May 27, 2015

Mr. Albert M. Giannino
Director of Leasing
Pioneer Companies
333 West Washington Street, Suite 600
Syracuse, New York 13202

Re: Berm Sampling Report
Pioneer Midler Avenue

File: 1537.005.001

Dear Mr. Giannino:

Barton & Loguidice D.P.C (B&L) has prepared this Sampling Report to describe observations and analytical results from the sampling conducted at the above referenced site. The sampling was conducted in accordance to B&L's proposal dated April 28, 2015. Representative soil/fill samples were collected from the berms at the northwest corner of the Midler Avenue property.

Background

Additional development may occur at the northwest corner of the site where two grass-covered berms are present with a combined estimated volume of 2,600 cubic yards (approximately 3,600 tons). This area and surrounding site (now occupied by a Lowes and SEFCU) were formerly known as the Midler Avenue Brownfield Project. Interim Remedial Measures (IRMs) were conducted on the site prior to 2007 under the Brownfield Cleanup Program (NYSDEC Site #C734103).

A Site Management Plan (SMP) and Environmental Easement were prepared in 2007 to describe procedures required to manage residual contamination at the site. The SMP includes a site cover system to be maintained to avoid direct contact with pre-existing urban fill and native soils. The berms apparently contain urban fill covered with site cover system materials. The SMP states that one composite and one duplicate sample will be collected for 2,000 cubic yards of stockpiled soil (assuming the material does not exhibit visual evidence of contamination). Further waste characterization of the berms was necessary to determine disposal options pursuant to the SMP.

Sampling Methodology

Sample Collection and Handling Procedures

B&L retained the services of NYEG Drilling, LLC of Brewerton, New York to provide drilling services. Sample recovery was conducted using a MacroCore® barrel sampler equipped with single-use, disposable acetate sleeves. The barrel sampler was decontaminated prior to each boring with an Alconox solution and potable water rinse.

11 Centre Park • Suite 203 • Rochester, New York 14614
Telephone: 585-325-7190 • Facsimile: 585-325-4856 • www.BartonandLoguidice.com

B&L supervised the advancement of eight borings using direct-push drilling equipment on May 6, 2015. Four borings were advanced in the western berm (WB-1 to WB-4) and four borings were advanced in the eastern berm (EB-1 to EB-4). The boring locations are shown on the sketch in Attachment A. Boring target depths were approximately 6 to 8 feet to penetrate the soil/fill to the approximate ground surface of the surrounding area. Soil/fill encountered in each boring was logged by a B&L environmental scientist and was field screened using a calibrated photo-ionization detector (PID).

B&L composited aliquots of the samples collected on the western berm to achieve a 4-point composite sample and a duplicate sample from that berm. Similar sampling was conducted from the eastern berm. Soil samples for laboratory analyses were placed into laboratory supplied bottle-ware, packed in a cooler with ice, and submitted with chain of custody documentation.

Analytical Parameters and Laboratory

The composite samples were analyzed for parameters typically required by non-hazardous waste landfills. Specifically:

- Toxicity characterization leaching procedure (TCLP) volatile organic compounds (VOCs)
- TCLP semi-volatile organic compounds (SVOCs)
- TCLP metals
- Total polychlorinated biphenyls (PCBs)
- Flashpoint
- Corrosivity as pH
- Ignitability
- Paint filter test
- Reactivity

Total VOC and SVOC samples were also collected (two samples and two duplicate samples). All analyses were completed by Spectrum Analytical, Inc., an appropriately accredited laboratory (ELAP Accreditation No. 11393).

Sampling Findings and Analytical Results

Soil Field Observations

The berms are mainly composed of mixed urban soil consisting of brown reworked soil (e.g., silt, sand, gravel, and clay) with grey cinders. In locations where the fill unit is generally thinner, a fine to coarse-grained sand unit of limited thickness is present beneath the fill. Water saturated soils were not observed.

In general, visual and/or olfactory impacted soil was not encountered. Petroleum staining, oily sheens or petroleum/chemical odors were not noted in the borings. PID readings were at non-detect or below 1 part per million by volume (ppmv) in each boring with the exception of borings WB-1 and WB-3. The 0 to 4 feet bgs interval in WB-1 contained peak PID readings of 2.4 ppmv. PID readings in this boring

decreased with depth. The 0 to 4 feet bgs interval in WB-3 contained peak PID readings of 2.3 ppmv. PID readings in this boring also decreased with depth.

Soil Quality Results

Summary tables with the analytical results are provided in Attachment B. Laboratory analytical reports prepared by Spectrum Analytical, Inc. and are provided in Attachment C. Reported concentrations were compared to regulatory thresholds for determining hazardous waste for purposes of land disposal. TCLP VOCs, TCLP SVOCs and TCLP Metals concentrations did not exceed maximum contaminant concentrations (40 CFR 261). Corrosivity, ignitability, and reactivity were also below limits that would result in the material being classified as hazardous waste.

Total organic compound concentrations were compared to NYSDEC Commissioner's Policy 51 Soil Cleanup Guidance (CP-51) Soil Cleanup Levels. Individual SVOCs were detected in each of the four samples and several SVOC concentrations exceeded CP-51 Soil Cleanup Levels in two of the four samples. The sum of individual SVOC concentrations ranged from 4350 to 65,195 micrograms per kilogram (ug/kg) in the samples. PCBs were detected at concentrations ranging from 36.4 to 262 ug/kg below the CP-51 Soil Cleanup Levels of 1,000 ug/kg for surface soils and 10,000 ug/kg for subsurface soils. Individual VOCs were not detected in the samples collected with the exception of a trace concentration of xylene at 19.8 ug/kg in the West Berm sample. The CP-51 Soil Cleanup Level for total xylene is 260 ug/kg. The organic compound concentrations detected appear to be typical of urban fill/soils and not from a point-source petroleum release.

Berm Soil Disposal and Reuse Options

The observations and analytical data demonstrate that the soil within the east and west berm areas do not have characteristics that would cause the material to be classified as hazardous waste. The berm material contains concentrations of organic compounds that exceed CP-51 Soil Cleanup Levels, and therefore the material would not meet the criteria for clean fill. Based on this sampling and consistent with the SMP, berm material that cannot be reused on the property must be disposed of at a facility permitted to receive non-hazardous industrial solid waste in accordance with Local, State and Federal regulations.

The SMP Section 3.4.5 allows for site soil that is excavated to be used as backfill provided it contains no visual or olfactory evidence of contamination and it is placed beneath a cover system component. Therefore, onsite re-use is an option for this material. If onsite re-use is chosen, site development plans should incorporate the use of this material and selecting a suitable cover. Site cover components in the SMP include the following:

- Clean Type 1 or 2 crushed gravel, or combination of clean crushed gravel fill and topsoil. Minimum of 12 inches.
- Asphalt roadways, sidewalks, or parking lots. Minimum of 4 inches.
- Concrete slab-on-grade structures, roads, sidewalks, and parking lots in lieu of asphalt. Minimum of 6 inches.

Other Considerations

The Contractor or owner representative should prepare a Health and Safety Plan and a Community Air Monitoring Plan prior to excavation of the berm or subsurface materials. The property is part of a Brownfield Cleanup Program project where an Environmental Easement restricts land use and if the lot containing the berm is divided or land use classification changes, then amending the Environmental Easement with the NYSDEC will be necessary.

If you have any questions or require further information, please contact me at (585) 325-7190.

Very truly yours,

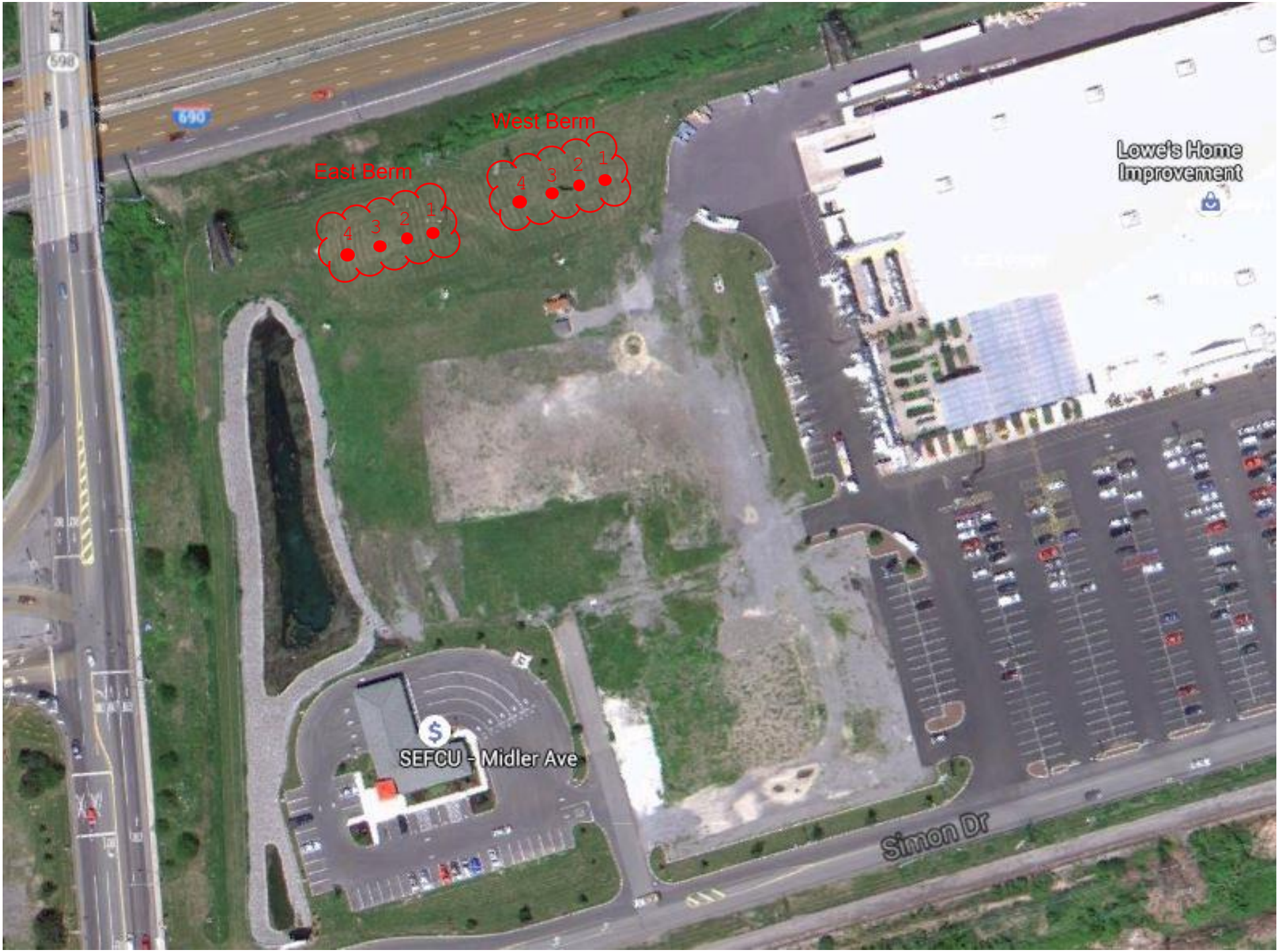
BARTON & LOGUIDICE, D.P.C.

Greg V. Lesniak, P.G.
Senior Project Hydrogeologist

GVL/akg
Attachments

Attachment A

Soil Boring Locations



● Soil Boring Locations
East Berm: EB-1 to EB-4
West Berm: WB-1 to WB-4

Attachment B

Results Summary Table

Summary Table - Berm Samples Hazardous Characteristics

Project:	Midler Avenue, Syracuse, New York					
Project Number:	1537.005.001					
Client Sample ID:		TCLP Maximum Contaminant	East Berm	East Berm - Duplicate	West Berm	West Berm- Duplicate
Lab Sample ID:		Concentrations	SCO7186-01	SCO7186-02	SCO7186-04	SCO7186-03
Date Sampled:		(40 CFR 261	5/6/2015	5/6/2015	5/6/2015	5/6/2015
Matrix:		6/96)	Soil	Soil	Soil	Soil
General Chemistry						
pH		-	8.24	8.21	7.8	7.76
Flashpoint	Deg. F	-	>200	>200	>200	>200
Ignitability		-	Negative	Negative	Negative	Negative
Solids, Percent	%	-	86	83.6	84.5	84.5
Free Liquids	N/A	-	Absent	Absent	Absent	Absent
Cyanide Reactivity	mg/kg	-	<24.7	<24.7	<24.8	<25
Sulfide Reactivity	mg/kg	-	<49.4	<49.4	<49.6	<50
TCLP VOCs (SW846 8260C)						
Benzene	mg/l	0.5	<0.0009	<0.0009	<0.0009	<0.0009
2-Butanone (MEK)	mg/l	200	<0.0062	<0.0062	<0.0062	<0.0062
Carbon tetrachloride	mg/l	0.5	<0.0011	<0.0011	<0.0011	<0.0011
Chlorobenzene	mg/l	100	<0.001	<0.001	<0.001	<0.001
Chloroform	mg/l	6	<0.002	0.0024	<0.002	0.0026
1,4-Dichlorobenzene	mg/l	7.5	<0.0012	<0.0012	<0.0012	<0.0012
1,2-Dichloroethane	mg/l	0.5	<0.0008	<0.0008	<0.0008	<0.0008
1,1-Dichloroethene	mg/l	0.7	<0.0014	<0.0014	<0.0014	<0.0014
Hexachlorobutadiene	mg/l	0.5	<0.002	<0.002	<0.002	<0.002
Tetrachloroethene	mg/l	0.7	0.0099	0.0108	<0.0029	<0.0029
Trichloroethene	mg/l	0.5	<0.0019	<0.0019	<0.0019	<0.0019
Vinyl chloride	mg/l	0.2	<0.0017	<0.0017	<0.0017	<0.0017
TCLP SVOCs (SW846 8270D)						
2-Methylphenol	mg/l	200	< 0.00214	< 0.00214	< 0.00214	< 0.00214
3&4-Methylphenol	mg/l	200	< 0.00222	< 0.00222	< 0.00222	< 0.00222
Pentachlorophenol	mg/l	100	< 0.00215	< 0.00215	< 0.00215	< 0.00215
2,4,5-Trichlorophenol	mg/l	400	< 0.00209	< 0.00209	< 0.00209	< 0.00209
2,4,6-Trichlorophenol	mg/l	2	< 0.00196	< 0.00196	< 0.00196	< 0.00196
1,4-Dichlorobenzene	mg/l	7.5	< 0.00202	< 0.00202	< 0.00202	< 0.00202
2,4-Dinitrotoluene	mg/l	0.13	< 0.00238	< 0.00238	< 0.00238	< 0.00238
Hexachlorobenzene	mg/l	0.13	< 0.00215	< 0.00215	< 0.00215	< 0.00215
Hexachlorobutadiene	mg/l	0.5	< 0.00203	< 0.00203	< 0.00203	< 0.00203
Hexachloroethane	mg/l	3	< 0.00215	< 0.00215	< 0.00215	< 0.00215
Nitrobenzene	mg/l	2	< 0.00212	< 0.00212	< 0.00212	< 0.00212
Pyridine	mg/l	5	< 0.00162	< 0.00162	< 0.00162	< 0.00162
TCLP Metals Analysis						
Arsenic	mg/l	5	< 0.0026	0.0028	0.0049	0.0054
Barium	mg/l	100	0.374	0.418	0.416	0.41
Cadmium	mg/l	1	0.0005	0.0007	0.0012	0.0012
Chromium	mg/l	5	0.0028	0.004	0.0036	0.0044
Lead	mg/l	5	< 0.0018	0.0057	0.0214	0.0136
Mercury	mg/l	0.2	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Selenium	mg/l	1	< 0.0043	0.0057	0.0044	0.0072
Silver	mg/l	5	< 0.0014	< 0.0014	< 0.0014	< 0.0014

Notes:

Refer to Laboratory Analytical Reports for full list of compounds analyzed, qualifiers and analytical notes.

