		
Chrysene	1360		µg/kg wet	165	1670		82	40-140		
Dibenzo (a,h) anthracene	1290		µg/kg wet	165	1670		77	40-140		
Fluoranthene	1060		µg/kg wet	165	1670		63	40-140		
Fluorene	1370		µg/kg wet	165	1670		82	40-140		
Indeno (1,2,3-cd) pyrene	1200		µg/kg wet	165	1670		72	40-140		
1-Methylnaphthalene	1230		µg/kg wet	165	1670		74	40-140		
2-Methylnaphthalene	1120		µg/kg wet	165	1670		67	40-140		
Naphthalene	1260		µg/kg wet	165	1670		75	40-140		
Phenanthrene	1180		µg/kg wet	165	1670		71	40-140		
Pyrene	1300		µg/kg wet	165	1670		78	40-140		
Surrogate: 2-Fluorobiphenyl	*1320*		µg/kg wet		*1670*		*79*	*30-130*		
Surrogate: Terphenyl-d14	*1270*		µg/kg wet		*1670*		*76*	*30-130*		
Batch 1027133 - SW846 3545A										
Blank (1027133-BLK1)						Prepared: 29-Dec-10 Analyzed: 30-Dec-10				
Acenaphthene	BRL		µg/kg wet	165						
Acenaphthylene	BRL		µg/kg wet	165						
Anthracene	BRL		µg/kg wet	165						
Benzo (a) anthracene	BRL		µg/kg wet	165						
Benzo (a) pyrene	BRL		µg/kg wet	165						
Benzo (b) fluoranthene	BRL		µg/kg wet	165						
Benzo (g,h,i) perylene	BRL		µg/kg wet	165						
Benzo (k) fluoranthene	BRL		µg/kg wet	165						

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1027133 - SW846 3545A										
Blank (1027133-BLK1)						Prepared: 29-Dec-10 Analyzed: 30-Dec-10				
Chrysene	BRL		µg/kg wet	165						
Dibenzo (a,h) anthracene	BRL		µg/kg wet	165						
Fluoranthene	BRL		µg/kg wet	165						
Fluorene	BRL		µg/kg wet	165						
Indeno (1,2,3-cd) pyrene	BRL		µg/kg wet	165						
1-Methylnaphthalene	BRL		µg/kg wet	165						
2-Methylnaphthalene	BRL		µg/kg wet	165						
Naphthalene	BRL		µg/kg wet	165						
Phenanthrene	BRL		µg/kg wet	165						
Pyrene	BRL		µg/kg wet	165						
Surrogate: 2-Fluorobiphenyl	*1350*		µg/kg wet		*1670*		*81*	*30-130*		
Surrogate: Terphenyl-dl4	*1390*		µg/kg wet		*1670*		*83*	*30-130*		
LCS (1027133-BS1)						Prepared: 29-Dec-10 Analyzed: 30-Dec-10				
Acenaphthene	1270		µg/kg wet	165	1670		76	40-140		
Acenaphthylene	1210		µg/kg wet	165	1670		72	40-140		
Anthracene	1080		µg/kg wet	165	1670		65	40-140		
Benzo (a) anthracene	1200		µg/kg wet	165	1670		72	40-140		
Benzo (a) pyrene	1300		µg/kg wet	165	1670		78	40-140		
Benzo (b) fluoranthene	1230		µg/kg wet	165	1670		74	40-140		
Benzo (g,h,i) perylene	1280		µg/kg wet	165	1670		77	40-140		
Benzo (k) fluoranthene	1410		µg/kg wet	165	1670		85	40-140		
Chrysene	1300		µg/kg wet	165	1670		78	40-140		
Dibenzo (a,h) anthracene	1350		µg/kg wet	165	1670		81	40-140		
Fluoranthene	1070		µg/kg wet	165	1670		64	40-140		
Fluorene	1260		µg/kg wet	165	1670		75	40-140		
Indeno (1,2,3-cd) pyrene	1320		µg/kg wet	165	1670		79	40-140		
1-Methylnaphthalene	1230		µg/kg wet	165	1670		74	40-140		
2-Methylnaphthalene	1690		µg/kg wet	165	1670		101	40-140		
Naphthalene	1190		µg/kg wet	165	1670		71	40-140		
Phenanthrene	1100		µg/kg wet	165	1670		66	40-140		
Pyrene	1240		µg/kg wet	165	1670		74	40-140		
Surrogate: 2-Fluorobiphenyl	*1340*		µg/kg wet		*1670*		*80*	*30-130*		
Surrogate: Terphenyl-dl4	*1240*		µg/kg wet		*1670*		*75*	*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 1026460 - SW846 3545A										
Blank (1026460-BLK1)					Prepared & Analyzed: 21-Dec-10					
Aroclor-1016	BRL		µg/kg wet	20.0						
Aroclor-1016 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1221	BRL		µg/kg wet	20.0						
Aroclor-1221 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1232	BRL		µg/kg wet	20.0						
Aroclor-1232 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1242	BRL		µg/kg wet	20.0						
Aroclor-1242 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1248	BRL		µg/kg wet	20.0						
Aroclor-1248 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1254	BRL		µg/kg wet	20.0						
Aroclor-1254 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1260	BRL		µg/kg wet	20.0						
Aroclor-1260 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1262	BRL		µg/kg wet	20.0						
Aroclor-1262 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1268	BRL		µg/kg wet	20.0						
Aroclor-1268 [2C]	BRL		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*18.9*		µg/kg wet		*20.0*		*94*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*18.4*		µg/kg wet		*20.0*		*92*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*23.8*		µg/kg wet		*20.0*		*119*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.5*		µg/kg wet		*20.0*		*103*	*30-150*		
LCS (1026460-BS1)					Prepared & Analyzed: 21-Dec-10					
Aroclor-1016	237		µg/kg wet	20.0	250		95	50-140		
Aroclor-1016 [2C]	211		µg/kg wet	20.0	250		84	50-140		
Aroclor-1260	274		µg/kg wet	20.0	250		110	50-140		
Aroclor-1260 [2C]	258		µg/kg wet	20.0	250		103	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.2*		µg/kg wet		*20.0*		*96*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*18.5*		µg/kg wet		*20.0*		*92*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*25.4*		µg/kg wet		*20.0*		*127*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*21.2*		µg/kg wet		*20.0*		*106*	*30-150*		
LCS Dup (1026460-BSD1)					Prepared & Analyzed: 21-Dec-10					
Aroclor-1016	227		µg/kg wet	20.0	250		91	50-140	4	30
Aroclor-1016 [2C]	204		µg/kg wet	20.0	250		81	50-140	3	30
Aroclor-1260	261		µg/kg wet	20.0	250		104	50-140	5	30
Aroclor-1260 [2C]	251		µg/kg wet	20.0	250		100	50-140	3	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*17.9*		µg/kg wet		*20.0*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*17.9*		µg/kg wet		*20.0*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.6*		µg/kg wet		*20.0*		*123*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.4*		µg/kg wet		*20.0*		*102*	*30-150*		
Duplicate (1026460-DUP1)			**Source: SB22692-06**			Prepared: 21-Dec-10 Analyzed: 23-Dec-10				
Aroclor-1016	BRL		µg/kg dry	22.4		BRL				40
Aroclor-1016 [2C]	BRL		µg/kg dry	22.4		BRL				40
Aroclor-1221	BRL		µg/kg dry	22.4		BRL				40
Aroclor-1221 [2C]	BRL		µg/kg dry	22.4		BRL				40
Aroclor-1232	BRL		µg/kg dry	22.4		BRL				40
Aroclor-1232 [2C]	BRL		µg/kg dry	22.4		BRL				40
Aroclor-1242	BRL		µg/kg dry	22.4		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 1026460 - SW846 3545A										
Duplicate (1026460-DUP1)			Source: SB22692-06		Prepared: 21-Dec-10 Analyzed: 23-Dec-10					
Aroclor-1242 [2C]	BRL		µg/kg dry	22.4		BRL				40
Aroclor-1248	BRL		µg/kg dry	22.4		BRL				40
Aroclor-1248 [2C]	BRL		µg/kg dry	22.4		BRL				40
Aroclor-1254	BRL		µg/kg dry	22.4		BRL				40
Aroclor-1254 [2C]	BRL		µg/kg dry	22.4		BRL				40
Aroclor-1260	BRL		µg/kg dry	22.4		BRL				40
Aroclor-1260 [2C]	BRL		µg/kg dry	22.4		BRL				40
Aroclor-1262	BRL		µg/kg dry	22.4		BRL				40
Aroclor-1262 [2C]	BRL		µg/kg dry	22.4		BRL				40
Aroclor-1268	BRL		µg/kg dry	22.4		BRL				40
Aroclor-1268 [2C]	BRL		µg/kg dry	22.4		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.7*		µg/kg dry		*22.4*		*88*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.0*		µg/kg dry		*22.4*		*89*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.0*		µg/kg dry		*22.4*		*76*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.9*		µg/kg dry		*22.4*		*89*	*30-150*		
Matrix Spike (1026460-MS1)			Source: SB22692-06		Prepared: 21-Dec-10 Analyzed: 23-Dec-10					
Aroclor-1016	226		µg/kg dry	22.2	277	BRL	82	40-135		
Aroclor-1016 [2C]	238		µg/kg dry	22.2	277	BRL	86	40-135		
Aroclor-1260	258		µg/kg dry	22.2	277	BRL	93	40-135		
Aroclor-1260 [2C]	245		µg/kg dry	22.2	277	BRL	89	40-135		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.0*		µg/kg dry		*22.2*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*17.7*		µg/kg dry		*22.2*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.2*		µg/kg dry		*22.2*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.0*		µg/kg dry		*22.2*		*90*	*30-150*		
Matrix Spike Dup (1026460-MSD1)			Source: SB22692-06		Prepared: 21-Dec-10 Analyzed: 23-Dec-10					
Aroclor-1016	203		µg/kg dry	22.1	276	BRL	74	40-135	10	30
Aroclor-1016 [2C]	235		µg/kg dry	22.1	276	BRL	85	40-135	0.7	30
Aroclor-1260	241		µg/kg dry	22.1	276	BRL	87	40-135	6	30
Aroclor-1260 [2C]	238		µg/kg dry	22.1	276	BRL	86	40-135	3	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.9*		µg/kg dry		*22.1*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*18.8*		µg/kg dry		*22.1*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.1*		µg/kg dry		*22.1*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.9*		µg/kg dry		*22.1*		*90*	*30-150*		
Batch 1026607 - SW846 3545A										
Blank (1026607-BLK1)					Prepared: 22-Dec-10 Analyzed: 23-Dec-10					
alpha-BHC	BRL		µg/kg wet	2.50						
alpha-BHC [2C]	BRL		µg/kg wet	2.50						
beta-BHC	BRL		µg/kg wet	2.50						
beta-BHC [2C]	BRL		µg/kg wet	2.50						
delta-BHC	BRL		µg/kg wet	2.50						
delta-BHC [2C]	BRL		µg/kg wet	2.50						
gamma-BHC (Lindane)	BRL		µg/kg wet	2.50						
gamma-BHC (Lindane) [2C]	BRL		µg/kg wet	2.50						
Heptachlor	BRL		µg/kg wet	2.50						
Heptachlor [2C]	BRL		µg/kg wet	2.50						
Aldrin	BRL		µg/kg wet	2.50						
Aldrin [2C]	BRL		µg/kg wet	2.50						
Heptachlor epoxide	BRL		µg/kg wet	2.50						

