

DATA VALIDATION REPORT

FOR

SITE CHARACTERIZATION

FOR

**John's Manville - Riverside Parcel, WV
Project number 13111249**

**Water and Soil Analyses
SDG Nos. 13111249
Sampling Date: November 19-21, 2013**

Submitted to:

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Submitted by:

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Environmental Occupational & Public Health Consultants Inc.
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April 29, 2015

Site: John's Manville- Riverside Parcel, WV
Client: Triad Engineering, Inc.
Analytical Laboratory: ALS
SDG Numbers: 13111149
Sampling Date: November 19-21, 2013
Analyses: VOCS, PAH, Metals and Mercury
Analytical Method: SW8260B, SW8270D-SIMs, SW6020 and SW7470

Summary of Data Validation:

The adherence of laboratory analytical performance to the above method was evaluated during the data validation process. The National Functional Guidelines for Superfund Organic Methods Data Review (June 2008) and the National Functional Guidelines for Inorganic Methods Data Review (2010).

The sample qualifiers applied by the data validator are tabulated in Section 12.0. The detailed discussions can be found in the report.

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- A Validated and Qualified Data Sheets
- B Case Narrative and Chain of Custody

1.0 Sample Identifications

The following table summarizes sample identifications, matrix of each sample and analyses present in the data package for each sample.

Laboratory ID	Client Sample ID	Matrix	VOC	SVOC	Metals	Mercury
SDG 13111249						
13111249-01	SS-1	Soil	X	X	X	X
13111249-02	SS-1 FD	Soil	X	X	X	X
13111249-03	SB-1	Soil	X	X	X	X
13111249-04	SB-1 FD	Soil	X	X	X	X
13111249-05	SS-3	Soil	X	X	X	X
13111249-05	SS-3MS	Soil	X	X	X	X
13111249-05	SS-3MSD	Soil	X	X	X	X
13111249-06	SB-14	Soil	X	X	X	X
13111249-06	SB-14MS	Soil	X	X	X	X
13111249-06	SB-14MSD	Soil	X	X	X	X
13111249-07	TMW-2	Water	X	X	X	X
13111249-07	TMW-2MS	Water	X	X	X	X
13111249-07	TMW-2MSD	Water	X	X	X	X
13111249-08	TMW-4	Water	X	X	X	X
13111249-09	TMW-4 FD	Water	X	X	X	X
13111249-10	Trip	Soil	X			

Total Number of Samples Analyzed

Number of Field Samples Analyzed:	7
Number of QC Samples	9
Total Number of Analyses:	16

2.0 Completeness Checklist

The following table identifies the summary form information and raw data found in the data package. Form numbers shown in parentheses refer to the current U.S. EPA CLP SOW equivalent reporting of results in an alternate summary format that has been determined to be acceptable.

Completeness Checklist

X	Case Narrative
X	Chain of Custody Records/Traffic Reports/Tracking Records
X	Preservation Information
X	Sample Cross Reference with Unique Identifiers
X	Sample Results Summary Form (Form 1/Form 1-TIC)
X	CLP Flagging used on Results Summary
X	SMC/Surrogate Results Summary (Form 2)
X/O	Matrix Spike/Matrix Spike Duplicate Results Summary (Form 3)
O	Laboratory Control Sample (LCS)/ Blank Spike Results Summary (Form 3)
NR	Control Charts
X	Method/Preparation Blank Results Summary (Form 4)
X	Initial Calibration Summary (Forms 6)
X	Continuing Calibration Summary (Form 7)
X	Analytical Sequence (Form 8)
O	Internal Standard Area Summary (Form X11)
	Raw Data (incl. IS, Surr/SMC, RT, quant. Reports, etc.)
X	Samples
X	Initial Calibration
NR	Clean-ups
X	Continuing Calibration
O	Instrument Blanks
X	Preparation Blanks/Method Blanks
O	Other Blanks
X	LCS/Blank Spike
X	Matrix Spikes/Matrix Spike Duplicates
NR	Matrix Duplicates/Replicates
O	Field Blanks
X	Field Duplicates
X	Extraction Log Benchsheets
X	Instrument Run Logs
X	Sample Descriptions
X	Legible Pages
X	Pages in Package Numbered and in Sequence
NR	Electronic Data Deliverable (EDD)

X: Included in original Data Package

NR: Not Required

O: Not Included and/or Not Available

RS: Provided as a Resubmission

X/RS: Incomplete in original data package, completed as a resubmission

3.0 Holding Time

Holding times were within acceptable criteria.

4.0 Chain of Custody Record

The Chain of Custody Record was present.

5.0 Calibration Quality Control

5.1 Initial Calibration (ICAL)

The results were acceptable.

5.2 Continuing Calibration (CCAL)

The following were qualified due to calibration exceedance;

Sample ID	Compound	Qualifier
13111249-09	Bromomethane	UJ
13111249-06	Chloromethane	
13111249-09	2-Butanone	J
13111249-09	2-Butanone	UJ
13111249-05	Bromomethane	UJ
13111249-07	2-Butanone	
13111249-08	Acetone	
13111249-10	2-Hexanone	
	1,1,2,2-Tetrachloroethane	
13111249-02	Acetone	UJ
13111249-03	2-butanone	
13111249-04	Bromoform	
13111249-01	Chloromethane	UJ
	Bromomethane	
	Chloroethane	
	Acetone	
	2-Butanone	

6.0 Blanks Quality Control

The blank results were acceptable.

7.0 Surrogate/Internal Standard Recoveries

Several samples reported internal standard and surrogate issues. This resulted in the following qualification;

Sample ID	Compound	Qualifier
13111249-02	Acenaphthene	R
	Acenaphthylene	R
	Anthracene	R
	Benzo(a)anthracene	R
	Benzo(a)pyrene	J
	Benzo(b)fluoranthene	J
	Benzo(b-k)fluoranthene	R
	Benzo(e)pyrene	R
	Benzo(g,h,i)perylene	R
	Benzo(k)fluoranthene	R
	Chrysene	R
	Dibenzo(a,h)anthracene	R
	Fluoranthene	J
	Fluorene	R
	Indeno(1,2,3-cd)pyrene	R
	Naphthalene	R
	Phenanthrene	R
	Pyrene	J
13111249-05	Acenaphthene	R
	Acenaphthylene	J
	Anthracene	R
	Benzo(a)anthracene	J
	Benzo(a)pyrene	J
	Benzo(b)fluoranthene	J
	Benzo(b-k)fluoranthene	J
	Benzo(e)pyrene	J
	Benzo(g,h,i)perylene	J
	Benzo(k)fluoranthene	J
	Chrysene	J
	Dibenzo(a,h)anthracene	J
	Fluoranthene	J
	Fluorene	R
	Indeno(1,2,3-cd)pyrene	J
Naphthalene	R	

Sample ID	Compound	Qualifier
	Phenanthrene	J
	Pyrene	J

8.0 Accuracy

8.1 Laboratory Control Samples (LCS)/Blank Spikes

Recoveries were acceptable.

8.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The following samples were qualified due to matrix spike recovery issues;

Sample ID	Compound	Qualifier
13111249-01 13111249-02 13111249-05	Arsenic	J
13111249-03 13111249-04 13111249-06	Lead	J

8.3 Serial Dilution

The following were qualified due to relative percent differences that were outside QC criteria;

Sample ID	Compound	Qualifier
13111249-03 13111249-04 13111249-06	Arsenic	J

9.0 Field QC

9.1 Equipment Blank/ Rinse Blank

No rinse/equipment blank was reported.

9.2 Trip Blank

Trip blank reported no contamination.

9.3 Field Duplicate

Samples 13111249-01 (SS-1), 13111249-03 (SB-1) and 13111249-08 (TMW-4) were collected in duplicate and submitted for analyses as 13111249-01 (SS-1FD), 13111249-03 (SB-1FD) and 13111249-08 (TMW-4FD), respectively. The relative percent difference (%RPD) between the original sample and its associated field duplicate sample are listed below. The RPD was

calculated when both results were detected above the reporting limit.

Sample	Duplicate	Compound	%RPD
13111249-08	13111249-09FD	Acetone	18.2
13111249-01	13111249-02FD	Benzo(a)pyrene	149.3
13111249-01	13111249-02FD	Benzo(b)fluoranthene	157.8
13111249-01	13111249-02FD	Fluoranthene	28.1
13111249-01	13111249-02FD	Arsenic	19.4
13111249-01	13111249-02FD	Barium	-39.3
13111249-01	13111249-02FD	Cadmium	-6.2
13111249-01	13111249-02FD	Chromium	-31.1
13111249-01	13111249-02FD	Lead	-10
13111249-01	13111249-02FD	Mercury	-77.6
13111249-03	13111249-04FD	Arsenic	4.4
13111249-03	13111249-04FD	Barium	10
13111249-03	13111249-04FD	Chromium	0
13111249-03	13111249-04FD	Lead	6.1
13111249-03	13111249-04FD	Mercury	18.7

10.0 Target Compound Identification

All compounds were correctly identified.

11.0 Additional Comments

The laboratory reported a transcription error with sample 13111249-05 labeling it as SS-B14, which is 13111249-06. Upon review of the raw data the data validator concluded that the Forms were accurately labeled with the sample numbers. No qualification or resubmittal was necessary.

12.0 Data Qualifier Table

Laboratory Sample ID	Compound	Qualifier	Section Reference
13111249-09 13111249-06	Bromomethane. Chloromethane 2-Butanone	UJ	5.2
13111249-09	2-Butanone	J	5.2
13111249-05 13111249-07 13111249-08 13111249-10	Bromomethane 2-Butanone Acetone 2-Hexanone 1,1,2,2-Tetrachloroethane	UJ	5.2
13111249-02 13111249-03 13111249-04	Acetone 2-butanone Bromoform	UJ	5.2
13111249-01	Chloromethane Bromomethane	UJ	5.2

Laboratory Sample ID	Compound	Qualifier	Section Reference
	Chloroethane Acetone 2-Butanone		
13111249-01	Acenaphthene	R	7.0
	Acenaphthylene	R	
	Anthracene	R	
	Benzo(a)anthracene	R	
	Benzo(a)pyrene	J	
	Benzo(b)fluoranthene	J	
	Benzo(b-k)fluoranthene	R	
	Benzo(e)pyrene	R	
	Benzo(q,h,i)perylene	R	
	Benzo(k)fluoranthene	R	
	Chrysene	R	
	Dibenzo(a,h)anthracene	R	
	Fluoranthene	J	
	Fluorene	R	
	Indeno(1,2,3-cd)pyrene	R	
	Naphthalene	R	
	Phenanthrene	R	
Pyrene	R		
13111249-05	Acenaphthene	R	7.0
	Acenaphthylene	J	
	Anthracene	R	
	Benzo(a)anthracene	J	
	Benzo(a)pyrene	J	
	Benzo(b)fluoranthene	J	
	Benzo(b-k)fluoranthene	J	
	Benzo(e)pyrene	J	
	Benzo(q,h,i)perylene	J	
	Benzo(k)fluoranthene	J	
	Chrysene	J	
	Dibenzo(a,h)anthracene	J	
	Fluoranthene	J	
	Fluorene	R	

Laboratory Sample ID	Compound	Qualifier	Section Reference
	Indeno(1,2,3-cd)pyrene	J	
	Naphthalene	R	
	Phenanthrene	J	
	Pyrene	J	
13111249-01 13111249-02 13111249-05	Arsenic	J	8.2
13111249-03 13111249-04 13111249-06	Lead	J	8.2
13111249-03 13111249-04 13111249-06	Arsenic	J	8.3

ATTACHMENT A

FORM 1s

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SS-1

Lab Name: ALS Group USA, Corp
 Lab Code: MI01262 Case No.: SAS No.: SDG No. 13111249
 Matrix: Soil Lab Sample ID: 13111249-01A
 Sample wt/vol: 5.00 (g/mL) g Lab File ID:
 Level: (low/med) low Date Received: 11/22/2013
 % Moisture: not dec. 13 Date Analyzed: 11/28/2013
 GC Column: DB624 ID: 0.18 (mm Dilution Factor: 1.00
 Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND µg/Kg-dry Q

CAS NO.	COMPOUND	µg/Kg-dry	Q
71-55-6	1,1,1-Trichloroethane	35	U
79-34-5	1,1,2,2-Tetrachloroethane	35	U
79-00-5	1,1,2-Trichloroethane	35	U
75-34-3	1,1-Dichloroethane	35	U
75-35-4	1,1-Dichloroethene	35	U
107-06-2	1,2-Dichloroethane	35	U
540-59-0	1,2-Dichloroethene, Total	69	U
78-87-5	1,2-Dichloropropane	35	U
542-75-6	1,3-Dichloropropene, Total	69	U
78-93-3	2-Butanone	230	U
591-78-6	2-Hexanone	35	U
108-10-1	4-Methyl-2-pentanone	35	U
67-64-1	Acetone	120	U
71-43-2	Benzene	35	U
75-27-4	Bromodichloromethane	35	U
75-25-2	Bromoform	35	U
74-83-9	Bromomethane	86	U
75-15-0	Carbon disulfide	35	U
56-23-5	Carbon tetrachloride	35	U
108-90-7	Chlorobenzene	35	U
75-00-3	Chloroethane	120	U
67-66-3	Chloroform	35	U
74-87-3	Chloromethane	120	U
156-59-2	cis-1,2-Dichloroethene	35	U
10061-01-5	cis-1,3-Dichloropropene	35	U
124-48-1	Dibromochloromethane	35	U
100-41-4	Ethylbenzene	35	U
M/P-XYLENE	m,p-Xylene	69	U
75-09-2	Methylene chloride	35	U
95-47-6	o-Xylene	35	U
100-42-5	Styrene	35	U
127-18-4	Tetrachloroethene	35	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SS-1

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.:

SAS No.:

SDG No. 13111249

Matrix:

Soil

Lab Sample ID: 13111249-01A

Sample wt/vol:

5.00 (g/mL) g

Lab File ID:

Level:

(low/med) low

Date Received: 11/22/2013

% Moisture: not dec.

13

Date Analyzed: 11/28/2013

GC Column:

DB624

ID: 0.18 (mm)

Dilution Factor: 1.00

Soil Extract Volume:

(mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

µg/Kg-dry Q

108-88-3	Toluene	35	U
156-60-5	trans-1,2-Dichloroethene	35	U
10061-02-6	trans-1,3-Dichloropropene	35	U
79-01-6	Trichloroethene	35	U
75-01-4	Vinyl chloride	35	U
1330-20-7	Xylenes, Total	100	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SS-1 FD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 13111249

Matrix: Soil Lab Sample ID: 13111249-02A

Sample wt/vol: 5.00 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 11/22/2013

% Moisture: not dec. 13 Date Analyzed: 11/28/2013

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg-dry	Q
71-55-6	1,1,1-Trichloroethane	35	U
79-34-5	1,1,2,2-Tetrachloroethane	35	U
79-00-5	1,1,2-Trichloroethane	35	U
75-34-3	1,1-Dichloroethane	35	U
75-35-4	1,1-Dichloroethene	35	U
107-06-2	1,2-Dichloroethane	35	U
540-59-0	1,2-Dichloroethene, Total	69	U
78-87-5	1,2-Dichloropropane	35	U
542-75-6	1,3-Dichloropropene, Total	69	U
78-93-3	2-Butanone	230	U
591-78-6	2-Hexanone	35	U
108-10-1	4-Methyl-2-pentanone	35	U
67-64-1	Acetone	120	U
71-43-2	Benzene	35	U
75-27-4	Bromodichloromethane	35	U
75-25-2	Bromoform	35	U
74-83-9	Bromomethane	86	U
75-15-0	Carbon disulfide	35	U
56-23-5	Carbon tetrachloride	35	U
108-90-7	Chlorobenzene	35	U
75-00-3	Chloroethane	120	U
67-66-3	Chloroform	35	U
74-87-3	Chloromethane	120	U
156-59-2	cis-1,2-Dichloroethene	35	U
10061-01-5	cis-1,3-Dichloropropene	35	U
124-48-1	Dibromochloromethane	35	U
100-41-4	Ethylbenzene	35	U
M/P-XYLENE	m,p-Xylene	69	JU
75-09-2	Methylene chloride	35	U
95-47-6	o-Xylene	35	U
100-42-5	Styrene	35	U
127-18-4	Tetrachloroethene	35	U

1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

SS-1 FD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.:

SAS No.:

SDG No. 13111249

Matrix: Soil

Lab Sample ID: 13111249-02A

Sample wt/vol: 5.00 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 11/22/2013

% Moisture: not dec. 13

Date Analyzed: 11/28/2013

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

µg/Kg-dry Q

108-88-3	Toluene	35	U
156-60-5	trans-1,2-Dichloroethene	35	U
10061-02-6	trans-1,3-Dichloropropene	35	U
79-01-6	Trichloroethene	35	U
75-01-4	Vinyl chloride	35	U
1330-20-7	Xylenes, Total	100	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB-1

Lab Name: ALS Group USA, CorpLab Code: MI01262

Case No.:

SAS No.:

SDG No. 13111249Matrix: SoilLab Sample ID: 13111249-03ASample wt/vol: 5.00 (g/mL) g

Lab File ID:

Level: (low/med) lowDate Received: 11/22/2013% Moisture: not dec. 20Date Analyzed: 11/28/2013GC Column: DB624 ID: 0.18 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND µg/Kg-dry Q