Summary Table - Berm Samples - Organic Compounds

Project:	Midler Avenue, Syracuse, New York					
Project Number:	1537.005.001					
Client Sample ID:		CP-51 Soil Cleanup Levels	East Berm	East Berm - Duplicate	West Berm	West Berm- Duplicate
Lab Sample ID:			SC07188-01	SC07188-02	SC07188-03	SC07188-04
Date Sampled:			5/6/2015	5/6/2015	5/6/2015	5/6/2015
Matrix:			Soil	Soil	Soil	Soil
NYSDEC STARS List Petroleum Constituents VOCs (SW846 8260C)						
Benzene	ug/kg	60	< 1.4	< 1.5	< 12.0	< 1.0
n-Butylbenzene	ug/kg	12000	< 2.1	< 2.3	< 18.9	< 1.6
sec-Butylbenzene	ug/kg	11000	< 5.8	< 6.3	< 51.7	< 4.4
tert-Butylbenzene	ug/kg	5900	< 4.9	< 5.3	< 43.4	< 3.7
Ethylbenzene	ug/kg	1000	< 1.3	< 1.4	< 11.6	< 1.0
Isopropylbenzene	ug/kg	100000	< 1.4	< 1.5	< 12.6	< 1.1
4-Isopropyltoluene	ug/kg	NS	< 7.0	< 7.6	< 62.0	< 5.3
Methyl tert-butyl ether	ug/kg	930	< 2.9	< 3.1	< 25.5	< 2.2
Naphthalene	ug/kg	12000	< 6.8	< 7.4	< 60.6	< 5.1
n-Propylbenzene	ug/kg	3900	< 7.2	< 7.8	< 64.0	< 5.4
Toluene	ug/kg	700	< 1.7	< 1.9	< 15.2	< 1.3
1,2,4-Trimethylbenzene	ug/kg	3600	< 1.9	< 2.0	< 16.6	< 1.4
1,3,5-Trimethylbenzene	ug/kg	8400	< 2.1	< 2.3	< 19.0	< 1.6
m,p-Xylene	ug/kg	260	< 1.5	< 1.6	19.8	< 1.1
o-Xylene	ug/kg	260	< 1.6	< 1.7	< 14.1	< 1.2
NYSDEC STARS List Petroleum Constituents SVOCs (SW846 8270D)						
Acenaphthene	ug/kg	2000	< 99.3	< 100	1300	390
Acenaphthylene	ug/kg	100000	< 90.3	< 91.2	213	185
Anthracene	ug/kg	100000	151	120	2720	851
Benzo (a) anthracene	ug/kg	1000	613	410	5450	3280
Benzo (a) pyrene	ug/kg	1000	598	395	4170	2850
Benzo (b) fluoranthene	ug/kg	1000	764	537	6010	4220
Benzo (g,h,i) perylene	ug/kg	100000	311	219	2170	1640
Benzo (k) fluoranthene	ug/kg	800	292	163	1750	1200
Chrysene	ug/kg	1000	517	376	4280	2980
Dibenzo (a,h) anthracene	ug/kg	330	< 78.2	< 78.9	605	411
Fluoranthene	ug/kg	100000	1070	743	13100	7150
Fluorene	ug/kg	30000	< 102	< 103	1590	322
Indeno (1,2,3-cd) pyrene	ug/kg	500	387	253	2680	1890
1-Methylnaphthalene	ug/kg	NS	< 108	< 109	492	< 101
2-Methylnaphthalene	ug/kg	410	< 87.8	< 88.7	525	103
Naphthalene	ug/kg	12000	< 86.7	< 87.6	510	179
Phenanthrene	ug/kg	10000	474	479	9950	4140
Pyrene	ug/kg	10000	898	655	7680	6190
Total SVOCs	ug/kg	500000	6075	4350	65195	37981
PCBs (SW846 8082)						
Aroclor-1016	ug/kg	1,000	< 20.9	< 20.9	< 20.6	< 20.1
Aroclor-1221	ug/kg	1,000	< 17.8	< 17.8	< 17.5	< 17.1
Aroclor-1232	ug/kg	1,000	< 20.8	< 20.8	< 20.5	< 20.0
Aroclor-1242	ug/kg	1,000	< 14.4	< 14.4	< 14.2	< 13.8
Aroclor-1248	ug/kg	1,000	< 14.5	< 14.5	< 14.3	< 14.0
Aroclor-1254	ug/kg	1,000	< 16.0	< 16.0	< 15.7	< 15.4
Aroclor-1260	ug/kg	1,000	208	262	50	36.4
Aroclor-1262	ug/kg	1,000	< 20.8	< 20.8	< 20.4	< 20.0
Aroclor-1268	ug/kg	1,000	< 22.8	< 22.8	< 22.4	< 21.9

Notes:
Refer to Laboratory Analytical Reports for full list of compounds analyzed, qualifiers and analytical notes.
CP-51 Soil Cleanup Levels - NYSDEC Commissioners Policy Soil Cleanup Guidance
PCB CP-51 Soil Cleanup Level is 1,000 ug/kg for surface soils and 10,000 ug/kg for subsurface soils.
Shaded results exceed CP-51 Soil Cleanup Levels
NS - no individual soil cleanup level

Attachment C

Laboratory Analytical Report

Report Date:
18-May-15 11:40

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Barton & Loguidice, D.P.C.
11 Centre Park Suite 203
Rochester, NY 14614
Attn: Greg Lesniak

Project: Pioneer Midler Ave - Syracuse, NY
Project #: 1537.005.001

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC07188-01	East Berm	Soil	06-May-15 08:51	06-May-15 11:30
SC07188-02	East Berm - Dupe	Soil	06-May-15 08:51	06-May-15 11:30
SC07188-03	West Berm	Soil	06-May-15 09:45	06-May-15 11:30
SC07188-04	West Berm - Dupe	Soil	06-May-15 09:45	06-May-15 11:30

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 # E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00098
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 19 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, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

Data has been reported to the MDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 12.5 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

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

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

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

All volatile soil/product/solid samples should be collected in accordance method SW846 5035/5035A. Any sample with a result below 200ug/Kg that has not been collected in accordance with method 5035/5035A must be evaluated as potentially biased low.

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

SW846 8260C

Calibration:

1504013

Analyte quantified by quadratic equation type calibration.

Naphthalene

This affected the following samples:

S502844-ICV1

1504015

Analyte quantified by quadratic equation type calibration.

Naphthalene

This affected the following samples:

1509227-BLK1
1509227-BS1
1509227-BSD1
East Berm
East Berm - Dupe
S503006-ICV1
S504458-CCV1
West Berm - Dupe

Samples:

SC07188-03 *West Berm*

Elevated Reporting Limits due to the presence of high levels of non-target analytes; sample may not meet client requested reporting limit for this reason.

SW846 8270D

Samples:

SC07188-01 *East Berm*

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

SC07188-02 *East Berm - Dupe*

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

SC07188-03 *West Berm*

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

SC07188-04 *West Berm - Dupe*

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

Sample Acceptance Check Form

Client:	Barton & Loguidice, D.P.C. - Rochester, NY
Project:	Pioneer Midler Ave - Syracuse, NY / 1537.005.001
Work Order:	SC07188
Sample(s) received on:	5/6/2015

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☐	☑	☐
Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
East Berm SC07188-01	1537.005.001	Soil	06-May-15 08:51	06-May-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	**Lab extracted**		N/A			1	VOC Soil Extraction	08-May-15	08-May-15	DT	1509058	
Volatile Organic Full Aromatics by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5.32 g							
71-43-2	Benzene	< 1.4	UJL	µg/kg dry	7.5	1.4	1	SW846 8260C	12-May-15	12-May-15	SJB	1509227	X
104-51-8	n-Butylbenzene	< 2.1	UJL	µg/kg dry	7.5	2.1	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.8	UJL	µg/kg dry	7.5	5.8	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.9	UJL	µg/kg dry	7.5	4.9	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.3	UJL	µg/kg dry	7.5	1.3	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.4	UJL	µg/kg dry	7.5	1.4	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 7.0	UJL	µg/kg dry	7.5	7.0	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 2.9	UJL	µg/kg dry	7.5	2.9	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 6.8	UJL	µg/kg dry	7.5	6.8	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 7.2	UJL	µg/kg dry	7.5	7.2	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.7	UJL	µg/kg dry	7.5	1.7	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.9	UJL	µg/kg dry	7.5	1.9	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 2.1	UJL	µg/kg dry	7.5	2.1	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 1.5	UJL	µg/kg dry	14.9	1.5	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.6	UJL	µg/kg dry	7.5	1.6	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*94*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*105*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*113*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*121*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			R01										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 99.3	U, D	µg/kg dry	426	99.3	5	SW846 8270D	11-May-15	15-May-15	MSL	1509090	X
208-96-8	Acenaphthylene	< 90.3	U, D	µg/kg dry	426	90.3	5	"	"	"	"	"	X
120-12-7	Anthracene	**151**	J, D	µg/kg dry	426	97.4	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**613**	D	µg/kg dry	426	88.2	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**598**	D	µg/kg dry	426	88.7	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**764**	D	µg/kg dry	426	97.0	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**311**	J, D	µg/kg dry	426	92.2	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**292**	J, D	µg/kg dry	426	97.0	5	"	"	"	"	"	X
218-01-9	Chrysene	**517**	D	µg/kg dry	426	104	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 78.2	U, D	µg/kg dry	426	78.2	5	"	"	"	"	"	X
206-44-0	Fluoranthene	**1,070**	D	µg/kg dry	426	107	5	"	"	"	"	"	X
86-73-7	Fluorene	< 102	U, D	µg/kg dry	426	102	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**387**	J, D	µg/kg dry	426	87.1	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 108	U, D	µg/kg dry	426	108	5	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 87.8	U, D	µg/kg dry	426	87.8	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 86.7	U, D	µg/kg dry	426	86.7	5	"	"	"	"	"	X
85-01-8	Phenanthrene	**474**	D	µg/kg dry	426	104	5	"	"	"	"	"	X
129-00-0	Pyrene	**898**	D	µg/kg dry	426	90.7	5	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
East Berm SC07188-01	1537.005.001	Soil	06-May-15 08:51	06-May-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270 Prepared by method SW846 3545A			R01										
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*69*			*30-130 %*			SW846 8270D	11-May-15	15-May-15	MSL	1509090	
1718-51-0	*Terphenyl-dl4*	*66*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*75*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**77.9**		%			1	SM2540 G Mod.	11-May-15	11-May-15	DT	1509145	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
East Berm - Dupe SC07188-02	1537.005.001	Soil	06-May-15 08:51	06-May-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	**Lab extracted**		N/A			1	VOC Soil Extraction	08-May-15	08-May-15	DT	1509058	
Volatile Organic Full Aromatics by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 4.99 g							
71-43-2	Benzene	< 1.5	UJL	µg/kg dry	8.1	1.5	1	SW846 8260C	12-May-15	12-May-15	SJB	1509227	X
104-51-8	n-Butylbenzene	< 2.3	UJL	µg/kg dry	8.1	2.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 6.3	UJL	µg/kg dry	8.1	6.3	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.3	UJL	µg/kg dry	8.1	5.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.4	UJL	µg/kg dry	8.1	1.4	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.5	UJL	µg/kg dry	8.1	1.5	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 7.6	UJL	µg/kg dry	8.1	7.6	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.1	UJL	µg/kg dry	8.1	3.1	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 7.4	UJL	µg/kg dry	8.1	7.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 7.8	UJL	µg/kg dry	8.1	7.8	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.9	UJL	µg/kg dry	8.1	1.9	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 2.0	UJL	µg/kg dry	8.1	2.0	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 2.3	UJL	µg/kg dry	8.1	2.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 1.6	UJL	µg/kg dry	16.1	1.6	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.7	UJL	µg/kg dry	8.1	1.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*93*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*107*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*113*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*115*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			R01										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 100	U, D	µg/kg dry	430	100	5	SW846 8270D	11-May-15	15-May-15	MSL	1509090	X
208-96-8	Acenaphthylene	< 91.2	U, D	µg/kg dry	430	91.2	5	"	"	"	"	"	X
120-12-7	Anthracene	**120**	J, D	µg/kg dry	430	98.3	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**410**	J, D	µg/kg dry	430	89.0	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**395**	J, D	µg/kg dry	430	89.6	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**537**	D	µg/kg dry	430	97.9	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**219**	J, D	µg/kg dry	430	93.1	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**163**	J, D	µg/kg dry	430	97.9	5	"	"	"	"	"	X
218-01-9	Chrysene	**376**	J, D	µg/kg dry	430	105	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 78.9	U, D	µg/kg dry	430	78.9	5	"	"	"	"	"	X
206-44-0	Fluoranthene	**743**	D	µg/kg dry	430	108	5	"	"	"	"	"	X
86-73-7	Fluorene	< 103	U, D	µg/kg dry	430	103	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**253**	D, J	µg/kg dry	430	87.9	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 109	U, D	µg/kg dry	430	109	5	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 88.7	U, D	µg/kg dry	430	88.7	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 87.6	U, D	µg/kg dry	430	87.6	5	"	"	"	"	"	X
85-01-8	Phenanthrene	**479**	D	µg/kg dry	430	105	5	"	"	"	"	"	X
129-00-0	Pyrene	**655**	D	µg/kg dry	430	91.6	5	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
East Berm - Dupe SC07188-02	1537.005.001	Soil	06-May-15 08:51	06-May-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270 Prepared by method SW846 3545A			R01										
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*58*			*30-130 %*			SW846 8270D	11-May-15	15-May-15	MSL	1509090	
1718-51-0	*Terphenyl-dl4*	*56*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*66*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**76.6**		%			1	SM2540 G Mod.	11-May-15	11-May-15	DT	1509145	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
West Berm SC07188-03	1537.005.001	Soil	06-May-15 09:45	06-May-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	**Lab extracted**		N/A			1	VOC Soil Extraction	08-May-15	08-May-15	DT	1509058	
Volatile Organic Full Aromatics by SW846 8260			R05										
Prepared by method SW846 5035A Soil (high level)							Initial weight: 14.78 g						
71-43-2	Benzene	< 12.0	UJL, D	µg/kg dry	66.1	12.0	50	SW846 8260C	13-May-15	13-May-15	SJB	1509327	X
104-51-8	n-Butylbenzene	< 18.9	UJL, D	µg/kg dry	66.1	18.9	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 51.7	UJL, D	µg/kg dry	66.1	51.7	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 43.4	UJL, D	µg/kg dry	66.1	43.4	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 11.6	UJL, D	µg/kg dry	66.1	11.6	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 12.6	UJL, D	µg/kg dry	66.1	12.6	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 62.0	UJL, D	µg/kg dry	66.1	62.0	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 25.5	UJL, D	µg/kg dry	66.1	25.5	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 60.6	UJL, D	µg/kg dry	66.1	60.6	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 64.0	UJL, D	µg/kg dry	66.1	64.0	50	"	"	"	"	"	X
108-88-3	Toluene	< 15.2	UJL, D	µg/kg dry	66.1	15.2	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 16.6	UJL, D	µg/kg dry	66.1	16.6	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 19.0	UJL, D	µg/kg dry	66.1	19.0	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**19.8**	JL, D	µg/kg dry	132	13.0	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 14.1	UJL, D	µg/kg dry	66.1	14.1	50	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*102*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*89*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*95*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			R01										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	**1,300**	D	µg/kg dry	383	89.4	5	SW846 8270D	11-May-15	15-May-15	MSL	1509090	X
208-96-8	Acenaphthylene	**213**	D, J	µg/kg dry	383	81.3	5	"	"	"	"	"	X
120-12-7	Anthracene	**2,720**	D	µg/kg dry	383	87.7	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**5,450**	D	µg/kg dry	383	79.4	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**4,170**	D	µg/kg dry	383	79.9	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**6,010**	D	µg/kg dry	383	87.4	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**2,170**	D	µg/kg dry	383	83.1	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**1,750**	D	µg/kg dry	383	87.4	5	"	"	"	"	"	X
218-01-9	Chrysene	**4,280**	D	µg/kg dry	383	93.7	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	**605**	D	µg/kg dry	383	70.4	5	"	"	"	"	"	X
206-44-0	Fluoranthene	**13,100**	D	µg/kg dry	383	96.3	5	"	"	"	"	"	X
86-73-7	Fluorene	**1,590**	D	µg/kg dry	383	91.9	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**2,680**	D	µg/kg dry	383	78.4	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	**492**	D	µg/kg dry	383	97.0	5	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	**525**	D	µg/kg dry	383	79.1	5	"	"	"	"	"	X
91-20-3	Naphthalene	**510**	D	µg/kg dry	383	78.1	5	"	"	"	"	"	X
85-01-8	Phenanthrene	**9,950**	D	µg/kg dry	383	93.6	5	"	"	"	"	"	X
129-00-0	Pyrene	**7,680**	D	µg/kg dry	383	81.7	5	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
West Berm SC07188-03	1537.005.001	Soil	06-May-15 09:45	06-May-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270 Prepared by method SW846 3545A			R01										
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*56*			*30-130 %*			SW846 8270D	11-May-15	15-May-15	MSL	1509090	
1718-51-0	*Terphenyl-dl4*	*57*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*59*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**86.8**		%			1	SM2540 G Mod.	11-May-15	11-May-15	DT	1509145	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
West Berm - Dupe SC07188-04	1537.005.001	Soil	06-May-15 09:45	06-May-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	**Lab extracted**		N/A			1	VOC Soil Extraction	08-May-15	08-May-15	DT	1509058	
Volatile Organic Full Aromatics by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 6.48 g							
71-43-2	Benzene	< 1.0	UJL	µg/kg dry	5.6	1.0	1	SW846 8260C	12-May-15	12-May-15	SJB	1509227	X
104-51-8	n-Butylbenzene	< 1.6	UJL	µg/kg dry	5.6	1.6	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.4	UJL	µg/kg dry	5.6	4.4	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 3.7	UJL	µg/kg dry	5.6	3.7	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0	UJL	µg/kg dry	5.6	1.0	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.1	UJL	µg/kg dry	5.6	1.1	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.3	UJL	µg/kg dry	5.6	5.3	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 2.2	UJL	µg/kg dry	5.6	2.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.1	UJL	µg/kg dry	5.6	5.1	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.4	UJL	µg/kg dry	5.6	5.4	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.3	UJL	µg/kg dry	5.6	1.3	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.4	UJL	µg/kg dry	5.6	1.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.6	UJL	µg/kg dry	5.6	1.6	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 1.1	UJL	µg/kg dry	11.2	1.1	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.2	UJL	µg/kg dry	5.6	1.2	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*93*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*105*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*118*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*127*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			R01										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	**390**	D, J	µg/kg dry	398	92.7	5	SW846 8270D	11-May-15	15-May-15	MSL	1509090	X
208-96-8	Acenaphthylene	**185**	J, D	µg/kg dry	398	84.4	5	"	"	"	"	"	X
120-12-7	Anthracene	**851**	D	µg/kg dry	398	91.0	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**3,280**	D	µg/kg dry	398	82.3	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**2,850**	D	µg/kg dry	398	82.9	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**4,220**	D	µg/kg dry	398	90.6	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**1,640**	D	µg/kg dry	398	86.2	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**1,200**	D	µg/kg dry	398	90.6	5	"	"	"	"	"	X
218-01-9	Chrysene	**2,980**	D	µg/kg dry	398	97.2	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	**411**	D	µg/kg dry	398	73.0	5	"	"	"	"	"	X
206-44-0	Fluoranthene	**7,150**	D	µg/kg dry	398	99.9	5	"	"	"	"	"	X
86-73-7	Fluorene	**322**	J, D	µg/kg dry	398	95.3	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**1,890**	D	µg/kg dry	398	81.3	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 101	U, D	µg/kg dry	398	101	5	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	**103**	D, J	µg/kg dry	398	82.0	5	"	"	"	"	"	X
91-20-3	Naphthalene	**179**	J, D	µg/kg dry	398	81.0	5	"	"	"	"	"	X
85-01-8	Phenanthrene	**4,140**	D	µg/kg dry	398	97.1	5	"	"	"	"	"	X
129-00-0	Pyrene	**6,190**	D	µg/kg dry	398	84.7	5	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
West Berm - Dupe SC07188-04	1537.005.001	Soil	06-May-15 09:45	06-May-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270 Prepared by method SW846 3545A			R01										
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*72*			*30-130 %*			SW846 8270D	11-May-15	15-May-15	MSL	1509090	
1718-51-0	*Terphenyl-dl4*	*73*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*76*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**83.4**		%			1	SM2540 G Mod.	11-May-15	11-May-15	DT	1509145	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1509227 - SW846 5035A Soil (low level)										
Blank (1509227-BLK1)					Prepared & Analyzed: 12-May-15					
Benzene	< 0.9		µg/kg wet	0.9						
n-Butylbenzene	< 1.4		µg/kg wet	1.4						
sec-Butylbenzene	< 3.9		µg/kg wet	3.9						
tert-Butylbenzene	< 3.3		µg/kg wet	3.3						
Ethylbenzene	< 0.9		µg/kg wet	0.9						
Isopropylbenzene	< 1.0		µg/kg wet	1.0						
4-Isopropyltoluene	< 4.7		µg/kg wet	4.7						
Methyl tert-butyl ether	< 1.9		µg/kg wet	1.9						
Naphthalene	< 4.6		µg/kg wet	4.6						
n-Propylbenzene	< 4.8		µg/kg wet	4.8						
Toluene	< 1.2		µg/kg wet	1.2						
1,2,4-Trimethylbenzene	< 1.3		µg/kg wet	1.3						
1,3,5-Trimethylbenzene	< 1.4		µg/kg wet	1.4						
m,p-Xylene	< 1.0		µg/kg wet	1.0						
o-Xylene	< 1.1		µg/kg wet	1.1						
Surrogate: 4-Bromofluorobenzene	*47.8*		µg/kg wet		*50.0*		*96*	*70-130*		
Surrogate: Toluene-d8	*54.2*		µg/kg wet		*50.0*		*108*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*54.5*		µg/kg wet		*50.0*		*109*	*70-130*		
Surrogate: Dibromofluoromethane	*58.0*		µg/kg wet		*50.0*		*116*	*70-130*		
LCS (1509227-BS1)					Prepared & Analyzed: 12-May-15					
Benzene	**21.3**		µg/kg wet		20.0		107	70-130		
n-Butylbenzene	**16.2**		µg/kg wet		20.0		81	70-130		
sec-Butylbenzene	**20.2**		µg/kg wet		20.0		101	70-130		
tert-Butylbenzene	**20.2**		µg/kg wet		20.0		101	70-130		
Ethylbenzene	**19.6**		µg/kg wet		20.0		98	70-130		
Isopropylbenzene	**19.9**		µg/kg wet		20.0		99	70-130		
4-Isopropyltoluene	**18.4**		µg/kg wet		20.0		92	70-130		
Methyl tert-butyl ether	**23.3**		µg/kg wet		20.0		116	70-130		
Naphthalene	**17.5**		µg/kg wet		20.0		87	70-130		
n-Propylbenzene	**20.2**		µg/kg wet		20.0		101	70-130		
Toluene	**21.6**		µg/kg wet		20.0		108	70-130		
1,2,4-Trimethylbenzene	**23.5**		µg/kg wet		20.0		118	70-130		
1,3,5-Trimethylbenzene	**21.6**		µg/kg wet		20.0		108	70-130		
m,p-Xylene	**19.8**		µg/kg wet		20.0		99	70-130		
o-Xylene	**20.7**		µg/kg wet		20.0		104	70-130		
Surrogate: 4-Bromofluorobenzene	*53.5*		µg/kg wet		*50.0*		*107*	*70-130*		
Surrogate: Toluene-d8	*52.7*		µg/kg wet		*50.0*		*105*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*45.4*		µg/kg wet		*50.0*		*91*	*70-130*		
Surrogate: Dibromofluoromethane	*53.6*		µg/kg wet		*50.0*		*107*	*70-130*		
LCS Dup (1509227-BSD1)					Prepared & Analyzed: 12-May-15					
Benzene	**21.8**		µg/kg wet		20.0		109	70-130	2	30
n-Butylbenzene	**15.9**		µg/kg wet		20.0		79	70-130	2	30
sec-Butylbenzene	**20.5**		µg/kg wet		20.0		102	70-130	1	30
tert-Butylbenzene	**20.2**		µg/kg wet		20.0		101	70-130	0.3	30
Ethylbenzene	**19.9**		µg/kg wet		20.0		100	70-130	2	30
Isopropylbenzene	**20.2**		µg/kg wet		20.0		101	70-130	2	30
4-Isopropyltoluene	**17.7**		µg/kg wet		20.0		89	70-130	4	30
Methyl tert-butyl ether	**24.1**		µg/kg wet		20.0		121	70-130	4	30
Naphthalene	**18.0**		µg/kg wet		20.0		90	70-130	3	30
n-Propylbenzene	**20.2**		µg/kg wet		20.0		101	70-130	0.05	30
Toluene	**22.1**		µg/kg wet		20.0		110	70-130	2	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1509227 - SW846 5035A Soil (low level)										
LCS Dup (1509227-BSD1)					Prepared & Analyzed: 12-May-15					
1,2,4-Trimethylbenzene	**22.2**		µg/kg wet		20.0		111	70-130	6	30
1,3,5-Trimethylbenzene	**20.8**		µg/kg wet		20.0		104	70-130	4	30
m,p-Xylene	**20.3**		µg/kg wet		20.0		101	70-130	2	30
o-Xylene	**20.9**		µg/kg wet		20.0		104	70-130	0.7	30
Surrogate: 4-Bromofluorobenzene	*54.5*		µg/kg wet		*50.0*		*109*	*70-130*		
Surrogate: Toluene-d8	*53.3*		µg/kg wet		*50.0*		*107*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*45.8*		µg/kg wet		*50.0*		*92*	*70-130*		
Surrogate: Dibromofluoromethane	*54.2*		µg/kg wet		*50.0*		*108*	*70-130*		
Batch 1509327 - SW846 5035A Soil (high level)										
Blank (1509327-BLK1)					Prepared & Analyzed: 13-May-15					
Benzene	< 9.1	D	µg/kg wet	9.1						
n-Butylbenzene	< 14.3	D	µg/kg wet	14.3						
sec-Butylbenzene	< 39.1	D	µg/kg wet	39.1						
tert-Butylbenzene	< 32.8	D	µg/kg wet	32.8						
Ethylbenzene	< 8.8	D	µg/kg wet	8.8						
Isopropylbenzene	< 9.5	D	µg/kg wet	9.5						
4-Isopropyltoluene	< 46.9	D	µg/kg wet	46.9						
Methyl tert-butyl ether	< 19.3	D	µg/kg wet	19.3						
Naphthalene	< 45.8	D	µg/kg wet	45.8						
n-Propylbenzene	< 48.4	D	µg/kg wet	48.4						
Toluene	< 11.5	D	µg/kg wet	11.5						
1,2,4-Trimethylbenzene	< 12.6	D	µg/kg wet	12.6						
1,3,5-Trimethylbenzene	< 14.4	D	µg/kg wet	14.4						
m,p-Xylene	< 9.8	D	µg/kg wet	9.8						
o-Xylene	< 10.6	D	µg/kg wet	10.6						
Surrogate: 4-Bromofluorobenzene	*30.4*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*30.1*		µg/kg wet		*30.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*27.3*		µg/kg wet		*30.0*		*91*	*70-130*		
Surrogate: Dibromofluoromethane	*29.1*		µg/kg wet		*30.0*		*97*	*70-130*		
LCS (1509327-BS1)					Prepared & Analyzed: 13-May-15					
Benzene	**18.7**	D	µg/kg wet		20.0		93	70-130		
n-Butylbenzene	**18.4**	D	µg/kg wet		20.0		92	70-130		
sec-Butylbenzene	**21.8**	D	µg/kg wet		20.0		109	70-130		
tert-Butylbenzene	**22.1**	D	µg/kg wet		20.0		110	70-130		
Ethylbenzene	**20.1**	D	µg/kg wet		20.0		100	70-130		
Isopropylbenzene	**21.0**	D	µg/kg wet		20.0		105	70-130		
4-Isopropyltoluene	**19.3**	D	µg/kg wet		20.0		96	70-130		
Methyl tert-butyl ether	**17.0**	D	µg/kg wet		20.0		85	70-130		
Naphthalene	**20.2**	D	µg/kg wet		20.0		101	70-130		
n-Propylbenzene	**20.5**	D	µg/kg wet		20.0		102	70-130		
Toluene	**19.4**	D	µg/kg wet		20.0		97	70-130		
1,2,4-Trimethylbenzene	**20.7**	D	µg/kg wet		20.0		103	70-130		
1,3,5-Trimethylbenzene	**20.8**	D	µg/kg wet		20.0		104	70-130		
m,p-Xylene	**20.9**	D	µg/kg wet		20.0		105	70-130		
o-Xylene	**20.8**	D	µg/kg wet		20.0		104	70-130		
Surrogate: 4-Bromofluorobenzene	*30.9*		µg/kg wet		*30.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*30.0*		µg/kg wet		*30.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*27.2*		µg/kg wet		*30.0*		*91*	*70-130*		
Surrogate: Dibromofluoromethane	*30.1*		µg/kg wet		*30.0*		*100*	*70-130*		
LCS Dup (1509327-BSD1)					Prepared & Analyzed: 13-May-15					