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1026607 - SW846 3545A										
Blank (1026607-BLK1)					Prepared: 22-Dec-10 Analyzed: 23-Dec-10					
Heptachlor epoxide [2C]	BRL		µg/kg wet	2.50						
Endosulfan I	BRL		µg/kg wet	2.50						
Endosulfan I [2C]	BRL		µg/kg wet	2.50						
Dieldrin	BRL		µg/kg wet	2.50						
Dieldrin [2C]	BRL		µg/kg wet	2.50						
4,4'-DDE (p,p')	BRL		µg/kg wet	2.50						
4,4'-DDE (p,p') [2C]	BRL		µg/kg wet	2.50						
Endrin	BRL		µg/kg wet	4.00						
Endrin [2C]	BRL		µg/kg wet	4.00						
Endosulfan II	BRL		µg/kg wet	4.00						
Endosulfan II [2C]	BRL		µg/kg wet	4.00						
4,4'-DDD (p,p')	BRL		µg/kg wet	4.00						
4,4'-DDD (p,p') [2C]	BRL		µg/kg wet	4.00						
Endosulfan sulfate	BRL		µg/kg wet	4.00						
Endosulfan sulfate [2C]	BRL		µg/kg wet	4.00						
4,4'-DDT (p,p')	BRL		µg/kg wet	4.00						
4,4'-DDT (p,p') [2C]	BRL		µg/kg wet	4.00						
Methoxychlor	BRL		µg/kg wet	4.00						
Methoxychlor [2C]	BRL		µg/kg wet	4.00						
Endrin ketone	BRL		µg/kg wet	4.00						
Endrin ketone [2C]	BRL		µg/kg wet	4.00						
Endrin aldehyde	BRL		µg/kg wet	4.00						
Endrin aldehyde [2C]	BRL		µg/kg wet	4.00						
alpha-Chlordane	BRL		µg/kg wet	2.50						
alpha-Chlordane [2C]	BRL		µg/kg wet	2.50						
gamma-Chlordane	BRL		µg/kg wet	2.50						
gamma-Chlordane [2C]	BRL		µg/kg wet	2.50						
Toxaphene	BRL		µg/kg wet	50.0						
Toxaphene [2C]	BRL		µg/kg wet	50.0						
Chlordane	BRL		µg/kg wet	10.0						
Chlordane [2C]	BRL		µg/kg wet	10.0						
Alachlor	BRL		µg/kg wet	2.50						
Alachlor [2C]	BRL		µg/kg wet	2.50						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*8.53*		µg/kg wet		*10.0*		*85*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*8.32*		µg/kg wet		*10.0*		*83*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*8.47*		µg/kg wet		*10.0*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*8.35*		µg/kg wet		*10.0*		*84*	*30-150*		
LCS (1026607-BS1)					Prepared: 22-Dec-10 Analyzed: 23-Dec-10					
alpha-BHC	22.4		µg/kg wet	2.50	25.0		90	40-140		
alpha-BHC [2C]	21.1		µg/kg wet	2.50	25.0		84	40-140		
beta-BHC	22.0		µg/kg wet	2.50	25.0		88	40-140		
beta-BHC [2C]	21.2		µg/kg wet	2.50	25.0		85	40-140		
delta-BHC	19.3		µg/kg wet	2.50	25.0		77	40-140		
delta-BHC [2C]	18.6		µg/kg wet	2.50	25.0		74	40-140		
gamma-BHC (Lindane)	22.7		µg/kg wet	2.50	25.0		91	50-120		
gamma-BHC (Lindane) [2C]	21.3		µg/kg wet	2.50	25.0		85	50-120		
Heptachlor	23.2		µg/kg wet	2.50	25.0		93	40-140		
Heptachlor [2C]	21.9		µg/kg wet	2.50	25.0		87	40-140		
Aldrin	21.6		µg/kg wet	2.50	25.0		86	40-140		
Aldrin [2C]	20.7		µg/kg wet	2.50	25.0		83	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1026607 - SW846 3545A										
LCS (1026607-BS1)					Prepared: 22-Dec-10 Analyzed: 23-Dec-10					
Heptachlor epoxide	21.9		µg/kg wet	2.50	25.0		88	50-140		
Heptachlor epoxide [2C]	21.8		µg/kg wet	2.50	25.0		87	50-140		
Endosulfan I	22.4		µg/kg wet	2.50	25.0		90	40-140		
Endosulfan I [2C]	23.0		µg/kg wet	2.50	25.0		92	40-140		
Dieldrin	22.3		µg/kg wet	2.50	25.0		89	40-130		
Dieldrin [2C]	22.4		µg/kg wet	2.50	25.0		90	40-130		
4,4'-DDE (p,p')	21.6		µg/kg wet	2.50	25.0		86	50-140		
4,4'-DDE (p,p') [2C]	20.8		µg/kg wet	2.50	25.0		83	50-140		
Endrin	23.1		µg/kg wet	4.00	25.0		93	50-120		
Endrin [2C]	21.3		µg/kg wet	4.00	25.0		85	50-120		
Endosulfan II	22.3		µg/kg wet	4.00	25.0		89	40-140		
Endosulfan II [2C]	22.1		µg/kg wet	4.00	25.0		88	40-140		
4,4'-DDD (p,p')	21.6		µg/kg wet	4.00	25.0		86	40-140		
4,4'-DDD (p,p') [2C]	22.9		µg/kg wet	4.00	25.0		92	40-140		
Endosulfan sulfate	21.2		µg/kg wet	4.00	25.0		85	50-120		
Endosulfan sulfate [2C]	21.5		µg/kg wet	4.00	25.0		86	50-120		
4,4'-DDT (p,p')	21.0		µg/kg wet	4.00	25.0		84	40-140		
4,4'-DDT (p,p') [2C]	17.3		µg/kg wet	4.00	25.0		69	40-140		
Methoxychlor	20.5		µg/kg wet	4.00	25.0		82	40-140		
Methoxychlor [2C]	16.9		µg/kg wet	4.00	25.0		68	40-140		
Endrin ketone	21.4		µg/kg wet	4.00	25.0		85	40-140		
Endrin ketone [2C]	22.9		µg/kg wet	4.00	25.0		92	40-140		
Endrin aldehyde	20.0		µg/kg wet	4.00	25.0		80	40-140		
Endrin aldehyde [2C]	21.0		µg/kg wet	4.00	25.0		84	40-140		
alpha-Chlordane	20.2		µg/kg wet	2.50	25.0		81	40-140		
alpha-Chlordane [2C]	20.2		µg/kg wet	2.50	25.0		81	40-140		
gamma-Chlordane	20.7		µg/kg wet	2.50	25.0		83	40-130		
gamma-Chlordane [2C]	20.9		µg/kg wet	2.50	25.0		84	40-130		
Alachlor	24.5		µg/kg wet	2.50	25.0		98	40-140		
Alachlor [2C]	24.8		µg/kg wet	2.50	25.0		99	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*9.52*		µg/kg wet		*10.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*9.00*		µg/kg wet		*10.0*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*9.27*		µg/kg wet		*10.0*		*93*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*9.03*		µg/kg wet		*10.0*		*90*	*30-150*		
LCS Dup (1026607-BSD1)					Prepared: 22-Dec-10 Analyzed: 23-Dec-10					
alpha-BHC	22.0		µg/kg wet	2.50	25.0		88	40-140	2	30
alpha-BHC [2C]	20.9		µg/kg wet	2.50	25.0		83	40-140	1	30
beta-BHC	21.6		µg/kg wet	2.50	25.0		86	40-140	2	30
beta-BHC [2C]	20.9		µg/kg wet	2.50	25.0		84	40-140	1	30
delta-BHC	19.0		µg/kg wet	2.50	25.0		76	40-140	2	30
delta-BHC [2C]	18.4		µg/kg wet	2.50	25.0		74	40-140	1	30
gamma-BHC (Lindane)	22.3		µg/kg wet	2.50	25.0		89	50-120	2	30
gamma-BHC (Lindane) [2C]	21.0		µg/kg wet	2.50	25.0		84	50-120	1	30
Heptachlor	22.7		µg/kg wet	2.50	25.0		91	40-140	2	30
Heptachlor [2C]	21.7		µg/kg wet	2.50	25.0		87	40-140	0.7	30
Aldrin	21.1		µg/kg wet	2.50	25.0		85	40-140	2	30
Aldrin [2C]	20.5		µg/kg wet	2.50	25.0		82	40-140	1	30
Heptachlor epoxide	21.6		µg/kg wet	2.50	25.0		86	50-140	2	30
Heptachlor epoxide [2C]	21.7		µg/kg wet	2.50	25.0		87	50-140	0.2	30
Endosulfan I	21.9		µg/kg wet	2.50	25.0		87	40-140	2	30