71-55-6	1,1,1-Trichloroethane	37	U
79-34-5	1,1,2,2-Tetrachloroethane	37	U
79-00-5	1,1,2-Trichloroethane	37	U
75-34-3	1,1-Dichloroethane	37	U
75-35-4	1,1-Dichloroethene	37	U
107-06-2	1,2-Dichloroethane	37	U
540-59-0	1,2-Dichloroethene, Total	75	U
78-87-5	1,2-Dichloropropane	37	U
542-75-6	1,3-Dichloropropene, Total	75	U
78-93-3	2-Butanone	250	U
591-78-6	2-Hexanone	37	U
108-10-1	4-Methyl-2-pentanone	37	U
67-64-1	Acetone	120	U
71-43-2	Benzene	37	U
75-27-4	Bromodichloromethane	37	U
75-25-2	Bromoform	37	U
74-83-9	Bromomethane	94	U
75-15-0	Carbon disulfide	37	U
56-23-5	Carbon tetrachloride	37	U
108-90-7	Chlorobenzene	37	U
75-00-3	Chloroethane	120	U
67-66-3	Chloroform	37	U
74-87-3	Chloromethane	120	U
156-59-2	cis-1,2-Dichloroethene	37	U
10061-01-5	cis-1,3-Dichloropropene	37	U
124-48-1	Dibromochloromethane	37	U
100-41-4	Ethylbenzene	37	U
M/P-XYLENE	m,p-Xylene	75	U
75-09-2	Methylene chloride	37	U
95-47-6	o-Xylene	37	U
100-42-5	Styrene	37	U
127-18-4	Tetrachloroethene	37	U

1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

SB-1

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 13111249

Matrix: Soil Lab Sample ID: 13111249-03A

Sample wt/vol: 5.00 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 11/22/2013

% Moisture: not dec. 20 Date Analyzed: 11/28/2013

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND µg/Kg-dry Q

108-88-3	Toluene	37	U
156-60-5	trans-1,2-Dichloroethene	37	U
10061-02-6	trans-1,3-Dichloropropene	37	U
79-01-6	Trichloroethene	37	U
75-01-4	Vinyl chloride	37	U
1330-20-7	Xylenes, Total	110	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SB-1 FD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 13111249

Matrix: Soil Lab Sample ID: 13111249-04A

Sample wt/vol: 5.00 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 11/22/2013

% Moisture: not dec. 16 Date Analyzed: 11/28/2013

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND µg/Kg-dry Q

71-55-6	1,1,1-Trichloroethane	36	U
79-34-5	1,1,2,2-Tetrachloroethane	36	U
79-00-5	1,1,2-Trichloroethane	36	U
75-34-3	1,1-Dichloroethane	36	U
75-35-4	1,1-Dichloroethene	36	U
107-06-2	1,2-Dichloroethane	36	U
540-59-0	1,2-Dichloroethene, Total	71	U
78-87-5	1,2-Dichloropropane	36	U
542-75-6	1,3-Dichloropropene, Total	71	U
78-93-3	2-Butanone	240	U
591-78-6	2-Hexanone	36	U
108-10-1	4-Methyl-2-pentanone	36	U
67-64-1	Acetone	120	U
71-43-2	Benzene	36	U
75-27-4	Bromodichloromethane	36	U
75-25-2	Bromoform	36	U
74-83-9	Bromomethane	89	U
75-15-0	Carbon disulfide	36	U
56-23-5	Carbon tetrachloride	36	U
108-90-7	Chlorobenzene	36	U
75-00-3	Chloroethane	120	U
67-66-3	Chloroform	36	U
74-87-3	Chloromethane	120	U
156-59-2	cis-1,2-Dichloroethene	36	U
10061-01-5	cis-1,3-Dichloropropene	36	U
124-48-1	Dibromochloromethane	36	U
100-41-4	Ethylbenzene	36	U
M/P-XYLENE	m,p-Xylene	71	U
75-09-2	Methylene chloride	36	U
95-47-6	o-Xylene	36	U
100-42-5	Styrene	36	U
127-18-4	Tetrachloroethene	36	U

1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

SB-1 FD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 13111249
 Matrix: Soil Lab Sample ID: 13111249-04A
 Sample wt/vol: 5.00 (g/mL) g Lab File ID:
 Level: (low/med) low Date Received: 11/22/2013
 % Moisture: not dec. 16 Date Analyzed: 11/28/2013
 GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>µg/Kg-dry</u> Q	
108-88-3	Toluene	36	U
156-60-5	trans-1,2-Dichloroethene	36	U
10061-02-6	trans-1,3-Dichloropropene	36	U
79-01-6	Trichloroethene	36	U
75-01-4	Vinyl chloride	36	U
1330-20-7	Xylenes, Total	110	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SS-3

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 13111249

Matrix: Soil Lab Sample ID: 13111249-05A

Sample wt/vol: 5.00 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 11/22/2013

% Moisture: not dec. 14 Date Analyzed: 11/30/2013

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/Kg-dry	Q
71-55-6	1,1,1-Trichloroethane	35	U
79-34-5	1,1,2,2-Tetrachloroethane	35	U
79-00-5	1,1,2-Trichloroethane	35	U
75-34-3	1,1-Dichloroethane	35	U
75-35-4	1,1-Dichloroethene	35	U
107-06-2	1,2-Dichloroethane	35	U
540-59-0	1,2-Dichloroethene, Total	70	U
78-87-5	1,2-Dichloropropane	35	U
542-75-6	1,3-Dichloropropene, Total	70	U
78-93-3	2-Butanone	230	U
591-78-6	2-Hexanone	35	U
108-10-1	4-Methyl-2-pentanone	35	U
67-64-1	Acetone	120	U
71-43-2	Benzene	35	U
75-27-4	Bromodichloromethane	35	U
75-25-2	Bromoform	35	U
74-83-9	Bromomethane	88	U
75-15-0	Carbon disulfide	35	U
56-23-5	Carbon tetrachloride	35	U
108-90-7	Chlorobenzene	35	U
75-00-3	Chloroethane	120	U
67-66-3	Chloroform	35	U
74-87-3	Chloromethane	120	U
156-59-2	cis-1,2-Dichloroethene	35	U
10061-01-5	cis-1,3-Dichloropropene	35	U
124-48-1	Dibromochloromethane	35	U
100-41-4	Ethylbenzene	35	U
M/P-XYLENE	m,p-Xylene	70	U
75-09-2	Methylene chloride	35	U
95-47-6	o-Xylene	35	U
100-42-5	Styrene	35	U
127-18-4	Tetrachloroethene	35	U

1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

SS-3

Lab Name: ALS Group USA, Corp
 Lab Code: MI01262 Case No.: SAS No.: SDG No. 13111249
 Matrix: Soil Lab Sample ID: 13111249-05A
 Sample wt/vol: 5.00 (g/mL) g Lab File ID:
 Level: (low/med) low Date Received: 11/22/2013
 % Moisture: not dec. 14 Date Analyzed: 11/30/2013
 GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/Kg-dry Q	
108-88-3	Toluene	35	U
156-60-5	trans-1,2-Dichloroethene	35	U
10061-02-6	trans-1,3-Dichloropropene	35	U
79-01-6	Trichloroethene	35	U
75-01-4	Vinyl chloride	35	U
1330-20-7	Xylenes, Total	110	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB-14

Lab Name: ALS Group USA, CorpLab Code: MI01262

Case No.:

SAS No.:

SDG No. 13111249Matrix: SoilLab Sample ID: 13111249-06ASample wt/vol: 5.00 (g/mL) g

Lab File ID:

Level: (low/med) lowDate Received: 11/22/2013% Moisture: not dec. 22Date Analyzed: 11/28/2013GC Column: DB624 ID: 0.18 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

 $\mu\text{g/Kg-dry}$ Q

CAS NO.	COMPOUND	$\mu\text{g/Kg-dry}$	Q
71-55-6	1,1,1-Trichloroethane	39	U
79-34-5	1,1,2,2-Tetrachloroethane	39	U
79-00-5	1,1,2-Trichloroethane	39	U
75-34-3	1,1-Dichloroethane	39	U
75-35-4	1,1-Dichloroethene	39	U
107-06-2	1,2-Dichloroethane	39	U
540-59-0	1,2-Dichloroethene, Total	77	U
78-87-5	1,2-Dichloropropane	39	U
542-75-6	1,3-Dichloropropene, Total	77	U
78-93-3	2-Butanone	260	U J
591-78-6	2-Hexanone	39	U
108-10-1	4-Methyl-2-pentanone	39	U
67-64-1	Acetone	130	U
71-43-2	Benzene	39	U
75-27-4	Bromodichloromethane	39	U
75-25-2	Bromoform	39	U
74-83-9	Bromomethane	96	U J
75-15-0	Carbon disulfide	39	U
56-23-5	Carbon tetrachloride	39	U
108-90-7	Chlorobenzene	39	U
75-00-3	Chloroethane	130	U
67-66-3	Chloroform	39	U
74-87-3	Chloromethane	130	U J
156-59-2	cis-1,2-Dichloroethene	39	U
10061-01-5	cis-1,3-Dichloropropene	39	U
124-48-1	Dibromochloromethane	39	U
100-41-4	Ethylbenzene	39	U
M/P-XYLENE	m,p-Xylene	77	U
75-09-2	Methylene chloride	39	U
95-47-6	o-Xylene	39	U
100-42-5	Styrene	39	U
127-18-4	Tetrachloroethene	39	U

1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

SB-14

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 13111249

Matrix: Soil Lab Sample ID: 13111249-06A

Sample wt/vol: 5.00 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 11/22/2013

% Moisture: not dec. 22 Date Analyzed: 11/28/2013

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND µg/Kg-dry Q

108-88-3	Toluene	39	U
156-60-5	trans-1,2-Dichloroethene	39	U
10061-02-6	trans-1,3-Dichloropropene	39	U
79-01-6	Trichloroethene	39	U
75-01-4	Vinyl chloride	39	U
1330-20-7	Xylenes, Total	120	U

1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

TMW-2

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.:

SAS No.:

SDG No. 13111249

Matrix: Water

Lab Sample ID: 13111249-07A

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID:

Level: (low/med) low

Date Received: 11/22/2013

% Moisture: not dec. 0

Date Analyzed: 11/30/2013

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/L	Q
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U J
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
540-59-0	1,2-Dichloroethene, Total	2.0	U
78-87-5	1,2-Dichloropropane	2.0	U
542-75-6	1,3-Dichloropropene, Total	2.0	U
78-93-3	2-Butanone	5.0	U J
591-78-6	2-Hexanone	5.0	U J
108-10-1	4-Methyl-2-pentanone	5.0	U J
67-64-1	Acetone	20	U J
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U B
75-15-0	Carbon disulfide	2.5	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
M/P-XYLENE	m,p-Xylene	2.0	U
75-09-2	Methylene chloride	5.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethene	2.0	U

1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

TMW-2

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 13111249

Matrix: Water Lab Sample ID: 13111249-07A

Sample wt/vol: 5.00 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 11/22/2013

% Moisture: not dec. 0 Date Analyzed: 11/30/2013

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>µg/L</u>	<u>Q</u>
108-88-3	Toluene	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes, Total	3.0	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

TMW-4

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.:

SAS No.:

SDG No. 13111249

Matrix: Water

Lab Sample ID: 13111249-08A

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID:

Level: (low/med) low

Date Received: 11/22/2013

% Moisture: not dec. 0

Date Analyzed: 11/30/2013

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/L	Q
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
540-59-0	1,2-Dichloroethene, Total	2.0	U
78-87-5	1,2-Dichloropropane	2.0	U
542-75-6	1,3-Dichloropropene, Total	2.0	U
78-93-3	2-Butanone	5.0	U
591-78-6	2-Hexanone	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
67-64-1	Acetone	20	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon disulfide	2.5	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
M/P-XYLENE	m,p-Xylene	2.0	U
75-09-2	Methylene chloride	5.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethene	2.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

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CLIENT SAMPLE NO.

TMW-4

Lab Name: ALS Group USA, Corp
 Lab Code: MI01262 Case No.: SAS No.: SDG No. 13111249
 Matrix: Water Lab Sample ID: 13111249-08A
 Sample wt/vol: 5.00 (g/mL) mL Lab File ID:
 Level: (low/med) low Date Received: 11/22/2013
 % Moisture: not dec. 0 Date Analyzed: 11/30/2013
 GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/L	Q
108-88-3	Toluene	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes, Total	3.0	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

TMW-4 FD

Lab Name: ALS Group USA, CorpLab Code: MI01262

Case No.:

SAS No.:

SDG No. 13111249Matrix: WaterLab Sample ID: 13111249-09ASample wt/vol: 5.00 (g/mL) mL

Lab File ID:

Level: (low/med) lowDate Received: 11/22/2013% Moisture: not dec. 0Date Analyzed: 12/2/2013GC Column: DB624 ID: 0.18 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>µg/L</u>	<u>Q</u>
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
540-59-0	1,2-Dichloroethene, Total	2.0	U
78-87-5	1,2-Dichloropropane	2.0	U
542-75-6	1,3-Dichloropropene, Total	2.0	U
78-93-3	2-Butanone	8.9	U
591-78-6	2-Hexanone	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
67-64-1	Acetone	24	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon disulfide	2.5	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
M/P-XYLENE	m,p-Xylene	2.0	U
75-09-2	Methylene chloride	5.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethene	2.0	U

1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

TMW-4 FD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 13111249

Matrix: Water Lab Sample ID: 13111249-09A

Sample wt/vol: 5.00 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 11/22/2013

% Moisture: not dec. 0 Date Analyzed: 12/2/2013

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/L	Q
108-88-3	Toluene	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes, Total	3.0	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Trip Blank

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 13111249

Matrix: Water Lab Sample ID: 13111249-10A

Sample wt/vol: 5.00 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 11/22/2013

% Moisture: not dec. 0 Date Analyzed: 11/30/2013

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/L	Q
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
540-59-0	1,2-Dichloroethene, Total	2.0	U
78-87-5	1,2-Dichloropropane	2.0	U
542-75-6	1,3-Dichloropropene, Total	2.0	U
78-93-3	2-Butanone	5.0	U
591-78-6	2-Hexanone	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
67-64-1	Acetone	20	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon disulfide	2.5	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
M/P-XYLENE	m,p-Xylene	2.0	U
75-09-2	Methylene chloride	5.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethene	2.0	U

1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

Trip Blank

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 13111249

Matrix: Water Lab Sample ID: 13111249-10A

Sample wt/vol: 5.00 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 11/22/2013

% Moisture: not dec. 0 Date Analyzed: 11/30/2013

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>µg/L</u>	<u>Q</u>
108-88-3	Toluene	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes, Total	3.0	U

1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Matrix: Soil

Sample wt/vol: 30,051 (g/mL) g

Level: (low/med) low

% Moisture: not dec. 13

Concentrated Extract Volume: 1000 (uL)

Injection Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH 0

SS-1

SDG No. 13111249

Lab Sample ID: 13111249-01B

Lab File ID:

Date Received: 11/22/2013

Date Extracted 11/27/2013

Date Analyzed: 11/27/2013

Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/Kg-dry Q	
83-32-9	Acenaphthene	3.8	U
208-96-8	Acenaphthylene	5.4	
120-12-7	Anthracene	6.1	
56-55-3	Benzo(a)anthracene	31	
50-32-8	Benzo(a)pyrene	29	
205-99-2	Benzo(b)fluoranthene	39	
DMO-412-11	Benzo(b-k)fluoranthene	58	
192-97-2	Benzo(e)pyrene	29	
191-24-2	Benzo(g,h,i)perylene	20	
207-08-9	Benzo(k)fluoranthene	19	
218-01-9	Chrysene	33	
53-70-3	Dibenzo(a,h)anthracene	6.1	
206-44-0	Fluoranthene	5.4	
86-73-7	Fluorene	3.8	JU
193-39-5	Indeno(1,2,3-cd)pyrene	17	
91-20-3	Naphthalene	3.8	JU
85-01-8	Phenanthrene	23	
129-00-0	Pyrene	47	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SS-1 FDDL

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

SDG No. 13111249

Matrix: Soil

Lab Sample ID: 13111249-02B

Sample wt/vol: 30,114 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 11/22/2013

% Moisture: not dec. 13

Date Extracted 11/27/2013

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/27/2013

Injection Volume: 1 (uL)

Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>µg/Kg-dry Q</u>	
83-32-9	Acenaphthene	38	UD
208-96-8	Acenaphthylene	38	JUD
120-12-7	Anthracene	38	JUD
56-55-3	Benzo(a)anthracene	38	JUD
50-32-8	Benzo(a)pyrene	42	D
205-99-2	Benzo(b)fluoranthene	46	D
DMO-412-11	Benzo(b-k)fluoranthene	76	JUD
192-97-2	Benzo(e)pyrene	110	UD
191-24-2	Benzo(g,h,i)perylene	38	JUD
207-08-9	Benzo(k)fluoranthene	38	JUD
218-01-9	Chrysene	38	JUD
53-70-3	Dibenzo(a,h)anthracene	38	JUD
206-44-0	Fluoranthene	46	D
86-73-7	Fluorene	38	UD
193-39-5	Indeno(1,2,3-cd)pyrene	38	JUD
91-20-3	Naphthalene	38	JUD
85-01-8	Phenanthrene	38	JUD
129-00-0	Pyrene	42	D

1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Matrix: Soil

Sample wt/vol: 30,783 (g/mL) g

Level: (low/med) low

% Moisture: not dec. 20

Concentrated Extract Volume: 1000 (uL)

Injection Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH 0

SB-1

SDG No. 13111249

Lab Sample ID: 13111249-03B

Lab File ID:

Date Received: 11/22/2013

Date Extracted 11/27/2013

Date Analyzed: 11/27/2013

Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>µg/Kg-dry Q</u>	
83-32-9	Acenaphthene	4.1	U
208-96-8	Acenaphthylene	4.1	U
120-12-7	Anthracene	4.1	U
56-55-3	Benzo(a)anthracene	4.1	U
50-32-8	Benzo(a)pyrene	4.1	U
205-99-2	Benzo(b)fluoranthene	4.1	U
DMO-412-11	Benzo(b-k)fluoranthene	8.1	U
192-97-2	Benzo(e)pyrene	12	U
191-24-2	Benzo(g,h,i)perylene	4.1	U
207-08-9	Benzo(k)fluoranthene	4.1	U
218-01-9	Chrysene	4.1	U
53-70-3	Dibenzo(a,h)anthracene	4.1	U
206-44-0	Fluoranthene	4.1	U
86-73-7	Fluorene	4.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.1	U
91-20-3	Naphthalene	4.1	U
85-01-8	Phenanthrene	4.1	U
129-00-0	Pyrene	4.1	U