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1509327 - SW846 5035A Soil (high level)										
LCS Dup (1509327-BSD1)					Prepared & Analyzed: 13-May-15					
Benzene	**18.6**	D	µg/kg wet		20.0		93	70-130	0.6	30
n-Butylbenzene	**18.7**	D	µg/kg wet		20.0		94	70-130	2	30
sec-Butylbenzene	**22.4**	D	µg/kg wet		20.0		112	70-130	3	30
tert-Butylbenzene	**22.6**	D	µg/kg wet		20.0		113	70-130	2	30
Ethylbenzene	**20.4**	D	µg/kg wet		20.0		102	70-130	2	30
Isopropylbenzene	**21.6**	D	µg/kg wet		20.0		108	70-130	3	30
4-Isopropyltoluene	**19.2**	D	µg/kg wet		20.0		96	70-130	0.2	30
Methyl tert-butyl ether	**16.7**	D	µg/kg wet		20.0		84	70-130	2	30
Naphthalene	**19.2**	D	µg/kg wet		20.0		96	70-130	5	30
n-Propylbenzene	**20.9**	D	µg/kg wet		20.0		105	70-130	2	30
Toluene	**19.5**	D	µg/kg wet		20.0		98	70-130	0.6	30
1,2,4-Trimethylbenzene	**21.1**	D	µg/kg wet		20.0		106	70-130	2	30
1,3,5-Trimethylbenzene	**21.2**	D	µg/kg wet		20.0		106	70-130	2	30
m,p-Xylene	**20.8**	D	µg/kg wet		20.0		104	70-130	0.3	30
o-Xylene	**21.4**	D	µg/kg wet		20.0		107	70-130	3	30
Surrogate: 4-Bromofluorobenzene	*31.1*		µg/kg wet		*30.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*30.2*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*27.0*		µg/kg wet		*30.0*		*90*	*70-130*		
Surrogate: Dibromofluoromethane	*30.1*		µg/kg wet		*30.0*		*100*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1509090 - SW846 3545A										
Blank (1509090-BLK1)						Prepared & Analyzed: 11-May-15				
Acenaphthene	< 15.5	U	µg/kg wet	15.5						
Acenaphthylene	< 14.1	U	µg/kg wet	14.1						
Anthracene	< 15.2	U	µg/kg wet	15.2						
Benzo (a) anthracene	< 13.7	U	µg/kg wet	13.7						
Benzo (a) pyrene	< 13.8	U	µg/kg wet	13.8						
Benzo (b) fluoranthene	< 15.1	U	µg/kg wet	15.1						
Benzo (g,h,i) perylene	< 14.4	U	µg/kg wet	14.4						
Benzo (k) fluoranthene	< 15.1	U	µg/kg wet	15.1						
Chrysene	< 16.2	U	µg/kg wet	16.2						
Dibenzo (a,h) anthracene	< 12.2	U	µg/kg wet	12.2						
Fluoranthene	< 16.7	U	µg/kg wet	16.7						
Fluorene	< 15.9	U	µg/kg wet	15.9						
Indeno (1,2,3-cd) pyrene	< 13.6	U	µg/kg wet	13.6						
1-Methylnaphthalene	< 16.8	U	µg/kg wet	16.8						
2-Methylnaphthalene	< 13.7	U	µg/kg wet	13.7						
Naphthalene	< 13.5	U	µg/kg wet	13.5						
Phenanthrene	< 16.2	U	µg/kg wet	16.2						
Pyrene	< 14.1	U	µg/kg wet	14.1						
Surrogate: 2-Fluorobiphenyl	*1230*		µg/kg wet		*1660*		*74*	*30-130*		
Surrogate: Terphenyl-dl4	*1290*		µg/kg wet		*1660*		*78*	*30-130*		
Surrogate: Nitrobenzene-d5	*1280*		µg/kg wet		*1660*		*77*	*30-130*		
LCS (1509090-BS1)						Prepared: 11-May-15		Analyzed: 12-May-15		
Acenaphthene	**1120**		µg/kg wet	15.4	1650		68	40-140		
Acenaphthylene	**1180**		µg/kg wet	14.0	1650		71	40-140		
Anthracene	**1290**		µg/kg wet	15.1	1650		78	40-140		
Benzo (a) anthracene	**1230**		µg/kg wet	13.7	1650		75	40-140		
Benzo (a) pyrene	**1350**		µg/kg wet	13.8	1650		82	40-140		
Benzo (b) fluoranthene	**1420**		µg/kg wet	15.1	1650		86	40-140		
Benzo (g,h,i) perylene	**1230**		µg/kg wet	14.3	1650		75	40-140		
Benzo (k) fluoranthene	**1260**		µg/kg wet	15.1	1650		76	40-140		
Chrysene	**1270**		µg/kg wet	16.2	1650		77	40-140		
Dibenzo (a,h) anthracene	**1260**		µg/kg wet	12.1	1650		76	40-140		
Fluoranthene	**1280**		µg/kg wet	16.6	1650		78	40-140		
Fluorene	**1210**		µg/kg wet	15.8	1650		73	40-140		
Indeno (1,2,3-cd) pyrene	**1390**		µg/kg wet	13.5	1650		84	40-140		
1-Methylnaphthalene	**1070**		µg/kg wet	16.7	1650		65	40-140		
2-Methylnaphthalene	**1110**		µg/kg wet	13.6	1650		67	40-140		
Naphthalene	**952**		µg/kg wet	13.5	1650		58	40-140		
Phenanthrene	**1230**		µg/kg wet	16.1	1650		75	40-140		
Pyrene	**1310**		µg/kg wet	14.1	1650		79	40-140		
Surrogate: 2-Fluorobiphenyl	*1140*		µg/kg wet		*1650*		*69*	*30-130*		
Surrogate: Terphenyl-dl4	*1340*		µg/kg wet		*1650*		*81*	*30-130*		
Surrogate: Nitrobenzene-d5	*1100*		µg/kg wet		*1650*		*66*	*30-130*		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1509145 - General Preparation										
Duplicate (1509145-DUP2)			**Source: SC07188-01**			Prepared & Analyzed: 11-May-15				
% Solids	**80.3**		%			77.9			3	5

The following list indicates the date and time low-level VOC soil/sediment samples were placed in the freezer at the lab:

SC07188-01	*East Berm*	5/8/2015 5:57 PM
SC07188-02	*East Berm - Dupe*	5/8/2015 5:57 PM
SC07188-03	*West Berm*	5/8/2015 5:57 PM
SC07188-04	*West Berm - Dupe*	5/8/2015 5:57 PM

Notes and Definitions

D	Data reported from a dilution
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
JL	Estimated Concentration is potentially biased low (per NYSDEC).
R01	The Reporting Limit has been raised to account for matrix interference.
R05	Elevated Reporting Limits due to the presence of high levels of non-target analytes; sample may not meet client requested reporting limit for this reason.
U	Analyte included in the analysis, but not detected at or above the MDL.
UJL	Non-detect is potentially biased low (per NYSDEC).
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

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

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

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

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

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

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

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

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

Validated by:
June O'Connor
Rebecca Merz

SC07188 BM

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- [x] Standard TAT - 7 to 10 business days
- [ ] Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: Attn: Greg Lesniak
Barton and Loguidice
11 Centre Park Suite 203
Rochester, NY 14614
Telephone #: 585-325-7160
Project Mgr: Greg Lesniak

Invoice To: B+L

P.O No.: _____ Quote/RQN: _____

Project No: 1537.005.001
Site Name: Pioneer Middle Ave.
Location: Syracuse, NY State: NY
Sampler(s): Matt J. Kwiatkowski

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= None 12= _____

DW=Dinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= _____ X2= _____ X3= _____