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1026607 - SW846 3545A										
LCS Dup (1026607-BSD1)						Prepared: 22-Dec-10 Analyzed: 23-Dec-10				
Endosulfan I [2C]	23.1		µg/kg wet	2.50	25.0		92	40-140	0.4	30
Dieldrin	21.9		µg/kg wet	2.50	25.0		87	40-130	2	30
Dieldrin [2C]	22.6		µg/kg wet	2.50	25.0		90	40-130	0.7	30
4,4'-DDE (p,p')	21.2		µg/kg wet	2.50	25.0		85	50-140	2	30
4,4'-DDE (p,p') [2C]	21.2		µg/kg wet	2.50	25.0		85	50-140	2	30
Endrin	22.8		µg/kg wet	4.00	25.0		91	50-120	1	30
Endrin [2C]	22.0		µg/kg wet	4.00	25.0		88	50-120	3	30
Endosulfan II	22.1		µg/kg wet	4.00	25.0		88	40-140	1	30
Endosulfan II [2C]	22.7		µg/kg wet	4.00	25.0		91	40-140	3	30
4,4'-DDD (p,p')	21.4		µg/kg wet	4.00	25.0		86	40-140	0.9	30
4,4'-DDD (p,p') [2C]	23.8		µg/kg wet	4.00	25.0		95	40-140	4	30
Endosulfan sulfate	20.8		µg/kg wet	4.00	25.0		83	50-120	2	30
Endosulfan sulfate [2C]	22.4		µg/kg wet	4.00	25.0		90	50-120	4	30
4,4'-DDT (p,p')	20.7		µg/kg wet	4.00	25.0		83	40-140	1	30
4,4'-DDT (p,p') [2C]	18.3		µg/kg wet	4.00	25.0		73	40-140	5	30
Methoxychlor	20.3		µg/kg wet	4.00	25.0		81	40-140	0.9	30
Methoxychlor [2C]	18.3		µg/kg wet	4.00	25.0		73	40-140	8	30
Endrin ketone	20.9		µg/kg wet	4.00	25.0		83	40-140	2	30
Endrin ketone [2C]	23.9		µg/kg wet	4.00	25.0		96	40-140	4	30
Endrin aldehyde	19.7		µg/kg wet	4.00	25.0		79	40-140	2	30
Endrin aldehyde [2C]	21.6		µg/kg wet	4.00	25.0		87	40-140	3	30
alpha-Chlordane	19.7		µg/kg wet	2.50	25.0		79	40-140	3	30
alpha-Chlordane [2C]	20.4		µg/kg wet	2.50	25.0		81	40-140	0.6	30
gamma-Chlordane	20.4		µg/kg wet	2.50	25.0		81	40-130	2	30
gamma-Chlordane [2C]	21.0		µg/kg wet	2.50	25.0		84	40-130	0.6	30
Alachlor	24.2		µg/kg wet	2.50	25.0		97	40-140	1	30
Alachlor [2C]	23.9		µg/kg wet	2.50	25.0		95	40-140	4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*9.35*		µg/kg wet		*10.0*		*94*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*8.81*		µg/kg wet		*10.0*		*88*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*9.10*		µg/kg wet		*10.0*		*91*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*9.83*		µg/kg wet		*10.0*		*98*	*30-150*		