1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-1 FD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

SDG No. 13111249

Matrix: Soil

Lab Sample ID: 13111249-04B

Sample wt/vol: 30,469 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 11/22/2013

% Moisture: not dec. 16

Date Extracted 11/27/2013

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/27/2013

Injection Volume: 1 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>µg/Kg-dry Q</u>	
83-32-9	Acenaphthene	3.9	U
208-96-8	Acenaphthylene	3.9	U
120-12-7	Anthracene	3.9	U
56-55-3	Benzo(a)anthracene	3.9	U
50-32-8	Benzo(a)pyrene	3.9	U
205-99-2	Benzo(b)fluoranthene	3.9	U
DMO-412-11	Benzo(b-k)fluoranthene	7.8	U
192-97-2	Benzo(e)pyrene	12	U
191-24-2	Benzo(g,h,i)perylene	3.9	U
207-08-9	Benzo(k)fluoranthene	3.9	U
218-01-9	Chrysene	3.9	U
53-70-3	Dibenzo(a,h)anthracene	3.9	U
206-44-0	Fluoranthene	3.9	U
86-73-7	Fluorene	3.9	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.9	U
91-20-3	Naphthalene	3.9	U
85-01-8	Phenanthrene	3.9	U
129-00-0	Pyrene	3.9	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SS-3DL

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

SDG No. 13111249

Matrix: Soil

Lab Sample ID: 13111249-05B

Sample wt/vol: 30,028 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 11/22/2013

% Moisture: not dec. 14

Date Extracted 11/27/2013

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/27/2013

Injection Volume: 1 (uL)

Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	$\mu\text{g/Kg-dry } Q$	
83-32-9	Acenaphthene	39	UD R
208-96-8	Acenaphthylene	90	D R
120-12-7	Anthracene	39	JUD R
56-55-3	Benzo (a) anthracene	260	D
50-32-8	Benzo (a) pyrene	320	D
205-99-2	Benzo (b) fluoranthene	410	D
DMO-412-11	Benzo (b-k) fluoranthene	580	D
192-97-2	Benzo (e) pyrene	310	D
191-24-2	Benzo (g, h, i) perylene	290	D
207-08-9	Benzo (k) fluoranthene	170	D
218-01-9	Chrysene	250	D
53-70-3	Dibenzo (a, h) anthracene	62	D
206-44-0	Fluoranthene	330	D
86-73-7	Fluorene	39	UD R
193-39-5	Indeno (1, 2, 3-cd) pyrene	220	D R
91-20-3	Naphthalene	39	UD R
85-01-8	Phenanthrene	43	D R
129-00-0	Pyrene	430	D R

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-14

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

SDG No. 13111249

Matrix: Soil

Lab Sample ID: 13111249-06B

Sample wt/vol: 30,373 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 11/22/2013

% Moisture: not dec. 22

Date Extracted 11/27/2013

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/27/2013

Injection Volume: 1 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>µg/Kg-dry Q</u>	
83-32-9	Acenaphthene	4.2	U
208-96-8	Acenaphthylene	4.2	JU
120-12-7	Anthracene	4.2	JU
56-55-3	Benzo(a)anthracene	4.2	J
50-32-8	Benzo(a)pyrene	5.5	
205-99-2	Benzo(b)fluoranthene	6.3	
DMO-412-11	Benzo(b-k)fluoranthene	8.9	
192-97-2	Benzo(e)pyrene	13	U
191-24-2	Benzo(g,h,i)perylene	4.2	JU
207-08-9	Benzo(k)fluoranthene	4.2	JU
218-01-9	Chrysene	4.2	JU
53-70-3	Dibenzo(a,h)anthracene	4.2	JU
206-44-0	Fluoranthene	5.1	
86-73-7	Fluorene	4.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.2	J
91-20-3	Naphthalene	4.2	U
85-01-8	Phenanthrene	4.2	JU
129-00-0	Pyrene	5.9	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TMW-2

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

SDG No. 13111249

Matrix: Water

Lab Sample ID: 13111249-07B

Sample wt/vol: 1,000. (g/mL) mL

Lab File ID:

Level: (low/med) low

Date Received: 11/22/2013

% Moisture: not dec. 0

Date Extracted 11/27/2013

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/27/2013

Injection Volume: 1 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>µg/L</u>	<u>Q</u>
83-32-9	Acenaphthene	0.060	U
208-96-8	Acenaphthylene	0.080	U
120-12-7	Anthracene	0.060	U
56-55-3	Benzo (a) anthracene	0.040	U
50-32-8	Benzo (a) pyrene	0.080	U
205-99-2	Benzo (b) fluoranthene	0.090	U
DMO-412-11	Benzo (b-k) fluoranthene	0.11	U
191-24-2	Benzo (g, h, i) perylene	0.080	U
207-08-9	Benzo (k) fluoranthene	0.050	U
218-01-9	Chrysene	0.050	U
53-70-3	Dibenzo (a, h) anthracene	0.080	U
206-44-0	Fluoranthene	0.070	U
86-73-7	Fluorene	0.050	U
193-39-5	Indeno (1, 2, 3-cd) pyrene	0.070	U
91-20-3	Naphthalene	0.070	U
85-01-8	Phenanthrene	0.080	U
129-00-0	Pyrene	0.050	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TMW-4

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

SDG No. 13111249

Matrix: Water

Lab Sample ID: 13111249-08B

Sample wt/vol: 1,000. (g/mL) mL

Lab File ID:

Level: (low/med) low

Date Received: 11/22/2013

% Moisture: not dec. 0

Date Extracted 11/27/2013

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/27/2013

Injection Volume: 1 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>µg/L</u>	<u>Q</u>
83-32-9	Acenaphthene	0.060	U
208-96-8	Acenaphthylene	0.080	U
120-12-7	Anthracene	0.060	U
56-55-3	Benzo (a) anthracene	0.040	U
50-32-8	Benzo (a) pyrene	0.080	U
205-99-2	Benzo (b) fluoranthene	0.090	U
DMO-412-11	Benzo (b-k) fluoranthene	0.11	U
191-24-2	Benzo (g, h, i) perylene	0.080	U
207-08-9	Benzo (k) fluoranthene	0.050	U
218-01-9	Chrysene	0.050	U
53-70-3	Dibenzo (a, h) anthracene	0.080	U
206-44-0	Fluoranthene	0.070	U
86-73-7	Fluorene	0.050	U
193-39-5	Indeno (1, 2, 3-cd) pyrene	0.070	U
91-20-3	Naphthalene	0.070	U
85-01-8	Phenanthrene	0.080	U
129-00-0	Pyrene	0.050	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TMW-4 FD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

SDG No. 13111249

Matrix: Water

Lab Sample ID: 13111249-09B

Sample wt/vol: 1,000. (g/mL) mL

Lab File ID:

Level: (low/med) low

Date Received: 11/22/2013

% Moisture: not dec. 0

Date Extracted 11/27/2013

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/27/2013

Injection Volume: 1 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/L	Q
83-32-9	Acenaphthene	0.060	U
208-96-8	Acenaphthylene	0.080	U
120-12-7	Anthracene	0.060	U
56-55-3	Benzo (a) anthracene	0.040	U
50-32-8	Benzo (a) pyrene	0.080	U
205-99-2	Benzo (b) fluoranthene	0.090	U
DMO-412-11	Benzo (b-k) fluoranthene	0.11	U
191-24-2	Benzo (g, h, i) perylene	0.080	U
207-08-9	Benzo (k) fluoranthene	0.050	U
218-01-9	Chrysene	0.050	U
53-70-3	Dibenzo (a, h) anthracene	0.080	U
206-44-0	Fluoranthene	0.070	U
86-73-7	Fluorene	0.050	U
193-39-5	Indeno (1, 2, 3-cd) pyrene	0.070	U
91-20-3	Naphthalene	0.070	U
85-01-8	Phenanthrene	0.080	U
129-00-0	Pyrene	0.050	U

INORGANIC ANALYSIS DATA SHEET

SS-1

Lab Name: ALS Group USA, CorpLab Code: MI01262

Case No.

SAS No

SDG No. 13111249Matrix: SoilLab Sample ID: 13111249-01BLevel (low/med): LOWDate Received: 11/22/2013% Moisture: not dec. 13Date Prep: 12/11/2013CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	17		J	MS
7440-39-3	Barium	490			MS
7440-43-9	Cadmium	0.78			MS
7440-47-3	Chromium	19			MS
7439-92-1	Lead	38			MS
7782-49-2	Selenium	1.9	JU		MS
7440-22-4	Silver	1.9	JU		MS

INORGANIC ANALYSIS DATA SHEET

SS-1 FD

Lab Name: ALS Group USA, CorpLab Code: MI01262

Case No.

SAS No

SDG No. 13111249Matrix: SoilLab Sample ID: 13111249-02BLevel (low/med): LOWDate Received: 11/22/2013% Moisture: not dec. 13Date Prep: 12/11/2013CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	14		J	MS
7440-39-3	Barium	730			MS
7440-43-9	Cadmium	0.83			MS
7440-47-3	Chromium	26			MS
7439-92-1	Lead	42			MS
7782-49-2	Selenium	2.0	JU		MS
7440-22-4	Silver	2.0	JU		MS

INORGANIC ANALYSIS DATA SHEET

SB-1

Lab Name: ALS Group USA, CorpLab Code: MI01262

Case No.

SAS No

SDG No. 13111249Matrix: SoilLab Sample ID: 13111249-03BLevel (low/med): LOWDate Received: 11/22/2013% Moisture: not dec. 20Date Prep: 12/11/2013CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	9.2		↓	MS
7440-39-3	Barium	210			MS
7440-43-9	Cadmium	0.83	JU		MS
7440-47-3	Chromium	17			MS
7439-92-1	Lead	17	↓		MS
7782-49-2	Selenium	2.1	JU		MS
7440-22-4	Silver	2.1	JU	!	MS

INORGANIC ANALYSIS DATA SHEET

SB-1 FD

Lab Name: ALS Group USA, CorpLab Code: MI01262

Case No.

SAS No

SDG No. 13111249Matrix: SoilLab Sample ID: 13111249-04BLevel (low/med): LOWDate Received: 11/22/2013% Moisture: not dec. 16Date Prep: 12/11/2013CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	8.8		J	MS
7440-39-3	Barium	190			MS
7440-43-9	Cadmium	0.93	JU		MS
7440-47-3	Chromium	17			MS
7439-92-1	Lead	16	J		MS
7782-49-2	Selenium	2.3	JU		MS
7440-22-4	Silver	2.3	JU		MS

INORGANIC ANALYSIS DATA SHEET

SS-3

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 13111249

Matrix: Soil

Lab Sample ID: 13111249-05B

Level (low/med): LOW

Date Received: 11/22/2013

% Moisture: not dec. 14

Date Prep: 12/11/2013

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	M
7440-38-2	Arsenic	21		MS
7440-39-3	Barium	220		MS
7440-43-9	Cadmium	0.74	JU	MS
7440-47-3	Chromium	79		MS
7439-92-1	Lead	41		MS
7782-49-2	Selenium	1.9	JU	MS
7440-22-4	Silver	1.9	JU	MS

INORGANIC ANALYSIS DATA SHEET

SB-14

Lab Name: ALS Group USA, CorpLab Code: MI01262

Case No.

SAS No

SDG No. 13111249Matrix: SoilLab Sample ID: 13111249-06BLevel (low/med): LOWDate Received: 11/22/2013% Moisture: not dec. 22Date Prep: 12/11/2013CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	9.3		J	MS
7440-39-3	Barium	130			MS
7440-43-9	Cadmium	0.87	JU		MS
7440-47-3	Chromium	15			MS
7439-92-1	Lead	14		J	MS
7782-49-2	Selenium	2.2	JU		MS
7440-22-4	Silver	2.2	JU		MS

INORGANIC ANALYSIS DATA SHEET

TMW-2

Lab Name: ALS Group USA, CorpLab Code: MI01262

Case No.

SAS No

SDG No. 13111249Matrix: WaterLab Sample ID: 13111249-07CLevel (low/med): LOWDate Received: 11/22/2013% Moisture: not dec. 0Date Prep: 11/26/2013CONCENTRATION UNITS: mg/L

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	0.0050	JU		MS
7440-39-3	Barium	0.14			MS
7440-43-9	Cadmium	0.0020	JU		MS
7440-47-3	Chromium	0.0050	JU		MS
7439-92-1	Lead	0.0050	JU		MS
7782-49-2	Selenium	0.0050	JU		MS
7440-22-4	Silver	0.0050	U		MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
Page 5 of 14

TMW-4

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 13111249

Matrix: Water

Lab Sample ID: 13111249-08C

Level (low/med): LOW

Date Received: 11/22/2013

% Moisture: not dec. 0

Date Prep: 11/26/2013

CONCENTRATION UNITS: mg/L

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	0.0050	U		MS
7440-39-3	Barium	0.11			MS
7440-43-9	Cadmium	0.0020	JU		MS
7440-47-3	Chromium	0.0050	JU		MS
7439-92-1	Lead	0.025	U		MS
7782-49-2	Selenium	0.0050	JU		MS
7440-22-4	Silver	0.0050	U		MS

1 1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TMW-4 FD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 13111249

Matrix: Water

Lab Sample ID: 13111249-09C

Level (low/med): LOW

Date Received: 11/22/2013

% Moisture: not dec. 0

Date Prep: 11/26/2013

CONCENTRATION UNITS: mg/L

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	0.0050	JU		MS
7440-39-3	Barium	0.11			MS
7440-43-9	Cadmium	0.0020	JU		MS
7440-47-3	Chromium	0.0050	JU		MS
7439-92-1	Lead	0.025	U		MS
7782-49-2	Selenium	0.0050	JU		MS
7440-22-4	Silver	0.0050	U		MS

INORGANIC ANALYSIS DATA SHEET

SS-1

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 13111249

Matrix: Soil

Lab Sample ID: 13111249-01B

Level (low/med): LOW

Date Received: 11/22/2013

% Moisture: not dec. 13

Date Prep: 11/25/2013

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7439-97-6	Mercury	0.15			CV

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
Page 4044 of 144

SS-1 FD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 13111249

Matrix: Soil

Lab Sample ID: 13111249-02B

Level (low/med): LOW

Date Received: 11/22/2013

% Moisture: not dec. 13

Date Prep: 11/25/2013

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7439-97-6	Mercury	0.34			CV

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
Page 1045 of 1144

SB-1

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 13111249

Matrix: Soil

Lab Sample ID: 13111249-03B

Level (low/med): LOW

Date Received: 11/22/2013

% Moisture: not dec. 20

Date Prep: 11/25/2013

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7439-97-6	Mercury	0.041			CV

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
PERMIT 1046-AM14

SB-1 FD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 13111249

Matrix: Soil

Lab Sample ID: 13111249-04B

Level (low/med): LOW

Date Received: 11/22/2013

% Moisture: not dec. 16

Date Prep: 11/25/2013

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7439-97-6	Mercury	0.034			CV

INORGANIC ANALYSIS DATA SHEET

SS-3

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 13111249

Matrix: Soil

Lab Sample ID: 13111249-05B

Level (low/med): LOW

Date Received: 11/22/2013

% Moisture: not dec. 14

Date Prep: 11/25/2013

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
<u>7439-97-6</u>	<u>Mercury</u>	<u>0.039</u>			<u>CV</u>

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
Page 1 of 1

SB-14

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 13111249

Matrix: Soil

Lab Sample ID: 13111249-06B

Level (low/med): LOW

Date Received: 11/22/2013

% Moisture: not dec. 22

Date Prep: 11/25/2013

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7439-97-6	Mercury	0.029			CV

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TMW-2

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 13111249

Matrix: Water

Lab Sample ID: 13111249-07C

Level (low/med): LOW

Date Received: 11/22/2013

% Moisture: not dec. 0

Date Prep: 12/3/2013

CONCENTRATION UNITS: mg/L

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7439-97-6	Mercury	0.00020	U		CV

INORGANIC ANALYSIS DATA SHEET

TMW-4

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 13111249

Matrix: Water

Lab Sample ID: 13111249-08C

Level (low/med): LOW

Date Received: 11/22/2013

% Moisture: not dec. 0

Date Prep: 12/3/2013

CONCENTRATION UNITS: mg/L

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7439-97-6	Mercury	0.00020	U		CV

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 105544

TMW-4 FD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 13111249

Matrix: Water

Lab Sample ID: 13111249-09C

Level (low/med): LOW

Date Received: 11/22/2013

% Moisture: not dec. 0

Date Prep: 12/3/2013

CONCENTRATION UNITS: mg/L

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
<u>7439-97-6</u>	<u>Mercury</u>	<u>0.00020</u>	<u>U</u>		<u>CV</u>

ATTACHMENT B

CASE NARRATIVE & COC

ALS Group USA, Corp

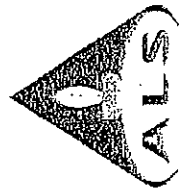
Date: 16-Dec-13

Client: Triad Engineering, Inc.
 Project: Johns Manville-Riverside Parcels
 Work Order: 13111249

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
13111249-01	SS-1	Soil		11/19/2013 15:30	11/22/2013 15:46	<input type="checkbox"/>
13111249-02	SS-1 FD	Soil		11/19/2013 15:30	11/22/2013 15:46	<input type="checkbox"/>
13111249-03	SB-1	Soil		11/19/2013 15:30	11/22/2013 15:46	<input type="checkbox"/>
13111249-04	SB-1 FD	Soil		11/19/2013 15:30	11/22/2013 15:46	<input type="checkbox"/>
13111249-05	SS-3	Soil		11/20/2013 09:30	11/22/2013 15:46	<input type="checkbox"/>
13111249-06	SB-14	Soil		11/20/2013 10:20	11/22/2013 15:46	<input type="checkbox"/>
13111249-07	TMW-2	Water		11/21/2013 10:15	11/22/2013 15:46	<input type="checkbox"/>
13111249-08	TMW-4	Water		11/21/2013 13:00	11/22/2013 15:46	<input type="checkbox"/>
13111249-09	TMW-4 FD	Water		11/21/2013 13:00	11/22/2013 15:46	<input type="checkbox"/>
13111249-10	Trip Blank	Water		11/21/2013	11/22/2013 15:46	<input type="checkbox"/>