G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: List Preservative Code below: 11 / n: 8270 SVOCs STARS	8260 VOCs STARS	Check if chlorinated
SC07188-01	East Berm	5/6/15	8:51	C	SO		2			X	X	☐
-02	East Berm - Dupe		8:51	C	SO		2			X	X	☐
-03	West Berm		9:45	C	SO		2			X	X	☐
-04	West Berm - Dupe		9:45	C	SO		2			X	X	☐
												☐
												☐
												☐
												☐
												☐
												☐
												☐

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☐ Standard ☐ No QC
☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other: _____
State-specific reporting standards:

250, 125 IR

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	5/6/15	1130
[signature]	Tony (GPI.23)	5/7/15	7:05
Tony (GPI.23)			
	JLH	5/7/15	1625

Temp °C: Observed 2.3; Correction Factor 0; Corrected 2.3; IR ID # 5

☐ EDD format:
☒ E-mail to: gleslniak@bartonandloguidice.com, mkwiatkowski@bl

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

SC07188 BY

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- [x] Standard TAT - 7 to 10 business days
- [ ] Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: Attn: Greg Lesniak
Barton and Loguidice
11 Centre Park Suite 203
Rochester, NY 14614
Telephone #: 585-325-7160
Project Mgr: Greg Lesniak

Invoice To: B+L

P.O No.: _____ Quote/RQN: _____

Project No: 1537.005.001
Site Name: Pioneer Miller Ave.
Location: Syracuse, NY State: NY
Sampler(s): Matt S. Kudlak

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= Nad 12= _____

DW=Dinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= _____ X2= _____ X3= _____

G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers	Analysis: List Preservative Code below: 11 / n	Check if chlorinated
SC07188-01	East Berm	5/6/15	8:51	C	SO		1	1			8270 SIMS / 8260 VOCs STARS	☐
02	East Berm - Dupe		8:51	C	SO		1	1			8270 SIMS / 8260 VOCs STARS	☐
03	West Berm		9:45	C	SO		1	1			8270 SIMS / 8260 VOCs STARS	☐
04	West Berm - Dupe		9:45	C	SO		1	1			8270 SIMS / 8260 VOCs STARS	☐
												☐
												☐
												☐
												☐
												☐
												☐
												☐

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☐ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other: _____
State-specific reporting standards:

1 Jar received per sample. Client notified on 5/14

250 / 125 IR

Relinquished by:	Received by:	Date:	Time:
		5/6/15	1150
Tony (GPI.23)	Tony (GPI.23)	5/7/15	7:05
	JLH	5/7/15	1625

Temp °C: Observed 2.3 / Correction Factor 0 / Corrected 2.3 / IR ID # 5

☐ EDD format:
☒ E-mail to: gleslniak@bartonandloguidice.com mkudlak@

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Report Date:
18-May-15 13:16

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Barton & Loguidice, D.P.C.
11 Centre Park Suite 203
Rochester, NY 14614
Attn: Greg Lesniak

Project: Pioneer Midler Ave - Syracuse, NY
Project #: 1537.005.001

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC07186-01	East Berm	Soil	06-May-15 10:30	06-May-15 11:30
SC07186-02	East Berm - Dupe	Soil	06-May-15 10:30	06-May-15 11:30
SC07186-03	West Berm - Dupe	Soil	06-May-15 10:45	06-May-15 11:30
SC07186-04	West Berm	Soil	06-May-15 10:45	06-May-15 11:30

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 # E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00098
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 32 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, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

Data has been reported to the MDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 12.5 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

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

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

Analyses for Total Hardness, pH, and Total Residual Chlorine fall under the state of Pennsylvania code Chapter 252.6 accreditation by rule.

Reactivity (40 CFR 261.23) Case Narrative:

These samples do not exhibit the characteristics of reactivity as defined in 40 CFR 261.23, sections (1), (2) and (4); however, Spectrum Analytical, Inc. does not test for detonation, explosive reaction or potential, or forbidden explosives as defined in 40 CFR 261.23, sections (3), (6), (7) and (8).

Reactive sulfide and cyanide are tested at a pH of 2 and not tested at all conditions between pH 2 and12.5 as stated in 40 CFR 261.23, section (5); thus reactive cyanide and sulfide results as reported in this document can not be used to support the nonreactive properties of these samples.

The responsibility falls on the generator to use knowledge of the waste to determine if the waste meets or does not meet the descriptive, prose definition of reactivity.

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

SW846 1030

Samples:

SC07186-01 *East Berm*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC07186-02 *East Berm - Dupe*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC07186-03 *West Berm - Dupe*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC07186-04 *West Berm*

SW846 1030

Samples:

SC07186-04 *West Berm*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SW846 1311/7470A

S504734-CRL2

Standard was rerun and passed within the method criteria

Mercury

SW846 1311/8270D

Calibration:

1505031

Analyte quantified by quadratic equation type calibration.

2,4-Dinitrophenol
4,6-Dinitro-2-methylphenol
4-Nitrophenol
Benzoic acid

This affected the following samples:

1509444-BLK1
1509444-BS1
1509444-BSD1
East Berm
East Berm - Dupe
S504308-ICV1
S504640-CCV1
West Berm
West Berm - Dupe

Laboratory Control Samples:

1509444 BS/BSD

4-Chloroaniline percent recoveries (34/30) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

East Berm
East Berm - Dupe
West Berm
West Berm - Dupe

Aniline percent recoveries (29/32) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

East Berm
East Berm - Dupe
West Berm
West Berm - Dupe

SW846 1311/8270D

Laboratory Control Samples:

1509444 BS/BSD

Benzidine percent recoveries (12/17) are outside individual acceptance criteria (40-140), but within overall method allowances.
All reported results of the following samples are considered to have a potentially low bias:

East Berm
East Berm - Dupe
West Berm
West Berm - Dupe

1509444 BSD

3-Nitroaniline RPD 22% (20%) is outside individual acceptance criteria.

Benzidine RPD 30% (20%) is outside individual acceptance criteria.

Benzyl alcohol RPD 25% (20%) is outside individual acceptance criteria.

Samples:

S504640-CCV1

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

Benzidine (-51.2%)

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

4-Nitrophenol (39.0%)

This affected the following samples:

1509444-BLK1
1509444-BS1
1509444-BSD1
East Berm
East Berm - Dupe
West Berm
West Berm - Dupe

Sample Acceptance Check Form

Client:	Barton & Loguidice, D.P.C. - Rochester, NY
Project:	Pioneer Midler Ave - Syracuse, NY / 1537.005.001
Work Order:	SC07186
Sample(s) received on:	5/6/2015

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☐	☑	☐
Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
East Berm	1537.005.001	Soil	06-May-15 10:30	06-May-15
SC07186-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	13-May-15	14-May-15	BD	1509403	X
TCLP Volatile Organic Compounds Prepared by method SW846 5030 Water MS						Initial weight: 5 ml							
71-43-2	Benzene	< 0.9	U, D	µg/l	5.0	0.9	5	SW846 1311/8260C	15-May-15	15-May-15	GMA	1509535	X
78-93-3	2-Butanone (MEK)	< 6.2	U, D	µg/l	50.0	6.2	5	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.1	U, D	µg/l	5.0	1.1	5	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0	U, D	µg/l	5.0	1.0	5	"	"	"	"	"	X
67-66-3	Chloroform	< 2.0	U, D	µg/l	5.0	2.0	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.2	U, D	µg/l	5.0	1.2	5	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 0.8	U, D	µg/l	5.0	0.8	5	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.4	U, D	µg/l	5.0	1.4	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2.0	U, D	µg/l	2.5	2.0	5	"	"	"	"	"	X
127-18-4	Tetrachloroethene	**9.9**	D	µg/l	5.0	2.9	5	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.9	U, D	µg/l	5.0	1.9	5	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.7	U, D	µg/l	5.0	1.7	5	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*94*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*95*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*111*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*97*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
TCLP Extraction for Semivolatiles Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	11-May-15	12-May-15	BD	1509197	X
	Final pH of leachate	**6.57**		N/A			1	"	"	"	"	"	
TCLP Semivolatiles Prepared by method SW846 3535A													
83-32-9	Acenaphthene	< 2.13	U	µg/l	5.00	2.13	1	SW846 1311/8270D	14-May-15	14-May-15	MSL	1509444	X
208-96-8	Acenaphthylene	< 2.16	U	µg/l	5.00	2.16	1	"	"	"	"	"	X
62-53-3	Aniline	< 2.34	U	µg/l	5.00	2.34	1	"	"	"	"	"	X
120-12-7	Anthracene	< 2.33	U	µg/l	5.00	2.33	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 2.46	U	µg/l	5.00	2.46	1	"	"	"	"	"	
92-87-5	Benzidine	< 2.68	U	µg/l	5.00	2.68	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 2.26	U	µg/l	5.00	2.26	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 2.40	U	µg/l	5.00	2.40	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 2.08	U	µg/l	5.00	2.08	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 2.40	U	µg/l	5.00	2.40	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 2.73	U	µg/l	5.00	2.73	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 1.98	U	µg/l	5.00	1.98	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 2.14	U	µg/l	5.00	2.14	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 2.23	U	µg/l	5.00	2.23	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 2.14	U	µg/l	5.00	2.14	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
East Berm	1537.005.001	Soil	06-May-15 10:30	06-May-15
SC07186-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
TCLP Semivolatiles													
Prepared by method SW846 3535A													
108-60-1	Bis(2-chloroisopropyl)ether	< 2.22	U	µg/l	5.00	2.22	1	SW846 1311/8270D	14-May-15	14-May-15	MSL	1509444	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 2.34	U	µg/l	5.00	2.34	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 2.26	U	µg/l	5.00	2.26	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 2.63	U	µg/l	5.00	2.63	1	"	"	"	"	"	X
86-74-8	Carbazole	< 2.63	U	µg/l	5.00	2.63	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 2.43	U	µg/l	5.00	2.43	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 2.63	U	µg/l	5.00	2.63	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 2.00	U	µg/l	5.00	2.00	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 2.03	U	µg/l	5.00	2.03	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 2.34	U	µg/l	5.00	2.34	1	"	"	"	"	"	X
218-01-9	Chrysene	< 2.33	U	µg/l	5.00	2.33	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 2.52	U	µg/l	5.00	2.52	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 2.15	U	µg/l	5.00	2.15	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.05	U	µg/l	5.00	2.05	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.02	U	µg/l	5.00	2.02	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.02	U	µg/l	5.00	2.02	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 2.22	U	µg/l	5.00	2.22	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 1.84	U	µg/l	5.00	1.84	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 2.38	U	µg/l	5.00	2.38	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 2.28	U	µg/l	5.00	2.28	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 2.12	U	µg/l	5.00	2.12	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 2.62	U	µg/l	5.00	2.62	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 2.50	U	µg/l	5.00	2.50	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 1.87	U	µg/l	5.00	1.87	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 2.38	U	µg/l	5.00	2.38	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 2.30	U	µg/l	5.00	2.30	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 2.79	U	µg/l	5.00	2.79	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 2.32	U	µg/l	5.00	2.32	1	"	"	"	"	"	X
86-73-7	Fluorene	< 2.31	U	µg/l	5.00	2.31	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 2.15	U	µg/l	5.00	2.15	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2.03	U	µg/l	5.00	2.03	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 1.55	U	µg/l	5.00	1.55	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 2.15	U	µg/l	5.00	2.15	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 2.30	U	µg/l	5.00	2.30	1	"	"	"	"	"	X
78-59-1	Isophorone	< 2.62	U	µg/l	5.00	2.62	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 2.19	U	µg/l	5.00	2.19	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 2.14	U	µg/l	5.00	2.14	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 2.22	U	µg/l	10.0	2.22	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.04	U	µg/l	5.00	2.04	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 2.34	U	µg/l	5.00	2.34	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 2.72	U	µg/l	5.00	2.72	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 2.62	U	µg/l	5.00	2.62	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
East Berm	1537.005.001	Soil	06-May-15 10:30	06-May-15
SC07186-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
TCLP Semivolatiles Prepared by method SW846 3535A													
98-95-3	Nitrobenzene	< 2.12	U	µg/l	5.00	2.12	1	SW846 1311/8270D	14-May-15	14-May-15	MSL	1509444	X
88-75-5	2-Nitrophenol	< 2.20	U	µg/l	5.00	2.20	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 1.91	U	µg/l	5.00	1.91	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 1.84	U	µg/l	5.00	1.84	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 2.32	U	µg/l	5.00	2.32	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 2.58	U	µg/l	5.00	2.58	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 2.15	U	µg/l	5.00	2.15	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 2.26	U	µg/l	5.00	2.26	1	"	"	"	"	"	X
108-95-2	Phenol	< 2.04	U	µg/l	5.00	2.04	1	"	"	"	"	"	X
129-00-0	Pyrene	< 2.42	U	µg/l	5.00	2.42	1	"	"	"	"	"	X
110-86-1	Pyridine	< 1.62	U	µg/l	5.00	1.62	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.99	U	µg/l	5.00	1.99	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1.96	U	µg/l	5.00	1.96	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 2.09	U	µg/l	5.00	2.09	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 1.96	U	µg/l	5.00	1.96	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 2.22	U	µg/l	5.00	2.22	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 1.97	U	µg/l	5.00	1.97	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*73*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*78*			*15-110 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*79*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*79*			*15-110 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*81*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*76*			*15-110 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3545A													
12674-11-2	Aroclor-1016	< 20.9	U	µg/kg dry	23.2	20.9	1	SW846 8082A	11-May-15	11-May-15	IMR	1509089	X
11104-28-2	Aroclor-1221	< 17.8	U	µg/kg dry	23.2	17.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8	U	µg/kg dry	23.2	20.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 14.4	U	µg/kg dry	23.2	14.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 14.5	U	µg/kg dry	23.2	14.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 16.0	U	µg/kg dry	23.2	16.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**208**		µg/kg dry	23.2	16.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8	U	µg/kg dry	23.2	20.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.8	U	µg/kg dry	23.2	22.8	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
East Berm SC07186-01	1537.005.001	Soil	06-May-15 10:30	06-May-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
TCLP Metals by EPA 1311 & 6000/7000 Series Methods													
TCLP Extraction for Hg Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	11-May-15	12-May-15	BD	1509195	X
	Final pH of leachate	**6.65**		N/A			1	"	"	"	"	"	
TCLP Extraction for Metals Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**6.65**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0014	U	mg/l	0.0050	0.0014	1	SW846 1311/6010C	14-May-15	15-May-15	EDT	1509320	X
7440-38-2	Arsenic	< 0.0026	U	mg/l	0.0040	0.0026	1	"	"	15-May-15	"	1509548	X
7440-39-3	Barium	**0.374**		mg/l	0.0500	0.0004	1	"	"	15-May-15	"	1509320	X
7440-43-9	Cadmium	**0.0005**	J	mg/l	0.0025	0.0002	1	"	"	"	"	"	X
7440-47-3	Chromium	**0.0028**	J	mg/l	0.0050	0.0010	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.00009	U	mg/l	0.00020	0.00009	1	SW846 1311/7470A	"	15-May-15	YR	1509321	X
7439-92-1	Lead	< 0.0018	U	mg/l	0.0075	0.0018	1	SW846 1311/6010C	"	15-May-15	bjw	1509548	X
7782-49-2	Selenium	< 0.0043	U	mg/l	0.0150	0.0043	1	"	"	15-May-15	"	1509320	X
General Chemistry Parameters													
	% Solids	**86.0**		%			1	SM2540 G Mod.	11-May-15	11-May-15	DT	1509144	
Toxicity Characteristics													
	Flashpoint	**>200**		°F			1	SW846 1010A	12-May-15	12-May-15	BD	1509275	X
	Free Liquid	**Absent**		N/A			1	SW846 9095B	08-May-15	08-May-15	BD	1508979	X
	Ignitability by Definition	**Negative**	IgHT	N/A			1	SW846 1030	08-May-15 17:00	08-May-15 17:30	BD	1508980	X
	pH	**8.24**	pH	pH Units			1	SW846 9045D	11-May-15 10:59	11-May-15 16:27	BD	1509150	X
Reactivity Cyanide/Sulfide Prepared by method General Preparation													
	Reactivity	**See Narrative**		mg/kg dry			1	SW846 Ch. 7.3	11-May-15	11-May-15	TN	1509189	
57-12-5	Reactive Cyanide	< 24.7	U	mg/kg dry	24.7	24.7	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 49.4	U	mg/kg dry	49.4	49.4	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
East Berm - Dupe SC07186-02	1537.005.001	Soil	06-May-15 10:30	06-May-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	13-May-15	14-May-15	BD	1509403	X
TCLP Volatile Organic Compounds Prepared by method SW846 5030 Water MS						Initial weight: 5 ml							
71-43-2	Benzene	< 0.9	U, D	µg/l	5.0	0.9	5	SW846 1311/8260C	15-May-15	15-May-15	GMA	1509535	X
78-93-3	2-Butanone (MEK)	< 6.2	U, D	µg/l	50.0	6.2	5	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.1	U, D	µg/l	5.0	1.1	5	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0	U, D	µg/l	5.0	1.0	5	"	"	"	"	"	X
67-66-3	Chloroform	**2.4**	D, J	µg/l	5.0	2.0	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.2	U, D	µg/l	5.0	1.2	5	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 0.8	U, D	µg/l	5.0	0.8	5	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.4	U, D	µg/l	5.0	1.4	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2.0	U, D	µg/l	2.5	2.0	5	"	"	"	"	"	X
127-18-4	Tetrachloroethene	**10.8**	D	µg/l	5.0	2.9	5	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.9	U, D	µg/l	5.0	1.9	5	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.7	U, D	µg/l	5.0	1.7	5	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*94*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*95*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*110*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*98*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
TCLP Extraction for Semivolatiles Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	11-May-15	12-May-15	BD	1509197	X
	Final pH of leachate	**6.48**		N/A			1	"	"	"	"	"	
TCLP Semivolatiles Prepared by method SW846 3535A													
83-32-9	Acenaphthene	< 2.13	U	µg/l	5.00	2.13	1	SW846 1311/8270D	14-May-15	14-May-15	MSL	1509444	X
208-96-8	Acenaphthylene	< 2.16	U	µg/l	5.00	2.16	1	"	"	"	"	"	X
62-53-3	Aniline	< 2.34	U	µg/l	5.00	2.34	1	"	"	"	"	"	X
120-12-7	Anthracene	< 2.33	U	µg/l	5.00	2.33	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 2.46	U	µg/l	5.00	2.46	1	"	"	"	"	"	
92-87-5	Benzidine	< 2.68	U	µg/l	5.00	2.68	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 2.26	U	µg/l	5.00	2.26	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 2.40	U	µg/l	5.00	2.40	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 2.08	U	µg/l	5.00	2.08	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 2.40	U	µg/l	5.00	2.40	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 2.73	U	µg/l	5.00	2.73	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 1.98	U	µg/l	5.00	1.98	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 2.14	U	µg/l	5.00	2.14	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 2.23	U	µg/l	5.00	2.23	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 2.14	U	µg/l	5.00	2.14	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
East Berm - Dupe SC07186-02	1537.005.001	Soil	06-May-15 10:30	06-May-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
TCLP Semivolatiles Prepared by method SW846 3535A													
108-60-1	Bis(2-chloroisopropyl)ether	< 2.22	U	µg/l	5.00	2.22	1	SW846 1311/8270D	14-May-15	14-May-15	MSL	1509444	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 2.34	U	µg/l	5.00	2.34	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 2.26	U	µg/l	5.00	2.26	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 2.63	U	µg/l	5.00	2.63	1	"	"	"	"	"	X
86-74-8	Carbazole	< 2.63	U	µg/l	5.00	2.63	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 2.43	U	µg/l	5.00	2.43	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 2.63	U	µg/l	5.00	2.63	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 2.00	U	µg/l	5.00	2.00	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 2.03	U	µg/l	5.00	2.03	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 2.34	U	µg/l	5.00	2.34	1	"	"	"	"	"	X
218-01-9	Chrysene	< 2.33	U	µg/l	5.00	2.33	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 2.52	U	µg/l	5.00	2.52	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 2.15	U	µg/l	5.00	2.15	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.05	U	µg/l	5.00	2.05	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.02	U	µg/l	5.00	2.02	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.02	U	µg/l	5.00	2.02	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 2.22	U	µg/l	5.00	2.22	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 1.84	U	µg/l	5.00	1.84	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 2.38	U	µg/l	5.00	2.38	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 2.28	U	µg/l	5.00	2.28	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 2.12	U	µg/l	5.00	2.12	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 2.62	U	µg/l	5.00	2.62	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 2.50	U	µg/l	5.00	2.50	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 1.87	U	µg/l	5.00	1.87	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 2.38	U	µg/l	5.00	2.38	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 2.30	U	µg/l	5.00	2.30	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 2.79	U	µg/l	5.00	2.79	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 2.32	U	µg/l	5.00	2.32	1	"	"	"	"	"	X
86-73-7	Fluorene	< 2.31	U	µg/l	5.00	2.31	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 2.15	U	µg/l	5.00	2.15	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2.03	U	µg/l	5.00	2.03	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 1.55	U	µg/l	5.00	1.55	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 2.15	U	µg/l	5.00	2.15	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 2.30	U	µg/l	5.00	2.30	1	"	"	"	"	"	X
78-59-1	Isophorone	< 2.62	U	µg/l	5.00	2.62	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 2.19	U	µg/l	5.00	2.19	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 2.14	U	µg/l	5.00	2.14	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 2.22	U	µg/l	10.0	2.22	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.04	U	µg/l	5.00	2.04	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 2.34	U	µg/l	5.00	2.34	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 2.72	U	µg/l	5.00	2.72	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 2.62	U	µg/l	5.00	2.62	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
East Berm - Dupe	1537.005.001	Soil	06-May-15 10:30	06-May-15
SC07186-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
TCLP Semivolatiles Prepared by method SW846 3535A													
98-95-3	Nitrobenzene	< 2.12	U	µg/l	5.00	2.12	1	SW846 1311/8270D	14-May-15	14-May-15	MSL	1509444	X
88-75-5	2-Nitrophenol	< 2.20	U	µg/l	5.00	2.20	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 1.91	U	µg/l	5.00	1.91	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 1.84	U	µg/l	5.00	1.84	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 2.32	U	µg/l	5.00	2.32	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 2.58	U	µg/l	5.00	2.58	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 2.15	U	µg/l	5.00	2.15	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 2.26	U	µg/l	5.00	2.26	1	"	"	"	"	"	X
108-95-2	Phenol	< 2.04	U	µg/l	5.00	2.04	1	"	"	"	"	"	X
129-00-0	Pyrene	< 2.42	U	µg/l	5.00	2.42	1	"	"	"	"	"	X
110-86-1	Pyridine	< 1.62	U	µg/l	5.00	1.62	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.99	U	µg/l	5.00	1.99	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1.96	U	µg/l	5.00	1.96	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 2.09	U	µg/l	5.00	2.09	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 1.96	U	µg/l	5.00	1.96	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 2.22	U	µg/l	5.00	2.22	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 1.97	U	µg/l	5.00	1.97	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*70*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*76*			*15-110 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*76*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*79*			*15-110 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*77*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*73*			*15-110 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3545A													
12674-11-2	Aroclor-1016	< 20.9	U	µg/kg dry	23.2	20.9	1	SW846 8082A	11-May-15	11-May-15	IMR	1509089	X
11104-28-2	Aroclor-1221	< 17.8	U	µg/kg dry	23.2	17.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8	U	µg/kg dry	23.2	20.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 14.4	U	µg/kg dry	23.2	14.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 14.5	U	µg/kg dry	23.2	14.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 16.0	U	µg/kg dry	23.2	16.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**262**		µg/kg dry	23.2	16.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8	U	µg/kg dry	23.2	20.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.8	U	µg/kg dry	23.2	22.8	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
East Berm - Dupe SC07186-02	1537.005.001	Soil	06-May-15 10:30	06-May-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
TCLP Metals by EPA 1311 & 6000/7000 Series Methods													
TCLP Extraction for Hg Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	11-May-15	12-May-15	BD	1509195	X
	Final pH of leachate	**6.57**		N/A			1	"	"	"	"	"	
TCLP Extraction for Metals Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**6.57**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0014	U	mg/l	0.0050	0.0014	1	SW846 1311/6010C	14-May-15	15-May-15	EDT	1509320	X
7440-38-2	Arsenic	**0.0028**	J	mg/l	0.0040	0.0026	1	"	"	15-May-15	"	1509548	X
7440-39-3	Barium	**0.418**		mg/l	0.0500	0.0004	1	"	"	15-May-15	"	1509320	X
7440-43-9	Cadmium	**0.0007**	J	mg/l	0.0025	0.0002	1	"	"	"	"	"	X
7440-47-3	Chromium	**0.0040**	J	mg/l	0.0050	0.0010	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.00009	U	mg/l	0.00020	0.00009	1	SW846 1311/7470A	"	15-May-15	YR	1509321	X
7439-92-1	Lead	**0.0057**	J	mg/l	0.0075	0.0018	1	SW846 1311/6010C	"	15-May-15	bjw	1509548	X
7782-49-2	Selenium	**0.0057**	J	mg/l	0.0150	0.0043	1	"	"	15-May-15	"	1509320	X
General Chemistry Parameters													
	% Solids	**83.6**		%			1	SM2540 G Mod.	11-May-15	11-May-15	DT	1509144	
Toxicity Characteristics													
	Flashpoint	**>200**		°F			1	SW846 1010A	12-May-15	12-May-15	BD	1509275	X
	Free Liquid	**Absent**		N/A			1	SW846 9095B	08-May-15	08-May-15	BD	1508979	X
	Ignitability by Definition	**Negative**	IgHT	N/A			1	SW846 1030	08-May-15 17:00	08-May-15 17:30	BD	1508980	X
	pH	**8.21**	pH	pH Units			1	SW846 9045D	11-May-15 10:59	11-May-15 16:28	BD	1509150	X
Reactivity Cyanide/Sulfide Prepared by method General Preparation													
	Reactivity	**See Narrative**		mg/kg dry			1	SW846 Ch. 7.3	11-May-15	11-May-15	TN	1509189	
57-12-5	Reactive Cyanide	< 24.7	U	mg/kg dry	24.7	24.7	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 49.4	U	mg/kg dry	49.4	49.4	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
West Berm - Dupe SC07186-03	1537.005.001	Soil	06-May-15 10:45	06-May-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	13-May-15	14-May-15	BD	1509403	X
TCLP Volatile Organic Compounds Prepared by method SW846 5030 Water MS						Initial weight: 5 ml							
71-43-2	Benzene	< 0.9	U, D	µg/l	5.0	0.9	5	SW846 1311/8260C	15-May-15	15-May-15	GMA	1509535	X
78-93-3	2-Butanone (MEK)	< 6.2	U, D	µg/l	50.0	6.2	5	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.1	U, D	µg/l	5.0	1.1	5	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0	U, D	µg/l	5.0	1.0	5	"	"	"	"	"	X
67-66-3	Chloroform	**2.6**	D, J	µg/l	5.0	2.0	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.2	U, D	µg/l	5.0	1.2	5	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 0.8	U, D	µg/l	5.0	0.8	5	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.4	U, D	µg/l	5.0	1.4	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2.0	U, D	µg/l	2.5	2.0	5	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 2.9	U, D	µg/l	5.0	2.9	5	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.9	U, D	µg/l	5.0	1.9	5	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.7	U, D	µg/l	5.0	1.7	5	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*93*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*96*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*110*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*97*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
TCLP Extraction for Semivolatiles Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	11-May-15	12-May-15	BD	1509197	X
	Final pH of leachate	**6.42**		N/A			1	"	"	"	"	"	
TCLP Semivolatiles Prepared by method SW846 3535A													
83-32-9	Acenaphthene	< 2.13	U	µg/l	5.00	2.13	1	SW846 1311/8270D	14-May-15	14-May-15	MSL	1509444	X
208-96-8	Acenaphthylene	< 2.16	U	µg/l	5.00	2.16	1	"	"	"	"	"	X
62-53-3	Aniline	< 2.34	U	µg/l	5.00	2.34	1	"	"	"	"	"	X
120-12-7	Anthracene	< 2.33	U	µg/l	5.00	2.33	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 2.46	U	µg/l	5.00	2.46	1	"	"	"	"	"	
92-87-5	Benzidine	< 2.68	U	µg/l	5.00	2.68	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 2.26	U	µg/l	5.00	2.26	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 2.40	U	µg/l	5.00	2.40	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 2.08	U	µg/l	5.00	2.08	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 2.40	U	µg/l	5.00	2.40	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 2.73	U	µg/l	5.00	2.73	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 1.98	U	µg/l	5.00	1.98	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 2.14	U	µg/l	5.00	2.14	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 2.23	U	µg/l	5.00	2.23	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 2.14	U	µg/l	5.00	2.14	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
West Berm - Dupe	1537.005.001	Soil	06-May-15 10:45	06-May-15
SC07186-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
TCLP Semivolatiles Prepared by method SW846 3535A													
108-60-1	Bis(2-chloroisopropyl)ether	< 2.22	U	µg/l	5.00	2.22	1	SW846 1311/8270D	14-May-15	14-May-15	MSL	1509444	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 2.34	U	µg/l	5.00	2.34	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 2.26	U	µg/l	5.00	2.26	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 2.63	U	µg/l	5.00	2.63	1	"	"	"	"	"	X
86-74-8	Carbazole	< 2.63	U	µg/l	5.00	2.63	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 2.43	U	µg/l	5.00	2.43	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 2.63	U	µg/l	5.00	2.63	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 2.00	U	µg/l	5.00	2.00	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 2.03	U	µg/l	5.00	2.03	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 2.34	U	µg/l	5.00	2.34	1	"	"	"	"	"	X
218-01-9	Chrysene	< 2.33	U	µg/l	5.00	2.33	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 2.52	U	µg/l	5.00	2.52	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 2.15	U	µg/l	5.00	2.15	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.05	U	µg/l	5.00	2.05	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.02	U	µg/l	5.00	2.02	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.02	U	µg/l	5.00	2.02	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 2.22	U	µg/l	5.00	2.22	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 1.84	U	µg/l	5.00	1.84	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 2.38	U	µg/l	5.00	2.38	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 2.28	U	µg/l	5.00	2.28	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 2.12	U	µg/l	5.00	2.12	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 2.62	U	µg/l	5.00	2.62	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 2.50	U	µg/l	5.00	2.50	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 1.87	U	µg/l	5.00	1.87	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 2.38	U	µg/l	5.00	2.38	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 2.30	U	µg/l	5.00	2.30	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 2.79	U	µg/l	5.00	2.79	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 2.32	U	µg/l	5.00	2.32	1	"	"	"	"	"	X
86-73-7	Fluorene	< 2.31	U	µg/l	5.00	2.31	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 2.15	U	µg/l	5.00	2.15	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2.03	U	µg/l	5.00	2.03	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 1.55	U	µg/l	5.00	1.55	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 2.15	U	µg/l	5.00	2.15	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 2.30	U	µg/l	5.00	2.30	1	"	"	"	"	"	X
78-59-1	Isophorone	< 2.62	U	µg/l	5.00	2.62	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 2.19	U	µg/l	5.00	2.19	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 2.14	U	µg/l	5.00	2.14	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 2.22	U	µg/l	10.0	2.22	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.04	U	µg/l	5.00	2.04	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 2.34	U	µg/l	5.00	2.34	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 2.72	U	µg/l	5.00	2.72	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 2.62	U	µg/l	5.00	2.62	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
West Berm - Dupe	1537.005.001	Soil	06-May-15 10:45	06-May-15
SC07186-03				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
TCLP Semivolatiles Prepared by method SW846 3535A													
98-95-3	Nitrobenzene	< 2.12	U	µg/l	5.00	2.12	1	SW846 1311/8270D	14-May-15	14-May-15	MSL	1509444	X
88-75-5	2-Nitrophenol	< 2.20	U	µg/l	5.00	2.20	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 1.91	U	µg/l	5.00	1.91	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 1.84	U	µg/l	5.00	1.84	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 2.32	U	µg/l	5.00	2.32	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 2.58	U	µg/l	5.00	2.58	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 2.15	U	µg/l	5.00	2.15	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 2.26	U	µg/l	5.00	2.26	1	"	"	"	"	"	X
108-95-2	Phenol	< 2.04	U	µg/l	5.00	2.04	1	"	"	"	"	"	X
129-00-0	Pyrene	< 2.42	U	µg/l	5.00	2.42	1	"	"	"	"	"	X
110-86-1	Pyridine	< 1.62	U	µg/l	5.00	1.62	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.99	U	µg/l	5.00	1.99	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1.96	U	µg/l	5.00	1.96	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 2.09	U	µg/l	5.00	2.09	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 1.96	U	µg/l	5.00	1.96	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 2.22	U	µg/l	5.00	2.22	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 1.97	U	µg/l	5.00	1.97	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*70*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*75*			*15-110 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*73*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*75*			*15-110 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*75*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*70*			*15-110 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3545A													
12674-11-2	Aroclor-1016	< 20.1	U	µg/kg dry	22.3	20.1	1	SW846 8082A	11-May-15	12-May-15	IMR	1509089	X
11104-28-2	Aroclor-1221	< 17.1	U	µg/kg dry	22.3	17.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.0	U	µg/kg dry	22.3	20.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 13.8	U	µg/kg dry	22.3	13.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 14.0	U	µg/kg dry	22.3	14.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 15.4	U	µg/kg dry	22.3	15.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**36.4**		µg/kg dry	22.3	13.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.0	U	µg/kg dry	22.3	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.9	U	µg/kg dry	22.3	21.9	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
West Berm - Dupe SC07186-03	1537.005.001	Soil	06-May-15 10:45	06-May-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
TCLP Metals by EPA 1311 & 6000/7000 Series Methods													
TCLP Extraction for Hg Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	11-May-15	12-May-15	BD	1509195	X
	Final pH of leachate	**6.52**		N/A			1	"	"	"	"	"	
TCLP Extraction for Metals Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**6.52**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0014	U	mg/l	0.0050	0.0014	1	SW846 1311/6010C	14-May-15	15-May-15	EDT	1509320	X
7440-38-2	Arsenic	**0.0054**		mg/l	0.0040	0.0026	1	"	"	15-May-15	"	1509548	X
7440-39-3	Barium	**0.410**		mg/l	0.0500	0.0004	1	"	"	15-May-15	"	1509320	X
7440-43-9	Cadmium	**0.0012**	J	mg/l	0.0025	0.0002	1	"	"	"	"	"	X
7440-47-3	Chromium	**0.0044**	J	mg/l	0.0050	0.0010	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.00009	U	mg/l	0.00020	0.00009	1	SW846 1311/7470A	"	15-May-15	YR	1509321	X
7439-92-1	Lead	**0.0136**		mg/l	0.0075	0.0018	1	SW846 1311/6010C	"	15-May-15	bjw	1509548	X
7782-49-2	Selenium	**0.0072**	J	mg/l	0.0150	0.0043	1	"	"	15-May-15	"	1509320	X
General Chemistry Parameters													
	% Solids	**84.5**		%			1	SM2540 G Mod.	11-May-15	11-May-15	DT	1509144	
Toxicity Characteristics													
	Flashpoint	**>200**		°F			1	SW846 1010A	12-May-15	12-May-15	BD	1509275	X
	Free Liquid	**Absent**		N/A			1	SW846 9095B	08-May-15	08-May-15	BD	1508979	X
	Ignitability by Definition	**Negative**	IgHT	N/A			1	SW846 1030	08-May-15 17:00	08-May-15 17:30	BD	1508980	X
	pH	**7.80**	pH	pH Units			1	SW846 9045D	11-May-15 10:59	11-May-15 16:29	BD	1509150	X
Reactivity Cyanide/Sulfide Prepared by method General Preparation													
	Reactivity	**See Narrative**		mg/kg dry			1	SW846 Ch. 7.3	11-May-15	11-May-15	TN	1509189	
57-12-5	Reactive Cyanide	< 25.0	U	mg/kg dry	25.0	25.0	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 50.0	U	mg/kg dry	50.0	50.0	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
West Berm SC07186-04	1537.005.001	Soil	06-May-15 10:45	06-May-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	13-May-15	14-May-15	BD	1509403	X
TCLP Volatile Organic Compounds Prepared by method SW846 5030 Water MS						Initial weight: 5 ml							
71-43-2	Benzene	< 0.9	U, D	µg/l	5.0	0.9	5	SW846 1311/8260C	15-May-15	15-May-15	GMA	1509535	X
78-93-3	2-Butanone (MEK)	< 6.2	U, D	µg/l	50.0	6.2	5	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.1	U, D	µg/l	5.0	1.1	5	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0	U, D	µg/l	5.0	1.0	5	"	"	"	"	"	X
67-66-3	Chloroform	< 2.0	U, D	µg/l	5.0	2.0	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.2	U, D	µg/l	5.0	1.2	5	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 0.8	U, D	µg/l	5.0	0.8	5	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.4	U, D	µg/l	5.0	1.4	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2.0	U, D	µg/l	2.5	2.0	5	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 2.9	U, D	µg/l	5.0	2.9	5	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.9	U, D	µg/l	5.0	1.9	5	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.7	U, D	µg/l	5.0	1.7	5	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*91*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*95*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*113*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*94*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
TCLP Extraction for Semivolatiles Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	11-May-15	12-May-15	BD	1509197	X
	Final pH of leachate	**6.54**		N/A			1	"	"	"	"	"	
TCLP Semivolatiles Prepared by method SW846 3535A													
83-32-9	Acenaphthene	< 2.13	U	µg/l	5.00	2.13	1	SW846 1311/8270D	14-May-15	14-May-15	MSL	1509444	X
208-96-8	Acenaphthylene	< 2.16	U	µg/l	5.00	2.16	1	"	"	"	"	"	X
62-53-3	Aniline	< 2.34	U	µg/l	5.00	2.34	1	"	"	"	"	"	X
120-12-7	Anthracene	< 2.33	U	µg/l	5.00	2.33	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 2.46	U	µg/l	5.00	2.46	1	"	"	"	"	"	
92-87-5	Benzidine	< 2.68	U	µg/l	5.00	2.68	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 2.26	U	µg/l	5.00	2.26	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 2.40	U	µg/l	5.00	2.40	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 2.08	U	µg/l	5.00	2.08	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 2.40	U	µg/l	5.00	2.40	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 2.73	U	µg/l	5.00	2.73	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 1.98	U	µg/l	5.00	1.98	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 2.14	U	µg/l	5.00	2.14	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 2.23	U	µg/l	5.00	2.23	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 2.14	U	µg/l	5.00	2.14	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
West Berm	1537.005.001	Soil	06-May-15 10:45	06-May-15
SC07186-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
TCLP Semivolatiles Prepared by method SW846 3535A													
108-60-1	Bis(2-chloroisopropyl)ether	< 2.22	U	µg/l	5.00	2.22	1	SW846 1311/8270D	14-May-15	14-May-15	MSL	1509444	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 2.34	U	µg/l	5.00	2.34	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 2.26	U	µg/l	5.00	2.26	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 2.63	U	µg/l	5.00	2.63	1	"	"	"	"	"	X
86-74-8	Carbazole	< 2.63	U	µg/l	5.00	2.63	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 2.43	U	µg/l	5.00	2.43	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 2.63	U	µg/l	5.00	2.63	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 2.00	U	µg/l	5.00	2.00	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 2.03	U	µg/l	5.00	2.03	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 2.34	U	µg/l	5.00	2.34	1	"	"	"	"	"	X
218-01-9	Chrysene	< 2.33	U	µg/l	5.00	2.33	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 2.52	U	µg/l	5.00	2.52	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 2.15	U	µg/l	5.00	2.15	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.05	U	µg/l	5.00	2.05	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.02	U	µg/l	5.00	2.02	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.02	U	µg/l	5.00	2.02	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 2.22	U	µg/l	5.00	2.22	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 1.84	U	µg/l	5.00	1.84	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 2.38	U	µg/l	5.00	2.38	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 2.28	U	µg/l	5.00	2.28	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 2.12	U	µg/l	5.00	2.12	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 2.62	U	µg/l	5.00	2.62	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 2.50	U	µg/l	5.00	2.50	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 1.87	U	µg/l	5.00	1.87	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 2.38	U	µg/l	5.00	2.38	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 2.30	U	µg/l	5.00	2.30	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 2.79	U	µg/l	5.00	2.79	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 2.32	U	µg/l	5.00	2.32	1	"	"	"	"	"	X
86-73-7	Fluorene	< 2.31	U	µg/l	5.00	2.31	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 2.15	U	µg/l	5.00	2.15	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2.03	U	µg/l	5.00	2.03	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 1.55	U	µg/l	5.00	1.55	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 2.15	U	µg/l	5.00	2.15	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 2.30	U	µg/l	5.00	2.30	1	"	"	"	"	"	X
78-59-1	Isophorone	< 2.62	U	µg/l	5.00	2.62	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 2.19	U	µg/l	5.00	2.19	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 2.14	U	µg/l	5.00	2.14	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 2.22	U	µg/l	10.0	2.22	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.04	U	µg/l	5.00	2.04	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 2.34	U	µg/l	5.00	2.34	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 2.72	U	µg/l	5.00	2.72	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 2.62	U	µg/l	5.00	2.62	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
West Berm SC07186-04	1537.005.001	Soil	06-May-15 10:45	06-May-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
TCLP Semivolatiles Prepared by method SW846 3535A													
98-95-3	Nitrobenzene	< 2.12	U	µg/l	5.00	2.12	1	SW846 1311/8270D	14-May-15	14-May-15	MSL	1509444	X
88-75-5	2-Nitrophenol	< 2.20	U	µg/l	5.00	2.20	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 1.91	U	µg/l	5.00	1.91	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 1.84	U	µg/l	5.00	1.84	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 2.32	U	µg/l	5.00	2.32	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 2.58	U	µg/l	5.00	2.58	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 2.15	U	µg/l	5.00	2.15	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 2.26	U	µg/l	5.00	2.26	1	"	"	"	"	"	X
108-95-2	Phenol	< 2.04	U	µg/l	5.00	2.04	1	"	"	"	"	"	X
129-00-0	Pyrene	< 2.42	U	µg/l	5.00	2.42	1	"	"	"	"	"	X
110-86-1	Pyridine	< 1.62	U	µg/l	5.00	1.62	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.99	U	µg/l	5.00	1.99	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1.96	U	µg/l	5.00	1.96	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 2.09	U	µg/l	5.00	2.09	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 1.96	U	µg/l	5.00	1.96	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 2.22	U	µg/l	5.00	2.22	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 1.97	U	µg/l	5.00	1.97	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*75*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*78*			*15-110 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*77*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*77*			*15-110 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*80*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*80*			*15-110 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3545A													
12674-11-2	Aroclor-1016	< 20.6	U	µg/kg dry	22.8	20.6	1	SW846 8082A	11-May-15	12-May-15	IMR	1509089	X
11104-28-2	Aroclor-1221	< 17.5	U	µg/kg dry	22.8	17.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.5	U	µg/kg dry	22.8	20.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 14.2	U	µg/kg dry	22.8	14.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 14.3	U	µg/kg dry	22.8	14.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 15.7	U	µg/kg dry	22.8	15.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**50.0**		µg/kg dry	22.8	16.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.4	U	µg/kg dry	22.8	20.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.4	U	µg/kg dry	22.8	22.4	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
West Berm SC07186-04	1537.005.001	Soil	06-May-15 10:45	06-May-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
TCLP Metals by EPA 1311 & 6000/7000 Series Methods													
TCLP Extraction for Hg Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	11-May-15	12-May-15	BD	1509195	X
	Final pH of leachate	**6.55**		N/A			1	"	"	"	"	"	
TCLP Extraction for Metals Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**6.55**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0014	U	mg/l	0.0050	0.0014	1	SW846 1311/6010C	14-May-15	15-May-15	EDT	1509320	X
7440-38-2	Arsenic	**0.0049**		mg/l	0.0040	0.0026	1	"	"	15-May-15	"	1509548	X
7440-39-3	Barium	**0.416**		mg/l	0.0500	0.0004	1	"	"	15-May-15	"	1509320	X
7440-43-9	Cadmium	**0.0012**	J	mg/l	0.0025	0.0002	1	"	"	"	"	"	X
7440-47-3	Chromium	**0.0036**	J	mg/l	0.0050	0.0010	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.00009	U	mg/l	0.00020	0.00009	1	SW846 1311/7470A	"	15-May-15	YR	1509321	X
7439-92-1	Lead	**0.0214**		mg/l	0.0075	0.0018	1	SW846 1311/6010C	"	15-May-15	bjw	1509548	X
7782-49-2	Selenium	**0.0044**	J	mg/l	0.0150	0.0043	1	"	"	15-May-15	"	1509320	X
General Chemistry Parameters													
	% Solids	**84.5**		%			1	SM2540 G Mod.	11-May-15	11-May-15	DT	1509144	
Toxicity Characteristics													
	Flashpoint	**>200**		°F			1	SW846 1010A	12-May-15	12-May-15	BD	1509275	X
	Free Liquid	**Absent**		N/A			1	SW846 9095B	08-May-15	08-May-15	BD	1508979	X
	Ignitability by Definition	**Negative**	IgHT	N/A			1	SW846 1030	08-May-15 17:00	08-May-15 17:30	BD	1508980	X
	pH	**7.76**	pH	pH Units			1	SW846 9045D	11-May-15 10:59	11-May-15 16:32	BD	1509150	X
Reactivity Cyanide/Sulfide Prepared by method General Preparation													
	Reactivity	**See Narrative**		mg/kg dry			1	SW846 Ch. 7.3	11-May-15	11-May-15	TN	1509189	
57-12-5	Reactive Cyanide	< 24.8	U	mg/kg dry	24.8	24.8	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 49.6	U	mg/kg dry	49.6	49.6	1	"	"	"	"	"	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1509535 - SW846 5030 Water MS										
Blank (1509535-BLK1)					Prepared & Analyzed: 15-May-15					
Benzene	< 0.2	U	µg/l	0.2						
Carbon tetrachloride	< 0.2	U	µg/l	0.2						
Chlorobenzene	< 0.2	U	µg/l	0.2						
Chloroform	< 0.4	U	µg/l	0.4						
1,4-Dichlorobenzene	< 0.2	U	µg/l	0.2						
1,2-Dichloroethane	< 0.2	U	µg/l	0.2						
1,1-Dichloroethene	< 0.3	U	µg/l	0.3						
Hexachlorobutadiene	< 0.4	U	µg/l	0.4						
Tetrachloroethene	< 0.6	U	µg/l	0.6						
Trichloroethene	< 0.4	U	µg/l	0.4						
Vinyl chloride	< 0.3	U	µg/l	0.3						
Surrogate: 4-Bromofluorobenzene	*48.2*		µg/l		*50.0*		*96*	*70-130*		
Surrogate: Toluene-d8	*47.9*		µg/l		*50.0*		*96*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*54.8*		µg/l		*50.0*		*110*	*70-130*		
Surrogate: Dibromofluoromethane	*48.8*		µg/l		*50.0*		*98*	*70-130*		
Blank (1509535-BLK2)					Prepared & Analyzed: 15-May-15					
Benzene	< 0.9	U, D	µg/l	0.9						
2-Butanone (MEK)	< 6.2	U, D	µg/l	6.2						
Carbon tetrachloride	< 1.1	U, D	µg/l	1.1						
Chlorobenzene	< 1.0	U, D	µg/l	1.0						
Chloroform	**2.4**	J, D	µg/l	2.0						
1,4-Dichlorobenzene	< 1.2	U, D	µg/l	1.2						
1,2-Dichloroethane	< 0.8	U, D	µg/l	0.8						
1,1-Dichloroethene	< 1.4	U, D	µg/l	1.4						
Hexachlorobutadiene	< 2.0	U, D	µg/l	2.0						
Tetrachloroethene	< 2.9	U, D	µg/l	2.9						
Trichloroethene	< 1.9	U, D	µg/l	1.9						
Vinyl chloride	< 1.7	U, D	µg/l	1.7						
Surrogate: 4-Bromofluorobenzene	*46.8*		µg/l		*50.0*		*94*	*70-130*		
Surrogate: Toluene-d8	*47.3*		µg/l		*50.0*		*95*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*54.6*		µg/l		*50.0*		*109*	*70-130*		
Surrogate: Dibromofluoromethane	*48.9*		µg/l		*50.0*		*98*	*70-130*		
LCS (1509535-BS2)					Prepared & Analyzed: 15-May-15					
Benzene	**19.4**	D	µg/l		20.0		97	70-130		
2-Butanone (MEK)	**21.6**	D	µg/l		20.0		108	70-130		
Carbon tetrachloride	**23.2**	D	µg/l		20.0		116	70-130		
Chlorobenzene	**18.8**	D	µg/l		20.0		94	70-130		
Chloroform	**20.7**	D	µg/l		20.0		103	70-130		
1,4-Dichlorobenzene	**20.7**	D	µg/l		20.0		103	70-130		
1,2-Dichloroethane	**21.4**	D	µg/l		20.0		107	70-130		
1,1-Dichloroethene	**18.6**	D	µg/l		20.0		93	70-130		
Hexachlorobutadiene	**24.3**	D	µg/l		20.0		121	70-130		
Tetrachloroethene	**20.7**	D	µg/l		20.0		104	70-130		
Trichloroethene	**17.9**	D	µg/l		20.0		90	70-130		
Vinyl chloride	**17.5**	D	µg/l		20.0		87	70-130		
Surrogate: 4-Bromofluorobenzene	*49.3*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: Toluene-d8	*48.3*		µg/l		*50.0*		*97*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*55.4*		µg/l		*50.0*		*111*	*70-130*		
Surrogate: Dibromofluoromethane	*50.3*		µg/l		*50.0*		*101*	*70-130*		
LCS Dup (1509535-BSD2)					Prepared & Analyzed: 15-May-15					