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1026753 - SW846 3545A										
Blank (1026753-BLK1)						Prepared & Analyzed: 23-Dec-10				
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	*2.68*		mg/kg wet		*3.33*		*80*	*50-150*		
LCS (1026753-BS1)						Prepared & Analyzed: 23-Dec-10				
C9-C36 Aliphatic Hydrocarbons	66.8		mg/kg wet	13.3	93.3		72	60-120		
Surrogate: 1-Chlorooctadecane	*2.17*		mg/kg wet		*3.33*		*65*	*50-150*		
Batch 1027237 - SW846 3545A										
Blank (1027237-BLK1)						Prepared: 30-Dec-10 Analyzed: 03-Jan-11				
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	*2.57*		mg/kg wet		*3.33*		*77*	*50-150*		
LCS (1027237-BS1)						Prepared: 30-Dec-10 Analyzed: 03-Jan-11				
C9-C36 Aliphatic Hydrocarbons	68.1		mg/kg wet	13.3	93.3		73	60-120		
Surrogate: 1-Chlorooctadecane	*2.18*		mg/kg wet		*3.33*		*65*	*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 1026852 - SW846 3050B										
Blank (1026852-BLK1)						Prepared: 27-Dec-10		Analyzed: 28-Dec-10		
Lead	BRL		mg/kg wet	1.26						
Arsenic	BRL		mg/kg wet	1.26						
Cadmium	BRL		mg/kg wet	0.419						
Chromium	BRL		mg/kg wet	0.838						
Duplicate (1026852-DUP1)			Source: SB22692-01			Prepared: 27-Dec-10		Analyzed: 28-Dec-10		
Lead	53.0		mg/kg dry	1.52		51.4			3	20
Cadmium	0.663		mg/kg dry	0.506		0.622			6	20
Chromium	17.5		mg/kg dry	1.01		20.4			16	20
Arsenic	4.69		mg/kg dry	1.52		4.58			2	20
Matrix Spike (1026852-MS1)			Source: SB22692-02			Prepared: 27-Dec-10		Analyzed: 28-Dec-10		
Lead	131		mg/kg dry	1.41	117	41.6	76	75-125		
Chromium	121		mg/kg dry	0.940	117	17.6	88	75-125		
Arsenic	107		mg/kg dry	1.41	117	4.63	87	75-125		
Cadmium	95.7		mg/kg dry	0.470	117	0.602	81	75-125		
Matrix Spike Dup (1026852-MSD1)			Source: SB22692-02			Prepared: 27-Dec-10		Analyzed: 28-Dec-10		
Lead	135		mg/kg dry	1.43	119	41.6	78	75-125	3	20
Chromium	124		mg/kg dry	0.953	119	17.6	89	75-125	3	20
Cadmium	97.3		mg/kg dry	0.477	119	0.602	81	75-125	2	20
Arsenic	108		mg/kg dry	1.43	119	4.63	87	75-125	1	20
Post Spike (1026852-PS1)			Source: SB22692-02			Prepared: 27-Dec-10		Analyzed: 28-Dec-10		
Lead	149		mg/kg dry	1.46	121	41.6	89	80-120		
Arsenic	116		mg/kg dry	1.46	121	4.63	92	80-120		
Chromium	130		mg/kg dry	0.970	121	17.6	93	80-120		
Cadmium	102		mg/kg dry	0.485	121	0.602	84	80-120		
Reference (1026852-SRM1)						Prepared: 27-Dec-10		Analyzed: 28-Dec-10		
Lead	55.5		mg/kg wet	1.50	61.2		91	83.3-116.7		
Chromium	87.2		mg/kg wet	1.00	85.7		102	81.5-117.9		
Arsenic	72.5		mg/kg wet	1.50	69.9		104	83.2-117.5		
Cadmium	39.8		mg/kg wet	0.500	43.4		92	84-115.9		
Reference (1026852-SRM2)						Prepared: 27-Dec-10		Analyzed: 28-Dec-10		
Lead	54.0		mg/kg wet	1.50	61.9		87	83.3-116.7		
Chromium	85.8		mg/kg wet	1.00	86.7		99	81.5-117.9		
Arsenic	70.1		mg/kg wet	1.50	70.7		99	83.2-117.5		
Cadmium	39.9		mg/kg wet	0.500	43.9		91	84-115.9		
Batch 1026853 - EPA200/SW7000 Series										
Blank (1026853-BLK1)						Prepared: 27-Dec-10		Analyzed: 28-Dec-10		
Mercury	BRL		mg/kg wet	0.0272						
Duplicate (1026853-DUP1)			Source: SB22692-01			Prepared: 27-Dec-10		Analyzed: 28-Dec-10		
Mercury	0.609		mg/kg dry	0.0308		0.504			19	20
Matrix Spike (1026853-MS1)			Source: SB22692-02			Prepared: 27-Dec-10		Analyzed: 29-Dec-10		
Mercury	1.08	QM8	mg/kg dry	0.146	0.406	0.534	135	75-125		
Matrix Spike Dup (1026853-MSD1)			Source: SB22692-02			Prepared: 27-Dec-10		Analyzed: 29-Dec-10		
Mercury	1.11	QM8	mg/kg dry	0.146	0.406	0.534	142	75-125	3	20
Post Spike (1026853-PS1)			Source: SB22692-02			Prepared: 27-Dec-10		Analyzed: 28-Dec-10		
Mercury	0.949		mg/kg dry	0.0319	0.443	0.534	93	80-120		
Reference (1026853-SRM1)						Prepared: 27-Dec-10		Analyzed: 28-Dec-10		
Mercury	2.25		mg/kg wet	0.300	1.96		115	71.4-128.6		

TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1100113 - SW846 3010A										
Blank (1100113-BLK1)						Prepared & Analyzed: 04-Jan-11				
Lead	BRL		mg/l	0.0150						
LCS (1100113-BS1)						Prepared & Analyzed: 04-Jan-11				
Lead	2.56		mg/l	0.0150	2.50		102	85-115		
LCS Dup (1100113-BSD1)						Prepared & Analyzed: 04-Jan-11				
Lead	2.56		mg/l	0.0150	2.50		102	85-115	0.08	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 1100111 - SW846 3010A										
Blank (1100111-BLK1)					Prepared: 04-Jan-11 Analyzed: 05-Jan-11					
Lead	BRL		mg/l	0.0075						
Arsenic	BRL		mg/l	0.0040						
LCS (1100111-BS1)					Prepared: 04-Jan-11 Analyzed: 05-Jan-11					
Lead	1.18		mg/l	0.0075	1.25		94	85-115		
Arsenic	1.21		mg/l	0.0040	1.25		97	85-115		
LCS Dup (1100111-BSD1)					Prepared: 04-Jan-11 Analyzed: 05-Jan-11					
Lead	1.19		mg/l	0.0075	1.25		96	85-115	2	20
Arsenic	1.24		mg/l	0.0040	1.25		99	85-115	2	20

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1027241 - General Preparation										
Duplicate (1027241-DUP1)			Source: SB22692-05			Prepared & Analyzed: 30-Dec-10				
% Solids	91.2		%			91.7			0.5	20

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S005403				
Initial Cal Check (S005403-ICV1)				
C9-C36 Aliphatic Hydrocarbons	6.850074E+09	4.524503E+08	2.3	20
n-Nonadecane	4.195177E+08	4.201987E+08	0.2	20
n-Decane	4.08862E+08	4.521563E+08	10.6	20
n-Dodecane	4.117274E+08	4.457497E+08	8.3	20
n-Tetradecane	4.155285E+08	4.379405E+08	5.4	20
n-Hexadecane	4.203499E+08	4.338235E+08	3.2	20
n-Octadecane	4.21621E+08	4.262364E+08	1.1	20
n-Eicosane	4.193316E+08	4.148626E+08	-1.1	20
n-Docosane	4.237473E+08	4.129857E+08	-2.5	20
n-Tetracosane	4.178471E+08	4.016732E+08	-3.9	20
n-Hexacosane	4.22006E+08	4.057435E+08	-3.9	20
n-Octacosane	4.195247E+08	4.043477E+08	-3.6	20
n-Triacontane	4.199855E+08	4.00714E+08	-4.6	20
n-Hexatriacontane	4.055747E+08	3.322052E+08	-18.1	20

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S011545				
Calibration Check (S011545-CCV1)				
C9-C36 Aliphatic Hydrocarbons	6.850074E+09	4.296069E+08	-3.1	20
n-Nonadecane	4.195177E+08	3.817112E+08	-9.0	20
n-Nonane	4.076585E+08	3.682021E+08	-9.7	20
n-Decane	4.08862E+08	3.655563E+08	-10.6	20
n-Dodecane	4.117274E+08	3.583918E+08	-13.0	20
n-Tetradecane	4.155285E+08	3.721722E+08	-10.4	20
n-Hexadecane	4.203499E+08	3.77945E+08	-10.1	20
n-Octadecane	4.21621E+08	3.825096E+08	-9.3	20
n-Eicosane	4.193316E+08	3.817033E+08	-9.0	20
n-Docosane	4.237473E+08	3.859606E+08	-8.9	20
n-Tetracosane	4.178471E+08	3.801263E+08	-9.0	20
n-Hexacosane	4.22006E+08	3.814253E+08	-9.6	20
n-Octacosane	4.195247E+08	3.771103E+08	-10.1	20
n-Triacontane	4.199855E+08	3.754113E+08	-10.6	20
n-Hexatriacontane	4.055747E+08	3.506971E+08	-13.5	20

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S011545				
Calibration Check (S011545-CCV2)				
C9-C36 Aliphatic Hydrocarbons	6.850074E+09	4.793549E+08	8.6	20
n-Nonadecane	4.195177E+08	3.916545E+08	-6.6	20
n-Nonane	4.076585E+08	4.443085E+08	9.0	20
n-Decane	4.08862E+08	4.049253E+08	-1.0	20
n-Dodecane	4.117274E+08	3.761496E+08	-8.6	20
n-Tetradecane	4.155285E+08	3.803341E+08	-8.5	20
n-Hexadecane	4.203499E+08	3.904458E+08	-7.1	20
n-Octadecane	4.21621E+08	3.928139E+08	-6.8	20
n-Eicosane	4.193316E+08	3.915853E+08	-6.6	20
n-Docosane	4.237473E+08	3.966066E+08	-6.4	20
n-Tetracosane	4.178471E+08	3.909913E+08	-6.4	20
n-Hexacosane	4.22006E+08	3.926305E+08	-7.0	20
n-Octacosane	4.195247E+08	3.885902E+08	-7.4	20
n-Triacontane	4.199855E+08	3.867631E+08	-7.9	20
n-Hexatriacontane	4.055747E+08	3.625229E+08	-10.6	20

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S011545				
Calibration Check (S011545-CCV3)				
C9-C36 Aliphatic Hydrocarbons	6.850074E+09	4.270724E+08	-3.6	20
n-Nonadecane	4.195177E+08	4.212003E+08	0.4	20
n-Nonane	4.076585E+08	4.173693E+08	2.4	20
n-Decane	4.08862E+08	4.246909E+08	3.9	20
n-Dodecane	4.117274E+08	4.10453E+08	-0.3	20
n-Tetradecane	4.155285E+08	4.170714E+08	0.4	20
n-Hexadecane	4.203499E+08	4.208292E+08	0.1	20
n-Octadecane	4.21621E+08	4.250225E+08	0.8	20
n-Eicosane	4.193316E+08	4.208891E+08	0.4	20
n-Docosane	4.237473E+08	4.26563E+08	0.7	20
n-Tetracosane	4.178471E+08	4.197378E+08	0.5	20
n-Hexacosane	4.22006E+08	4.228701E+08	0.2	20
n-Octacosane	4.195247E+08	4.197431E+08	0.05	20
n-Triacontane	4.199855E+08	4.16792E+08	-0.8	20
n-Hexatriacontane	4.055747E+08	3.902554E+08	-3.8	20

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S011545				
Calibration Check (S011545-CCV4)				
C9-C36 Aliphatic Hydrocarbons	6.850074E+09	4.658237E+08	5.4	20
n-Nonadecane	4.195177E+08	3.676318E+08	-12.4	20
n-Nonane	4.076585E+08	3.828404E+08	-6.1	20
n-Decane	4.08862E+08	3.723501E+08	-8.9	20
n-Dodecane	4.117274E+08	3.615405E+08	-12.2	20
n-Tetradecane	4.155285E+08	3.670335E+08	-11.7	20
n-Hexadecane	4.203499E+08	3.691706E+08	-12.2	20
n-Octadecane	4.21621E+08	3.692975E+08	-12.4	20
n-Eicosane	4.193316E+08	3.671933E+08	-12.4	20
n-Docosane	4.237473E+08	3.71233E+08	-12.4	20
n-Tetracosane	4.178471E+08	3.660962E+08	-12.4	20
n-Hexacosane	4.22006E+08	3.686578E+08	-12.6	20
n-Octacosane	4.195247E+08	3.650516E+08	-13.0	20
n-Triacontane	4.199855E+08	3.644166E+08	-13.2	20
n-Hexatriacontane	4.055747E+08	3.529083E+08	-13.0	20