ALS Environmental
 1740 Union Carbide Drive
 So. Charleston, WV 25303
 (Tel) 304.356.3168
 (Fax) 304.205.6262



Chain of Custody Form

Page 1 of 4

ALS Environmental
 3352 128th Avenue
 Holland, Michigan 49424
 (Tel) 616.399.6070
 (Fax) 616.399.6185

Customer Information		Project Information		ALS Project Manager:		ALS Work Order #:											
Purchase Order:	04-13-0402	Project Name:	John's Manville-Riverside Parcels	Parameter/Method Request for Analysis:		1311244											
Work Order:		Project Number:	04-13-0402	VOC by 8260													
Company Name:	Triad Engineering, Inc.	Bill To Company:	Triad Engineering, Inc.	PAH 8270 SIM													
Send Report To:	Matthew Wright	Invoice Attn:	Jamie Stemple	RCRA 8 Metals													
Address:	4980 Teays Valley Rd.	Address:	219 Hartman Run Rd.	RCRA 8 Metals (Dissolved field filtered)													
City/State/Zip:	Scott Depot, WV 25560	City/State/Zip:	Morgantown, WV 26505														
Phone:	304-755-0721	Phone:	304-296-2562														
Fax:	304-755-1880	Fax:	304-296-8739														
e-Mail Address:	mwright@triadeng.com	e-Mail Address:	jstemple@triadeng.com														
No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Boiles	A	B	C	D	E	F	G	H	I	J	Hold
1	SS-1	11/19/2013	1530	soil	7,6,8	5	X	X	X								
2	SS-1 FD	11/19/2013	1530	soil	7,6,8	10	X	X	X								
3	SB-1	11/19/2013	1530	soil	7,6,8	5	X	X	X								
4	SB-1 FD	11/19/2013	1530	soil	7,6,8	10	X	X	X								
5	SS-3 with MS/MSD	11/20/2013	0930	soil	7,6,8	15	X	X	X								
6	SB-14 with MS/MSD	11/20/2013	1020	soil	7,6,8	15	X	X	X								
7	TMW-2 with MS/MSD	11/21/2013	1015	water	1,2,8	18	X	X	X								
8	TMW-4	11/21/2013	1300	water	1,2,8	6	X	X	X								
9	TMW-4 FD	11/21/2013	1300	water	1,2,8	12	X	X	X								
10	TRIP Blank	11/21/13															
Sampler(s): Please Print & Sign		Shipper Method:		Required Turnaround Time: (Check Box)		Results Due Date:											
Ben A. Foster		Bullfinch		<input checked="" type="checkbox"/> 1 wk Days <input type="checkbox"/> 2 wk Days <input type="checkbox"/> 3 wk Days <input type="checkbox"/> 4 wk Days		<input type="checkbox"/> Other <input type="checkbox"/> 2 wk Days <input type="checkbox"/> 3 wk Days <input type="checkbox"/> 4 wk Days											
Received by:	Date:	Time:	Received by (Laboratory):	Date:	Time:	Notes:											
<i>[Signature]</i>	11/22/13	1530	<i>[Signature]</i>	11/22/13	1546	Rec'd 11/22/13 10:05 Q-27 L 3.2c											
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	Date:	Time:	ALS Cooler ID:	ALS Cooler Temp:	QC Package (Check Box Below):									
<i>[Signature]</i>	11/22/13	17:20	<i>[Signature]</i>	11/22/13	17:20	3	3	<input type="checkbox"/> Level II: Standard QC <input type="checkbox"/> TRRP LRC <input checked="" type="checkbox"/> Level IV: SW846 Methods/CLP like <input type="checkbox"/> Other:									
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C		Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.															

DATA VALIDATION REPORT

FOR

SITE CHARACTERIZATION

FOR

**John's Manville - Riverside Parcel, WV
Project number 1402737**

**Water and Soil Analyses
SDG Nos. 1402737
Sampling Date: February 14, 2014**

Submitted to:

**Triad Engineering, Inc
10541 Teays Valley Road
Scott Depot, West Virginia 25560
(304) 292-2673**

Submitted by:

**Environmental Data Validation Inc.
Environmental Occupational & Public Health Consultants Inc.
1326 Orangewood Avenue
Pittsburgh, PA 15216
(412) 341-5281**

April 15, 2015

Site: John's Manville- Riverside Parcel, WV
Client: Triad Engineering, Inc.
Analytical Laboratory: ALS
SDG Numbers: 1402737
Sampling Date: February 14, 2014
Analyses: VOCS, PAH, Metals and Mercury
Analytical Method: SW8260B, SW8270D-SIMs, SW6020 and SW7470

Summary of Data Validation:

The adherence of laboratory analytical performance to the above method was evaluated during the data validation process. The National Functional Guidelines for Superfund Organic Methods Data Review (June 2008) and the National Functional Guidelines for Inorganic Methods Data Review (2010).

The sample qualifiers applied by the data validator are tabulated in Section 12.0. The detailed discussions can be found in the report.

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List of Attachments

- A Validated and Qualified Data Sheets
- B Case Narrative and Chain of Custody

1.0 Sample Identifications

The following table summarizes sample identifications, matrix of each sample and analyses present in the data package for each sample.

Laboratory ID	Client Sample ID	Matrix	VOC	SVOC	Metals/ Mercury	Arsenic
SDG 1402737						
1402737-01	SS-17	Soil	X	X	X	
1402737-02	SS-17FD	Soil	X	X	X	
1402737-03	SB-17	Soil	X	X	X	
1402737-04	SB-17FD	Soil	X	X	X	
1402737-05	SS-19	Soil	X	X	X	
1402737-05	SS-19MS	Soil	X	X	X	
1402737-05	SS-19MSD	Soil	X	X	X	
1402737-06	SB-20	Soil	X	X	X	
1402737-06	SB-20MS	Soil	X	X	X	
1402737-06	SB-20MSD	Soil	X	X	X	
1402737-07	BG-1	Soil				X
1402737-08	BG-1FD	Soil				X
1402737-09	BG-2	Soil				X
1402737-09	BG2-MS	Soil				X
1402737-09	BG2-MSD	Soil				X
1402737-10	SS-18	Soil	X	X	X	
1402737-10	SS-18MS	Soil		X		
1402737-10	SS-18MSD	Soil		X		
1402737-11	SS-20	Soil	X	X	X	
1402737-12	SS-21	Soil	X	X	X	
1402737-13	SS-22	Soil	X	X	X	
1402737-14	SB-18	Soil	X	X	X	
1402737-15	SB-19	Soil	X	X	X	
1402737-16	SB-21	Soil	X	X	X	
1402737-17	SB-22	Soil	X	X	X	
1402737-18	BG-3	Soil				X
1402737-19	BG-4	Soil				X
1402737-20	BG-5	Soil				X
1402737-21	BG-6	Soil				X
1402737-22	BG-7	Soil				X
1402737-23	BG-8	Soil				X
1402737-24	BG-9	Soil				X
1402737-25	BG-10	Soil				X
1402737-26	Trip	Aqueous	X			

Number of Field Samples Analyzed:	23
Number of QC Samples	11
Total Number of Analyses:	34

2.0 Completeness Checklist

The following table identifies the summary form information and raw data found in the data package. Form numbers shown in parentheses refer to the current U.S. EPA CLP SOW equivalent reporting of results in an alternate summary format that has been determined to be acceptable.

Completeness Checklist

X	Case Narrative
X	Chain of Custody Records/Traffic Reports/Tracking Records
X	Preservation Information
X	Sample Cross Reference with Unique Identifiers
X	Sample Results Summary Form (Form 1/Form 1-TIC)
X	CLP Flagging used on Results Summary
X	SMC/Surrogate Results Summary (Form 2)
X/O	Matrix Spike/Matrix Spike Duplicate Results Summary (Form 3)
O	Laboratory Control Sample (LCS)/ Blank Spike Results Summary (Form 3)
NR	Control Charts
X	Method/Preparation Blank Results Summary (Form 4)
X	Initial Calibration Summary (Forms 6)
X	Continuing Calibration Summary (Form 7)
X	Analytical Sequence (Form 8)
O	Internal Standard Area Summary (Form X11)
	Raw Data (incl. IS, Surr/SMC, RT, quant. Reports, etc.)
X	Samples
X	Initial Calibration
NR	Clean-ups
X	Continuing Calibration
O	Instrument Blanks
X	Preparation Blanks/Method Blanks
O	Other Blanks
X	LCS/Blank Spike
X	Matrix Spikes/Matrix Spike Duplicates
NR	Matrix Duplicates/Replicates
O	Field Blanks
X	Field Duplicates
X	Extraction Log Benchsheets
X	Instrument Run Logs
X	Sample Descriptions
X	Legible Pages
X	Pages in Package Numbered and in Sequence
NR	Electronic Data Deliverable (EDD)

X: Included in original Data Package

NR: Not Required

O: Not Included and/or Not Available

RS: Provided as a Resubmission

X/RS: Incomplete in original data package, completed as a resubmission

3.0 Holding Time

Holding times were within acceptable criteria.

4.0 Chain of Custody Record

The Chain of Custody Record was present.

5.0 Calibration Quality Control

5.1 Initial Calibration (ICAL)

The results were acceptable.

5.2 Continuing Calibration (CCAL)

The following were qualified due to calibration exceedance.

Sample ID	Compound	Qualifier
1402737-01 to 1402737-06	Bromomethane	UJ
1402737-10 to 1402737-17	Cis-1,3-dichloropropene	
	Trans-1,3-dichloropropene	
1402737-26	Acetone	
	2-Butanone	

6.0 Blanks Quality Control

The following sample was qualified due to method blank contamination;

Sample ID	Compound	Qualifier
1402737-13	Methylene chloride	U
1402737-02,1402737-12, 1402737-13	Cadmium	U

7.0 Surrogate/Internal Standard Recoveries

Several samples reported internal standard and surrogate issues. This resulted in the following qualification;

Sample ID	Compound	Qualifier
1402737-01	Acenaphthene	R
	Acenaphthylene	R
	Anthracene	R
	Benzo(a)anthracene	J
	Benzo(a)pyrene	J
	Benzo(b)fluoranthene	J
	Benzo(b-k)fluoranthene	R

Sample ID	Compound	Qualifier
	Benzo(e)pyrene	R
	Benzo(q,h,i)perylene	R
	Benzo(k)fluoranthene	R
	Chrysene	R
	Dibenzo(a,h)anthracene	R
	Fluoranthene	R
	Fluorene	R
	Indeno(1,2,3-cd)pyrene	R
	Naphthalene	R
	Phenanthrene	R
	Pyrene	R
	1402737-02	Acenaphthene
Acenaphthylene		R
Anthracene		R
Benzo(a)anthracene		R
Benzo(a)pyrene		J
Benzo(b)fluoranthene		J
Benzo(b-k)fluoranthene		R
Benzo(e)pyrene		R
Benzo(q,h,i)perylene		R
Benzo(k)fluoranthene		R
Chrysene		J
Dibenzo(a,h)anthracene		R
Fluoranthene		J
Fluorene		R
Indeno(1,2,3-cd)pyrene		R
Naphthalene		R
Phenanthrene		R
Pyrene		R
1402737-11 to 1402737-12	Benzo(a)pyrene	R
	Benzo(b)fluoranthene	R
	Benzo(b-k)fluoranthene	R
	Benzo(g,h,i)perylene	R
	Benzo(k)fluoranthene	R
	Dibenzo(a,h)anthracene	R

Sample ID	Compound	Qualifier
	Indeno(1,2,3-cd)pyrene	R
1402737-11	Benzo(e)pyrene	R
1402737-12	Benzo(e)pyrene	J

8.0 Accuracy

8.1 Laboratory Control Samples (LCS)/Blank Spikes

Recoveries were acceptable.

8.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The following samples were qualified due to matrix spike recovery issues

Sample ID	Compound	Qualifier
1402737-22 to 1402737-25	Arsenic	J

8.3 Serial Dilution

The results were acceptable.

9.0 Field QC

9.1 Equipment Blank/ Rinse Blank

The rinse/equipment blank reported no contamination.

9.1 Trip Blank

There was no trip blank included with these samples.

9.2 Field Duplicate

Samples 1402737-01 (SS-17), 1402737-03 (SB-17) and 1402737-08 (BG-1) were collected in duplicate and submitted for analyses as S1402737-01FD (SS-17FD), 1402737-03FD (SB-17FD) and 1402737-08FD (BG-1FD), respectively. The relative percent difference (%RPD) between the original sample and its associated field duplicate sample are listed below. The RPD was calculated when both results were detected above the reporting limit.

Sample	Duplicate	Compound	%RPD
1402737-01	1402737-02FD	Toluene	147.4
1402737-01	1402737-02FD	O-Xylene	167.8
1402737-03	1402737-04FD	1,2-Dichloroethane	3.3
1402737-01	1402737-02FD	Benzo (a) pyrene	-23.1
1402737-01	1402737-02FD	Benzo (b) fluoranthene	-18.6
1402737-01	1402737-02FD	Arsenic	0
1402737-01	1402737-02FD	Barium	-98.8

Sample	Duplicate	Compound	%RPD
1402737-01	1402737-02FD	Chromium	-17.4
1402737-01	1402737-02FD	Lead	-28.6
1402737-03	1402737-04FD	Arsenic	-15.2
1402737-03	1402737-04FD	Barium	54.5
1402737-03	1402737-04FD	Chromium	0
1402737-03	1402737-04FD	Lead	12.5
1402737-08	1402737-09FD	Arsenic	2.9

10.0 Target Compound Identification

All compounds were correctly identified.

11.0 Additional Comments

For SDG 112015, the COC reported the samples collected to be solids. However, the laboratory accurately classified the samples as liquids. No data were affected and therefore no qualification was necessary.

12.0 Data Qualifier Table

Laboratory Sample ID	Compound	Qualifier	Section Reference
1402737-01 to 1402737-06 1402737-10 to 1402737-17 1402737-26	Bromomethane Cis-1,3-dichloropropene Trans-1,3-dichloropropene Acetone 2-Butanone	UJ	5.0
1402737-13	Methylene chloride	U	6.0
1402737-2, 1402737-12, 1402737-13	Cadmium	U	6.0
1402737-01	Acenaphthene	R	7.0
	Acenaphthylene	R	
	Anthracene	R	
	Benzo(a)anthracene	J	
	Benzo(a)pyrene	J	
	Benzo(b)fluoranthene	J	
	Benzo(b-k)fluoranthene	R	
	Benzo(e)pyrene	R	
	Benzo(q,h,i)perylene	R	
	Benzo(k)fluoranthene	R	
	Chrysene	R	
	Dibenzo(a,h)anthracene	R	
	Fluoranthene	R	

Laboratory Sample ID	Compound	Qualifier	Section Reference
	Fluorene	R	
	Indeno(1,2,3-cd)pyrene	R	
	Naphthalene	R	
	Phenanthrene	R	
	Pyrene	R	
1402737-02	Acenaphthene	R	
	Acenaphthylene	R	
	Anthracene	R	
	Benzo(a)anthracene	R	
	Benzo(a)pyrene	J	
	Benzo(b)fluoranthene	J	
	Benzo(b-k)fluoranthene	R	
	Benzo(e)pyrene	R	
	Benzo(q,h,i)perylene	R	
	Benzo(k)fluoranthene	R	
	Chrysene	J	
	Dibenzo(a,h)anthracene	R	
	Fluoranthene	J	
	Fluorene	R	
	Indeno(1,2,3-cd)pyrene	R	
	Naphthalene	R	
	Phenanthrene	R	
	Pyrene	R	
1402737-11 to 1402737-12	Benzo(a)pyrene	R	
	Benzo(b)fluoranthene	R	
	Benzo(b-k)fluoranthene	R	
	Benzo(g,h,i)perylene	R	
	Benzo(k)fluoranthene	R	
	Dibenzo(a,h)anthracene	R	
	Indeno(1,2,3-cd)pyrene	R	
1402737-11	Benzo(e)pyrene	R	
1402737-12	Benzo(e)pyrene	J	

ATTACHMENT A

FORM 1s

VOLATILE ORGANICS ANALYSIS DATA SHEET

SS-17

Lab Name: ALS Group USA, CorpLab Code: MI01262

Case No.:

SAS No.:

SDG No. 1402737Matrix: SoilLab Sample ID: 1402737-01ASample wt/vol: 5.00 (g/mL) g

Lab File ID:

Level: (low/med) lowDate Received: 2/18/2014% Moisture: not dec. 4.9Date Analyzed: 2/22/2014GC Column: DB624 ID: 0.18 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

µg/Kg-dry Q

71-55-6	1,1,1-Trichloroethane	32	U
79-34-5	1,1,2,2-Tetrachloroethane	32	U
79-00-5	1,1,2-Trichloroethane	32	U
75-34-3	1,1-Dichloroethane	32	U
75-35-4	1,1-Dichloroethene	32	U
107-06-2	1,2-Dichloroethane	32	U
540-59-0	1,2-Dichloroethene, Total	63	U
78-87-5	1,2-Dichloropropane	32	U
542-75-6	1,3-Dichloropropene, Total	63	U
78-93-3	2-Butanone	210	U J
591-78-6	2-Hexanone	32	U
108-10-1	4-Methyl-2-pentanone	32	U
67-64-1	Acetone	110	U J
71-43-2	Benzene	40	
75-27-4	Bromodichloromethane	32	U
75-25-2	Bromoform	32	U
74-83-9	Bromomethane	79	U J
75-15-0	Carbon disulfide	32	U J
56-23-5	Carbon tetrachloride	32	U
108-90-7	Chlorobenzene	32	U
75-00-3	Chloroethane	110	U
67-66-3	Chloroform	32	U
74-87-3	Chloromethane	110	U
156-59-2	cis-1,2-Dichloroethene	32	U
10061-01-5	cis-1,3-Dichloropropene	32	U J
124-48-1	Dibromochloromethane	32	U
100-41-4	Ethylbenzene	120	
M/P-XYLENE	m,p-Xylene	470	
75-09-2	Methylene chloride	32	U
95-47-6	o-Xylene	480	
100-42-5	Styrene	32	U
127-18-4	Tetrachloroethene	32	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-17