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1509535 - SW846 5030 Water MS										
LCS Dup (1509535-BSD2)					Prepared & Analyzed: 15-May-15					
Benzene	**18.3**	D	µg/l		20.0		91	70-130	6	20
2-Butanone (MEK)	**21.5**	D	µg/l		20.0		108	70-130	0.7	20
Carbon tetrachloride	**21.9**	D	µg/l		20.0		109	70-130	6	20
Chlorobenzene	**18.3**	D	µg/l		20.0		92	70-130	2	20
Chloroform	**19.9**	D	µg/l		20.0		99	70-130	4	20
1,4-Dichlorobenzene	**20.1**	D	µg/l		20.0		100	70-130	3	20
1,2-Dichloroethane	**20.8**	D	µg/l		20.0		104	70-130	3	20
1,1-Dichloroethene	**17.7**	D	µg/l		20.0		88	70-130	5	20
Hexachlorobutadiene	**23.8**	D	µg/l		20.0		119	70-130	2	20
Tetrachloroethene	**19.4**	D	µg/l		20.0		97	70-130	6	20
Trichloroethene	**16.8**	D	µg/l		20.0		84	70-130	6	20
Vinyl chloride	**17.0**	D	µg/l		20.0		85	70-130	3	20
Surrogate: 4-Bromofluorobenzene	*48.9*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*48.0*		µg/l		*50.0*		*96*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*54.3*		µg/l		*50.0*		*109*	*70-130*		
Surrogate: Dibromofluoromethane	*49.4*		µg/l		*50.0*		*99*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1509444 - SW846 3535A										
Blank (1509444-BLK1)						Prepared & Analyzed: 14-May-15				
Acenaphthene	< 2.13	U	µg/l	2.13						
Acenaphthylene	< 2.16	U	µg/l	2.16						
Aniline	< 2.34	U	µg/l	2.34						
Anthracene	< 2.33	U	µg/l	2.33						
Azobenzene/Diphenyldiazene	< 2.46	U	µg/l	2.46						
Benzidine	< 2.68	U	µg/l	2.68						
Benzo (a) anthracene	< 2.26	U	µg/l	2.26						
Benzo (a) pyrene	< 2.40	U	µg/l	2.40						
Benzo (b) fluoranthene	< 2.08	U	µg/l	2.08						
Benzo (g,h,i) perylene	< 2.40	U	µg/l	2.40						
Benzo (k) fluoranthene	< 2.73	U	µg/l	2.73						
Benzoic acid	< 1.98	U	µg/l	1.98						
Benzyl alcohol	< 2.14	U	µg/l	2.14						
Bis(2-chloroethoxy)methane	< 2.23	U	µg/l	2.23						
Bis(2-chloroethyl)ether	< 2.14	U	µg/l	2.14						
Bis(2-chloroisopropyl)ether	< 2.22	U	µg/l	2.22						
Bis(2-ethylhexyl)phthalate	< 2.34	U	µg/l	2.34						
4-Bromophenyl phenyl ether	< 2.26	U	µg/l	2.26						
Butyl benzyl phthalate	< 2.63	U	µg/l	2.63						
Carbazole	< 2.63	U	µg/l	2.63						
4-Chloro-3-methylphenol	< 2.43	U	µg/l	2.43						
4-Chloroaniline	< 2.63	U	µg/l	2.63						
2-Chloronaphthalene	< 2.00	U	µg/l	2.00						
2-Chlorophenol	< 2.03	U	µg/l	2.03						
4-Chlorophenyl phenyl ether	< 2.34	U	µg/l	2.34						
Chrysene	< 2.33	U	µg/l	2.33						
Dibenzo (a,h) anthracene	< 2.52	U	µg/l	2.52						
Dibenzofuran	< 2.15	U	µg/l	2.15						
1,2-Dichlorobenzene	< 2.05	U	µg/l	2.05						
1,3-Dichlorobenzene	< 2.02	U	µg/l	2.02						
1,4-Dichlorobenzene	< 2.02	U	µg/l	2.02						
3,3´-Dichlorobenzidine	< 2.22	U	µg/l	2.22						
2,4-Dichlorophenol	< 1.84	U	µg/l	1.84						
Diethyl phthalate	< 2.38	U	µg/l	2.38						
Dimethyl phthalate	< 2.28	U	µg/l	2.28						
2,4-Dimethylphenol	< 2.12	U	µg/l	2.12						
Di-n-butyl phthalate	< 2.62	U	µg/l	2.62						
4,6-Dinitro-2-methylphenol	< 2.50	U	µg/l	2.50						
2,4-Dinitrophenol	< 1.87	U	µg/l	1.87						
2,4-Dinitrotoluene	< 2.38	U	µg/l	2.38						
2,6-Dinitrotoluene	< 2.30	U	µg/l	2.30						
Di-n-octyl phthalate	< 2.79	U	µg/l	2.79						
Fluoranthene	< 2.32	U	µg/l	2.32						
Fluorene	< 2.31	U	µg/l	2.31						
Hexachlorobenzene	< 2.15	U	µg/l	2.15						
Hexachlorobutadiene	< 2.03	U	µg/l	2.03						
Hexachlorocyclopentadiene	< 1.55	U	µg/l	1.55						
Hexachloroethane	< 2.15	U	µg/l	2.15						
Indeno (1,2,3-cd) pyrene	< 2.30	U	µg/l	2.30						
Isophorone	< 2.62	U	µg/l	2.62						
2-Methylnaphthalene	< 2.19	U	µg/l	2.19						
2-Methylphenol	< 2.14	U	µg/l	2.14						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1509444 - SW846 3535A										
Blank (1509444-BLK1)					Prepared & Analyzed: 14-May-15					
3 & 4-Methylphenol	< 2.22	U	µg/l	2.22						
Naphthalene	< 2.04	U	µg/l	2.04						
2-Nitroaniline	< 2.34	U	µg/l	2.34						
3-Nitroaniline	< 2.72	U	µg/l	2.72						
4-Nitroaniline	< 2.62	U	µg/l	2.62						
Nitrobenzene	< 2.12	U	µg/l	2.12						
2-Nitrophenol	< 2.20	U	µg/l	2.20						
4-Nitrophenol	< 1.91	U	µg/l	1.91						
N-Nitrosodimethylamine	< 1.84	U	µg/l	1.84						
N-Nitrosodi-n-propylamine	< 2.32	U	µg/l	2.32						
N-Nitrosodiphenylamine	< 2.58	U	µg/l	2.58						
Pentachlorophenol	< 2.15	U	µg/l	2.15						
Phenanthrene	< 2.26	U	µg/l	2.26						
Phenol	< 2.04	U	µg/l	2.04						
Pyrene	< 2.42	U	µg/l	2.42						
Pyridine	< 1.62	U	µg/l	1.62						
1,2,4-Trichlorobenzene	< 1.99	U	µg/l	1.99						
1-Methylnaphthalene	< 1.96	U	µg/l	1.96						
2,4,5-Trichlorophenol	< 2.09	U	µg/l	2.09						
2,4,6-Trichlorophenol	< 1.96	U	µg/l	1.96						
Pentachloronitrobenzene	< 2.22	U	µg/l	2.22						
1,2,4,5-Tetrachlorobenzene	< 1.97	U	µg/l	1.97						
Surrogate: 2-Fluorobiphenyl	*37.0*		µg/l		*52.6*		*70*	*30-130*		
Surrogate: 2-Fluorophenol	*39.1*		µg/l		*52.6*		*74*	*15-110*		
Surrogate: Nitrobenzene-d5	*38.5*		µg/l		*52.6*		*73*	*30-130*		
Surrogate: Phenol-d5	*38.4*		µg/l		*52.6*		*73*	*15-110*		
Surrogate: Terphenyl-dl4	*40.6*		µg/l		*52.6*		*77*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*36.1*		µg/l		*52.6*		*69*	*15-110*		
LCS (1509444-BS1)					Prepared & Analyzed: 14-May-15					
Acenaphthene	**39.3**		µg/l	2.13	50.0		79	40-140		
Acenaphthylene	**40.3**		µg/l	2.16	50.0		81	40-140		
Aniline	**14.6**	QC2	µg/l	2.34	50.0		29	40-140		
Anthracene	**43.0**		µg/l	2.33	50.0		86	40-140		
Azobenzene/Diphenyldiazene	**42.7**		µg/l	2.46	50.0		85	40-140		
Benzidine	**6.24**	QC2	µg/l	2.68	50.0		12	40-140		
Benzo (a) anthracene	**42.6**		µg/l	2.26	50.0		85	40-140		
Benzo (a) pyrene	**45.9**		µg/l	2.40	50.0		92	40-140		
Benzo (b) fluoranthene	**47.4**		µg/l	2.08	50.0		95	40-140		
Benzo (g,h,i) perylene	**42.1**		µg/l	2.40	50.0		84	40-140		
Benzo (k) fluoranthene	**40.0**		µg/l	2.73	50.0		80	40-140		
Benzoic acid	**49.3**		µg/l	1.98	50.0		99	30-130		
Benzyl alcohol	**27.6**		µg/l	2.14	50.0		55	40-140		
Bis(2-chloroethoxy)methane	**38.8**		µg/l	2.23	50.0		78	40-140		
Bis(2-chloroethyl)ether	**37.5**		µg/l	2.14	50.0		75	40-140		
Bis(2-chloroisopropyl)ether	**39.0**		µg/l	2.22	50.0		78	40-140		
Bis(2-ethylhexyl)phthalate	**42.5**		µg/l	2.34	50.0		85	40-140		
4-Bromophenyl phenyl ether	**44.7**		µg/l	2.26	50.0		89	40-140		
Butyl benzyl phthalate	**42.0**		µg/l	2.63	50.0		84	40-140		
Carbazole	**45.9**		µg/l	2.63	50.0		92	40-140		
4-Chloro-3-methylphenol	**45.9**		µg/l	2.43	50.0		92	30-130		
4-Chloroaniline	**17.2**	QC2	µg/l	2.63	50.0		34	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1509444 - SW846 3535A										
LCS (1509444-BS1)					Prepared & Analyzed: 14-May-15					
2-Chloronaphthalene	**39.6**		µg/l	2.00	50.0		79	40-140		
2-Chlorophenol	**40.0**		µg/l	2.03	50.0		80	30-130		
4-Chlorophenyl phenyl ether	**42.5**		µg/l	2.34	50.0		85	40-140		
Chrysene	**41.2**		µg/l	2.33	50.0		82	40-140		
Dibenzo (a,h) anthracene	**44.5**		µg/l	2.52	50.0		89	40-140		
Dibenzofuran	**40.7**		µg/l	2.15	50.0		81	40-140		
1,2-Dichlorobenzene	**39.2**		µg/l	2.05	50.0		78	40-140		
1,3-Dichlorobenzene	**38.5**		µg/l	2.02	50.0		77	40-140		
1,4-Dichlorobenzene	**38.2**		µg/l	2.02	50.0		76	40-140		
3,3´-Dichlorobenzidine	**33.4**		µg/l	2.22	50.0		67	40-140		
2,4-Dichlorophenol	**43.8**		µg/l	1.84	50.0		88	30-130		
Diethyl phthalate	**41.0**		µg/l	2.38	50.0		82	40-140		
Dimethyl phthalate	**40.4**		µg/l	2.28	50.0		81	40-140		
2,4-Dimethylphenol	**43.2**		µg/l	2.12	50.0		86	30-130		
Di-n-butyl phthalate	**43.4**		µg/l	2.62	50.0		87	40-140		
4,6-Dinitro-2-methylphenol	**48.3**		µg/l	2.50	50.0		97	30-130		
2,4-Dinitrophenol	**46.8**		µg/l	1.87	50.0		94	30-130		
2,4-Dinitrotoluene	**47.1**		µg/l	2.38	50.0		94	40-140		
2,6-Dinitrotoluene	**45.7**		µg/l	2.30	50.0		91	40-140		
Di-n-octyl phthalate	**44.0**		µg/l	2.79	50.0		88	40-140		
Fluoranthene	**43.7**		µg/l	2.32	50.0		87	40-140		
Fluorene	**40.7**		µg/l	2.31	50.0		81	40-140		
Hexachlorobenzene	**46.8**		µg/l	2.15	50.0		94	40-140		
Hexachlorobutadiene	**37.6**		µg/l	2.03	50.0		75	40-140		
Hexachlorocyclopentadiene	**41.8**		µg/l	1.55	50.0		84	40-140		
Hexachloroethane	**35.8**		µg/l	2.15	50.0		72	40-140		
Indeno (1,2,3-cd) pyrene	**47.2**		µg/l	2.30	50.0		94	40-140		
Isophorone	**40.4**		µg/l	2.62	50.0		81	40-140		
2-Methylnaphthalene	**44.6**		µg/l	2.19	50.0		89	40-140		
2-Methylphenol	**41.4**		µg/l	2.14	50.0		83	30-130		
3 & 4-Methylphenol	**39.5**		µg/l	2.22	50.0		79	30-130		
Naphthalene	**39.6**		µg/l	2.04	50.0		79	40-140		
2-Nitroaniline	**47.0**		µg/l	2.34	50.0		94	40-140		
3-Nitroaniline	**25.7**		µg/l	2.72	50.0		51	40-140		
4-Nitroaniline	**44.2**		µg/l	2.62	50.0		88	40-140		
Nitrobenzene	**42.0**		µg/l	2.12	50.0		84	40-140		
2-Nitrophenol	**46.0**		µg/l	2.20	50.0		92	30-130		
4-Nitrophenol	**55.6**		µg/l	1.91	50.0		111	30-130		
N-Nitrosodimethylamine	**40.0**		µg/l	1.84	50.0		80	40-140		
N-Nitrosodi-n-propylamine	**41.3**		µg/l	2.32	50.0		83	40-140		
N-Nitrosodiphenylamine	**47.3**		µg/l	2.58	50.0		95	40-140		
Pentachlorophenol	**39.3**		µg/l	2.15	50.0		79	30-130		
Phenanthrene	**43.1**		µg/l	2.26	50.0		86	40-140		
Phenol	**37.7**		µg/l	2.04	50.0		75	30-130		
Pyrene	**41.5**		µg/l	2.42	50.0		83	40-140		
Pyridine	**32.7**		µg/l	1.62	50.0		65	40-140		
1,2,4-Trichlorobenzene	**40.2**		µg/l	1.99	50.0		80	40-140		
1-Methylnaphthalene	**39.8**		µg/l	1.96	50.0		80	40-140		
2,4,5-Trichlorophenol	**44.4**		µg/l	2.09	50.0		89	30-130		
2,4,6-Trichlorophenol	**39.4**		µg/l	1.96	50.0		79	30-130		
Pentachloronitrobenzene	**45.1**		µg/l	2.22	50.0		90	40-140		
1,2,4,5-Tetrachlorobenzene	**42.1**		µg/l	1.97	50.0		84	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1509444 - SW846 3535A										
LCS (1509444-BS1)					Prepared & Analyzed: 14-May-15					
Surrogate: 2-Fluorobiphenyl	*42.0*		µg/l		*50.0*		*84*	*30-130*		
Surrogate: 2-Fluorophenol	*40.5*		µg/l		*50.0*		*81*	*15-110*		
Surrogate: Nitrobenzene-d5	*46.3*		µg/l		*50.0*		*93*	*30-130*		
Surrogate: Phenol-d5	*42.2*		µg/l		*50.0*		*84*	*15-110*		
Surrogate: Terphenyl-dl4	*45.0*		µg/l		*50.0*		*90*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*50.6*		µg/l		*50.0*		*101*	*15-110*		
LCS Dup (1509444-BSD1)					Prepared & Analyzed: 14-May-15					
Acenaphthene	**41.4**		µg/l	2.13	50.0		83	40-140	5	20
Acenaphthylene	**42.4**		µg/l	2.16	50.0		85	40-140	5	20
Aniline	**15.8**	QC2	µg/l	2.34	50.0		32	40-140	8	20
Anthracene	**44.6**		µg/l	2.33	50.0		89	40-140	4	20
Azobenzene/Diphenyldiazene	**45.1**		µg/l	2.46	50.0		90	40-140	6	20
Benzidine	**8.42**	QC2, QR5	µg/l	2.68	50.0		17	40-140	30	20
Benzo (a) anthracene	**46.2**		µg/l	2.26	50.0		92	40-140	8	20
Benzo (a) pyrene	**48.4**		µg/l	2.40	50.0		97	40-140	5	20
Benzo (b) fluoranthene	**49.5**		µg/l	2.08	50.0		99	40-140	4	20
Benzo (g,h,i) perylene	**46.1**		µg/l	2.40	50.0		92	40-140	9	20
Benzo (k) fluoranthene	**43.0**		µg/l	2.73	50.0		86	40-140	7	20
Benzoic acid	**55.2**		µg/l	1.98	50.0		110	30-130	11	20
Benzyl alcohol	**35.5**	QR2	µg/l	2.14	50.0		71	40-140	25	20
Bis(2-chloroethoxy)methane	**41.1**		µg/l	2.23	50.0		82	40-140	6	20
Bis(2-chloroethyl)ether	**40.3**		µg/l	2.14	50.0		81	40-140	7	20
Bis(2-chloroisopropyl)ether	**41.1**		µg/l	2.22	50.0		82	40-140	5	20
Bis(2-ethylhexyl)phthalate	**45.2**		µg/l	2.34	50.0		90	40-140	6	20
4-Bromophenyl phenyl ether	**47.1**		µg/l	2.26	50.0		94	40-140	5	20
Butyl benzyl phthalate	**44.3**		µg/l	2.63	50.0		89	40-140	5	20
Carbazole	**49.7**		µg/l	2.63	50.0		99	40-140	8	20
4-Chloro-3-methylphenol	**46.4**		µg/l	2.43	50.0		93	30-130	1	20
4-Chloroaniline	**15.2**	QC2	µg/l	2.63	50.0		30	40-140	12	20
2-Chloronaphthalene	**41.4**		µg/l	2.00	50.0		83	40-140	4	20
2-Chlorophenol	**43.0**		µg/l	2.03	50.0		86	30-130	7	20
4-Chlorophenyl phenyl ether	**44.9**		µg/l	2.34	50.0		90	40-140	6	20
Chrysene	**43.8**		µg/l	2.33	50.0		88	40-140	6	20
Dibenzo (a,h) anthracene	**47.2**		µg/l	2.52	50.0		94	40-140	6	20
Dibenzofuran	**43.7**		µg/l	2.15	50.0		87	40-140	7	20
1,2-Dichlorobenzene	**40.9**		µg/l	2.05	50.0		82	40-140	4	20
1,3-Dichlorobenzene	**40.8**		µg/l	2.02	50.0		82	40-140	6	20
1,4-Dichlorobenzene	**40.0**		µg/l	2.02	50.0		80	40-140	5	20
3,3´-Dichlorobenzidine	**37.9**		µg/l	2.22	50.0		76	40-140	13	20
2,4-Dichlorophenol	**46.2**		µg/l	1.84	50.0		92	30-130	5	20
Diethyl phthalate	**43.2**		µg/l	2.38	50.0		86	40-140	5	20
Dimethyl phthalate	**42.6**		µg/l	2.28	50.0		85	40-140	5	20
2,4-Dimethylphenol	**44.9**		µg/l	2.12	50.0		90	30-130	4	20
Di-n-butyl phthalate	**45.3**		µg/l	2.62	50.0		91	40-140	4	20
4,6-Dinitro-2-methylphenol	**52.9**		µg/l	2.50	50.0		106	30-130	9	20
2,4-Dinitrophenol	**53.1**		µg/l	1.87	50.0		106	30-130	13	20
2,4-Dinitrotoluene	**51.3**		µg/l	2.38	50.0		103	40-140	9	20
2,6-Dinitrotoluene	**50.2**		µg/l	2.30	50.0		100	40-140	9	20
Di-n-octyl phthalate	**45.7**		µg/l	2.79	50.0		91	40-140	4	20
Fluoranthene	**45.9**		µg/l	2.32	50.0		92	40-140	5	20
Fluorene	**43.2**		µg/l	2.31	50.0		86	40-140	6	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1509444 - SW846 3535A										
LCS Dup (1509444-BSD1)					Prepared & Analyzed: 14-May-15					
Hexachlorobenzene	**49.1**		µg/l	2.15	50.0		98	40-140	5	20
Hexachlorobutadiene	**39.6**		µg/l	2.03	50.0		79	40-140	5	20
Hexachlorocyclopentadiene	**46.4**		µg/l	1.55	50.0		93	40-140	10	20
Hexachloroethane	**37.5**		µg/l	2.15	50.0		75	40-140	5	20
Indeno (1,2,3-cd) pyrene	**51.0**		µg/l	2.30	50.0		102	40-140	8	20
Isophorone	**42.9**		µg/l	2.62	50.0		86	40-140	6	20
2-Methylnaphthalene	**45.8**		µg/l	2.19	50.0		92	40-140	2	20
2-Methylphenol	**43.5**		µg/l	2.14	50.0		87	30-130	5	20
3 & 4-Methylphenol	**41.8**		µg/l	2.22	50.0		84	30-130	6	20
Naphthalene	**41.0**		µg/l	2.04	50.0		82	40-140	3	20
2-Nitroaniline	**49.6**		µg/l	2.34	50.0		99	40-140	5	20
3-Nitroaniline	**20.6**	QR2	µg/l	2.72	50.0		41	40-140	22	20
4-Nitroaniline	**48.6**		µg/l	2.62	50.0		97	40-140	10	20
Nitrobenzene	**43.9**		µg/l	2.12	50.0		88	40-140	4	20
2-Nitrophenol	**49.0**		µg/l	2.20	50.0		98	30-130	6	20
4-Nitrophenol	**62.7**		µg/l	1.91	50.0		125	30-130	12	20
N-Nitrosodimethylamine	**43.0**		µg/l	1.84	50.0		86	40-140	7	20
N-Nitrosodi-n-propylamine	**45.3**		µg/l	2.32	50.0		91	40-140	9	20
N-Nitrosodiphenylamine	**49.9**		µg/l	2.58	50.0		100	40-140	5	20
Pentachlorophenol	**46.6**		µg/l	2.15	50.0		93	30-130	17	20
Phenanthrene	**45.9**		µg/l	2.26	50.0		92	40-140	6	20
Phenol	**40.1**		µg/l	2.04	50.0		80	30-130	6	20
Pyrene	**45.1**		µg/l	2.42	50.0		90	40-140	8	20
Pyridine	**34.3**		µg/l	1.62	50.0		69	40-140	5	20
1,2,4-Trichlorobenzene	**41.7**		µg/l	1.99	50.0		83	40-140	4	20
1-Methylnaphthalene	**41.9**		µg/l	1.96	50.0		84	40-140	5	20
2,4,5-Trichlorophenol	**41.2**		µg/l	2.09	50.0		82	30-130	8	20
2,4,6-Trichlorophenol	**43.2**		µg/l	1.96	50.0		86	30-130	9	20
Pentachloronitrobenzene	**47.8**		µg/l	2.22	50.0		96	40-140	6	20
1,2,4,5-Tetrachlorobenzene	**44.1**		µg/l	1.97	50.0		88	40-140	5	20
Surrogate: 2-Fluorobiphenyl	*42.7*		µg/l		*50.0*		*85*	*30-130*		
Surrogate: 2-Fluorophenol	*41.7*		µg/l		*50.0*		*83*	*15-110*		
Surrogate: Nitrobenzene-d5	*46.9*		µg/l		*50.0*		*94*	*30-130*		
Surrogate: Phenol-d5	*43.6*		µg/l		*50.0*		*87*	*15-110*		
Surrogate: Terphenyl-dl4	*47.0*		µg/l		*50.0*		*94*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*51.6*		µg/l		*50.0*		*103*	*15-110*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1509089 - SW846 3545A										
Blank (1509089-BLK1)					Prepared & Analyzed: 11-May-15					
Aroclor-1016	< 17.8	U	µg/kg wet	17.8						
Aroclor-1016 [2C]	< 10.1	U	µg/kg wet	10.1						
Aroclor-1221	< 15.1	U	µg/kg wet	15.1						
Aroclor-1221 [2C]	< 16.9	U	µg/kg wet	16.9						
Aroclor-1232	< 17.8	U	µg/kg wet	17.8						
Aroclor-1232 [2C]	< 12.9	U	µg/kg wet	12.9						
Aroclor-1242	< 12.3	U	µg/kg wet	12.3						
Aroclor-1242 [2C]	< 11.9	U	µg/kg wet	11.9						
Aroclor-1248	< 12.4	U	µg/kg wet	12.4						
Aroclor-1248 [2C]	< 11.1	U	µg/kg wet	11.1						
Aroclor-1254	< 13.6	U	µg/kg wet	13.6						
Aroclor-1254 [2C]	< 11.1	U	µg/kg wet	11.1						
Aroclor-1260	< 13.9	U	µg/kg wet	13.9						
Aroclor-1260 [2C]	< 12.4	U	µg/kg wet	12.4						
Aroclor-1262	< 17.7	U	µg/kg wet	17.7						
Aroclor-1262 [2C]	< 10.7	U	µg/kg wet	10.7						
Aroclor-1268	< 19.4	U	µg/kg wet	19.4						
Aroclor-1268 [2C]	< 19.0	U	µg/kg wet	19.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*16.8*		µg/kg wet		*19.8*		*85*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*18.8*		µg/kg wet		*19.8*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.8*		µg/kg wet		*19.8*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.8*		µg/kg wet		*19.8*		*105*	*30-150*		
LCS (1509089-BS1)					Prepared & Analyzed: 11-May-15					
Aroclor-1016	**219**		µg/kg wet	17.7	245		89	40-140		
Aroclor-1016 [2C]	**219**		µg/kg wet	9.97	245		89	40-140		
Aroclor-1260	**187**		µg/kg wet	13.7	245		76	40-140		
Aroclor-1260 [2C]	**194**		µg/kg wet	12.3	245		79	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*16.7*		µg/kg wet		*19.6*		*85*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*17.7*		µg/kg wet		*19.6*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.7*		µg/kg wet		*19.6*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.6*		µg/kg wet		*19.6*		*100*	*30-150*		
LCS Dup (1509089-BSD1)					Prepared & Analyzed: 11-May-15					
Aroclor-1016	**220**		µg/kg wet	17.7	245		90	40-140	0.9	30
Aroclor-1016 [2C]	**226**		µg/kg wet	9.96	245		92	40-140	4	30
Aroclor-1260	**186**		µg/kg wet	13.7	245		76	40-140	0.5	30
Aroclor-1260 [2C]	**201**		µg/kg wet	12.2	245		82	40-140	3	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*16.7*		µg/kg wet		*19.6*		*85*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*17.6*		µg/kg wet		*19.6*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*16.7*		µg/kg wet		*19.6*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.6*		µg/kg wet		*19.6*		*100*	*30-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1509320 - SW846 3010A										
Blank (1509320-BLK1)						Prepared: 14-May-15	Analyzed: 15-May-15			
Chromium	**0.0032**	J	mg/l	0.0010						
Silver	< 0.0014	U	mg/l	0.0014						
Cadmium	< 0.0002	U	mg/l	0.0002						
Selenium	**0.0076**	J	mg/l	0.0043						
Barium	**0.0008**	J	mg/l	0.0004						
LCS (1509320-BS1)						Prepared: 14-May-15	Analyzed: 15-May-15			
Silver	**1.22**		mg/l	0.0014	1.25		98	85-115		
Cadmium	**1.09**		mg/l	0.0002	1.25		87	85-115		
Chromium	**1.15**		mg/l	0.0010	1.25		92	85-115		
Selenium	**1.33**		mg/l	0.0043	1.25		107	85-115		
Barium	**1.19**		mg/l	0.0004	1.25		95	85-115		
LCS Dup (1509320-BSD1)						Prepared: 14-May-15	Analyzed: 15-May-15			
Chromium	**1.16**		mg/l	0.0010	1.25		93	85-115	1	20
Cadmium	**1.11**		mg/l	0.0002	1.25		89	85-115	2	20
Silver	**1.28**		mg/l	0.0014	1.25		102	85-115	4	104
Selenium	**1.41**		mg/l	0.0043	1.25		113	85-115	5	20
Barium	**1.22**		mg/l	0.0004	1.25		97	85-115	3	20
Batch 1509321 - EPA200/SW7000 Series										
Blank (1509321-BLK1)						Prepared: 14-May-15	Analyzed: 15-May-15			
Mercury	< 0.00009	U	mg/l	0.00009						
LCS (1509321-BS1)						Prepared: 14-May-15	Analyzed: 15-May-15			
Mercury	**0.00493**		mg/l	0.00009	0.00500		99	85-115		
Batch 1509548 - SW846 3010A										
Blank (1509548-BLK1)						Prepared: 14-May-15	Analyzed: 15-May-15			
Lead	< 0.0018	U	mg/l	0.0018						
Arsenic	**0.0036**	J	mg/l	0.0026						
LCS (1509548-BS1)						Prepared: 14-May-15	Analyzed: 15-May-15			
Lead	**1.16**		mg/l	0.0018	1.25		92	85-115		
Arsenic	**1.20**		mg/l	0.0026	1.25		96	85-115		
LCS Dup (1509548-BSD1)						Prepared: 14-May-15	Analyzed: 15-May-15			
Arsenic	**1.14**		mg/l	0.0026	1.25		91	85-115	5	20
Lead	**1.11**		mg/l	0.0018	1.25		89	85-115	4	20