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S011545				
Calibration Check (S011545-CCV5)				
C9-C36 Aliphatic Hydrocarbons	6.850074E+09	4.617557E+08	4.5	20
n-Nonadecane	4.195177E+08	3.614054E+08	-13.9	20
n-Nonane	4.076585E+08	3.81335E+08	-6.5	20
n-Decane	4.08862E+08	3.776318E+08	-7.6	20
n-Dodecane	4.117274E+08	3.541734E+08	-14.0	20
n-Tetradecane	4.155285E+08	3.594016E+08	-13.5	20
n-Hexadecane	4.203499E+08	3.616004E+08	-14.0	20
n-Octadecane	4.21621E+08	3.624538E+08	-14.0	20
n-Eicosane	4.193316E+08	3.615058E+08	-13.8	20
n-Docosane	4.237473E+08	3.659563E+08	-13.6	20
n-Tetracosane	4.178471E+08	3.602393E+08	-13.8	20
n-Hexacosane	4.22006E+08	3.64297E+08	-13.7	20
n-Octacosane	4.195247E+08	3.620002E+08	-13.7	20
n-Triacontane	4.199855E+08	3.615136E+08	-13.9	20
n-Hexatriacontane	4.055747E+08	3.673962E+08	-9.4	20

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S100040				
Calibration Check (S100040-CCV1)				
C9-C36 Aliphatic Hydrocarbons	6.850074E+09	4.480429E+08	1.3	20
n-Nonadecane	4.195177E+08	3.588883E+08	-14.5	20
n-Nonane	4.076585E+08	3.580815E+08	-12.2	20
n-Decane	4.08862E+08	3.551997E+08	-13.1	20
n-Dodecane	4.117274E+08	3.496346E+08	-15.1	20
n-Tetradecane	4.155285E+08	3.580016E+08	-13.8	20
n-Hexadecane	4.203499E+08	3.605335E+08	-14.2	20
n-Octadecane	4.21621E+08	3.618876E+08	-14.2	20
n-Eicosane	4.193316E+08	3.585519E+08	-14.5	20
n-Docosane	4.237473E+08	3.612632E+08	-14.7	20
n-Tetracosane	4.178471E+08	3.558114E+08	-14.8	20
n-Hexacosane	4.22006E+08	3.585804E+08	-15.0	20
n-Octacosane	4.195247E+08	3.548802E+08	-15.4	20
n-Triacontane	4.199855E+08	3.53773E+08	-15.8	20
n-Hexatriacontane	4.055747E+08	3.555346E+08	-12.3	20

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S100040				
Calibration Check (S100040-CCV2)				
C9-C36 Aliphatic Hydrocarbons	6.850074E+09	3.968466E+08	-10.7	20
n-Nonadecane	4.195177E+08	3.560231E+08	-15.1	20
n-Nonane	4.076585E+08	3.970978E+08	-2.6	20
n-Decane	4.08862E+08	3.939506E+08	-3.6	20
n-Dodecane	4.117274E+08	3.725906E+08	-9.5	20
n-Tetradecane	4.155285E+08	3.691606E+08	-11.2	20
n-Hexadecane	4.203499E+08	3.641628E+08	-13.4	20
n-Octadecane	4.21621E+08	3.583106E+08	-15.0	20
n-Eicosane	4.193316E+08	3.53492E+08	-15.7	20
n-Docosane	4.237473E+08	3.541789E+08	-16.4	20
n-Tetracosane	4.178471E+08	3.477354E+08	-16.8	20
n-Hexacosane	4.22006E+08	3.51872E+08	-16.6	20
n-Octacosane	4.195247E+08	3.49881E+08	-16.6	20
n-Triacontane	4.199855E+08	3.509566E+08	-16.4	20
n-Hexatriacontane	4.055747E+08	3.50556E+08	-13.6	20

Semivolatile Organic Compounds by GC - Pesticide Breakdown Report

Analyte(s)	Column	% Breakdown	Limit
Batch S011552			
Performance Mix (S011552-PEM1)			
4,4'-DDT (p,p')	1	2.5	15.0
Endrin	1	7.7	15.0
4,4'-DDT (p,p')	2	7.2	15.0
Endrin	2	13.8	15.0

Notes and Definitions

GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
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/LCSD or SRM recoveries within the control limits.
R01	The Reporting Limit has been raised to account for matrix interference.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

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

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.

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

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

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: Diversified Technology Consultants

Project Location: NBHB - Contract 1 - New Britain, CT

Project Number: 09-188-02E

Sampling Date(s):
12/16/2010

Laboratory Sample ID(s):
SB22692-01 through SB22692-09

RCP Methods Used:

+CT ETPH
SW846 1311
SW846 1311/6010C
SW846 1312
SW846 1312/6010C
SW846 6010C
SW846 7471B
SW846 8081B
SW846 8082A
SW846 8260C
SW846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the 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)?	Yes	No
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
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 Yes	✓ No 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.

Nicole Leja

Nicole Leja
Laboratory Director
Date: 1/7/2011

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

* Reportable Detection Limit BRL = Below Reporting Limit

SB 22692 / Dy

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling: 5-day
☒ Standard TAT - ~~7 to 10 business days~~
☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Diversified Technology Consultants
2321 Whitney Ave
Hamden CT 06518
Telephone #: 203-239-4200
Project Mgr. Ethan Stewart

Invoice To: D.T.C
P.O. No.: _____ RQN: 6955

Project No.: 09-188-02F
Site Name: NBHB- Contract 1
Location: New Britain State: CT
Sampler(s): J. Andrew

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

List preservative code below: 7/9

QA/QC Reporting Notes:
* additional charges may apply

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

G=Grab C=Composite

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

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER V*
☐ Other _____
State-specific reporting standards:

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOCs 8260	ETPH	Chl. Pest 8081	PCBs 8082	PAHs 8270	As, Cd, Cr, Pb, Hg, Se
22692-01	B-1 0-2'	12-16	0825	G	So	3	1			*	*	*	*	*	*
02	B-1 4-5'	12-16	0835	G	So	3	1			*	*		*	*	*
03	B-2 0-1'	12-16	0850	G	So	3	1			*	*	*	*	*	*
04	B-2 4-6'	12-16	0855	G	So	3	1			*	*		*	*	*
05	B-2 8-10'	12-16	0900	G	So	3	1								
06	B-3 0-2'	12-16	0915	G	So	3	1			*	*	*	*	*	*
07	B-3 4-5.5'	12-16	0920	G	So	3	1			*	*		*	*	*
08	Duplicate-1	12-16		G	So	3	1			*	*		*	*	*
09	Trip Blank	12-16			X1	3				*					

Relinquished by:	Received by:	Date:	Time:	Temp °C
[signature]	[signature]	12-20-10	1210	1.7
[signature]	[signature]	12/20/10	1625	1.7

☐ EDD Format _____
☒ E-mail to ethan.stewart@teamdtc.com

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

SB 22692

SPECTRUM ANALYTICAL, INC.
Formerly
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling: 5-day
☒ Standard TAT - ~~7 to 10 business days~~
☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Diversified Technology Consultants
2321 Whitney Ave
Hamden CT 06518
Telephone #: 203-239-4200
Project Mgr. Eman Stewart

Invoice To: D.T.C.