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1402737

Matrix: Soil Lab Sample ID: 1402737-01A

Sample wt/vol: 5.00 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 2/18/2014

% Moisture: not dec. 4.9 Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND µg/Kg-dry Q

108-88-3	Toluene	350	
156-60-5	trans-1,2-Dichloroethene	32	U
10061-02-6	trans-1,3-Dichloropropene	32	U <u>I</u>
79-01-6	Trichloroethene	32	U
75-01-4	Vinyl chloride	32	U
1330-20-7	Xylenes, Total	960	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-17 FD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1402737

Matrix: Soil Lab Sample ID: 1402737-02A

Sample wt/vol: 5.00 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 2/18/2014

% Moisture: not dec. 18 Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/Kg-dry	Q
71-55-6	1,1,1-Trichloroethane	36	U
79-34-5	1,1,2,2-Tetrachloroethane	36	U
79-00-5	1,1,2-Trichloroethane	36	U
75-34-3	1,1-Dichloroethane	36	U
75-35-4	1,1-Dichloroethene	36	U
107-06-2	1,2-Dichloroethane	36	U
540-59-0	1,2-Dichloroethene, Total	73	U
78-87-5	1,2-Dichloropropane	36	U
542-75-6	1,3-Dichloropropene, Total	73	U
78-93-3	2-Butanone	240	U J
591-78-6	2-Hexanone	36	U
108-10-1	4-Methyl-2-pentanone	36	U
67-64-1	Acetone	120	U J
71-43-2	Benzene	36	U
75-27-4	Bromodichloromethane	36	U
75-25-2	Bromoform	36	U
74-83-9	Bromomethane	91	U J
75-15-0	Carbon disulfide	36	U
56-23-5	Carbon tetrachloride	36	U
108-90-7	Chlorobenzene	36	U
75-00-3	Chloroethane	120	U
67-66-3	Chloroform	36	U
74-87-3	Chloromethane	120	U
156-59-2	cis-1,2-Dichloroethene	36	U
10061-01-5	cis-1,3-Dichloropropene	36	U J
124-48-1	Dibromochloromethane	36	U
100-41-4	Ethylbenzene	36	U
M/P-XYLENE	m,p-Xylene	73	JU
75-09-2	Methylene chloride	36	U
95-47-6	o-Xylene	42	U
100-42-5	Styrene	36	U
127-18-4	Tetrachloroethene	36	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: ALS Group USA, Corp

SS-17 FD

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1402737

Matrix: Soil Lab Sample ID: 1402737-02A

Sample wt/vol: 5.00 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 2/18/2014

% Moisture: not dec. 18 Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/Kg-dry	Q
108-88-3	Toluene	53	
156-60-5	trans-1,2-Dichloroethene	36	U
10061-02-6	trans-1,3-Dichloropropene	36	U <input checked="" type="checkbox"/>
79-01-6	Trichloroethene	36	U
75-01-4	Vinyl chloride	36	U
1330-20-7	Xylenes, Total	110	JU

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB-17

Lab Name: ALS Group USA, CorpLab Code: MI01262

Case No.:

SAS No.:

SDG No. 1402737Matrix: SoilLab Sample ID: 1402737-03ASample wt/vol: 5.00 (g/mL) g

Lab File ID:

Level: (low/med) lowDate Received: 2/18/2014% Moisture: not dec. 23Date Analyzed: 2/22/2014GC Column: DB624 ID: 0.18 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

µg/Kg-dry Q

71-55-6	1,1,1-Trichloroethane	39	U
79-34-5	1,1,2,2-Tetrachloroethane	39	U
79-00-5	1,1,2-Trichloroethane	39	U
75-34-3	1,1-Dichloroethane	39	U
75-35-4	1,1-Dichloroethene	39	U
107-06-2	1,2-Dichloroethane	310	
540-59-0	1,2-Dichloroethene, Total	78	U
78-87-5	1,2-Dichloropropane	39	U
542-75-6	1,3-Dichloropropene, Total	78	U
78-93-3	2-Butanone	260	U J
591-78-6	2-Hexanone	39	U
108-10-1	4-Methyl-2-pentanone	39	U
67-64-1	Acetone	130	U J
71-43-2	Benzene	39	U
75-27-4	Bromodichloromethane	39	U
75-25-2	Bromoform	39	U
74-83-9	Bromomethane	97	U J
75-15-0	Carbon disulfide	39	U
56-23-5	Carbon tetrachloride	39	U
108-90-7	Chlorobenzene	39	U
75-00-3	Chloroethane	130	U
67-66-3	Chloroform	39	U
74-87-3	Chloromethane	130	U
156-59-2	cis-1,2-Dichloroethene	39	U
10061-01-5	cis-1,3-Dichloropropene	39	U J
124-48-1	Dibromochloromethane	39	U
100-41-4	Ethylbenzene	39	U
M/P-XYLENE	m,p-Xylene	78	U
75-09-2	Methylene chloride	39	U
95-47-6	o-Xylene	39	U
100-42-5	Styrene	39	U
127-18-4	Tetrachloroethene	39	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-17

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.:

SAS No.:

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-03A

Sample wt/vol: 5.00 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 23

Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

µg/Kg-dry Q

108-88-3	Toluene	39	U
156-60-5	trans-1,2-Dichloroethene	39	U
10061-02-6	trans-1,3-Dichloropropene	39	U
79-01-6	Trichloroethene	39	U
75-01-4	Vinyl chloride	39	U
1330-20-7	Xylenes, Total	120	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-17 FD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.:

SAS No.:

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-04A

Sample wt/vol: 5.00 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 21

Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>µg/Kg-dry</u>	Q
71-55-6	1,1,1-Trichloroethane	38	U
79-34-5	1,1,2,2-Tetrachloroethane	38	U
79-00-5	1,1,2-Trichloroethane	38	U
75-34-3	1,1-Dichloroethane	38	U
75-35-4	1,1-Dichloroethene	38	U
107-06-2	1,2-Dichloroethane	300	
540-59-0	1,2-Dichloroethene, Total	76	U
78-87-5	1,2-Dichloropropane	38	U
542-75-6	1,3-Dichloropropene, Total	76	U
78-93-3	2-Butanone	250	U J
591-78-6	2-Hexanone	38	U
108-10-1	4-Methyl-2-pentanone	38	U
67-64-1	Acetone	130	U I
71-43-2	Benzene	38	U
75-27-4	Bromodichloromethane	38	U
75-25-2	Bromoform	38	U
74-83-9	Bromomethane	95	U S
75-15-0	Carbon disulfide	56	
56-23-5	Carbon tetrachloride	38	U
108-90-7	Chlorobenzene	38	U
75-00-3	Chloroethane	130	U
67-66-3	Chloroform	38	U
74-87-3	Chloromethane	130	U
156-59-2	cis-1,2-Dichloroethene	38	U
10061-01-5	cis-1,3-Dichloropropene	38	U J
124-48-1	Dibromochloromethane	38	U
100-41-4	Ethylbenzene	38	U
M/P-XYLENE	m,p-Xylene	76	U
75-09-2	Methylene chloride	38	U
95-47-6	o-Xylene	38	U
100-42-5	Styrene	38	U
127-18-4	Tetrachloroethene	38	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-17 FD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.:

SAS No.:

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-04A

Sample wt/vol: 5.00 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 21

Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

µg/Kg-dry Q

108-88-3	Toluene	38	U
156-60-5	trans-1,2-Dichloroethene	38	U
10061-02-6	trans-1,3-Dichloropropene	38	U J
79-01-6	Trichloroethene	38	U
75-01-4	Vinyl chloride	38	U
1330-20-7	Xylenes, Total	110	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

SS-19 with MS/MSD

Lab Name: ALS Group USA, CorpLab Code: MI01262

Case No.:

SAS No.:

SDG No. 1402737

Matrix:

SoilLab Sample ID: 1402737-05A

Sample wt/vol:

5.00 (g/mL) g

Lab File ID:

Level:

(low/med) lowDate Received: 2/18/2014

% Moisture: not dec.

14Date Analyzed: 2/22/2014

GC Column:

DB624ID: 0.18 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____

(mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

µg/Kg-dry Q

71-55-6	1,1,1-Trichloroethane	35	U
79-34-5	1,1,2,2-Tetrachloroethane	35	U
79-00-5	1,1,2-Trichloroethane	35	U
75-34-3	1,1-Dichloroethane	35	U
75-35-4	1,1-Dichloroethene	35	U
107-06-2	1,2-Dichloroethane	35	U
540-59-0	1,2-Dichloroethene, Total	69	U
78-87-5	1,2-Dichloropropane	35	U
542-75-6	1,3-Dichloropropene, Total	69	U
78-93-3	2-Butanone	230	U J
591-78-6	2-Hexanone	35	U
108-10-1	4-Methyl-2-pentanone	35	U
67-64-1	Acetone	120	U J
71-43-2	Benzene	35	U
75-27-4	Bromodichloromethane	35	U
75-25-2	Bromoform	35	U
74-83-9	Bromomethane	87	U J
75-15-0	Carbon disulfide	120	U
56-23-5	Carbon tetrachloride	35	U
108-90-7	Chlorobenzene	35	U
75-00-3	Chloroethane	120	U
67-66-3	Chloroform	35	U
74-87-3	Chloromethane	120	U
156-59-2	cis-1,2-Dichloroethene	35	U
10061-01-5	cis-1,3-Dichloropropene	35	U J
124-48-1	Dibromochloromethane	35	U
100-41-4	Ethylbenzene	35	U
M/P-XYLENE	m,p-Xylene	69	U
75-09-2	Methylene chloride	35	U
95-47-6	o-Xylene	35	U
100-42-5	Styrene	35	U
127-18-4	Tetrachloroethene	35	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-19 with MS/MSD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.:

SAS No.:

SDG No. 1402737

Matrix:

Soil

Lab Sample ID: 1402737-05A

Sample wt/vol:

5.00 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 14

Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

µg/Kg-dry Q

108-88-3	Toluene	35	U
156-60-5	trans-1,2-Dichloroethene	35	U
10061-02-6	trans-1,3-Dichloropropene	35	U <i>J</i>
79-01-6	Trichloroethene	35	U
75-01-4	Vinyl chloride	35	U
1330-20-7	Xylenes, Total	100	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-20 with MS/MSD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1402737

Matrix: Soil Lab Sample ID: 1402737-06A

Sample wt/vol: 5.00 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 2/18/2014

% Moisture: not dec. 21 Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/Kg-dry	Q
71-55-6	1,1,1-Trichloroethane	38	U
79-34-5	1,1,2,2-Tetrachloroethane	38	U
79-00-5	1,1,2-Trichloroethane	38	U
75-34-3	1,1-Dichloroethane	38	U
75-35-4	1,1-Dichloroethene	38	U
107-06-2	1,2-Dichloroethane	38	U
540-59-0	1,2-Dichloroethene, Total	76	U
78-87-5	1,2-Dichloropropane	38	U
542-75-6	1,3-Dichloropropene, Total	76	U
78-93-3	2-Butanone	250	U <i>H</i>
591-78-6	2-Hexanone	38	U
108-10-1	4-Methyl-2-pentanone	38	U
67-64-1	Acetone	130	U <i>H</i>
71-43-2	Benzene	38	U
75-27-4	Bromodichloromethane	38	U
75-25-2	Bromoform	38	U
74-83-9	Bromomethane	95	U <i>H</i>
75-15-0	Carbon disulfide	71	
56-23-5	Carbon tetrachloride	38	U
108-90-7	Chlorobenzene	38	U
75-00-3	Chloroethane	130	U
67-66-3	Chloroform	38	U
74-87-3	Chloromethane	130	U
156-59-2	cis-1,2-Dichloroethene	38	U
10061-01-5	cis-1,3-Dichloropropene	38	U <i>H</i>
124-48-1	Dibromochloromethane	38	U
100-41-4	Ethylbenzene	38	U
M/P-XYLENE	m,p-Xylene	76	U
75-09-2	Methylene chloride	38	U
95-47-6	o-Xylene	38	U
100-42-5	Styrene	38	U
127-18-4	Tetrachloroethene	38	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-20 with MS/MSD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1402737

Matrix: Soil Lab Sample ID: 1402737-06A

Sample wt/vol: 5.00 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 2/18/2014

% Moisture: not dec. 21 Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/Kg-dry	Q
108-88-3	Toluene	38	U
156-60-5	trans-1,2-Dichloroethene	38	U
10061-02-6	trans-1,3-Dichloropropene	38	U
79-01-6	Trichloroethene	38	U
75-01-4	Vinyl chloride	38	U
1330-20-7	Xylenes, Total	110	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

SS-18

Lab Name: ALS Group USA, CorpLab Code: MI01262

Case No.:

SAS No.:

SDG No. 1402737Matrix: SoilLab Sample ID: 1402737-10ASample wt/vol: 5.00 (g/mL) g

Lab File ID:

Level: (low/med) lowDate Received: 2/18/2014% Moisture: not dec. 15Date Analyzed: 2/22/2014GC Column: DB624 ID: 0.18 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

µg/Kg-dry Q

71-55-6	1,1,1-Trichloroethane	35	U
79-34-5	1,1,2,2-Tetrachloroethane	35	U
79-00-5	1,1,2-Trichloroethane	35	U
75-34-3	1,1-Dichloroethane	35	U
75-35-4	1,1-Dichloroethene	35	U
107-06-2	1,2-Dichloroethane	35	U
540-59-0	1,2-Dichloroethene, Total	70	U
78-87-5	1,2-Dichloropropane	35	U
542-75-6	1,3-Dichloropropene, Total	70	U
78-93-3	2-Butanone	230	UJ
591-78-6	2-Hexanone	35	U
108-10-1	4-Methyl-2-pentanone	35	U
67-64-1	Acetone	120	UJ
71-43-2	Benzene	35	U
75-27-4	Bromodichloromethane	35	U
75-25-2	Bromoform	35	U
74-83-9	Bromomethane	88	UJ
75-15-0	Carbon disulfide	49	
56-23-5	Carbon tetrachloride	35	U
108-90-7	Chlorobenzene	35	U
75-00-3	Chloroethane	120	U
67-66-3	Chloroform	35	U
74-87-3	Chloromethane	120	U
156-59-2	cis-1,2-Dichloroethene	35	U
10061-01-5	cis-1,3-Dichloropropene	35	UJ
124-48-1	Dibromochloromethane	35	U
100-41-4	Ethylbenzene	35	U
M/P-XYLENE	m,p-Xylene	70	U
75-09-2	Methylene chloride	35	U
95-47-6	o-Xylene	35	U
100-42-5	Styrene	35	U
127-18-4	Tetrachloroethene	35	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-18

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.:

SAS No.:

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-10A

Sample wt/vol: 5.00 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 15

Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

µg/Kg-dry Q

108-88-3	Toluene	35	U
156-60-5	trans-1,2-Dichloroethene	35	U
10061-02-6	trans-1,3-Dichloropropene	35	U J
79-01-6	Trichloroethene	35	U
75-01-4	Vinyl chloride	35	U
1330-20-7	Xylenes, Total	110	U

1A

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SS-20

Lab Name: ALS Group USA, CorpLab Code: MI01262

Case No.:

SAS No.:

SDG No. 1402737Matrix: SoilLab Sample ID: 1402737-11ASample wt/vol: 5.00 (g/mL) g

Lab File ID:

Level: (low/med) lowDate Received: 2/18/2014% Moisture: not dec. 11Date Analyzed: 2/22/2014GC Column: DB624 ID: 0.18 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

µg/Kg-dry Q

71-55-6	1,1,1-Trichloroethane	34	U
79-34-5	1,1,2,2-Tetrachloroethane	34	U
79-00-5	1,1,2-Trichloroethane	34	U
75-34-3	1,1-Dichloroethane	34	U
75-35-4	1,1-Dichloroethene	34	U
107-06-2	1,2-Dichloroethane	34	U
540-59-0	1,2-Dichloroethene, Total	67	U
78-87-5	1,2-Dichloropropane	34	U
542-75-6	1,3-Dichloropropene, Total	67	U
78-93-3	2-Butanone	220	U H
591-78-6	2-Hexanone	34	U
108-10-1	4-Methyl-2-pentanone	34	U
67-64-1	Acetone	110	U H
71-43-2	Benzene	34	U
75-27-4	Bromodichloromethane	34	U
75-25-2	Bromoform	34	U
74-83-9	Bromomethane	84	U H
75-15-0	Carbon disulfide	34	JU
56-23-5	Carbon tetrachloride	34	U
108-90-7	Chlorobenzene	34	U
75-00-3	Chloroethane	110	U
67-66-3	Chloroform	34	U
74-87-3	Chloromethane	110	U
156-59-2	cis-1,2-Dichloroethene	34	U
10061-01-5	cis-1,3-Dichloropropene	34	U H
124-48-1	Dibromochloromethane	34	U H
100-41-4	Ethylbenzene	34	U
M/P-XYLENE	m,p-Xylene	67	U
75-09-2	Methylene chloride	34	U
95-47-6	o-Xylene	34	U
100-42-5	Styrene	34	U
127-18-4	Tetrachloroethene	34	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-20

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1402737

Matrix: Soil Lab Sample ID: 1402737-11A

Sample wt/vol: 5.00 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 2/18/2014

% Moisture: not dec. 11 Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND µg/Kg-dry Q