Toxicity Characteristics - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1508980 - General Preparation										
Duplicate (1508980-DUP1)			**Source: SC07186-04**			Prepared & Analyzed: 08-May-15				
Ignitability by Definition	**Negative**		N/A			Negative				35
Batch 1509150 - General Preparation										
Duplicate (1509150-DUP1)			**Source: SC07186-01**			Prepared & Analyzed: 11-May-15				
pH	**8.27**		pH Units			8.24			0.4	5
Reference (1509150-SRM1)						Prepared & Analyzed: 11-May-15				
pH	**6.04**		pH Units		6.00		101	97.5-102.5		
Reference (1509150-SRM2)						Prepared & Analyzed: 11-May-15				
pH	**6.07**		pH Units		6.00		101	97.5-102.5		
Batch 1509189 - General Preparation										
Blank (1509189-BLK1)						Prepared & Analyzed: 11-May-15				
Reactivity	**See Narrative**		mg/kg wet							
Reactive Cyanide	< 25.0	U	mg/kg wet	25.0						
Reactive Sulfide	< 50.0	U	mg/kg wet	50.0						
Duplicate (1509189-DUP1)			**Source: SC07186-01**			Prepared & Analyzed: 11-May-15				
Reactivity	**See Narrative**		mg/kg dry			ee Narrativ				200
Reactive Cyanide	< 25.0	U	mg/kg dry	25.0		BRL				35
Reactive Sulfide	< 50.0	U	mg/kg dry	50.0		BRL				35
Reference (1509189-SRM1)						Prepared & Analyzed: 11-May-15				
Reactive Cyanide	< 25.0	U	mg/kg wet	25.0	600		0	0-200		
Reference (1509189-SRM2)						Prepared & Analyzed: 11-May-15				
Reactive Sulfide	**56.1**		mg/kg wet	50.0	40200		0.1	0-200		
Batch 1509275 - General Preparation										
Reference (1509275-SRM1)						Prepared & Analyzed: 12-May-15				
Flashpoint	**80**		°F		81.0		99	95-105		

Notes and Definitions

D	Data reported from a dilution
IgHT	A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR5	RPD out of acceptance range.
U	Analyte included in the analysis, but not detected at or above the MDL.
Z-2	Standard was rerun and passed within the method criteria
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
pH	The method for pH does not stipulate a specific holding time other than to state that the samples should be analyzed as soon as possible. For aqueous samples the 40 CFR 136 specifies a holding time of 15 minutes from sampling to analysis. Therefore all aqueous pH samples not analyzed in the field are considered out of hold time at the time of sample receipt. All soil samples are analyzed as soon as possible after sample receipt.

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:
Rebecca Merz

SC07186

SPECTRUM ANALYTICAL, INC.
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HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- [x] Standard TAT - 7 to 10 business days
- [ ] Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: Attn: Greg Lesniak
Barton and Loguidice
11 Centre Park Suite 203
Rochester, NY 14614
Telephone #: 585-325-7190
Project Mgr: Greg Lesniak

Invoice To: B+L

P.O No.: _____ Quote/RQN: _____

Project No: 1537.005.001
Site Name: Pioneer Middle Arc.
Location: Syracuse, NY State: NY
Sampler(s): Matt J. Kudlak

F=Field Filtered **1**=$Na_2S_2O_3$ **2**=HCl **3**=H_2SO_4 **4**=HNO_3 **5**=NaOH **6**=Ascorbic Acid
7=CH3OH **8**=$NaHSO_4$ **9**=Deionized Water **10**=H_3PO_4 **11**= Ward **12**= _____

DW=Dinking Water **GW**=Groundwater **SW**=Surface Water **WW**=Waste Water
O=Oil **SO**=Soil **SL**=Sludge **A**=Indoor/Ambient Air **SG**=Soil Gas
X1= _____ **X2**= _____ **X3**= _____

G= Grab **C**=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: TCL MS/MSD Stars	RCRA 8	Ignitability	Corrosivity	Flashpoint	Reactivity	Paint Filter	Check if chlorinated
SC07186-01	East Berm	5/6/15	10:30	C	SO		3			X	X	X	X	X	X	X	☐
-02	East Berm - Dupe		10:30	C	SO		3			X	X	X	X	X	X	X	☐
-03	West Berm - Dupe		10:45	C	SO		3			X	X	X	X	X	X	X	☐
-04	West Berm		10:45	C	SO		3			X	X	X	X	X	X	X	☐
																	☐
																	☐
																	☐
																	☐
																	☐
																	☐
																	☐

List Preservative Code below: 11 | 11 | 11 | 11 | 11 | 11 | 11

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☐ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other: _____
State-specific reporting standards:

250 | 125 | IR 3

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	5/6/15	1130
[signature]	Tony Gpa 233	5/7/15	7:05
Tony Gpa 330			
	Jth	5/7/15	1625

Temp °C: Observed 2.3 | Correction Factor 0 | Corrected 2.3 | IR ID # 4

☐ EDD format:
☒ E-mail to: gkesniak@bartonandloguidice.com; mkudlak@

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

SC07186 By

SPECTRUM ANALYTICAL, INC.
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HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: ______

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: Attn Greg Lesniak, Barton and Loguidice, 11 Centre Park Suite 203, Rochester, NY 14614

Telephone #: 585-325-7190

Project Mgr: Greg Lesniak

Invoice To: B+L

P.O No.: ______ Quote/RQN: ______

Project No: 1537.005.001

Site Name: Pioneer Midler Ave.

Location: Syracuse, NY State: NY

Sampler(s): Matt J. Kadilak

F=Field Filtered 1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= None 12= ______

DW=Dinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= ______ X2= ______ X3= ______

G= Grab C=Compsite

List Preservative Code below: 11 | 11 | 11 | 11 | 11 | 11 | 11

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	TCLP Metals, SVOCs, VOCs	PCBs	Ignitability	Corrosivity	Flashpoint	Reactivity	Paint Filter	Check if chlorinated
SC07186-01	East Berm	5/6/15	10:30	C	SO		4			X	X	X	X	X	X	X	☐
-02	East Berm - Dupe	↓	10:30	C	SO		4			X	X	X	X	X	X	X	☐
-03	West Berm - Dupe	↓	10:45	C	SO		4			X	X	X	X	X	X	X	☐
-04	West Berm	↓	10:45	C	SO		4			X	X	X	X	X	X	X	☐

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☐ Standard ☐ No QC
☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other: ______
State-specific reporting standards:

4 Jars received per sample, client notified on 5/11

250 / 0 / 25 IR 3

Relinquished by:	Received by:	Date:	Time:	Temp °C
[signature]	[signature]	5/6/15	1130	Observed 2.3
[signature]	Tony Cop 0233	5/7/15	7:05	Correction Factor 0
Tony Cop 0330				Corrected 2.3
	JLH	5/7/15	1625	IR ID # C1

☐ EDD format: ______
☒ E-mail to: glesniak@bartonandloguidice.com, mkadilak@ "

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

CITY OF AUBURN DEPARTMENT OF MUNICIPAL UTILITIES
PETROLEUM CONTAMINATED SOIL TESTING PROTOCOL

- **Physical Characteristics**
  Corrosivity (pH) = Greater than 2 Std. Units and Less Than 12.5 Std. Units
  Ignitability (Flashpoint) = 60°C or 140°F Maximum
  % Solids = 20% Minimum

- **TCLP Laboratory Analysis (40 CFR 261)**

Maximum Concentration of Contaminants for Toxicity Characteristic (mg/L)

Arsenic	5.0
Barium	100.0
Benzene	0.5
Cadmium	1.0
Carbon tetrachloride	0.5
Chlordane	0.03
Chlorobenzene	100.0
Chloroform	6.0
Chromium	5.0
o-Cresol	200.0
m-Cresol	200.0
p-Cresol	200.0
Cresol	200.0
2,4-D	10.0
1,4-Dichlorobenzene	7.5
1,2-Dichloroethane	0.5
1,1-Dichloroethylene	0.7
2,4-Dinitrotoluene	0.13
Endrin	0.02
Heptachlor (and its hydroxide)	0.008

Hexachlorobenzene	0.13
Hexachlorobutadiene	0.5
Hexachloroethane	3.0
Lead	5.0
Lindane	0.4
Mercury	0.2
Methoxychlor	10.0
Methyl ethyl ketone	200.0
Nitrobenzene	2.0
Pentachlorophenol	100.0
Pyridine	5.0
Selenium	1.0
Silver	5.0
Tetrachloroethylene	0.7
Toxaphene	0.5
Trichloroethylene	0.5
2,4,5-Trichlorophenol	400.0
2,4,6-Trichlorophenol	2.0
2,4,5-TP (Silvex)	1.0
Vinyl Chloride	0.2

- **Total PCB Analysis:**
  - PCB's should be analyzed as "total" per EPA Method 8082 or equivalent.

- **Additional Testing Protocols** (If Necessary):
  - Sampling and testing protocols may be modified or increased at any time by the City of Auburn depending on the origin or nature of the material.