P.O. No.: _____ RQN: 6955

Project No.: 09-188-02F
Site Name: NBHB- Contract 1
Location: New Britain State: CT
Sampler(s): J. Andrew

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

List preservative code below: 7/9

QA/QC Reporting Notes:
* additional charges may apply.

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

G=Grab C=Composite

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

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

State-specific reporting standards:

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		VOCs 8260	ETPH	Cal. Rest 8081	PCBs 8082	PAHs 8270	Total As, Cr, Pb				
22692	B-1 0-2'	12-16	0825	G	So	3	1				*	*	*	*	*	*				
	B-1 4-5'	12-16	0835	G	So	3	1				*	*		*	*	*				added per
	B-2 0-1'	12-16	0850	G	So	3	1				*	*	*	*	*	*	X	XXX		client email
	B-2 4-6'	12-16	0855	G	So	3	1				*	*		*	*	*			X	12/30/10 (JA)
	B-2 8-10'	12-16	0900	G	So	3	1					X			X					
	B-3 0-2'	12-16	0915	G	So	3	1				*	*	*	*	*	*				
	B-3 4-5.5'	12-16	0920	G	So	3	1				*	*		*	*	*				
	Duplicate-1	12-16		G	So	3	1				*	*		*	*	*				
	Trip Blank	12-16			X1	3					*									

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	12-20-10	1210	1.7
[signature]	[signature]	12/20/10	16:25	1.7

☐ EDD Format _____
☒ E-mail to eman.stewart@teamtc.com

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

APPENDIX C

Data Tables & Sample Locations from Maguire's May 31, 2006 Task 210 Report

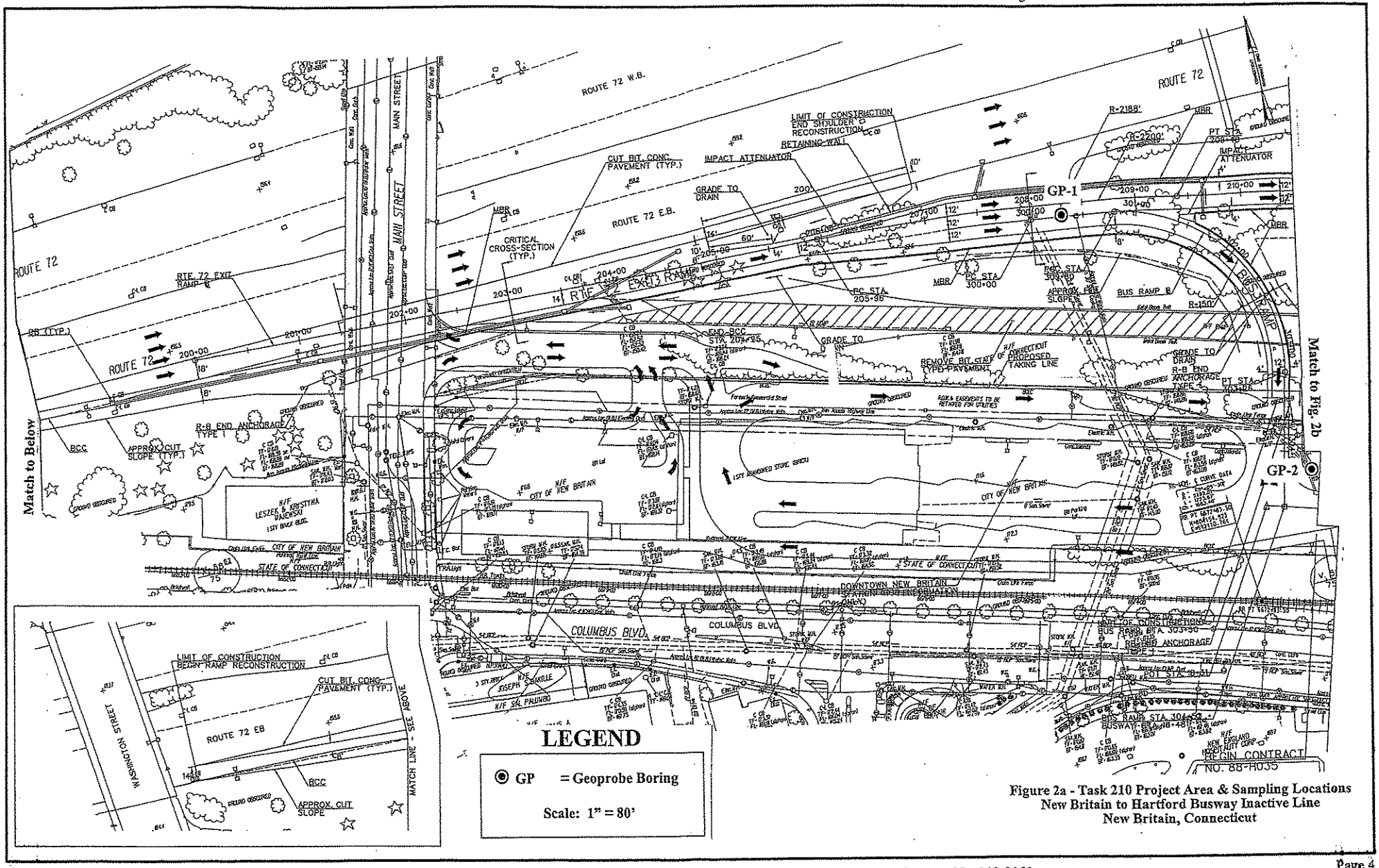


Figure 2a - Task 210 Project Area & Sampling Locations
New Britain to Hartford Busway Inactive Line
New Britain, Connecticut