108-88-3	Toluene	34	U
156-60-5	trans-1,2-Dichloroethene	34	U
10061-02-6	trans-1,3-Dichloropropene	34	U \checkmark
79-01-6	Trichloroethene	34	U
75-01-4	Vinyl chloride	34	U
1330-20-7	Xylenes, Total	100	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

SS-21

Lab Name: ALS Group USA, CorpLab Code: MI01262

Case No.:

SAS No.:

SDG No. 1402737Matrix: SoilLab Sample ID: 1402737-12ASample wt/vol: 5.00 (g/mL) g

Lab File ID:

Level: (low/med) lowDate Received: 2/18/2014% Moisture: not dec. 14Date Analyzed: 2/22/2014GC Column: DB624 ID: 0.18 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

µg/Kg-dry Q

71-55-6	1,1,1-Trichloroethane	35	U
79-34-5	1,1,2,2-Tetrachloroethane	35	U
79-00-5	1,1,2-Trichloroethane	35	U
75-34-3	1,1-Dichloroethane	35	U
75-35-4	1,1-Dichloroethene	35	U
107-06-2	1,2-Dichloroethane	35	U
540-59-0	1,2-Dichloroethene, Total	70	U
78-87-5	1,2-Dichloropropane	35	U
542-75-6	1,3-Dichloropropene, Total	70	U
78-93-3	2-Butanone	230	U J
591-78-6	2-Hexanone	35	U
108-10-1	4-Methyl-2-pentanone	35	U
67-64-1	Acetone	120	U J
71-43-2	Benzene	35	U
75-27-4	Bromodichloromethane	35	U
75-25-2	Bromoform	35	U
74-83-9	Bromomethane	87	U I
75-15-0	Carbon disulfide	35	U
56-23-5	Carbon tetrachloride	35	U
108-90-7	Chlorobenzene	35	U
75-00-3	Chloroethane	120	U
67-66-3	Chloroform	35	U
74-87-3	Chloromethane	120	U
156-59-2	cis-1,2-Dichloroethene	35	U
10061-01-5	cis-1,3-Dichloropropene	35	U J
124-48-1	Dibromochloromethane	35	U
100-41-4	Ethylbenzene	35	U
M/P-XYLENE	m,p-Xylene	70	U
75-09-2	Methylene chloride	35	JU
95-47-6	o-Xylene	35	JU
100-42-5	Styrene	35	U
127-18-4	Tetrachloroethene	35	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-21

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1402737

Matrix: Soil Lab Sample ID: 1402737-12A

Sample wt/vol: 5.00 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 2/18/2014

% Moisture: not dec. 14 Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/Kg-dry	Q
108-88-3	Toluene	35	JU
156-60-5	trans-1,2-Dichloroethene	35	U
10061-02-6	trans-1,3-Dichloropropene	35	U 5
79-01-6	Trichloroethene	35	U
75-01-4	Vinyl chloride	35	U
1330-20-7	Xylenes, Total	100	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: ALS Group USA, Corp

SS-22

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1402737

Matrix: Soil Lab Sample ID: 1402737-13A

Sample wt/vol: 5.00 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 2/18/2014

% Moisture: not dec. 11 Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/Kg-dry	Q
71-55-6	1,1,1-Trichloroethane	34	U
79-34-5	1,1,2,2-Tetrachloroethane	34	U
79-00-5	1,1,2-Trichloroethane	34	U
75-34-3	1,1-Dichloroethane	34	U
75-35-4	1,1-Dichloroethene	34	U
107-06-2	1,2-Dichloroethane	34	U
540-59-0	1,2-Dichloroethene, Total	67	U
78-87-5	1,2-Dichloropropane	34	U
542-75-6	1,3-Dichloropropene, Total	67	U
78-93-3	2-Butanone	220	U J
591-78-6	2-Hexanone	34	U
108-10-1	4-Methyl-2-pentanone	34	U
67-64-1	Acetone	110	U P
71-43-2	Benzene	34	U
75-27-4	Bromodichloromethane	34	U
75-25-2	Bromoform	34	U
74-83-9	Bromomethane	84	U J
75-15-0	Carbon disulfide	34	U
56-23-5	Carbon tetrachloride	34	U
108-90-7	Chlorobenzene	34	U
75-00-3	Chloroethane	110	U
67-66-3	Chloroform	34	U
74-87-3	Chloromethane	110	U
156-59-2	cis-1,2-Dichloroethene	34	U
10061-01-5	cis-1,3-Dichloropropene	34	U J
124-48-1	Dibromochloromethane	34	U
100-41-4	Ethylbenzene	34	U
M/P-XYLENE	m,p-Xylene	67	U
75-09-2	Methylene chloride	77	U U
95-47-6	o-Xylene	34	U
100-42-5	Styrene	34	U
127-18-4	Tetrachloroethene	34	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-22

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1402737

Matrix: Soil Lab Sample ID: 1402737-13A

Sample wt/vol: 5.00 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 2/18/2014

% Moisture: not dec. 11 Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND µg/Kg-dry Q

108-88-3	Toluene	34	U
156-60-5	trans-1,2-Dichloroethene	34	U
10061-02-6	trans-1,3-Dichloropropene	34	U ¹
79-01-6	Trichloroethene	34	U
75-01-4	Vinyl chloride	34	U
1330-20-7	Xylenes, Total	100	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-18

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1402737

Matrix: Soil Lab Sample ID: 1402737-14A

Sample wt/vol: 5.00 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 2/18/2014

% Moisture: not dec. 17 Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND µg/Kg-dry Q

71-55-6	1,1,1-Trichloroethane	36	U
79-34-5	1,1,2,2-Tetrachloroethane	36	U
79-00-5	1,1,2-Trichloroethane	36	U
75-34-3	1,1-Dichloroethane	36	U
75-35-4	1,1-Dichloroethene	36	U
107-06-2	1,2-Dichloroethane	36	U
540-59-0	1,2-Dichloroethene, Total	73	U
78-87-5	1,2-Dichloropropane	36	U
542-75-6	1,3-Dichloropropene, Total	73	U
78-93-3	2-Butanone	240	U J
591-78-6	2-Hexanone	36	U
108-10-1	4-Methyl-2-pentanone	36	U
67-64-1	Acetone	120	U J
71-43-2	Benzene	36	U
75-27-4	Bromodichloromethane	36	U
75-25-2	Bromoform	36	U
74-83-9	Bromomethane	91	U J
75-15-0	Carbon disulfide	36	U
56-23-5	Carbon tetrachloride	36	U
108-90-7	Chlorobenzene	36	U
75-00-3	Chloroethane	120	U
67-66-3	Chloroform	36	U
74-87-3	Chloromethane	120	U
156-59-2	cis-1,2-Dichloroethene	36	U
10061-01-5	cis-1,3-Dichloropropene	36	U J
124-48-1	Dibromochloromethane	36	U
100-41-4	Ethylbenzene	36	U
M/P-XYLENE	m,p-Xylene	73	U
75-09-2	Methylene chloride	36	JU
95-47-6	o-Xylene	36	U
100-42-5	Styrene	36	U
127-18-4	Tetrachloroethene	36	U

1A

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB-18

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.:

SAS No.:

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-14A

Sample wt/vol: 5.00 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 17

Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

µg/Kg-dry Q

108-88-3	Toluene	36	U
156-60-5	trans-1,2-Dichloroethene	36	U
10061-02-6	trans-1,3-Dichloropropene	36	U ₁
79-01-6	Trichloroethene	36	U
75-01-4	Vinyl chloride	36	U
1330-20-7	Xylenes, Total	110	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB-19

Lab Name: ALS Group USA, CorpLab Code: MI01262

Case No.:

SAS No.:

SDG No. 1402737

Matrix:

SoilLab Sample ID: 1402737-15A

Sample wt/vol:

5.00 (g/mL) g

Lab File ID:

Level:

(low/med)

lowDate Received: 2/18/2014

% Moisture: not dec.

17Date Analyzed: 2/22/2014

GC Column:

DB624ID: 0.18 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

µg/Kg-dry Q

71-55-6	1,1,1-Trichloroethane	36	U
79-34-5	1,1,2,2-Tetrachloroethane	36	U
79-00-5	1,1,2-Trichloroethane	36	U
75-34-3	1,1-Dichloroethane	36	U
75-35-4	1,1-Dichloroethene	36	U
107-06-2	1,2-Dichloroethane	36	U
540-59-0	1,2-Dichloroethene, Total	72	U
78-87-5	1,2-Dichloropropane	36	U
542-75-6	1,3-Dichloropropene, Total	72	U
78-93-3	2-Butanone	240	U <u>H</u>
591-78-6	2-Hexanone	36	U
108-10-1	4-Methyl-2-pentanone	36	U
67-64-1	Acetone	120	U <u>H</u>
71-43-2	Benzene	36	U
75-27-4	Bromodichloromethane	36	U
75-25-2	Bromoform	36	U
74-83-9	Bromomethane	91	U <u>H</u>
75-15-0	Carbon disulfide	36	U
56-23-5	Carbon tetrachloride	36	U
108-90-7	Chlorobenzene	36	U
75-00-3	Chloroethane	120	U
67-66-3	Chloroform	36	U
74-87-3	Chloromethane	120	U
156-59-2	cis-1,2-Dichloroethene	36	U
10061-01-5	cis-1,3-Dichloropropene	36	U <u>H</u>
124-48-1	Dibromochloromethane	36	U
100-41-4	Ethylbenzene	36	U
M/P-XYLENE	m,p-Xylene	72	U
75-09-2	Methylene chloride	36	U
95-47-6	o-Xylene	36	U
100-42-5	Styrene	36	U
127-18-4	Tetrachloroethene	36	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-19

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1402737

Matrix: Soil Lab Sample ID: 1402737-15A

Sample wt/vol: 5.00 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 2/18/2014

% Moisture: not dec. 17 Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND µg/Kg-dry Q

108-88-3	Toluene	36	U
156-60-5	trans-1,2-Dichloroethene	36	U
10061-02-6	trans-1,3-Dichloropropene	36	U J
79-01-6	Trichloroethene	36	U
75-01-4	Vinyl chloride	36	U
1330-20-7	Xylenes, Total	110	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-21

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1402737

Matrix: Soil Lab Sample ID: 1402737-16A

Sample wt/vol: 5.00 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 2/18/2014

% Moisture: not dec. 23 Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND µg/Kg-dry Q

71-55-6	1,1,1-Trichloroethane	39	U
79-34-5	1,1,2,2-Tetrachloroethane	39	U
79-00-5	1,1,2-Trichloroethane	39	U
75-34-3	1,1-Dichloroethane	39	U
75-35-4	1,1-Dichloroethene	39	U
107-06-2	1,2-Dichloroethane	39	U
540-59-0	1,2-Dichloroethene, Total	78	U
78-87-5	1,2-Dichloropropane	39	U
542-75-6	1,3-Dichloropropene, Total	78	U
78-93-3	2-Butanone	260	U <u>H</u>
591-78-6	2-Hexanone	39	U
108-10-1	4-Methyl-2-pentanone	39	U
67-64-1	Acetone	130	U <u>H</u>
71-43-2	Benzene	39	U
75-27-4	Bromodichloromethane	39	U
75-25-2	Bromoform	39	U
74-83-9	Bromomethane	97	U <u>H</u>
75-15-0	Carbon disulfide	65	
56-23-5	Carbon tetrachloride	39	U
108-90-7	Chlorobenzene	39	U
75-00-3	Chloroethane	130	U
67-66-3	Chloroform	39	U
74-87-3	Chloromethane	130	U
156-59-2	cis-1,2-Dichloroethene	39	U
10061-01-5	cis-1,3-Dichloropropene	39	U <u>H</u>
124-48-1	Dibromochloromethane	39	U
100-41-4	Ethylbenzene	39	U
M/P-XYLENE	m,p-Xylene	78	U
75-09-2	Methylene chloride	39	JU
95-47-6	o-Xylene	39	U
100-42-5	Styrene	39	U
127-18-4	Tetrachloroethene	39	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-21

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1402737

Matrix: Soil Lab Sample ID: 1402737-16A

Sample wt/vol: 5.00 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 2/18/2014

% Moisture: not dec. 23 Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND µg/Kg-dry Q

108-88-3	Toluene	39	U
156-60-5	trans-1,2-Dichloroethene	39	U
10061-02-6	trans-1,3-Dichloropropene	39	U
79-01-6	Trichloroethene	39	U
75-01-4	Vinyl chloride	39	U
1330-20-7	Xylenes, Total	120	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-22

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1402737

Matrix: Soil Lab Sample ID: 1402737-17A

Sample wt/vol: 5.00 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 2/18/2014

% Moisture: not dec. 30 Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>µg/Kg-dry</u>	Q
71-55-6	1,1,1-Trichloroethane	43	U
79-34-5	1,1,2,2-Tetrachloroethane	43	U
79-00-5	1,1,2-Trichloroethane	43	U
75-34-3	1,1-Dichloroethane	43	U
75-35-4	1,1-Dichloroethene	43	U
107-06-2	1,2-Dichloroethane	43	U
540-59-0	1,2-Dichloroethene, Total	86	U
78-87-5	1,2-Dichloropropane	43	U
542-75-6	1,3-Dichloropropene, Total	86	U
78-93-3	2-Butanone	290	U <i>h</i>
591-78-6	2-Hexanone	43	U
108-10-1	4-Methyl-2-pentanone	43	U
67-64-1	Acetone	140	U <i>h</i>
71-43-2	Benzene	43	U
75-27-4	Bromodichloromethane	43	U
75-25-2	Bromoform	43	U
74-83-9	Bromomethane	110	U <i>h</i>
75-15-0	Carbon disulfide	100	U
56-23-5	Carbon tetrachloride	43	U
108-90-7	Chlorobenzene	43	U
75-00-3	Chloroethane	140	U
67-66-3	Chloroform	43	U
74-87-3	Chloromethane	140	U
156-59-2	cis-1,2-Dichloroethene	43	U
10061-01-5	cis-1,3-Dichloropropene	43	U <i>h</i>
124-48-1	Dibromochloromethane	43	U
100-41-4	Ethylbenzene	43	U
M/P-XYLENE	m,p-Xylene	86	U
75-09-2	Methylene chloride	43	U
95-47-6	o-Xylene	43	U
100-42-5	Styrene	43	U
127-18-4	Tetrachloroethene	43	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-22

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1402737

Matrix: Soil Lab Sample ID: 1402737-17A

Sample wt/vol: 5.00 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 2/18/2014

% Moisture: not dec. 30 Date Analyzed: 2/22/2014

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/Kg-dry	Q
108-88-3	Toluene	43	U
156-60-5	trans-1,2-Dichloroethene	43	U
10061-02-6	trans-1,3-Dichloropropene	43	U
79-01-6	Trichloroethene	43	U
75-01-4	Vinyl chloride	43	U
1330-20-7	Xylenes, Total	130	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Trip Blank

Lab Name: ALS Group USA, Corp

Lab Code: MI01262 Case No.: SAS No.: SDG No. 1402737

Matrix: Water Lab Sample ID: 1402737-26A

Sample wt/vol: 5.00 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 2/18/2014

% Moisture: not dec. 0 Date Analyzed: 2/25/2014

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/L	Q
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
540-59-0	1,2-Dichloroethene, Total	2.0	U
78-87-5	1,2-Dichloropropane	2.0	U
542-75-6	1,3-Dichloropropene, Total	2.0	U
78-93-3	2-Butanone	5.0	U H
591-78-6	2-Hexanone	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
67-64-1	Acetone	20	U H
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U H
75-15-0	Carbon disulfide	2.5	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U H
124-48-1	Dibromochloromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
M/P-XYLENE	m,p-Xylene	2.0	U
75-09-2	Methylene chloride	5.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethene	2.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Trip Blank

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.:

SAS No.:

SDG No. 1402737

Matrix: Water

Lab Sample ID: 1402737-26A

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 0

Date Analyzed: 2/25/2014

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (mL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/L	Q
108-88-3	Toluene	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	UJ
79-01-6	Trichloroethene	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes, Total	3.0	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-17DL

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-01B

Sample wt/vol: 30,531 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 4.9

Date Extracted 2/24/2014

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 2/26/2014

Injection Volume: 1 (uL)

Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/Kg-dry	Q
83-32-9	Acenaphthene	69	UD ✓
208-96-8	Acenaphthylene	69	UD ↓
120-12-7	Anthracene	69	UD ✓
56-55-3	Benzo (a) anthracene	120	D ✓
50-32-8	Benzo (a) pyrene	69	D ↓
205-99-2	Benzo (b) fluoranthene	83	D ↓
DMO-412-11	Benzo (b-k) fluoranthene	140	JUD ✓
192-97-2	Benzo (e) pyrene	210	UD ✓
191-24-2	Benzo (g, h, i) perylene	69	JUD
207-08-9	Benzo (k) fluoranthene	69	JUD
218-01-9	Chrysene	69	UD
53-70-3	Dibenzo (a, h) anthracene	69	JUD
206-44-0	Fluoranthene	69	JUD
86-73-7	Fluorene	69	UD
193-39-5	Indeno (1, 2, 3-cd) pyrene	69	JUD
91-20-3	Naphthalene	69	UD
85-01-8	Phenanthrene	69	JUD
129-00-0	Pyrene	69	JUD ✓

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-17 FDDL

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-02B

Sample wt/vol: 30,818 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 18

Date Extracted 2/24/2014

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 2/26/2014

Injection Volume: 1 (uL)

Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/Kg-dry	Q
83-32-9	Acenaphthene	79	UD
208-96-8	Acenaphthylene	79	JUD
120-12-7	Anthracene	79	JUD
56-55-3	Benzo (a) anthracene	79	JUD
50-32-8	Benzo (a) pyrene	87	DJ
205-99-2	Benzo (b) fluoranthene	100	DJ
DMO-412-11	Benzo (b-k) fluoranthene	160	JUD
192-97-2	Benzo (e) pyrene	240	UD
191-24-2	Benzo (g, h, i) perylene	79	JUD
207-08-9	Benzo (k) fluoranthene	79	UD
218-01-9	Chrysene	110	DJ
53-70-3	Dibenzo (a, h) anthracene	79	JUD
206-44-0	Fluoranthene	79	JD
86-73-7	Fluorene	79	UD
193-39-5	Indeno (1, 2, 3-cd) pyrene	79	JUD
91-20-3	Naphthalene	79	UD
85-01-8	Phenanthrene	79	JUD
129-00-0	Pyrene	79	JUD

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-17

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-03B

Sample wt/vol: 15,708 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 23

Date Extracted 2/24/2014

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 2/25/2014

Injection Volume: 1 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>µg/Kg-dry</u>	<u>Q</u>
83-32-9	Acenaphthene	8.2	U
208-96-8	Acenaphthylene	8.2	U
120-12-7	Anthracene	8.2	U
56-55-3	Benzo(a)anthracene	8.2	U
50-32-8	Benzo(a)pyrene	8.2	JU
205-99-2	Benzo(b)fluoranthene	8.2	JU
DMO-412-11	Benzo(b-k)fluoranthene	16	JU
192-97-2	Benzo(e)pyrene	25	U
191-24-2	Benzo(g,h,i)perylene	8.2	U
207-08-9	Benzo(k)fluoranthene	8.2	U
218-01-9	Chrysene	8.2	U
53-70-3	Dibenzo(a,h)anthracene	8.2	U
206-44-0	Fluoranthene	8.2	JU
86-73-7	Fluorene	8.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.2	JU
91-20-3	Naphthalene	8.2	U
85-01-8	Phenanthrene	8.2	JU
129-00-0	Pyrene	8.2	JU

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-17 FD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-04B

Sample wt/vol: 15,245 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 21

Date Extracted 2/24/2014

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 2/25/2014

Injection Volume: 1 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>µg/Kg-dry</u>	Q
83-32-9	Acenaphthene	8.3	U
208-96-8	Acenaphthylene	8.3	U
120-12-7	Anthracene	8.3	U
56-55-3	Benzo(a)anthracene	8.3	U
50-32-8	Benzo(a)pyrene	8.3	U
205-99-2	Benzo(b)fluoranthene	8.3	U
DMO-412-11	Benzo(b-k)fluoranthene	17	U
192-97-2	Benzo(e)pyrene	25	U
191-24-2	Benzo(g,h,i)perylene	8.3	U
207-08-9	Benzo(k)fluoranthene	8.3	U
218-01-9	Chrysene	8.3	U
53-70-3	Dibenzo(a,h)anthracene	8.3	U
206-44-0	Fluoranthene	8.3	U
86-73-7	Fluorene	8.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.3	U
91-20-3	Naphthalene	8.3	U
85-01-8	Phenanthrene	8.3	U
129-00-0	Pyrene	8.3	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-19 with MS/MSD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-05B

Sample wt/vol: 15,243 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 14

Date Extracted 2/24/2014

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 2/25/2014

Injection Volume: 1 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/Kg-dry	Q
83-32-9	Acenaphthene	7.6	U
208-96-8	Acenaphthylene	7.6	U
120-12-7	Anthracene	7.6	U
56-55-3	Benzo(a)anthracene	7.6	U
50-32-8	Benzo(a)pyrene	7.6	U
205-99-2	Benzo(b)fluoranthene	7.6	U
DMO-412-11	Benzo(b-k)fluoranthene	15	U
192-97-2	Benzo(e)pyrene	23	U
191-24-2	Benzo(g,h,i)perylene	7.6	U
207-08-9	Benzo(k)fluoranthene	7.6	U
218-01-9	Chrysene	7.6	U
53-70-3	Dibenzo(a,h)anthracene	7.6	U
206-44-0	Fluoranthene	7.6	JU
86-73-7	Fluorene	7.6	U
193-39-5	Indeno(1,2,3-cd)pyrene	7.6	U
91-20-3	Naphthalene	7.6	U
85-01-8	Phenanthrene	7.6	U
129-00-0	Pyrene	7.6	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-20 with MS/MSD

Lab Name: ALS Group USA, Corp

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-06B

Sample wt/vol: 15,675 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 21

Date Extracted 2/24/2014

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 2/25/2014

Injection Volume: 1 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>µg/Kg-dry Q</u>	
83-32-9	Acenaphthene	8.0	U
208-96-8	Acenaphthylene	8.0	U
120-12-7	Anthracene	8.0	U
56-55-3	Benzo(a)anthracene	8.0	U
50-32-8	Benzo(a)pyrene	8.0	U
205-99-2	Benzo(b)fluoranthene	8.0	U
DMO-412-11	Benzo(b-k)fluoranthene	16	U
192-97-2	Benzo(e)pyrene	24	U
191-24-2	Benzo(g,h,i)perylene	8.0	U
207-08-9	Benzo(k)fluoranthene	8.0	U
218-01-9	Chrysene	8.0	U
53-70-3	Dibenzo(a,h)anthracene	8.0	U
206-44-0	Fluoranthene	8.0	U
86-73-7	Fluorene	8.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.0	U
91-20-3	Naphthalene	8.0	U
85-01-8	Phenanthrene	8.0	U
129-00-0	Pyrene	8.0	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-18

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-10B

Sample wt/vol: 30,433 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 15

Date Extracted 2/21/2014

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 2/25/2014

Injection Volume: 1 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/Kg-dry	Q
83-32-9	Acenaphthene	3.8	U
208-96-8	Acenaphthylene	3.8	U
120-12-7	Anthracene	3.8	U
56-55-3	Benzo (a) anthracene	3.8	JU
50-32-8	Benzo (a) pyrene	3.8	JU
205-99-2	Benzo (b) fluoranthene	3.8	JU
DMO-412-11	Benzo (b-k) fluoranthene	7.7	JU
192-97-2	Benzo (e) pyrene	12	U
191-24-2	Benzo (g, h, i) perylene	3.8	JU
207-08-9	Benzo (k) fluoranthene	3.8	JU
218-01-9	Chrysene	3.8	JU
53-70-3	Dibenzo (a, h) anthracene	3.8	JU
206-44-0	Fluoranthene	3.8	JU
86-73-7	Fluorene	3.8	U
193-39-5	Indeno (1, 2, 3-cd) pyrene	3.8	JU
91-20-3	Naphthalene	3.8	U
85-01-8	Phenanthrene	3.8	JU
129-00-0	Pyrene	3.8	JU

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-20

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-11B

Sample wt/vol: 10,165 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 11

Date Extracted 2/21/2014

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 2/25/2014

Injection Volume: 1 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>µg/Kg-dry Q</u>	
83-32-9	Acenaphthene	11	U
208-96-8	Acenaphthylene	11	U
120-12-7	Anthracene	11	JU
56-55-3	Benzo(a)anthracene	11	JU
192-97-2	Benzo(e)pyrene	33	U R
218-01-9	Chrysene	11	JU
206-44-0	Fluoranthene	17	
86-73-7	Fluorene	11	U
91-20-3	Naphthalene	11	U
85-01-8	Phenanthrene	11	JU
129-00-0	Pyrene	15	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-20DL

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-11B

Sample wt/vol: 10,165 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 11

Date Extracted 2/21/2014

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 2/25/2014

Injection Volume: 1 (uL)

Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	μg/Kg-dry	Q
50-32-8	Benzo(a)pyrene	110	JUD
205-99-2	Benzo(b)fluoranthene	110	UD
DMO-412-11	Benzo(b-k)fluoranthene	220	UD
191-24-2	Benzo(g,h,i)perylene	110	UD
207-08-9	Benzo(k)fluoranthene	110	UD
53-70-3	Dibenzo(a,h)anthracene	110	UD
193-39-5	Indeno(1,2,3-cd)pyrene	110	JUD

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Matrix: Soil

Sample wt/vol: 15,354 (g/mL) g

Level: (low/med) low

% Moisture: not dec. 14

Concentrated Extract Volume: 1000 (uL)

Injection Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH 0

SS-21

SDG No. 1402737

Lab Sample ID: 1402737-12B

Lab File ID:

Date Received: 2/18/2014

Date Extracted 2/21/2014

Date Analyzed: 2/25/2014

Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>µg/Kg-dry Q</u>	
83-32-9	Acenaphthene	7.6	U
208-96-8	Acenaphthylene	7.6	U
120-12-7	Anthracene	7.6	U
56-55-3	Benzo (a) anthracene	29	
192-97-2	Benzo (e) pyrene	33	J
218-01-9	Chrysene	27	
206-44-0	Fluoranthene	50	
86-73-7	Fluorene	7.6	U
91-20-3	Naphthalene	7.6	U
85-01-8	Phenanthrene	21	
129-00-0	Pyrene	55	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-21DL

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-12B

Sample wt/vol: 15,354 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 14

Date Extracted 2/21/2014

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 2/24/2014

Injection Volume: 1 (uL)

Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>µg/Kg-dry</u> Q	
50-32-8	Benzo (a) pyrene	76	JUD
205-99-2	Benzo (b) fluoranthene	76	JUD
DMO-412-11	Benzo (b-k) fluoranthene	150	JUD
191-24-2	Benzo (g, h, i) perylene	76	JUD
207-08-9	Benzo (k) fluoranthene	76	JUD
53-70-3	Dibenzo (a, h) anthracene	76	UD
193-39-5	Indeno (1, 2, 3-cd) pyrene	76	UD

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-22

Lab Name: ALS Group USA, Corp

SDG No. 1402737

Lab Code: MI01262

Matrix: Soil

Lab Sample ID: 1402737-13B

Sample wt/vol: 15,848 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 11

Date Extracted 2/21/2014

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 2/24/2014

Injection Volume: 1 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/Kg-dry Q	
83-32-9	Acenaphthene	7.1	U
208-96-8	Acenaphthylene	7.1	JU
120-12-7	Anthracene	7.1	JU
56-55-3	Benzo(a)anthracene	17	
50-32-8	Benzo(a)pyrene	18	
205-99-2	Benzo(b)fluoranthene	22	
DMO-412-11	Benzo(b-k)fluoranthene	33	
192-97-2	Benzo(e)pyrene	21	JU
191-24-2	Benzo(g,h,i)perylene	29	
207-08-9	Benzo(k)fluoranthene	11	
218-01-9	Chrysene	15	
53-70-3	Dibenzo(a,h)anthracene	7.1	
206-44-0	Fluoranthene	28	
86-73-7	Fluorene	7.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	16	
91-20-3	Naphthalene	7.1	JU
85-01-8	Phenanthrene	9.9	
129-00-0	Pyrene	21	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-18

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-14B

Sample wt/vol: 15,257 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 17

Date Extracted 2/21/2014

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 2/24/2014

Injection Volume: 1 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/Kg-dry	Q
83-32-9	Acenaphthene	7.9	U
208-96-8	Acenaphthylene	7.9	U
120-12-7	Anthracene	7.9	U
56-55-3	Benzo(a)anthracene	7.9	U
50-32-8	Benzo(a)pyrene	7.9	U
205-99-2	Benzo(b)fluoranthene	7.9	U
DMO-412-11	Benzo(b-k)fluoranthene	16	U
192-97-2	Benzo(e)pyrene	24	U
191-24-2	Benzo(g,h,i)perylene	7.9	U
207-08-9	Benzo(k)fluoranthene	7.9	U
218-01-9	Chrysene	7.9	U
53-70-3	Dibenzo(a,h)anthracene	7.9	U
206-44-0	Fluoranthene	7.9	U
86-73-7	Fluorene	7.9	U
193-39-5	Indeno(1,2,3-cd)pyrene	7.9	U
91-20-3	Naphthalene	7.9	U
85-01-8	Phenanthrene	7.9	U
129-00-0	Pyrene	7.9	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-19

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-15B

Sample wt/vol: 15,239 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 17

Date Extracted 2/21/2014

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 2/26/2014

Injection Volume: 1 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>µg/Kg-dry Q</u>	
83-32-9	Acenaphthene	7.9	U
208-96-8	Acenaphthylene	7.9	U
120-12-7	Anthracene	7.9	U
56-55-3	Benzo (a) anthracene	7.9	JU
50-32-8	Benzo (a) pyrene	7.9	JU
205-99-2	Benzo (b) fluoranthene	7.9	J
DMO-412-11	Benzo (b-k) fluoranthene	16	JU
192-97-2	Benzo (e) pyrene	24	U
191-24-2	Benzo (q, h, i) perylene	7.9	JU
207-08-9	Benzo (k) fluoranthene	7.9	U
218-01-9	Chrysene	7.9	U
53-70-3	Dibenzo (a, h) anthracene	7.9	JU
206-44-0	Fluoranthene	7.9	JU
86-73-7	Fluorene	7.9	U
193-39-5	Indeno (1, 2, 3-cd) pyrene	7.9	JU
91-20-3	Naphthalene	7.9	U
85-01-8	Phenanthrene	7.9	JU
129-00-0	Pyrene	7.9	JU

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Matrix: Soil

Sample wt/vol: 15,272 (g/mL) g

Level: (low/med) low

% Moisture: not dec. 23

Concentrated Extract Volume: 1000 (uL)

Injection Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH 0

SB-21

SDG No. 1402737

Lab Sample ID: 1402737-16B

Lab File ID:

Date Received: 2/18/2014

Date Extracted 2/21/2014

Date Analyzed: 2/24/2014

Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO.	COMPOUND	µg/Kg-dry Q	
83-32-9	Acenaphthene	8.5	U
208-96-8	Acenaphthylene	8.5	U
120-12-7	Anthracene	8.5	U
56-55-3	Benzo(a)anthracene	8.5	U
50-32-8	Benzo(a)pyrene	8.5	U
205-99-2	Benzo(b)fluoranthene	8.5	U
DMO-412-11	Benzo(b-k)fluoranthene	17	U
192-97-2	Benzo(e)pyrene	25	U
191-24-2	Benzo(g,h,i)perylene	8.5	U
207-08-9	Benzo(k)fluoranthene	8.5	U
218-01-9	Chrysene	8.5	U
53-70-3	Dibenzo(a,h)anthracene	8.5	U
206-44-0	Fluoranthene	8.5	U
86-73-7	Fluorene	8.5	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.5	U
91-20-3	Naphthalene	8.5	U
85-01-8	Phenanthrene	8.5	U
129-00-0	Pyrene	8.5	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-22DL

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-17B

Sample wt/vol: 15,752 (g/mL) g

Lab File ID:

Level: (low/med) low

Date Received: 2/18/2014

% Moisture: not dec. 30

Date Extracted 2/21/2014

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 2/24/2014

Injection Volume: 1 (uL)

Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH 0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	<u>ug/Kg-dry</u> Q	
83-32-9	Acenaphthene	91	UD
208-96-8	Acenaphthylene	91	JUD
120-12-7	Anthracene	91	JUD
56-55-3	Benzo (a) anthracene	130	D
50-32-8	Benzo (a) pyrene	120	D
205-99-2	Benzo (b) fluoranthene	130	D
DMO-412-11	Benzo (b-k) fluoranthene	210	D
192-97-2	Benzo (e) pyrene	270	UD
191-24-2	Benzo (g, h, i) perylene	91	JUD
207-08-9	Benzo (k) fluoranthene	91	JUD
218-01-9	Chrysene	110	D
53-70-3	Dibenzo (a, h) anthracene	91	UD
206-44-0	Fluoranthene	190	D
86-73-7	Fluorene	91	UD
193-39-5	Indeno (1, 2, 3-cd) pyrene	91	JUD
91-20-3	Naphthalene	91	JUD
85-01-8	Phenanthrene	100	D
129-00-0	Pyrene	170	D

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-17

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-01B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 4.9

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	110			MS
7440-39-3	Barium	210			MS
7440-43-9	Cadmium	2.4			MS
7440-47-3	Chromium	21			MS
7439-92-1	Lead	180			MS
7782-49-2	Selenium	6.8			MS
7440-22-4	Silver	2.0	JU		MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-17 FD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-02B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 18

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	110			MS
7440-39-3	Barium	620			MS
7440-43-9	Cadmium	1.9			MS
7440-47-3	Chromium	25			MS
7439-92-1	Lead	240			MS
7782-49-2	Selenium	1.9	JU		MS
7440-22-4	Silver	1.9	JU		MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-17

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-03B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 23

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	7.3			MS
7440-39-3	Barium	210			MS
7440-43-9	Cadmium	0.95	JU		MS
7440-47-3	Chromium	15			MS
7439-92-1	Lead	17			MS
7782-49-2	Selenium	2.4	JU		MS
7440-22-4	Silver	2.4	JU		MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-17 FD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-04B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 21

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	8.5			MS
7440-39-3	Barium	120			MS
7440-43-9	Cadmium	0.88	JU		MS
7440-47-3	Chromium	15			MS
7439-92-1	Lead	15			MS
7782-49-2	Selenium	2.2	JU		MS
7440-22-4	Silver	2.2	JU		MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-19 with MS/MSD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-05B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 14

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	8.8			MS
7440-39-3	Barium	190			MS
7440-43-9	Cadmium	0.85	JU		MS
7440-47-3	Chromium	15			MS
7439-92-1	Lead	15			MS
7782-49-2	Selenium	2.1	JU		MS
7440-22-4	Silver	2.1	JU		MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: ALS Group USA, Corp

SB-20 with MS/MSD

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-06B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 21

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	11			MS
7440-39-3	Barium	120			MS
7440-43-9	Cadmium	0.80	JU		MS
7440-47-3	Chromium	18			MS
7439-92-1	Lead	15			MS
7782-49-2	Selenium	2.0	JU		MS
7440-22-4	Silver	2.0	JU		MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BG-1

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-07A

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 19

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	7.1			MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BG-1 FD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-08A

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 20

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	6.9			MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: ALS Group USA, Corp

BG-2 with MS/MSD

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-09A

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 16

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	7.3			MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-18

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-10B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 15