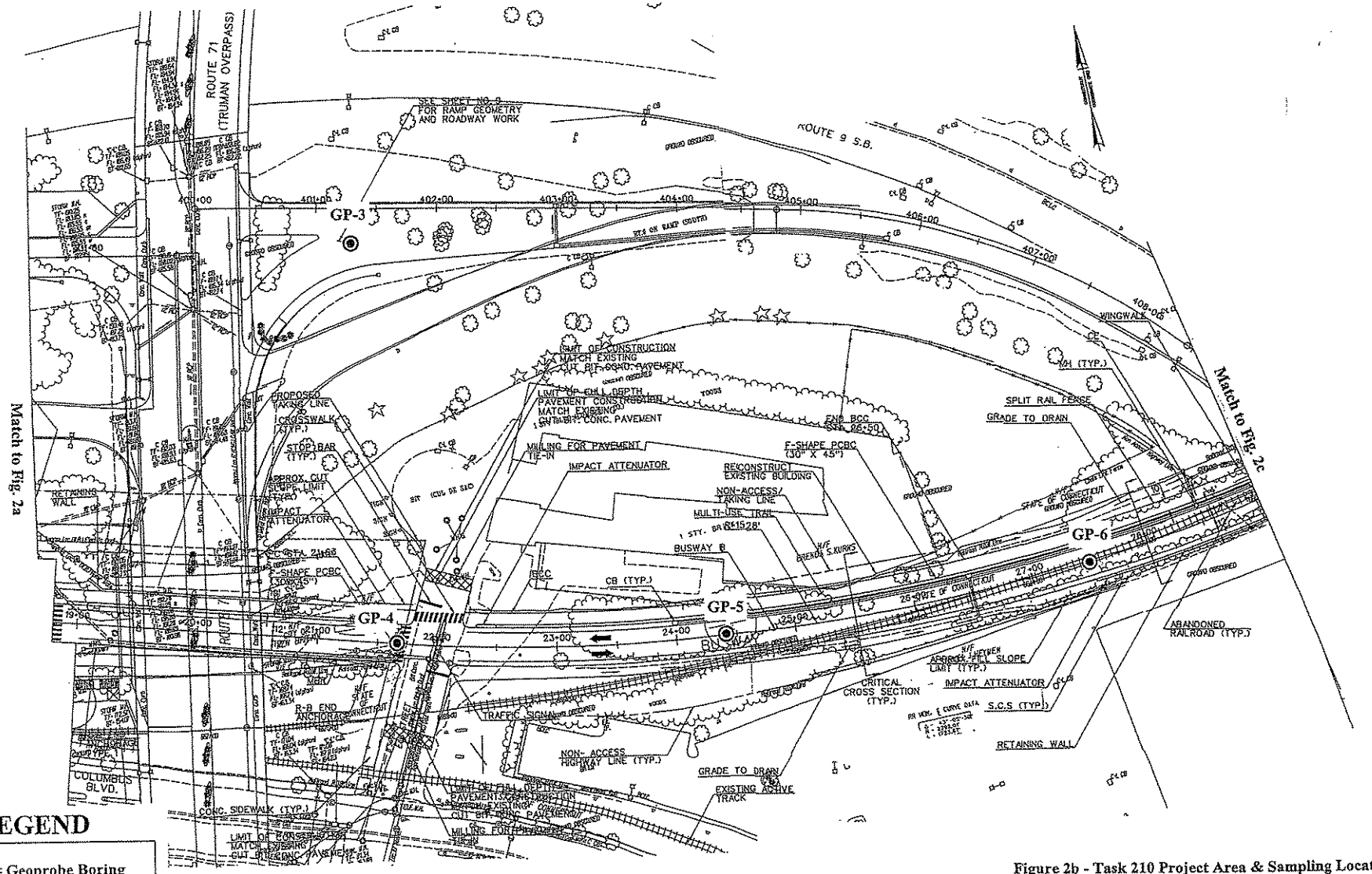


Figure 2b - Task 210 Project Area & Sampling Locations
New Britain to Hartford Busway Inactive Line
New Britain, Connecticut

TABLE 1(a) - Results of Geoprobe Boring Soil Sample Analyses
New Britain to Hartford Busway Inactive Line
New Britain, Connecticut

Boring I.D.: Sample Depth: (Groundwater Classification)	GP-1 0'-2' (GB)	GP-2 2'-4' (GB)	GP-3 2'-4' (GB)	GP-4 4'-8' (GB)	CTDEP PMC GB Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
CT ETPH - (ppm)	246	BRL	BRL	60.0	1,000 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)	BRL	BRL	BRL	BRL		
BNAs - Method 8270 (ppm)						
Acenaphthylene	0.889	BRL	BRL	BRL	84 ppm	1,000/2,500 ppm
Anthracene	0.831	BRL	BRL	0.331	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	***3.31***	BRL	BRL	***1.29***	**1 ppm**	1/7.8 ppm
Benzo(a)pyrene	***2.76***	BRL	BRL	***1.11***	**1 ppm**	**1/1 ppm**
Benzo(b)fluoranthene	***3.22***	BRL	BRL	***1.47***	**1 ppm**	1/7.8 ppm
Benzo(g,h,i)perylene	1.47	BRL	BRL	0.363	42 ppm	1,000/2,500 ppm
Benzo(k)fluoranthene	***1.26***	BRL	BRL	0.756	**1 ppm**	8.4/78 ppm
Chrysene	***2.69***	BRL	BRL	***1.11***	**1 ppm**	84/780 ppm
Dibenz(a,h)anthracene	0.561	BRL	BRL	BRL	1 ppm	1/1 ppm
Fluoranthene	5.06	BRL	BRL	2.05	56 ppm	1,000/2,500 ppm
Fluorene	0.198	BRL	BRL	BRL	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	***1.81***	BRL	BRL	0.398	**1 ppm**	1/7.8 ppm
Phenanthrene	1.52	BRL	BRL	0.878	40 ppm	1/7.8 ppm
Pyrene	3.25	BRL	BRL	2.19	40 ppm	1,000/2,500 ppm
Total BNAs	28.829	BRL	BRL	11.946		
Pesticides – Method 8081A (ppm)	BRL	BRL	BRL	BRL		
PCBs – Method 8082 (ppm)	BRL	BRL	BRL	BRL	Not Applicable	1/10 ppm
Herbicides – Method 8151 (ppb)	BRL	BRL	BRL	BRL		
Total RCRA 8 Metals – ppm					Not Applicable	
Arsenic	5.71	2.69	4.54	***14.4***		**10/10 ppm**
Barium	171	73.7	98.1	48.7		4,700/140,000 ppm
Cadmium	0.426	0.558	0.58	0.568		34/1,000 ppm
Chromium	21.8	14.7	19.6	12.5		100/100 ppm
Lead	67.7	12.1	38.8	90.9		500/1,000 ppm
Mercury	0.184	BRL	0.0746	0.185		20/610 ppm
Silver	1.96	BRL	1.44	1.9		340/10,000 ppm
SPLP RCRA 8 Metals - ppm						Not Applicable
Barium	0.0272	0.0234	0.161	0.015	10.0 ppm	
Chromium	BRL	BRL	0.0153	BRL	0.5 ppm	
Lead	BRL	BRL	0.0304	0.0278	0.15 ppm	

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(b) - Results of Geoprobe Boring Soil Sample Analyses
New Britain to Hartford Busway Inactive Line
New Britain, Connecticut

Boring I.D.: Sample Depth: (Groundwater Classification)	GP-5 2'-4' (GB)	GP-6 2'-4' (GB)	GP-7 0'-3' (GB)	GP-8 0'-3' (GB)	CTDEP PMC GB Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
CT ETPH - (ppm)	BRL	BRL	38.6	BRL	1,000 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)	BRL	BRL	BRL	BRL		
BNAs - Method 8270 (ppm)	BRL	BRL	BRL	BRL		
Pesticides – Method 8081A (ppm)	BRL	BRL	BRL	BRL		
PCBs – Method 8082 (ppm)	BRL	BRL	BRL	BRL	Not Applicable	1/10 ppm
Herbicides – Method 8151 (ppb)	BRL	BRL	BRL	BRL		
Total RCRA 8 Metals – ppm					Not Applicable	
Arsenic	4.58	6.32	5.07	4.87		10/10 ppm
Barium	77.5	89.9	128	123		4,700/140,000 ppm
Cadmium	0.413	0.465	BRL	BRL		34/1,000 ppm
Chromium	18.1	18.4	16.7	16.8		100/100 ppm
Lead	11.6	11.6	17.7	28.3		500/1,000 ppm
Silver	1.49	1.67	1.59	1.82		340/10,000 ppm
SPLP RCRA 8 Metals - ppm						Not Applicable
Barium	0.0094	0.0188	0.025	0.0299	10.0 ppm	

BRL – Below Reporting Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.