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	7.8			MS
7440-39-3	Barium	160			MS
7440-43-9	Cadmium	0.88	JU		MS
7440-47-3	Chromium	14			MS
7439-92-1	Lead	13			MS
7782-49-2	Selenium	2.2	JU		MS
7440-22-4	Silver	2.2	JU		MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-20

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-11B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 11

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	11			MS
7440-39-3	Barium	42			MS
7440-43-9	Cadmium	0.72	JU		MS
7440-47-3	Chromium	9.3			MS
7439-92-1	Lead	11			MS
7782-49-2	Selenium	1.8	JU		MS
7440-22-4	Silver	1.8	JU		MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-21

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-12B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 14

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	11			MS
7440-39-3	Barium	120			MS
7440-43-9	Cadmium	1.8			MS
7440-47-3	Chromium	9.8			MS
7439-92-1	Lead	49			MS
7782-49-2	Selenium	2.1	JU		MS
7440-22-4	Silver	2.1	JU		MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-22

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-13B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 11

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	41			MS
7440-39-3	Barium	350			MS
7440-43-9	Cadmium	0.92	cb		MS
7440-47-3	Chromium	14			MS
7439-92-1	Lead	45			MS
7782-49-2	Selenium	1.9	JU		MS
7440-22-4	Silver	1.9	JU		MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-18

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-14B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 17

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	9.0			MS
7440-39-3	Barium	120			MS
7440-43-9	Cadmium	0.91	JU		MS
7440-47-3	Chromium	14			MS
7439-92-1	Lead	15			MS
7782-49-2	Selenium	2.3	JU		MS
7440-22-4	Silver	2.3	JU		MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-19

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-15B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 17

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	8.6			MS
7440-39-3	Barium	110			MS
7440-43-9	Cadmium	0.78	JU		MS
7440-47-3	Chromium	14			MS
7439-92-1	Lead	11			MS
7782-49-2	Selenium	1.9	JU		MS
7440-22-4	Silver	1.9	JU		MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-21

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-16B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 23

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	9.9			MS
7440-39-3	Barium	130			MS
7440-43-9	Cadmium	0.90	JU		MS
7440-47-3	Chromium	15			MS
7439-92-1	Lead	16			MS
7782-49-2	Selenium	2.3	JU		MS
7440-22-4	Silver	2.3	JU		MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-22

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-17B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 30

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	130			MS
7440-39-3	Barium	120			MS
7440-43-9	Cadmium	1.2	JU		MS
7440-47-3	Chromium	32			MS
7439-92-1	Lead	69			MS
7782-49-2	Selenium	9.1			MS
7440-22-4	Silver	2.9	JU		MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BG-3

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-18A

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 17

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	7.2			MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BG-4

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-19A

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 18

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	6.1			MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BG-5

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-20A

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 19

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	6.6			MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BG-6

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-21A

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 21

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	6.3			MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BG-7

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-22A

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 20

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	17	J		MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BG-8

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-23A

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 28

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	7.8]		MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BG-9

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-24A

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 25

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	10			MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BG-10

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-25A

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 28

Date Prep: 2/21/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7440-38-2	Arsenic	12	J		MS

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-17

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-01B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 4.9

Date Prep: 2/24/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7439-97-6	Mercury	0.029			CV

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-17 FD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-02B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 18

Date Prep: 2/24/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7439-97-6	Mercury	0.20			CV

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-17

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-03B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 23

Date Prep: 2/24/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7439-97-6	Mercury	0.044			CV

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-17 FD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-04B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 21

Date Prep: 2/24/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
<u>7439-97-6</u>	<u>Mercury</u>	<u>0.049</u>			<u>CV</u>

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-19 with MS/MSD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-05B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 14

Date Prep: 2/24/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7439-97-6	Mercury	0.041			CV

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-20 with MS/MSD

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-06B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 21

Date Prep: 2/24/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7439-97-6	Mercury	0.044			CV

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-18

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-10B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 15

Date Prep: 2/24/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7439-97-6	Mercury	0.035			CV

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-20

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-11B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 11

Date Prep: 2/24/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7439-97-6	Mercury	0.017			CV

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-21

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-12B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 14

Date Prep: 2/24/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7439-97-6	Mercury	0.086			CV

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-22

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-13B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 11

Date Prep: 2/24/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7439-97-6	Mercury	0.087			CV

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-18

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-14B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 17

Date Prep: 2/24/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7439-97-6	Mercury	0.040			CV

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-19

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-15B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 17

Date Prep: 2/24/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7439-97-6	Mercury	0.034			CV

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-21

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-16B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 23

Date Prep: 2/24/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7439-97-6	Mercury	0.054			CV

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-22

Lab Name: ALS Group USA, Corp

Lab Code: MI01262

Case No.

SAS No

SDG No. 1402737

Matrix: Soil

Lab Sample ID: 1402737-17B

Level (low/med): LOW

Date Received: 2/18/2014

% Moisture: not dec. 30

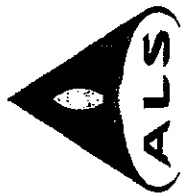
Date Prep: 2/24/2014

CONCENTRATION UNITS: mg/Kg-dry

CAS NO.	COMPOUND	CONCENTRATION	C	Q	M
7439-97-6	Mercury	0.24			CV

ATTACHMENT B

CASE NARRATIVE & COC



ALS Environmental
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Chain of Custody Form

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ALS Environmental
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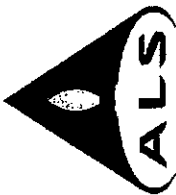
Customer Information		ALS Project Manager:		Parameter/Method Request for Analysis													
Purchase Order: 04-13-0402		Project Name: John's Manville-Rverside Parcels		VOC by 8260													
Work Order:		Project Number: 04-13-0402		PAH 8270 SIM													
Company Name: Triad Engineering, Inc.		Bill To Company: Triad Engineering, Inc.		RCRA 8 Metals													
Send Report To: Matthew Wright		Invoice Attn: Jamie Stemple		Arsenic													
Address: 4980 Teays Valley Rd.		Address: 219 Hartman Run Rd.															
City/State/Zip: Scott Depot, WV 25560		City/State/Zip: Morgantown, WV 26505															
Phone: 304-755-0721		Phone: 304-296-2562															
Fax: 304-755-1880		Fax: 304-296-8739															
e-Mail Address: mwright@triadeng.com		jstemple@triadeng.com															
No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	*Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SS-17	2/14/2014	1015	soil	7,6,8	5	X	X	X								
2	SS-17 FD	2/14/2014	1015	soil	7,6,8	10	X	X	X								
3	SB-17	2/14/2014	1030	soil	7,6,8	5	X	X	X								
4	SB-17 FD	2/14/2014	1030	soil	7,6,8	10	X	X	X								
5	SS-19 with MS/MSD	2/14/2014	1115	soil	7,6,8	15	X	X	X								
6	SB-20 with MS/MSD	2/14/2014	1200	soil	7,6,8	15	X	X	X								
7	BG-1	2/14/2014	1500	soil	8	1				X							
8	BG-1FD	2/14/2014	1500	soil	8	1				X							
9	BG-2 with MS/MSD	2/14/2014	1510	soil	8	3				X							
10																	

Shipper(s): Please Print & Sign Matthew Wright		Date: 2/17/14 Time: 1510		Received by: [Signature]		Date: 2/17/14 Time: 0745		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> 10-WK-DAYS <input type="checkbox"/> 5-WK-DAYS <input type="checkbox"/> 3-WK-DAYS <input type="checkbox"/> 24-HOUR		Results Due Date	
Retransmitted by: [Signature]		Date: 2/17/14 Time: 0745		Received by (Laboratory): [Signature]		Date: 2/18/14 Time: 0745		ALS Cooler ID		Notes:	
Retransmitted by: [Signature]		Date: 2/17/14 Time: 0745		Received by (Laboratory): [Signature]		Date: 2/18/14 Time: 0745		ALS Cooler ID		Temp: 6°C 43°C	
Lodged by (Laboratory): [Signature]		Date: 2/17/14 Time: 0745		Received by (Laboratory): [Signature]		Date: 2/18/14 Time: 0745		Level II: Standard OC <input type="checkbox"/> TRRP LRC <input type="checkbox"/> Level IV: SW846 Methods/CLP like <input type="checkbox"/> Other:		Results Due Date: 2/19/14 1500	

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.

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ALS Environmental
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 Holland, Michigan 49424
 (Tel) 616.399.6070
 (Fax) 616.399.6185

Customer Information		ALS Project Manager:		ALS Work Order #: <u>402737</u>	
Project Information		Project Name: <u>John's Manville-Riverside Parcels</u>		Parameter/Method Request for Analysis	
Purchase Order	<u>04-13-0402</u>	Project Number	<u>04-13-0402</u>	A	<u>VOC by 8260</u>
Work Order		Bill To Company	<u>Triad Engineering, Inc.</u>	B	<u>PAH 8270 SIM</u>
Company Name	<u>Triad Engineering, Inc.</u>	Invoice Attn:	<u>Jamie Stemple</u>	C	<u>RCRA 8 Metals</u>
Send Report To	<u>Matthew Wright</u>	Address	<u>219 Hartman Run Rd.</u>	D	<u>Arsenic</u>
Address	<u>4980 Teays Valley Rd.</u>	City/State/Zip	<u>Morgantown, WV 26505</u>	E	
City/State/Zip	<u>Scott Depot, WV 25560</u>	Phone	<u>304-755-0721</u>	F	
Phone	<u>304-755-0721</u>	Fax	<u>304-296-2562</u>	G	
Fax	<u>304-755-1880</u>	e-Mail Address	<u>mwright@triadeng.com</u>	H	
e-Mail Address	<u>mwright@triadeng.com</u>	Pres. Key Numbers	<u>istemple@triadeng.com</u>	I	
Sample Description		Matrix		J	
No.		Date		A	
1	SS-18	2/14/2014	soil	5	X
2	SS-20	2/14/2014	soil	5	X
3	SS-21	2/14/2014	soil	5	X
4	SS-22	2/14/2014	soil	5	X
5	SB-18	2/14/2014	soil	5	X
6	SB-19	2/14/2014	soil	5	X
7	SB-21	2/14/2014	soil	5	X
8	SB-22	2/14/2014	soil	5	X
9	BG-3	2/14/2014	soil	5	X
10	BG-4	2/14/2014	soil	5	X
Sampler(s): Please Print & Sign		Required Turnaround Time: (Check Box)		Results Due Date:	
Matthew Wright		<input checked="" type="checkbox"/> 10 wk. Day <input type="checkbox"/> 5 wk. Day <input type="checkbox"/> 3 wk. Day <input type="checkbox"/> 2 wk. Day <input type="checkbox"/> 24 Hour			
Relinquished by:	Date: <u>2/17/14</u>	Received by:	Date: <u>2/17/14</u>	Notes: <u>Revs: John N 2/19/14 1000</u>	
Relinquished by:	Date: <u>2/18/14</u>	Received by (Laboratory):	Date: <u>2/18/14</u>	ALS Cooler ID	QC Package: (Check Box Below)
Logged by (Laboratory):	Date:	Checked by (Laboratory):		<input checked="" type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Raw Data	
				<input type="checkbox"/> TRRP LRC <input type="checkbox"/> TRRP Level IV	
				<input type="checkbox"/> Level IV: SW646 Methods/CLP like <input type="checkbox"/> Other:	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C					

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.



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ALS Environmental
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Customer Information		Project Information		ALS Project Manager:		ALS Work Order #:											
Purchase Order	04-13-0402	Project Name	John's Manville-Riverside Parcels	Parameter/Method	Request for Analysis	ALS Work Order #	1402737										
Work Order		Project Number	04-13-0402														
Company Name	Triad Engineering, Inc.	Bill To Company	Triad Engineering, Inc.														
Send Report To	Matthew Wright	Invoice Attn.	Jamie Stemple														
Address	4980 Teays Valley Rd.	Address	219 Hartman Run Rd.														
City/State/Zip	Scott Depot, WV 25560	City/State/Zip	Morgantown, WV 26505														
Phone	304-755-0721	Phone	304-296-2562														
Fax	304-755-1880	Fax	304-296-8739														
e-Mail Address	mwright@triadeng.com	e-Mail Address	jstemple@triadeng.com														
No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bins	A	B	C	D	E	F	G	H	I	J	Hold
1	BG-5	2/14/2014	1540	soil	8	1	X										
2	BG-6	2/14/2014	1550	soil	8	1	X										
3	BG-7	2/14/2014	1600	soil	8	1	X										
4	BG-8	2/14/2014	1610	soil	8	1	X										
5	BG-9	2/14/2014	1620	soil	8	1	X										
6	BG-10	2/14/2014	1630	soil	8	1	X										
7	TRIP Blank					4	X										
8							X										
9							X										
10							X										

Sampler(s): Please Print & Sign	Matthew Wright	Date:	2/17/14	Time:	1510
Relinquished by:	<i>[Signature]</i>	Date:	2/18/14	Time:	07:45
Relinquished by:	<i>[Signature]</i>	Date:		Time:	
Logged by (Laboratory):	<i>[Signature]</i>	Date:		Time:	

Received by:	<i>[Signature]</i>	Date:	2/17/14	Time:	
Received by (Laboratory):	<i>[Signature]</i>	Date:	2/18/14	Time:	07:45
Checked by (Laboratory):	<i>[Signature]</i>	Date:		Time:	

Required Turnaround Time: (Check Box)	<input checked="" type="checkbox"/> 10 Wk Days	<input type="checkbox"/> 5 Wk Days	<input type="checkbox"/> 3 Wk Days	<input type="checkbox"/> 2 Wk Days	<input type="checkbox"/> 24 Hour	Notes:
Other:						

ALS Cooler ID		ALS Cooler Temp	6°C
Level II: Standard QC	<input type="checkbox"/>	Level III: Raw Data	<input type="checkbox"/>
Level IV: SW846 Methods/CLP file	<input type="checkbox"/>	TRRP Level IV	<input type="checkbox"/>
Other:			

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.

Client: Triad Engineering, Inc.
 Project: John's Manville - Riverside Parcels
 Work Order: 1402737

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1402737-01	SS-17	Soil		2/14/2014 10:15	2/18/2014 07:45	<input type="checkbox"/>
1402737-02	SS-17 FD	Soil		2/14/2014 10:15	2/18/2014 07:45	<input type="checkbox"/>
1402737-03	SB-17	Soil		2/14/2014 10:30	2/18/2014 07:45	<input type="checkbox"/>
1402737-04	SB-17 FD	Soil		2/14/2014 10:30	2/18/2014 07:45	<input type="checkbox"/>
1402737-05	SS-19 with MS/MSD	Soil		2/14/2014 11:15	2/18/2014 07:45	<input type="checkbox"/>
1402737-06	SB-20 with MS/MSD	Soil		2/14/2014 12:00	2/18/2014 07:45	<input type="checkbox"/>
1402737-07	BG-1	Soil		2/14/2014 15:00	2/18/2014 07:45	<input type="checkbox"/>
1402737-08	BG-1 FD	Soil		2/14/2014 15:00	2/18/2014 07:45	<input type="checkbox"/>
1402737-09	BG-2 with MS/MSD	Soil		2/14/2014 15:10	2/18/2014 07:45	<input type="checkbox"/>
1402737-10	SS-18	Soil		2/14/2014 10:45	2/18/2014 07:45	<input type="checkbox"/>
1402737-11	SS-20	Soil		2/14/2014 11:45	2/18/2014 07:45	<input type="checkbox"/>
1402737-12	SS-21	Soil		2/14/2014 11:30	2/18/2014 07:45	<input type="checkbox"/>
1402737-13	SS-22	Soil		2/14/2014 14:00	2/18/2014 07:45	<input type="checkbox"/>
1402737-14	SB-18	Soil		2/14/2014 11:00	2/18/2014 07:45	<input type="checkbox"/>
1402737-15	SB-19	Soil		2/14/2014 11:30	2/18/2014 07:45	<input type="checkbox"/>
1402737-16	SB-21	Soil		2/14/2014 13:45	2/18/2014 07:45	<input type="checkbox"/>
1402737-17	SB-22	Soil		2/14/2014 14:15	2/18/2014 07:45	<input type="checkbox"/>
1402737-18	BG-3	Soil		2/14/2014 15:20	2/18/2014 07:45	<input type="checkbox"/>
1402737-19	BG-4	Soil		2/14/2014 15:30	2/18/2014 07:45	<input type="checkbox"/>
1402737-20	BG-5	Soil		2/14/2014 15:40	2/18/2014 07:45	<input type="checkbox"/>
1402737-21	BG-6	Soil		2/14/2014 15:50	2/18/2014 07:45	<input type="checkbox"/>
1402737-22	BG-7	Soil		2/14/2014 16:00	2/18/2014 07:45	<input type="checkbox"/>
1402737-23	BG-8	Soil		2/14/2014 16:10	2/18/2014 07:45	<input type="checkbox"/>
1402737-24	BG-9	Soil		2/14/2014 16:20	2/18/2014 07:45	<input type="checkbox"/>
1402737-25	BG-10	Soil		2/14/2014 16:30	2/18/2014 07:45	<input type="checkbox"/>
1402737-26	Trip Blank	Water		2/14/2014	2/18/2014 07:45	<input type="checkbox"/>

Client: Triad Engineering, Inc.
Project: John's Manville - Riverside Parcels
Work Order: 1402737

Case Narrative

Batch 55964, Method VOC_8260_S, Sample 1402737-05A MSD: The RPD between the MS and MSD was outside the control limit. The corresponding result in the parent sample should be considered estimated for this analyte: Bromomethane

Batch 55964, Method VOC_8260_S, Sample MBLK-55964: B flagged attributed to known common lab contaminant (DCM). DCM hit is less than 5X the PQL, no qualification needed.

Batch 55977, Method ICP_6020_S, Sample 1402737-05BMS: The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba

Batch 55983, Method ICP_6020_S, Sample 1402737-06B: The MS and/or MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: As

Batch 55983, Method ICP_6020_S, Sample 1402737-06B: The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba