SPRU EEC-20-001
RCRA ICM REPORT FOR SPRU FACILITY

Attachment 4
Preliminary Data Report
G2 Building Area of Concern (AOC-008) - Phase 1

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SEPARATIONS PROCESS RESEARCH UNIT (SPRU)
DISPOSITION PROJECT (DP)

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PRELIMINARY DATA REPORT
G2 Area of Concern (AOC-008)
Phase 1

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Approved By: William Duggan

URS
2425 River Rd
Niskayuna, New York 12309

G2 Area of Concern AOC-008

Preliminary Data Report

This Preliminary Data Report (PDR) presents the post-remediation sampling analyses showing that all results are well below the Soil Cleanup Objectives (SCOs) and that most samples were non-detections for the Constituents of Concern.

The PDR summarizes chemical confirmation sample results for soil in the G2 Area of Concern collected in accordance with SPRU-ENV-017 *RCRA Interim Corrective Measure Work Plan (ICM WP) G2 Area of Concern (AOC-008)* at the Separations Process Research Unit (SPRU) Disposition Project (DP) in Niskayuna, New York.

The AOC comprises the footprint of the former G2 Building basement slab. The AOC was designated based on historical sampling under the concrete slab that indicated the presence of toluene at concentrations in excess of the Soil Clean-up Objective of 700 μg/kg (700 parts per billion).

The initial samples with elevated toluene were collected from beneath the G2 slab as a result of detections of volatile organic compounds during radiological sampling. Further assessment of the sub-slab soil resulted in four locations with results above the toluene SCO. Based on discussions with the New York State Department of Environmental Conservation (NYSDEC), the samples from those four locations were also analyzed for metals and polychlorinated biphenyls (PCBs). All results for metals were less than their corresponding SCOs, except for iron. Three of the PCB analyses were non-detections and one sample had an estimated result of 1.58 ppb ("J" qualified), well below the SCO of 1000 ppb.

The remediation of the AOC is being conducted in two phases due to the need to protect the structural integrity of the roadway running to the west and north of the G2 footprint. After NYSDEC concurrence with the satisfactory results in Phase 1 (the southern part of the AOC), the footprint will be backfilled with clean imported fill, with a geotextile tarp separating the "clean" and "dirty" portions so that the remaining G2 structure can be remediated when the roadway is not needed. It is intended that Phase 2 will involve over-excavation of the clean backfill (overlapping with the northern portion of Phase 1) in order to ensure that any possible cross-contamination would be removed.

In accordance with the ICM Work Plan, samples have been collected from Phase 1 of the G2 footprint and excavation perimeter sidewall after the demolition and removal of the G2 structure. Additional samples for VOCs, SVOCs, and metals were collected to the east of the G2 cell basement, an area previously under a slab on grade portion of the G2 Building, at locations designated in the Work Plan. AT NYSDEC's request, SVOC samples were also collected at the three locations in this remedial phase where toluene was found above the SCO.

This PDR includes the following items:

- Map showing the area and sample confirmation locations and
- Summary and evaluation of unvalidated analytical results

Attachment 1 is a map showing the area and sample confirmation locations. It is an updated version of Figure 7 from the ICM WP. The sample location identification numbers are listed for samples from the excavation bottom, sidewall, and east side. Collection of the sample at location G2SOL09 was moved a couple of feet to the south to avoid ponded rain water. The slight change in location is not reflected on the map based on the scale of the drawing.

Attachment 2 provides the laboratory data summary sheets for the unvalidated analytical results. Table 1 excerpts the post-remediation VOC data to show only those results with positive detections or estimated ("J" qualified) reported values. Table 2 lists the results for the post-remediation metal analyses at the

additional sample locations specified in the Work Plan along the eastern edge of the G2 footprint. As shown in Attachment 2, all SVOC results were reported as non-detections for the post-remediation samples except for three locations with low levels of a laboratory contaminant, dimethyl phthalate.

An evaluation of the results shows that the sample concentrations are less than the soil cleanup objectives (SCO), except for iron. The results for iron in the gray till at G2 (20,000 – 25,500 mg/kg) are above the SCO (2000 mg/kg) listed in CP-51 *Soil Cleanup Guidance*. The iron levels in the gray till in other areas of the SPRU DP, such as H2, have been consistently in this range. This range of iron concentrations is typical of soils in the U.S. as presented in *Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States* (H. Shacklette and S. Boerngen, USGS 1984). A study by New York State (*Concentrations of Selected Analytes in Rural New York State Surface Soils: A Summary Report on the Statewide Rural Surface Soil Survey*, 2005) showed that iron concentrations of 22,800 ppm are at the 90^{th} percentile for detected analytes in the near source data set. This indicates that the iron sample results are representative of natural concentrations and are not evidence of contamination.

SAMPLE RESULT SUMMARY

The post-remediation sampling results are summarized as follows:

VOCs – Three samples showed positive detections for Methylene chloride, with a maximum result of 6.6 ppb, well below the SCO of 50 ppb. Four other VOCs were reported as estimated values in at least one sample; and all results were a small fraction of their SCOs.

Metals – All metal results except iron were below the corresponding SCO. Iron was reported in the range of 24,000 ppm as compared to the nominal SCO of 2,000 ppm. The concentration of iron was typical of results found on the site for gray till samples.

SVOCs – All results were non-detections except for three samples with the same compound at about the same concentration. As shown in Table 1, locations G2SOL01, G2SOL06, and G2SOL07 had dimethyl phthalate at 460 ppb, 490 ppb, and 520 ppb, respectively, compared to the SCO of 100,000 ppb. All results were qualified by the laboratory with a "B", indicating that the compound was also found in the blank. This indicates that the compound detection is likely due to a laboratory contamination.

CONCLUSION

These conditions merit a judgment of No Further Action required for the Phase I southern end of the AOC. Following NYSDEC concurrence with the satisfactory results in this PDR, the AOC will be backfilled with the remaining part of the G2 structure segregated from the clean area.

Table 1 VOC/ SVOC RESULTS WITH DETECTIONS OR ESTIMATED VALUES

	VOC					SVOC
	Acetone	**Methylene chloride**	**PERC**	**Toluene**	**TCE**	**Dimethyl phthalate**
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
SCO	50	50	1300	700	470	100,000
Method	*8260B*	*8260B*	*8260B*	*8260B*	*8260B*	*8270C*
G2ESOL01	2.06 J	6.6		0.426 J		
G2ESOL02		5.48	46.4 J		0.421 J	
G2ESOL03		5.55		0.543 J		
G2SOL01						460 B
G2SOL01D				0.402 J		
G2SOL06						490 B
G2SOL07						520 B

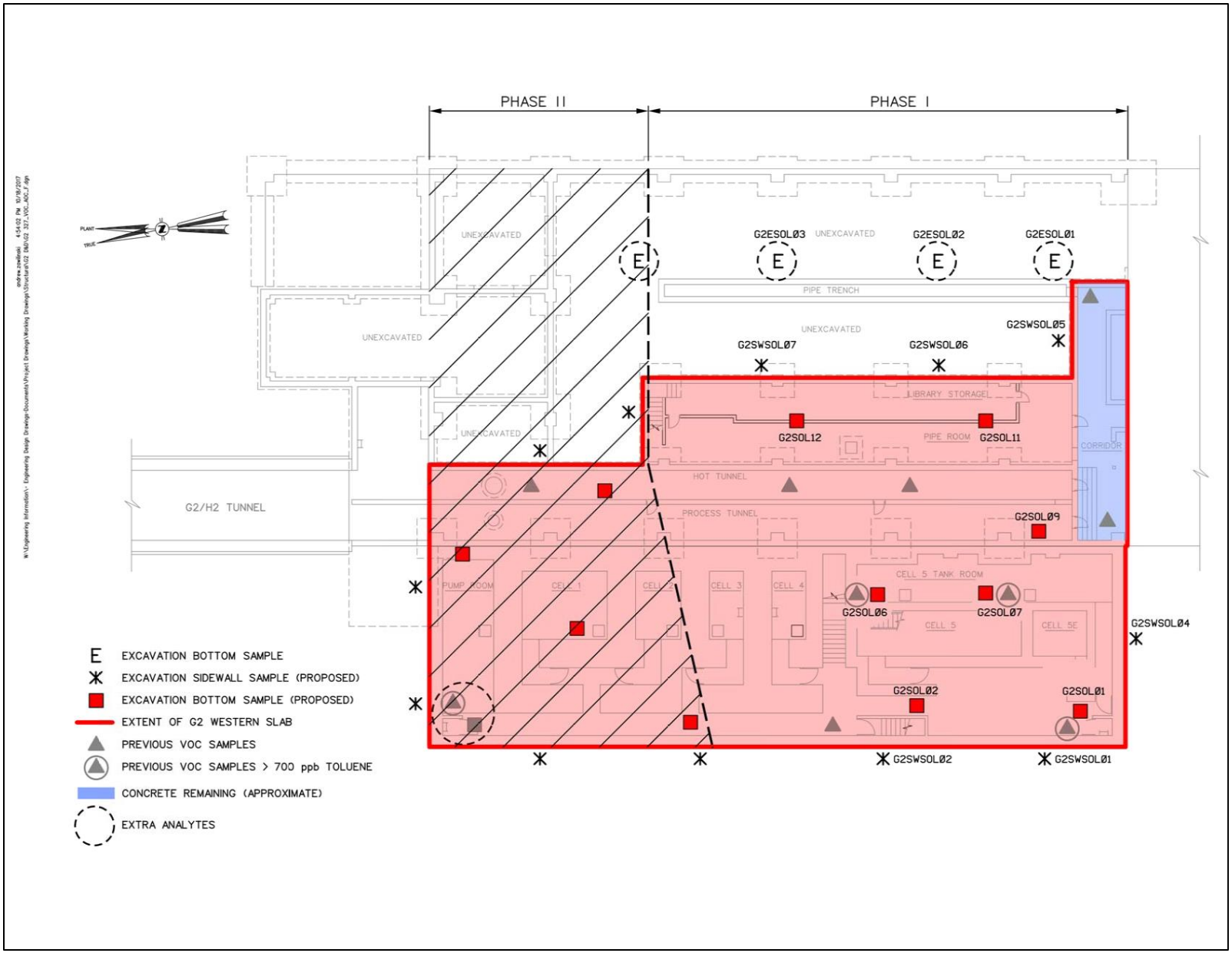
Table 2 METALS RESULTS POST-REMEDIATION WITH ALL REPORTED VALUES

	Antimony	**Arsenic**	**Barium**	**Cadmium**	**Chromium**	**Cobalt**	**Iron**	**Lead**
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SCO	12	16	350	2.5	36	30	2000	400
Method	*6010C*	*6020*	*6010C*	*6010C*	*6010C*	*6010C*	*6010C*	*6010C*
G2ESOL01	U	7.81 N	59.9	U	13	10.1	24,200	2.53
G2ESOL02	U	7.05 N	56	0.117 B	13	13.5	24,600	3.76
G2ESOL03	U	6.9 N	50.1	U	12.9	11.2	24,400	4.19

	Manganese	**Nickel**	**Silver**	**Selenium**	**Thallium**	**Zinc**	**Mercury**
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SCO	2000	130	8.3	4	5	2200	0.73
Method	*6010C*	*6010C*	*6010C*	*6020*	*6020*	*6010C*	*7471A*
G2ESOL01	430	23.4	0.136 B	1.66 BN	UN	55.6 EN	0.0217
G2ESOL02	538	26	0.15 B	1.61 BN	UN	338 EN	0.0661
G2ESOL03	577	25.3	U	1.48 BN	UN	49.4 EN	0.0280

ATTACHMENT 1

SAMPLE LOCATION MAP


PHASE II
PHASE I
UNEXCAVATED
G2ESOL03
G2ESOL02
G2ESOL01
PIPE TRENCH
G2SWSOL05
G2SWSOL07
G2SWSOL06
LIBRARY STORAGE
G2SOL12
PIPE ROOM
G2SOL11
CORRIDOR
HOT TUNNEL
G2/H2 TUNNEL
PROCESS TUNNEL
G2SOL09
CELL 5 TANK ROOM
PUMP ROOM
CELL 1
CELL 2
CELL 3
CELL 4
G2SOL06
G2SOL07
CELL 5
CELL 5E
G2SWSOL04
G2SOL02
G2SOL01
G2SWSOL02
G2SWSOL01
E EXCAVATION BOTTOM SAMPLE
EXCAVATION SIDEWALL SAMPLE (PROPOSED)
EXCAVATION BOTTOM SAMPLE (PROPOSED)
EXTENT OF G2 WESTERN SLAB
PREVIOUS VOC SAMPLES
PREVIOUS VOC SAMPLES > 700 ppb TOLUENE
CONCRETE REMAINING (APPROXIMATE)
EXTRA ANALYTES

ATTACHMENT 2

Laboratory Analytical Results

VOLATILE ORGANIC COMPOUNDS

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Qualifier Definition Report
for

URSC013 URS Energy & Construction (2012-SC-SPRU-29463-171)

Client SDG: 433718 GEL Work Order: 433718

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria
** Analyte is a surrogate compound
B The target analyte was detected in the associated blank.
J Value is estimated
U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

DL Indicates that sample is diluted.
RA Indicates that sample is re-analyzed without re-extraction.
RE Indicates that sample is re-extracted.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: Erin Haubert **Name: Erin Haubert**

Date: 10 OCT 2017 **Title: Data Validator**

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 10:35**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718001**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**5.1**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL01**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**50**
Run Date:	**10/02/2017 16:23**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/02/2017 15:06**	**Aliquot:**	**5 g**	**Final Volume:**	**10 mL**
Data File:	**100217V9\9M114.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	105	ug/kg	35.1	105
79-34-5	1,1,2,2-Tetrachloroethane	U	105	ug/kg	35.1	105
79-00-5	1,1,2-Trichloroethane	U	105	ug/kg	35.1	105
75-34-3	1,1-Dichloroethane	U	105	ug/kg	35.1	105
75-35-4	1,1-Dichloroethylene	U	105	ug/kg	35.1	105
107-06-2	1,2-Dichloroethane	U	105	ug/kg	35.1	105
78-93-3	2-Butanone	U	527	ug/kg	176	527
591-78-6	2-Hexanone	U	527	ug/kg	176	527
108-10-1	4-Methyl-2-pentanone	U	527	ug/kg	176	527
67-64-1	Acetone	U	527	ug/kg	176	527
71-43-2	Benzene	U	105	ug/kg	35.1	105
75-15-0	Carbon disulfide	U	527	ug/kg	176	527
56-23-5	Carbon tetrachloride	U	105	ug/kg	35.1	105
108-90-7	Chlorobenzene	U	105	ug/kg	35.1	105
75-00-3	Chloroethane	U	105	ug/kg	35.1	105
67-66-3	Chloroform	U	105	ug/kg	35.1	105
74-87-3	Chloromethane	U	105	ug/kg	35.1	105
100-41-4	Ethylbenzene	U	105	ug/kg	35.1	105
75-09-2	Methylene chloride	U	527	ug/kg	176	527
100-42-5	Styrene	U	105	ug/kg	35.1	105
127-18-4	Tetrachloroethylene	U	105	ug/kg	35.1	105
108-88-3	Toluene	U	105	ug/kg	35.1	105
79-01-6	Trichloroethylene	U	105	ug/kg	35.1	105
76-13-1	Trichlorotrifluoroethane	U	527	ug/kg	176	527
108-05-4	Vinyl acetate	U	527	ug/kg	176	527
75-01-4	Vinyl chloride	U	105	ug/kg	35.1	105
1330-20-7	Xylenes (total)	U	316	ug/kg	105	316
156-59-2	cis-1,2-Dichloroethylene	U	105	ug/kg	35.1	105
156-60-5	trans-1,2-Dichloroethylene	U	105	ug/kg	35.1	105

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 10:35**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718001**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**5.1**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL01RE**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**1**
Run Date:	**10/03/2017 13:03**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 12:00**	**Aliquot:**	**5 g**	**Final Volume:**	**5 mL**
Data File:	**100317V9\9M208.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	1.05	ug/kg	0.351	1.05
79-34-5	1,1,2,2-Tetrachloroethane	U	1.05	ug/kg	0.351	1.05
79-00-5	1,1,2-Trichloroethane	U	1.05	ug/kg	0.351	1.05
75-34-3	1,1-Dichloroethane	U	1.05	ug/kg	0.351	1.05
75-35-4	1,1-Dichloroethylene	U	1.05	ug/kg	0.351	1.05
107-06-2	1,2-Dichloroethane	U	1.05	ug/kg	0.351	1.05
78-93-3	2-Butanone	U	5.27	ug/kg	1.76	5.27
591-78-6	2-Hexanone	U	5.27	ug/kg	1.76	5.27
108-10-1	4-Methyl-2-pentanone	U	5.27	ug/kg	1.76	5.27
67-64-1	Acetone	U	5.27	ug/kg	1.76	5.27
71-43-2	Benzene	U	1.05	ug/kg	0.351	1.05
75-15-0	Carbon disulfide	U	5.27	ug/kg	1.76	5.27
56-23-5	Carbon tetrachloride	U	1.05	ug/kg	0.351	1.05
108-90-7	Chlorobenzene	U	1.05	ug/kg	0.351	1.05
75-00-3	Chloroethane	U	1.05	ug/kg	0.351	1.05
67-66-3	Chloroform	U	1.05	ug/kg	0.351	1.05
74-87-3	Chloromethane	U	1.05	ug/kg	0.351	1.05
100-41-4	Ethylbenzene	U	1.05	ug/kg	0.351	1.05
75-09-2	Methylene chloride	U	5.27	ug/kg	1.76	5.27
100-42-5	Styrene	U	1.05	ug/kg	0.351	1.05
127-18-4	Tetrachloroethylene	U	1.05	ug/kg	0.351	1.05
108-88-3	Toluene	U	1.05	ug/kg	0.351	1.05
79-01-6	Trichloroethylene	U	1.05	ug/kg	0.351	1.05
76-13-1	Trichlorotrifluoroethane	U	5.27	ug/kg	1.76	5.27
108-05-4	Vinyl acetate	U	5.27	ug/kg	1.76	5.27
75-01-4	Vinyl chloride	U	1.05	ug/kg	0.351	1.05
1330-20-7	Xylenes (total)	U	3.16	ug/kg	1.05	3.16
156-59-2	cis-1,2-Dichloroethylene	U	1.05	ug/kg	0.351	1.05
156-60-5	trans-1,2-Dichloroethylene	U	1.05	ug/kg	0.351	1.05

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 10:35**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718002**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**5.4**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL01D**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**50**
Run Date:	**10/02/2017 16:51**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/02/2017 15:07**	**Aliquot:**	**5 g**	**Final Volume:**	**10 mL**
Data File:	**100217V9\9M115.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	106	ug/kg	35.2	106
79-34-5	1,1,2,2-Tetrachloroethane	U	106	ug/kg	35.2	106
79-00-5	1,1,2-Trichloroethane	U	106	ug/kg	35.2	106
75-34-3	1,1-Dichloroethane	U	106	ug/kg	35.2	106
75-35-4	1,1-Dichloroethylene	U	106	ug/kg	35.2	106
107-06-2	1,2-Dichloroethane	U	106	ug/kg	35.2	106
78-93-3	2-Butanone	U	528	ug/kg	176	528
591-78-6	2-Hexanone	U	528	ug/kg	176	528
108-10-1	4-Methyl-2-pentanone	U	528	ug/kg	176	528
67-64-1	Acetone	U	528	ug/kg	176	528
71-43-2	Benzene	U	106	ug/kg	35.2	106
75-15-0	Carbon disulfide	U	528	ug/kg	176	528
56-23-5	Carbon tetrachloride	U	106	ug/kg	35.2	106
108-90-7	Chlorobenzene	U	106	ug/kg	35.2	106
75-00-3	Chloroethane	U	106	ug/kg	35.2	106
67-66-3	Chloroform	U	106	ug/kg	35.2	106
74-87-3	Chloromethane	U	106	ug/kg	35.2	106
100-41-4	Ethylbenzene	U	106	ug/kg	35.2	106
75-09-2	Methylene chloride	U	528	ug/kg	176	528
100-42-5	Styrene	U	106	ug/kg	35.2	106
127-18-4	Tetrachloroethylene	U	106	ug/kg	35.2	106
108-88-3	Toluene	U	106	ug/kg	35.2	106
79-01-6	Trichloroethylene	U	106	ug/kg	35.2	106
76-13-1	Trichlorotrifluoroethane	U	528	ug/kg	176	528
108-05-4	Vinyl acetate	U	528	ug/kg	176	528
75-01-4	Vinyl chloride	U	106	ug/kg	35.2	106
1330-20-7	Xylenes (total)	U	317	ug/kg	106	317
156-59-2	cis-1,2-Dichloroethylene	U	106	ug/kg	35.2	106
156-60-5	trans-1,2-Dichloroethylene	U	106	ug/kg	35.2	106

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 10:35**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718002**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**5.4**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL01DRE**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**1**
Run Date:	**10/03/2017 13:31**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 12:01**	**Aliquot:**	**5 g**	**Final Volume:**	**5 mL**
Data File:	**100317V9\9M209.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.352	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.352	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.352	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.352	1.06
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.352	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.352	1.06
78-93-3	2-Butanone	U	5.28	ug/kg	1.76	5.28
591-78-6	2-Hexanone	U	5.28	ug/kg	1.76	5.28
108-10-1	4-Methyl-2-pentanone	U	5.28	ug/kg	1.76	5.28
67-64-1	Acetone	U	5.28	ug/kg	1.76	5.28
71-43-2	Benzene	U	1.06	ug/kg	0.352	1.06
75-15-0	Carbon disulfide	U	5.28	ug/kg	1.76	5.28
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.352	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.352	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.352	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.352	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.352	1.06
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.352	1.06
75-09-2	Methylene chloride	U	5.28	ug/kg	1.76	5.28
100-42-5	Styrene	U	1.06	ug/kg	0.352	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.352	1.06
108-88-3	Toluene	J	0.402	ug/kg	0.352	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.352	1.06
76-13-1	Trichlorotrifluoroethane	U	5.28	ug/kg	1.76	5.28
108-05-4	Vinyl acetate	U	5.28	ug/kg	1.76	5.28
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.352	1.06
1330-20-7	Xylenes (total)	U	3.17	ug/kg	1.06	3.17
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.352	1.06
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.352	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 10:35**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718003**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**5.3**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL01MS**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**50**
Run Date:	**10/02/2017 17:19**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/02/2017 15:08**	**Aliquot:**	**5 g**	**Final Volume:**	**10 mL**
Data File:	**100217V9\9M116.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	106	ug/kg	35.2	106
79-34-5	1,1,2,2-Tetrachloroethane	U	106	ug/kg	35.2	106
79-00-5	1,1,2-Trichloroethane	U	106	ug/kg	35.2	106
75-34-3	1,1-Dichloroethane	U	106	ug/kg	35.2	106
75-35-4	1,1-Dichloroethylene	U	106	ug/kg	35.2	106
107-06-2	1,2-Dichloroethane	U	106	ug/kg	35.2	106
78-93-3	2-Butanone	U	528	ug/kg	176	528
591-78-6	2-Hexanone	U	528	ug/kg	176	528
108-10-1	4-Methyl-2-pentanone	U	528	ug/kg	176	528
67-64-1	Acetone	U	528	ug/kg	176	528
71-43-2	Benzene	U	106	ug/kg	35.2	106
75-15-0	Carbon disulfide	U	528	ug/kg	176	528
56-23-5	Carbon tetrachloride	U	106	ug/kg	35.2	106
108-90-7	Chlorobenzene	U	106	ug/kg	35.2	106
75-00-3	Chloroethane	U	106	ug/kg	35.2	106
67-66-3	Chloroform	U	106	ug/kg	35.2	106
74-87-3	Chloromethane	U	106	ug/kg	35.2	106
100-41-4	Ethylbenzene	U	106	ug/kg	35.2	106
75-09-2	Methylene chloride	U	528	ug/kg	176	528
100-42-5	Styrene	U	106	ug/kg	35.2	106
127-18-4	Tetrachloroethylene	U	106	ug/kg	35.2	106
108-88-3	Toluene	U	106	ug/kg	35.2	106
79-01-6	Trichloroethylene	U	106	ug/kg	35.2	106
76-13-1	Trichlorotrifluoroethane	U	528	ug/kg	176	528
108-05-4	Vinyl acetate	U	528	ug/kg	176	528
75-01-4	Vinyl chloride	U	106	ug/kg	35.2	106
1330-20-7	Xylenes (total)	U	317	ug/kg	106	317
156-59-2	cis-1,2-Dichloroethylene	U	106	ug/kg	35.2	106
156-60-5	trans-1,2-Dichloroethylene	U	106	ug/kg	35.2	106

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 10:35**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718003**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**5.3**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL01MSRE**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**1**
Run Date:	**10/03/2017 13:59**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 12:02**	**Aliquot:**	**5 g**	**Final Volume:**	**5 mL**
Data File:	**100317V9\9M210.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.352	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.352	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.352	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.352	1.06
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.352	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.352	1.06
78-93-3	2-Butanone	U	5.28	ug/kg	1.76	5.28
591-78-6	2-Hexanone	U	5.28	ug/kg	1.76	5.28
108-10-1	4-Methyl-2-pentanone	U	5.28	ug/kg	1.76	5.28
67-64-1	Acetone	U	5.28	ug/kg	1.76	5.28
71-43-2	Benzene	U	1.06	ug/kg	0.352	1.06
75-15-0	Carbon disulfide	U	5.28	ug/kg	1.76	5.28
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.352	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.352	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.352	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.352	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.352	1.06
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.352	1.06
75-09-2	Methylene chloride	U	5.28	ug/kg	1.76	5.28
100-42-5	Styrene	U	1.06	ug/kg	0.352	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.352	1.06
108-88-3	Toluene	U	1.06	ug/kg	0.352	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.352	1.06
76-13-1	Trichlorotrifluoroethane	U	5.28	ug/kg	1.76	5.28
108-05-4	Vinyl acetate	U	5.28	ug/kg	1.76	5.28
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.352	1.06
1330-20-7	Xylenes (total)	U	3.17	ug/kg	1.06	3.17
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.352	1.06
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.352	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 14:10**	**Matrix:**	**WATER**
Lab Sample ID:	**433718004** Equipment Blank	**Date Received:**	**09/27/2017 09:15**		
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL01EB**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705051**	**Inst:**	**VOA6.I**	**Dilution:**	**1**
Run Date:	**09/29/2017 11:51**	**Analyst:**	**JP1**	**Purge Vol:**	**5 mL**
Prep Date:	**09/29/2017 11:51**				
Data File:	**092917V6\6A507.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/L	0.333	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/L	0.333	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/L	0.333	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/L	0.333	1.00
75-35-4	1,1-Dichloroethylene	U	1.00	ug/L	0.333	1.00
87-61-6	1,2,3-Trichlorobenzene	U	1.00	ug/L	0.333	1.00
120-82-1	1,2,4-Trichlorobenzene	U	1.00	ug/L	0.333	1.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/L	0.333	1.00
106-93-4	1,2-Dibromoethane	U	1.00	ug/L	0.333	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/L	0.333	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/L	0.333	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/L	0.333	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.333	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.333	1.00
123-91-1	1,4-Dioxane	U	50.0	ug/L	16.7	50.0
78-93-3	2-Butanone	U	5.00	ug/L	1.67	5.00
591-78-6	2-Hexanone	U	5.00	ug/L	1.67	5.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/L	1.67	5.00
67-64-1	Acetone	U	5.00	ug/L	1.74	5.00
71-43-2	Benzene	U	1.00	ug/L	0.333	1.00
74-97-5	Bromochloromethane	U	1.00	ug/L	0.333	1.00
75-27-4	Bromodichloromethane		2.36	ug/L	0.333	1.00
75-25-2	Bromoform	U	1.00	ug/L	0.333	1.00
74-83-9	Bromomethane	U	1.00	ug/L	0.337	1.00
75-15-0	Carbon disulfide	U	5.00	ug/L	1.67	5.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.333	1.00
108-90-7	Chlorobenzene	U	1.00	ug/L	0.333	1.00
75-00-3	Chloroethane	U	1.00	ug/L	0.333	1.00
67-66-3	Chloroform		5.29	ug/L	0.333	1.00
74-87-3	Chloromethane	U	1.00	ug/L	0.333	1.00
110-82-7	Cyclohexane	U	1.00	ug/L	0.333	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.333	1.00
75-71-8	Dichlorodifluoromethane	U	1.00	ug/L	0.355	1.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.333	1.00
98-82-8	Isopropylbenzene	U	1.00	ug/L	0.333	1.00
79-20-9	Methyl acetate	U	5.00	ug/L	1.67	5.00
108-87-2	Methylcyclohexane	U	1.00	ug/L	0.333	1.00
75-09-2	Methylene chloride	U	5.00	ug/L	1.67	5.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 14:10**	**Matrix:**	**WATER**
Lab Sample ID:	**433718004** Equipment Blank	**Date Received:**	**09/27/2017 09:15**		
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL01EB**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705051**	**Inst:**	**VOA6.I**	**Dilution:**	**1**
Run Date:	**09/29/2017 11:51**	**Analyst:**	**JP1**	**Purge Vol:**	**5 mL**
Prep Date:	**09/29/2017 11:51**				
Data File:	**092917V6\6A507.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-42-5	Styrene	U	1.00	ug/L	0.333	1.00
127-18-4	Tetrachloroethylene	U	1.00	ug/L	0.333	1.00
108-88-3	Toluene	U	1.00	ug/L	0.333	1.00
79-01-6	Trichloroethylene	U	1.00	ug/L	0.333	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/L	0.333	1.00
76-13-1	Trichlorotrifluoroethane	U	5.00	ug/L	2.98	5.00
75-01-4	Vinyl chloride	U	1.00	ug/L	0.333	1.00
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/L	0.333	1.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/L	0.333	1.00
179601-23-1	m,p-Xylenes	U	2.00	ug/L	0.667	2.00
95-47-6	o-Xylene	U	1.00	ug/L	0.333	1.00
1634-04-4	tert-Butyl methyl ether	U	1.00	ug/L	0.333	1.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/L	0.333	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/L	0.333	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 10:00**	**Matrix:**	**WATER**
Lab Sample ID:	**433718005** Trip Blank	**Date Received:**	**09/27/2017 09:15**		
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL01TB**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705051**	**Inst:**	**VOA6.I**	**Dilution:**	**1**
Run Date:	**09/29/2017 12:19**	**Analyst:**	**JP1**	**Purge Vol:**	**5 mL**
Prep Date:	**09/29/2017 12:19**				
Data File:	**092917V6\6A508.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/L	0.333	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/L	0.333	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/L	0.333	1.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/L	0.333	1.00
75-35-4	1,1-Dichloroethylene	U	1.00	ug/L	0.333	1.00
87-61-6	1,2,3-Trichlorobenzene	U	1.00	ug/L	0.333	1.00
120-82-1	1,2,4-Trichlorobenzene	U	1.00	ug/L	0.333	1.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/L	0.333	1.00
106-93-4	1,2-Dibromoethane	U	1.00	ug/L	0.333	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/L	0.333	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/L	0.333	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/L	0.333	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.333	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.333	1.00
123-91-1	1,4-Dioxane	U	50.0	ug/L	16.7	50.0
78-93-3	2-Butanone	U	5.00	ug/L	1.67	5.00
591-78-6	2-Hexanone	U	5.00	ug/L	1.67	5.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/L	1.67	5.00
67-64-1	Acetone	U	5.00	ug/L	1.74	5.00
71-43-2	Benzene	U	1.00	ug/L	0.333	1.00
74-97-5	Bromochloromethane	U	1.00	ug/L	0.333	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/L	0.333	1.00
75-25-2	Bromoform	U	1.00	ug/L	0.333	1.00
74-83-9	Bromomethane	U	1.00	ug/L	0.337	1.00
75-15-0	Carbon disulfide	U	5.00	ug/L	1.67	5.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.333	1.00
108-90-7	Chlorobenzene	U	1.00	ug/L	0.333	1.00
75-00-3	Chloroethane	U	1.00	ug/L	0.333	1.00
67-66-3	Chloroform	U	1.00	ug/L	0.333	1.00
74-87-3	Chloromethane	U	1.00	ug/L	0.333	1.00
110-82-7	Cyclohexane	U	1.00	ug/L	0.333	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.333	1.00
75-71-8	Dichlorodifluoromethane	U	1.00	ug/L	0.355	1.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.333	1.00
98-82-8	Isopropylbenzene	U	1.00	ug/L	0.333	1.00
79-20-9	Methyl acetate	U	5.00	ug/L	1.67	5.00
108-87-2	Methylcyclohexane	U	1.00	ug/L	0.333	1.00
75-09-2	Methylene chloride	U	5.00	ug/L	1.67	5.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 10:00**	**Matrix:**	**WATER**
Lab Sample ID:	**433718005** Trip Blank	**Date Received:**	**09/27/2017 09:15**		
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL01TB**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705051**	**Inst:**	**VOA6.I**	**Dilution:**	**1**
Run Date:	**09/29/2017 12:19**	**Analyst:**	**JP1**	**Purge Vol:**	**5 mL**
Prep Date:	**09/29/2017 12:19**				
Data File:	**092917V6\6A508.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-42-5	Styrene	U	1.00	ug/L	0.333	1.00
127-18-4	Tetrachloroethylene	U	1.00	ug/L	0.333	1.00
108-88-3	Toluene	U	1.00	ug/L	0.333	1.00
79-01-6	Trichloroethylene	U	1.00	ug/L	0.333	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/L	0.333	1.00
76-13-1	Trichlorotrifluoroethane	U	5.00	ug/L	2.98	5.00
75-01-4	Vinyl chloride	U	1.00	ug/L	0.333	1.00
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/L	0.333	1.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/L	0.333	1.00
179601-23-1	m,p-Xylenes	U	2.00	ug/L	0.667	2.00
95-47-6	o-Xylene	U	1.00	ug/L	0.333	1.00
1634-04-4	tert-Butyl methyl ether	U	1.00	ug/L	0.333	1.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/L	0.333	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/L	0.333	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 10:48**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718006**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**5.3**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL02**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**50**
Run Date:	**10/02/2017 17:47**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/02/2017 15:09**	**Aliquot:**	**5.1 g**	**Final Volume:**	**10 mL**
Data File:	**100217V9\9M117.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	104	ug/kg	34.5	104
79-34-5	1,1,2,2-Tetrachloroethane	U	104	ug/kg	34.5	104
79-00-5	1,1,2-Trichloroethane	U	104	ug/kg	34.5	104
75-34-3	1,1-Dichloroethane	U	104	ug/kg	34.5	104
75-35-4	1,1-Dichloroethylene	U	104	ug/kg	34.5	104
107-06-2	1,2-Dichloroethane	U	104	ug/kg	34.5	104
78-93-3	2-Butanone	U	518	ug/kg	173	518
591-78-6	2-Hexanone	U	518	ug/kg	173	518
108-10-1	4-Methyl-2-pentanone	U	518	ug/kg	173	518
67-64-1	Acetone	U	518	ug/kg	173	518
71-43-2	Benzene	U	104	ug/kg	34.5	104
75-15-0	Carbon disulfide	U	518	ug/kg	173	518
56-23-5	Carbon tetrachloride	U	104	ug/kg	34.5	104
108-90-7	Chlorobenzene	U	104	ug/kg	34.5	104
75-00-3	Chloroethane	U	104	ug/kg	34.5	104
67-66-3	Chloroform	U	104	ug/kg	34.5	104
74-87-3	Chloromethane	U	104	ug/kg	34.5	104
100-41-4	Ethylbenzene	U	104	ug/kg	34.5	104
75-09-2	Methylene chloride	U	518	ug/kg	173	518
100-42-5	Styrene	U	104	ug/kg	34.5	104
127-18-4	Tetrachloroethylene	U	104	ug/kg	34.5	104
108-88-3	Toluene	U	104	ug/kg	34.5	104
79-01-6	Trichloroethylene	U	104	ug/kg	34.5	104
76-13-1	Trichlorotrifluoroethane	U	518	ug/kg	173	518
108-05-4	Vinyl acetate	U	518	ug/kg	173	518
75-01-4	Vinyl chloride	U	104	ug/kg	34.5	104
1330-20-7	Xylenes (total)	U	311	ug/kg	104	311
156-59-2	cis-1,2-Dichloroethylene	U	104	ug/kg	34.5	104
156-60-5	trans-1,2-Dichloroethylene	U	104	ug/kg	34.5	104

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 10:48**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718006**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**5.3**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL02RE**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**1**
Run Date:	**10/03/2017 14:28**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 12:03**	**Aliquot:**	**5 g**	**Final Volume:**	**5 mL**
Data File:	**100317V9\9M211.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.352	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.352	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.352	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.352	1.06
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.352	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.352	1.06
78-93-3	2-Butanone	U	5.28	ug/kg	1.76	5.28
591-78-6	2-Hexanone	U	5.28	ug/kg	1.76	5.28
108-10-1	4-Methyl-2-pentanone	U	5.28	ug/kg	1.76	5.28
67-64-1	Acetone	U	5.28	ug/kg	1.76	5.28
71-43-2	Benzene	U	1.06	ug/kg	0.352	1.06
75-15-0	Carbon disulfide	U	5.28	ug/kg	1.76	5.28
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.352	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.352	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.352	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.352	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.352	1.06
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.352	1.06
75-09-2	Methylene chloride	U	5.28	ug/kg	1.76	5.28
100-42-5	Styrene	U	1.06	ug/kg	0.352	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.352	1.06
108-88-3	Toluene	U	1.06	ug/kg	0.352	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.352	1.06
76-13-1	Trichlorotrifluoroethane	U	5.28	ug/kg	1.76	5.28
108-05-4	Vinyl acetate	U	5.28	ug/kg	1.76	5.28
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.352	1.06
1330-20-7	Xylenes (total)	U	3.17	ug/kg	1.06	3.17
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.352	1.06
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.352	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 11:11**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718007**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**5**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL06**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**50**
Run Date:	**10/02/2017 18:14**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/02/2017 15:10**	**Aliquot:**	**5.1 g**	**Final Volume:**	**10 mL**
Data File:	**100217V9\9M118.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	103	ug/kg	34.4	103
79-34-5	1,1,2,2-Tetrachloroethane	U	103	ug/kg	34.4	103
79-00-5	1,1,2-Trichloroethane	U	103	ug/kg	34.4	103
75-34-3	1,1-Dichloroethane	U	103	ug/kg	34.4	103
75-35-4	1,1-Dichloroethylene	U	103	ug/kg	34.4	103
107-06-2	1,2-Dichloroethane	U	103	ug/kg	34.4	103
78-93-3	2-Butanone	U	516	ug/kg	172	516
591-78-6	2-Hexanone	U	516	ug/kg	172	516
108-10-1	4-Methyl-2-pentanone	U	516	ug/kg	172	516
67-64-1	Acetone	U	516	ug/kg	172	516
71-43-2	Benzene	U	103	ug/kg	34.4	103
75-15-0	Carbon disulfide	U	516	ug/kg	172	516
56-23-5	Carbon tetrachloride	U	103	ug/kg	34.4	103
108-90-7	Chlorobenzene	U	103	ug/kg	34.4	103
75-00-3	Chloroethane	U	103	ug/kg	34.4	103
67-66-3	Chloroform	U	103	ug/kg	34.4	103
74-87-3	Chloromethane	U	103	ug/kg	34.4	103
100-41-4	Ethylbenzene	U	103	ug/kg	34.4	103
75-09-2	Methylene chloride	U	516	ug/kg	172	516
100-42-5	Styrene	U	103	ug/kg	34.4	103
127-18-4	Tetrachloroethylene	U	103	ug/kg	34.4	103
108-88-3	Toluene	U	103	ug/kg	34.4	103
79-01-6	Trichloroethylene	U	103	ug/kg	34.4	103
76-13-1	Trichlorotrifluoroethane	U	516	ug/kg	172	516
108-05-4	Vinyl acetate	U	516	ug/kg	172	516
75-01-4	Vinyl chloride	U	103	ug/kg	34.4	103
1330-20-7	Xylenes (total)	U	309	ug/kg	103	309
156-59-2	cis-1,2-Dichloroethylene	U	103	ug/kg	34.4	103
156-60-5	trans-1,2-Dichloroethylene	U	103	ug/kg	34.4	103

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 11:11**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718007**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**5**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL06RE**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**1**
Run Date:	**10/03/2017 14:56**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 12:04**	**Aliquot:**	**5 g**	**Final Volume:**	**5 mL**
Data File:	**100317V9\9M212.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	1.05	ug/kg	0.350	1.05
79-34-5	1,1,2,2-Tetrachloroethane	U	1.05	ug/kg	0.350	1.05
79-00-5	1,1,2-Trichloroethane	U	1.05	ug/kg	0.350	1.05
75-34-3	1,1-Dichloroethane	U	1.05	ug/kg	0.350	1.05
75-35-4	1,1-Dichloroethylene	U	1.05	ug/kg	0.350	1.05
107-06-2	1,2-Dichloroethane	U	1.05	ug/kg	0.350	1.05
78-93-3	2-Butanone	U	5.26	ug/kg	1.75	5.26
591-78-6	2-Hexanone	U	5.26	ug/kg	1.75	5.26
108-10-1	4-Methyl-2-pentanone	U	5.26	ug/kg	1.75	5.26
67-64-1	Acetone	U	5.26	ug/kg	1.75	5.26
71-43-2	Benzene	U	1.05	ug/kg	0.350	1.05
75-15-0	Carbon disulfide	U	5.26	ug/kg	1.75	5.26
56-23-5	Carbon tetrachloride	U	1.05	ug/kg	0.350	1.05
108-90-7	Chlorobenzene	U	1.05	ug/kg	0.350	1.05
75-00-3	Chloroethane	U	1.05	ug/kg	0.350	1.05
67-66-3	Chloroform	U	1.05	ug/kg	0.350	1.05
74-87-3	Chloromethane	U	1.05	ug/kg	0.350	1.05
100-41-4	Ethylbenzene	U	1.05	ug/kg	0.350	1.05
75-09-2	Methylene chloride	U	5.26	ug/kg	1.75	5.26
100-42-5	Styrene	U	1.05	ug/kg	0.350	1.05
127-18-4	Tetrachloroethylene	U	1.05	ug/kg	0.350	1.05
108-88-3	Toluene	U	1.05	ug/kg	0.350	1.05
79-01-6	Trichloroethylene	U	1.05	ug/kg	0.350	1.05
76-13-1	Trichlorotrifluoroethane	U	5.26	ug/kg	1.75	5.26
108-05-4	Vinyl acetate	U	5.26	ug/kg	1.75	5.26
75-01-4	Vinyl chloride	U	1.05	ug/kg	0.350	1.05
1330-20-7	Xylenes (total)	U	3.16	ug/kg	1.05	3.16
156-59-2	cis-1,2-Dichloroethylene	U	1.05	ug/kg	0.350	1.05
156-60-5	trans-1,2-Dichloroethylene	U	1.05	ug/kg	0.350	1.05

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 11:08**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718008**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**5.3**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL07**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**50**
Run Date:	**10/02/2017 18:42**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/02/2017 15:11**	**Aliquot:**	**5.1 g**	**Final Volume:**	**10 mL**
Data File:	**100217V9\9M119.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	103	ug/kg	34.5	103
79-34-5	1,1,2,2-Tetrachloroethane	U	103	ug/kg	34.5	103
79-00-5	1,1,2-Trichloroethane	U	103	ug/kg	34.5	103
75-34-3	1,1-Dichloroethane	U	103	ug/kg	34.5	103
75-35-4	1,1-Dichloroethylene	U	103	ug/kg	34.5	103
107-06-2	1,2-Dichloroethane	U	103	ug/kg	34.5	103
78-93-3	2-Butanone	U	517	ug/kg	173	517
591-78-6	2-Hexanone	U	517	ug/kg	173	517
108-10-1	4-Methyl-2-pentanone	U	517	ug/kg	173	517
67-64-1	Acetone	U	517	ug/kg	173	517
71-43-2	Benzene	U	103	ug/kg	34.5	103
75-15-0	Carbon disulfide	U	517	ug/kg	173	517
56-23-5	Carbon tetrachloride	U	103	ug/kg	34.5	103
108-90-7	Chlorobenzene	U	103	ug/kg	34.5	103
75-00-3	Chloroethane	U	103	ug/kg	34.5	103
67-66-3	Chloroform	U	103	ug/kg	34.5	103
74-87-3	Chloromethane	U	103	ug/kg	34.5	103
100-41-4	Ethylbenzene	U	103	ug/kg	34.5	103
75-09-2	Methylene chloride	U	517	ug/kg	173	517
100-42-5	Styrene	U	103	ug/kg	34.5	103
127-18-4	Tetrachloroethylene	U	103	ug/kg	34.5	103
108-88-3	Toluene	U	103	ug/kg	34.5	103
79-01-6	Trichloroethylene	U	103	ug/kg	34.5	103
76-13-1	Trichlorotrifluoroethane	U	517	ug/kg	173	517
108-05-4	Vinyl acetate	U	517	ug/kg	173	517
75-01-4	Vinyl chloride	U	103	ug/kg	34.5	103
1330-20-7	Xylenes (total)	U	310	ug/kg	103	310
156-59-2	cis-1,2-Dichloroethylene	U	103	ug/kg	34.5	103
156-60-5	trans-1,2-Dichloroethylene	U	103	ug/kg	34.5	103

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 11:08**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718008**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**5.3**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL07RE**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**1**
Run Date:	**10/03/2017 15:25**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 12:05**	**Aliquot:**	**5 g**	**Final Volume:**	**5 mL**
Data File:	**100317V9\9M213.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.351	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.351	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.351	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.351	1.06
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.351	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.351	1.06
78-93-3	2-Butanone	U	5.28	ug/kg	1.76	5.28
591-78-6	2-Hexanone	U	5.28	ug/kg	1.76	5.28
108-10-1	4-Methyl-2-pentanone	U	5.28	ug/kg	1.76	5.28
67-64-1	Acetone	U	5.28	ug/kg	1.76	5.28
71-43-2	Benzene	U	1.06	ug/kg	0.351	1.06
75-15-0	Carbon disulfide	U	5.28	ug/kg	1.76	5.28
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.351	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.351	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.351	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.351	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.351	1.06
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.351	1.06
75-09-2	Methylene chloride	U	5.28	ug/kg	1.76	5.28
100-42-5	Styrene	U	1.06	ug/kg	0.351	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.351	1.06
108-88-3	Toluene	U	1.06	ug/kg	0.351	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.351	1.06
76-13-1	Trichlorotrifluoroethane	U	5.28	ug/kg	1.76	5.28
108-05-4	Vinyl acetate	U	5.28	ug/kg	1.76	5.28
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.351	1.06
1330-20-7	Xylenes (total)	U	3.17	ug/kg	1.06	3.17
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.351	1.06
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.351	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 11:02**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718009**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**6.6**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL09**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**50**
Run Date:	**10/02/2017 19:10**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/02/2017 15:12**	**Aliquot:**	**5.2 g**	**Final Volume:**	**10 mL**
Data File:	**100217V9\9M120.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	103	ug/kg	34.3	103
79-34-5	1,1,2,2-Tetrachloroethane	U	103	ug/kg	34.3	103
79-00-5	1,1,2-Trichloroethane	U	103	ug/kg	34.3	103
75-34-3	1,1-Dichloroethane	U	103	ug/kg	34.3	103
75-35-4	1,1-Dichloroethylene	U	103	ug/kg	34.3	103
107-06-2	1,2-Dichloroethane	U	103	ug/kg	34.3	103
78-93-3	2-Butanone	U	515	ug/kg	172	515
591-78-6	2-Hexanone	U	515	ug/kg	172	515
108-10-1	4-Methyl-2-pentanone	U	515	ug/kg	172	515
67-64-1	Acetone	U	515	ug/kg	172	515
71-43-2	Benzene	U	103	ug/kg	34.3	103
75-15-0	Carbon disulfide	U	515	ug/kg	172	515
56-23-5	Carbon tetrachloride	U	103	ug/kg	34.3	103
108-90-7	Chlorobenzene	U	103	ug/kg	34.3	103
75-00-3	Chloroethane	U	103	ug/kg	34.3	103
67-66-3	Chloroform	U	103	ug/kg	34.3	103
74-87-3	Chloromethane	U	103	ug/kg	34.3	103
100-41-4	Ethylbenzene	U	103	ug/kg	34.3	103
75-09-2	Methylene chloride	U	515	ug/kg	172	515
100-42-5	Styrene	U	103	ug/kg	34.3	103
127-18-4	Tetrachloroethylene	U	103	ug/kg	34.3	103
108-88-3	Toluene	U	103	ug/kg	34.3	103
79-01-6	Trichloroethylene	U	103	ug/kg	34.3	103
76-13-1	Trichlorotrifluoroethane	U	515	ug/kg	172	515
108-05-4	Vinyl acetate	U	515	ug/kg	172	515
75-01-4	Vinyl chloride	U	103	ug/kg	34.3	103
1330-20-7	Xylenes (total)	U	309	ug/kg	103	309
156-59-2	cis-1,2-Dichloroethylene	U	103	ug/kg	34.3	103
156-60-5	trans-1,2-Dichloroethylene	U	103	ug/kg	34.3	103

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 11:02**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718009**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**6.6**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL09RE**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**1**
Run Date:	**10/03/2017 15:54**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 12:06**	**Aliquot:**	**5 g**	**Final Volume:**	**5 mL**
Data File:	**100317V9\9M214.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	1.07	ug/kg	0.356	1.07
79-34-5	1,1,2,2-Tetrachloroethane	U	1.07	ug/kg	0.356	1.07
79-00-5	1,1,2-Trichloroethane	U	1.07	ug/kg	0.356	1.07
75-34-3	1,1-Dichloroethane	U	1.07	ug/kg	0.356	1.07
75-35-4	1,1-Dichloroethylene	U	1.07	ug/kg	0.356	1.07
107-06-2	1,2-Dichloroethane	U	1.07	ug/kg	0.356	1.07
78-93-3	2-Butanone	U	5.35	ug/kg	1.78	5.35
591-78-6	2-Hexanone	U	5.35	ug/kg	1.78	5.35
108-10-1	4-Methyl-2-pentanone	U	5.35	ug/kg	1.78	5.35
67-64-1	Acetone	U	5.35	ug/kg	1.78	5.35
71-43-2	Benzene	U	1.07	ug/kg	0.356	1.07
75-15-0	Carbon disulfide	U	5.35	ug/kg	1.78	5.35
56-23-5	Carbon tetrachloride	U	1.07	ug/kg	0.356	1.07
108-90-7	Chlorobenzene	U	1.07	ug/kg	0.356	1.07
75-00-3	Chloroethane	U	1.07	ug/kg	0.356	1.07
67-66-3	Chloroform	U	1.07	ug/kg	0.356	1.07
74-87-3	Chloromethane	U	1.07	ug/kg	0.356	1.07
100-41-4	Ethylbenzene	U	1.07	ug/kg	0.356	1.07
75-09-2	Methylene chloride	U	5.35	ug/kg	1.78	5.35
100-42-5	Styrene	U	1.07	ug/kg	0.356	1.07
127-18-4	Tetrachloroethylene	U	1.07	ug/kg	0.356	1.07
108-88-3	Toluene	U	1.07	ug/kg	0.356	1.07
79-01-6	Trichloroethylene	U	1.07	ug/kg	0.356	1.07
76-13-1	Trichlorotrifluoroethane	U	5.35	ug/kg	1.78	5.35
108-05-4	Vinyl acetate	U	5.35	ug/kg	1.78	5.35
75-01-4	Vinyl chloride	U	1.07	ug/kg	0.356	1.07
1330-20-7	Xylenes (total)	U	3.21	ug/kg	1.07	3.21
156-59-2	cis-1,2-Dichloroethylene	U	1.07	ug/kg	0.356	1.07
156-60-5	trans-1,2-Dichloroethylene	U	1.07	ug/kg	0.356	1.07

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 14:10**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718010**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**7.3**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL11**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**50**
Run Date:	**10/02/2017 19:37**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/02/2017 15:13**	**Aliquot:**	**5 g**	**Final Volume:**	**10 mL**
Data File:	**100217V9\9M121.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	108	ug/kg	35.9	108
79-34-5	1,1,2,2-Tetrachloroethane	U	108	ug/kg	35.9	108
79-00-5	1,1,2-Trichloroethane	U	108	ug/kg	35.9	108
75-34-3	1,1-Dichloroethane	U	108	ug/kg	35.9	108
75-35-4	1,1-Dichloroethylene	U	108	ug/kg	35.9	108
107-06-2	1,2-Dichloroethane	U	108	ug/kg	35.9	108
78-93-3	2-Butanone	U	539	ug/kg	180	539
591-78-6	2-Hexanone	U	539	ug/kg	180	539
108-10-1	4-Methyl-2-pentanone	U	539	ug/kg	180	539
67-64-1	Acetone	U	539	ug/kg	180	539
71-43-2	Benzene	U	108	ug/kg	35.9	108
75-15-0	Carbon disulfide	U	539	ug/kg	180	539
56-23-5	Carbon tetrachloride	U	108	ug/kg	35.9	108
108-90-7	Chlorobenzene	U	108	ug/kg	35.9	108
75-00-3	Chloroethane	U	108	ug/kg	35.9	108
67-66-3	Chloroform	U	108	ug/kg	35.9	108
74-87-3	Chloromethane	U	108	ug/kg	35.9	108
100-41-4	Ethylbenzene	U	108	ug/kg	35.9	108
75-09-2	Methylene chloride	U	539	ug/kg	180	539
100-42-5	Styrene	U	108	ug/kg	35.9	108
127-18-4	Tetrachloroethylene	U	108	ug/kg	35.9	108
108-88-3	Toluene	U	108	ug/kg	35.9	108
79-01-6	Trichloroethylene	U	108	ug/kg	35.9	108
76-13-1	Trichlorotrifluoroethane	U	539	ug/kg	180	539
108-05-4	Vinyl acetate	U	539	ug/kg	180	539
75-01-4	Vinyl chloride	U	108	ug/kg	35.9	108
1330-20-7	Xylenes (total)	U	323	ug/kg	108	323
156-59-2	cis-1,2-Dichloroethylene	U	108	ug/kg	35.9	108
156-60-5	trans-1,2-Dichloroethylene	U	108	ug/kg	35.9	108

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 14:10**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718010**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**7.3**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL11RE**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**1**
Run Date:	**10/03/2017 16:23**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 12:07**	**Aliquot:**	**5 g**	**Final Volume:**	**5 mL**
Data File:	**100317V9\9M215.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	1.08	ug/kg	0.359	1.08
79-34-5	1,1,2,2-Tetrachloroethane	U	1.08	ug/kg	0.359	1.08
79-00-5	1,1,2-Trichloroethane	U	1.08	ug/kg	0.359	1.08
75-34-3	1,1-Dichloroethane	U	1.08	ug/kg	0.359	1.08
75-35-4	1,1-Dichloroethylene	U	1.08	ug/kg	0.359	1.08
107-06-2	1,2-Dichloroethane	U	1.08	ug/kg	0.359	1.08
78-93-3	2-Butanone	U	5.39	ug/kg	1.80	5.39
591-78-6	2-Hexanone	U	5.39	ug/kg	1.80	5.39
108-10-1	4-Methyl-2-pentanone	U	5.39	ug/kg	1.80	5.39
67-64-1	Acetone	U	5.39	ug/kg	1.80	5.39
71-43-2	Benzene	U	1.08	ug/kg	0.359	1.08
75-15-0	Carbon disulfide	U	5.39	ug/kg	1.80	5.39
56-23-5	Carbon tetrachloride	U	1.08	ug/kg	0.359	1.08
108-90-7	Chlorobenzene	U	1.08	ug/kg	0.359	1.08
75-00-3	Chloroethane	U	1.08	ug/kg	0.359	1.08
67-66-3	Chloroform	U	1.08	ug/kg	0.359	1.08
74-87-3	Chloromethane	U	1.08	ug/kg	0.359	1.08
100-41-4	Ethylbenzene	U	1.08	ug/kg	0.359	1.08
75-09-2	Methylene chloride	U	5.39	ug/kg	1.80	5.39
100-42-5	Styrene	U	1.08	ug/kg	0.359	1.08
127-18-4	Tetrachloroethylene	U	1.08	ug/kg	0.359	1.08
108-88-3	Toluene	U	1.08	ug/kg	0.359	1.08
79-01-6	Trichloroethylene	U	1.08	ug/kg	0.359	1.08
76-13-1	Trichlorotrifluoroethane	U	5.39	ug/kg	1.80	5.39
108-05-4	Vinyl acetate	U	5.39	ug/kg	1.80	5.39
75-01-4	Vinyl chloride	U	1.08	ug/kg	0.359	1.08
1330-20-7	Xylenes (total)	U	3.23	ug/kg	1.08	3.23
156-59-2	cis-1,2-Dichloroethylene	U	1.08	ug/kg	0.359	1.08
156-60-5	trans-1,2-Dichloroethylene	U	1.08	ug/kg	0.359	1.08

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 14:09**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718011**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**4.9**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL12**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**50**
Run Date:	**10/02/2017 20:05**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/02/2017 15:14**	**Aliquot:**	**5.2 g**	**Final Volume:**	**10 mL**
Data File:	**100217V9\9M122.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	101	ug/kg	33.7	101
79-34-5	1,1,2,2-Tetrachloroethane	U	101	ug/kg	33.7	101
79-00-5	1,1,2-Trichloroethane	U	101	ug/kg	33.7	101
75-34-3	1,1-Dichloroethane	U	101	ug/kg	33.7	101
75-35-4	1,1-Dichloroethylene	U	101	ug/kg	33.7	101
107-06-2	1,2-Dichloroethane	U	101	ug/kg	33.7	101
78-93-3	2-Butanone	U	506	ug/kg	169	506
591-78-6	2-Hexanone	U	506	ug/kg	169	506
108-10-1	4-Methyl-2-pentanone	U	506	ug/kg	169	506
67-64-1	Acetone	U	506	ug/kg	169	506
71-43-2	Benzene	U	101	ug/kg	33.7	101
75-15-0	Carbon disulfide	U	506	ug/kg	169	506
56-23-5	Carbon tetrachloride	U	101	ug/kg	33.7	101
108-90-7	Chlorobenzene	U	101	ug/kg	33.7	101
75-00-3	Chloroethane	U	101	ug/kg	33.7	101
67-66-3	Chloroform	U	101	ug/kg	33.7	101
74-87-3	Chloromethane	U	101	ug/kg	33.7	101
100-41-4	Ethylbenzene	U	101	ug/kg	33.7	101
75-09-2	Methylene chloride	U	506	ug/kg	169	506
100-42-5	Styrene	U	101	ug/kg	33.7	101
127-18-4	Tetrachloroethylene	U	101	ug/kg	33.7	101
108-88-3	Toluene	U	101	ug/kg	33.7	101
79-01-6	Trichloroethylene	U	101	ug/kg	33.7	101
76-13-1	Trichlorotrifluoroethane	U	506	ug/kg	169	506
108-05-4	Vinyl acetate	U	506	ug/kg	169	506
75-01-4	Vinyl chloride	U	101	ug/kg	33.7	101
1330-20-7	Xylenes (total)	U	303	ug/kg	101	303
156-59-2	cis-1,2-Dichloroethylene	U	101	ug/kg	33.7	101
156-60-5	trans-1,2-Dichloroethylene	U	101	ug/kg	33.7	101

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 14:09**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718011**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**4.9**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SOL12RE**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**1**
Run Date:	**10/03/2017 16:51**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 12:08**	**Aliquot:**	**5 g**	**Final Volume:**	**5 mL**
Data File:	**100317V9\9M216.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	1.05	ug/kg	0.350	1.05
79-34-5	1,1,2,2-Tetrachloroethane	U	1.05	ug/kg	0.350	1.05
79-00-5	1,1,2-Trichloroethane	U	1.05	ug/kg	0.350	1.05
75-34-3	1,1-Dichloroethane	U	1.05	ug/kg	0.350	1.05
75-35-4	1,1-Dichloroethylene	U	1.05	ug/kg	0.350	1.05
107-06-2	1,2-Dichloroethane	U	1.05	ug/kg	0.350	1.05
78-93-3	2-Butanone	U	5.26	ug/kg	1.75	5.26
591-78-6	2-Hexanone	U	5.26	ug/kg	1.75	5.26
108-10-1	4-Methyl-2-pentanone	U	5.26	ug/kg	1.75	5.26
67-64-1	Acetone	U	5.26	ug/kg	1.75	5.26
71-43-2	Benzene	U	1.05	ug/kg	0.350	1.05
75-15-0	Carbon disulfide	U	5.26	ug/kg	1.75	5.26
56-23-5	Carbon tetrachloride	U	1.05	ug/kg	0.350	1.05
108-90-7	Chlorobenzene	U	1.05	ug/kg	0.350	1.05
75-00-3	Chloroethane	U	1.05	ug/kg	0.350	1.05
67-66-3	Chloroform	U	1.05	ug/kg	0.350	1.05
74-87-3	Chloromethane	U	1.05	ug/kg	0.350	1.05
100-41-4	Ethylbenzene	U	1.05	ug/kg	0.350	1.05
75-09-2	Methylene chloride	U	5.26	ug/kg	1.75	5.26
100-42-5	Styrene	U	1.05	ug/kg	0.350	1.05
127-18-4	Tetrachloroethylene	U	1.05	ug/kg	0.350	1.05
108-88-3	Toluene	U	1.05	ug/kg	0.350	1.05
79-01-6	Trichloroethylene	U	1.05	ug/kg	0.350	1.05
76-13-1	Trichlorotrifluoroethane	U	5.26	ug/kg	1.75	5.26
108-05-4	Vinyl acetate	U	5.26	ug/kg	1.75	5.26
75-01-4	Vinyl chloride	U	1.05	ug/kg	0.350	1.05
1330-20-7	Xylenes (total)	U	3.16	ug/kg	1.05	3.16
156-59-2	cis-1,2-Dichloroethylene	U	1.05	ug/kg	0.350	1.05
156-60-5	trans-1,2-Dichloroethylene	U	1.05	ug/kg	0.350	1.05

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 10:30**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718012**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**5.6**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SWSOL01**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**50**
Run Date:	**10/02/2017 20:33**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/02/2017 15:15**	**Aliquot:**	**5 g**	**Final Volume:**	**10 mL**
Data File:	**100217V9\9M123.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	106	ug/kg	35.3	106
79-34-5	1,1,2,2-Tetrachloroethane	U	106	ug/kg	35.3	106
79-00-5	1,1,2-Trichloroethane	U	106	ug/kg	35.3	106
75-34-3	1,1-Dichloroethane	U	106	ug/kg	35.3	106
75-35-4	1,1-Dichloroethylene	U	106	ug/kg	35.3	106
107-06-2	1,2-Dichloroethane	U	106	ug/kg	35.3	106
78-93-3	2-Butanone	U	530	ug/kg	177	530
591-78-6	2-Hexanone	U	530	ug/kg	177	530
108-10-1	4-Methyl-2-pentanone	U	530	ug/kg	177	530
67-64-1	Acetone	U	530	ug/kg	177	530
71-43-2	Benzene	U	106	ug/kg	35.3	106
75-15-0	Carbon disulfide	U	530	ug/kg	177	530
56-23-5	Carbon tetrachloride	U	106	ug/kg	35.3	106
108-90-7	Chlorobenzene	U	106	ug/kg	35.3	106
75-00-3	Chloroethane	U	106	ug/kg	35.3	106
67-66-3	Chloroform	U	106	ug/kg	35.3	106
74-87-3	Chloromethane	U	106	ug/kg	35.3	106
100-41-4	Ethylbenzene	U	106	ug/kg	35.3	106
75-09-2	Methylene chloride	U	530	ug/kg	177	530
100-42-5	Styrene	U	106	ug/kg	35.3	106
127-18-4	Tetrachloroethylene	U	106	ug/kg	35.3	106
108-88-3	Toluene	U	106	ug/kg	35.3	106
79-01-6	Trichloroethylene	U	106	ug/kg	35.3	106
76-13-1	Trichlorotrifluoroethane	U	530	ug/kg	177	530
108-05-4	Vinyl acetate	U	530	ug/kg	177	530
75-01-4	Vinyl chloride	U	106	ug/kg	35.3	106
1330-20-7	Xylenes (total)	U	318	ug/kg	106	318
156-59-2	cis-1,2-Dichloroethylene	U	106	ug/kg	35.3	106
156-60-5	trans-1,2-Dichloroethylene	U	106	ug/kg	35.3	106

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 10:30**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718012**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**5.6**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SWSOL01RE**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**1**
Run Date:	**10/03/2017 17:20**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 12:09**	**Aliquot:**	**5 g**	**Final Volume:**	**5 mL**
Data File:	**100317V9\9M217.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.353	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.353	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.353	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.353	1.06
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.353	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.353	1.06
78-93-3	2-Butanone	U	5.30	ug/kg	1.77	5.30
591-78-6	2-Hexanone	U	5.30	ug/kg	1.77	5.30
108-10-1	4-Methyl-2-pentanone	U	5.30	ug/kg	1.77	5.30
67-64-1	Acetone	U	5.30	ug/kg	1.77	5.30
71-43-2	Benzene	U	1.06	ug/kg	0.353	1.06
75-15-0	Carbon disulfide	U	5.30	ug/kg	1.77	5.30
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.353	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.353	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.353	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.353	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.353	1.06
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.353	1.06
75-09-2	Methylene chloride	U	5.30	ug/kg	1.77	5.30
100-42-5	Styrene	U	1.06	ug/kg	0.353	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.353	1.06
108-88-3	Toluene	U	1.06	ug/kg	0.353	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.353	1.06
76-13-1	Trichlorotrifluoroethane	U	5.30	ug/kg	1.77	5.30
108-05-4	Vinyl acetate	U	5.30	ug/kg	1.77	5.30
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.353	1.06
1330-20-7	Xylenes (total)	U	3.18	ug/kg	1.06	3.18
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.353	1.06
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.353	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 10:52**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718013**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**5.2**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SWSOL02**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**50**
Run Date:	**10/02/2017 21:01**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/02/2017 15:16**	**Aliquot:**	**5.5 g**	**Final Volume:**	**10 mL**
Data File:	**100217V9\9M124.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	95.9	ug/kg	31.9	95.9
79-34-5	1,1,2,2-Tetrachloroethane	U	95.9	ug/kg	31.9	95.9
79-00-5	1,1,2-Trichloroethane	U	95.9	ug/kg	31.9	95.9
75-34-3	1,1-Dichloroethane	U	95.9	ug/kg	31.9	95.9
75-35-4	1,1-Dichloroethylene	U	95.9	ug/kg	31.9	95.9
107-06-2	1,2-Dichloroethane	U	95.9	ug/kg	31.9	95.9
78-93-3	2-Butanone	U	480	ug/kg	160	480
591-78-6	2-Hexanone	U	480	ug/kg	160	480
108-10-1	4-Methyl-2-pentanone	U	480	ug/kg	160	480
67-64-1	Acetone	U	480	ug/kg	160	480
71-43-2	Benzene	U	95.9	ug/kg	31.9	95.9
75-15-0	Carbon disulfide	U	480	ug/kg	160	480
56-23-5	Carbon tetrachloride	U	95.9	ug/kg	31.9	95.9
108-90-7	Chlorobenzene	U	95.9	ug/kg	31.9	95.9
75-00-3	Chloroethane	U	95.9	ug/kg	31.9	95.9
67-66-3	Chloroform	U	95.9	ug/kg	31.9	95.9
74-87-3	Chloromethane	U	95.9	ug/kg	31.9	95.9
100-41-4	Ethylbenzene	U	95.9	ug/kg	31.9	95.9
75-09-2	Methylene chloride	U	480	ug/kg	160	480
100-42-5	Styrene	U	95.9	ug/kg	31.9	95.9
127-18-4	Tetrachloroethylene	U	95.9	ug/kg	31.9	95.9
108-88-3	Toluene	U	95.9	ug/kg	31.9	95.9
79-01-6	Trichloroethylene	U	95.9	ug/kg	31.9	95.9
76-13-1	Trichlorotrifluoroethane	U	480	ug/kg	160	480
108-05-4	Vinyl acetate	U	480	ug/kg	160	480
75-01-4	Vinyl chloride	U	95.9	ug/kg	31.9	95.9
1330-20-7	Xylenes (total)	U	288	ug/kg	95.9	288
156-59-2	cis-1,2-Dichloroethylene	U	95.9	ug/kg	31.9	95.9
156-60-5	trans-1,2-Dichloroethylene	U	95.9	ug/kg	31.9	95.9

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 10:52**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718013**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**5.2**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SWSOL02RE**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**1**
Run Date:	**10/03/2017 17:48**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 12:10**	**Aliquot:**	**5 g**	**Final Volume:**	**5 mL**
Data File:	**100317V9\9M218.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.351	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.351	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.351	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.351	1.06
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.351	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.351	1.06
78-93-3	2-Butanone	U	5.28	ug/kg	1.76	5.28
591-78-6	2-Hexanone	U	5.28	ug/kg	1.76	5.28
108-10-1	4-Methyl-2-pentanone	U	5.28	ug/kg	1.76	5.28
67-64-1	Acetone	U	5.28	ug/kg	1.76	5.28
71-43-2	Benzene	U	1.06	ug/kg	0.351	1.06
75-15-0	Carbon disulfide	U	5.28	ug/kg	1.76	5.28
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.351	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.351	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.351	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.351	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.351	1.06
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.351	1.06
75-09-2	Methylene chloride	U	5.28	ug/kg	1.76	5.28
100-42-5	Styrene	U	1.06	ug/kg	0.351	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.351	1.06
108-88-3	Toluene	U	1.06	ug/kg	0.351	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.351	1.06
76-13-1	Trichlorotrifluoroethane	U	5.28	ug/kg	1.76	5.28
108-05-4	Vinyl acetate	U	5.28	ug/kg	1.76	5.28
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.351	1.06
1330-20-7	Xylenes (total)	U	3.17	ug/kg	1.06	3.17
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.351	1.06
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.351	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 10:40**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718014**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**6.5**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SWSOL04**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**50**
Run Date:	**10/02/2017 21:28**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/02/2017 15:17**	**Aliquot:**	**5 g**	**Final Volume:**	**10 mL**
Data File:	**100217V9\9M125.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	107	ug/kg	35.6	107
79-34-5	1,1,2,2-Tetrachloroethane	U	107	ug/kg	35.6	107
79-00-5	1,1,2-Trichloroethane	U	107	ug/kg	35.6	107
75-34-3	1,1-Dichloroethane	U	107	ug/kg	35.6	107
75-35-4	1,1-Dichloroethylene	U	107	ug/kg	35.6	107
107-06-2	1,2-Dichloroethane	U	107	ug/kg	35.6	107
78-93-3	2-Butanone	U	535	ug/kg	178	535
591-78-6	2-Hexanone	U	535	ug/kg	178	535
108-10-1	4-Methyl-2-pentanone	U	535	ug/kg	178	535
67-64-1	Acetone	U	535	ug/kg	178	535
71-43-2	Benzene	U	107	ug/kg	35.6	107
75-15-0	Carbon disulfide	U	535	ug/kg	178	535
56-23-5	Carbon tetrachloride	U	107	ug/kg	35.6	107
108-90-7	Chlorobenzene	U	107	ug/kg	35.6	107
75-00-3	Chloroethane	U	107	ug/kg	35.6	107
67-66-3	Chloroform	U	107	ug/kg	35.6	107
74-87-3	Chloromethane	U	107	ug/kg	35.6	107
100-41-4	Ethylbenzene	U	107	ug/kg	35.6	107
75-09-2	Methylene chloride	U	535	ug/kg	178	535
100-42-5	Styrene	U	107	ug/kg	35.6	107
127-18-4	Tetrachloroethylene	U	107	ug/kg	35.6	107
108-88-3	Toluene	U	107	ug/kg	35.6	107
79-01-6	Trichloroethylene	U	107	ug/kg	35.6	107
76-13-1	Trichlorotrifluoroethane	U	535	ug/kg	178	535
108-05-4	Vinyl acetate	U	535	ug/kg	178	535
75-01-4	Vinyl chloride	U	107	ug/kg	35.6	107
1330-20-7	Xylenes (total)	U	321	ug/kg	107	321
156-59-2	cis-1,2-Dichloroethylene	U	107	ug/kg	35.6	107
156-60-5	trans-1,2-Dichloroethylene	U	107	ug/kg	35.6	107

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 10:40**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718014**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**6.5**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SWSOL04RE**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**1**
Run Date:	**10/03/2017 18:17**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 12:11**	**Aliquot:**	**5 g**	**Final Volume:**	**5 mL**
Data File:	**100317V9\9M219.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	1.07	ug/kg	0.356	1.07
79-34-5	1,1,2,2-Tetrachloroethane	U	1.07	ug/kg	0.356	1.07
79-00-5	1,1,2-Trichloroethane	U	1.07	ug/kg	0.356	1.07
75-34-3	1,1-Dichloroethane	U	1.07	ug/kg	0.356	1.07
75-35-4	1,1-Dichloroethylene	U	1.07	ug/kg	0.356	1.07
107-06-2	1,2-Dichloroethane	U	1.07	ug/kg	0.356	1.07
78-93-3	2-Butanone	U	5.35	ug/kg	1.78	5.35
591-78-6	2-Hexanone	U	5.35	ug/kg	1.78	5.35
108-10-1	4-Methyl-2-pentanone	U	5.35	ug/kg	1.78	5.35
67-64-1	Acetone	U	5.35	ug/kg	1.78	5.35
71-43-2	Benzene	U	1.07	ug/kg	0.356	1.07
75-15-0	Carbon disulfide	U	5.35	ug/kg	1.78	5.35
56-23-5	Carbon tetrachloride	U	1.07	ug/kg	0.356	1.07
108-90-7	Chlorobenzene	U	1.07	ug/kg	0.356	1.07
75-00-3	Chloroethane	U	1.07	ug/kg	0.356	1.07
67-66-3	Chloroform	U	1.07	ug/kg	0.356	1.07
74-87-3	Chloromethane	U	1.07	ug/kg	0.356	1.07
100-41-4	Ethylbenzene	U	1.07	ug/kg	0.356	1.07
75-09-2	Methylene chloride	U	5.35	ug/kg	1.78	5.35
100-42-5	Styrene	U	1.07	ug/kg	0.356	1.07
127-18-4	Tetrachloroethylene	U	1.07	ug/kg	0.356	1.07
108-88-3	Toluene	U	1.07	ug/kg	0.356	1.07
79-01-6	Trichloroethylene	U	1.07	ug/kg	0.356	1.07
76-13-1	Trichlorotrifluoroethane	U	5.35	ug/kg	1.78	5.35
108-05-4	Vinyl acetate	U	5.35	ug/kg	1.78	5.35
75-01-4	Vinyl chloride	U	1.07	ug/kg	0.356	1.07
1330-20-7	Xylenes (total)	U	3.21	ug/kg	1.07	3.21
156-59-2	cis-1,2-Dichloroethylene	U	1.07	ug/kg	0.356	1.07
156-60-5	trans-1,2-Dichloroethylene	U	1.07	ug/kg	0.356	1.07

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 13:57**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718015**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**12.9**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SWSOL05**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**50**
Run Date:	**10/02/2017 21:56**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/02/2017 15:18**	**Aliquot:**	**5.1 g**	**Final Volume:**	**10 mL**
Data File:	**100217V9\9M126.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	113	ug/kg	37.5	113
79-34-5	1,1,2,2-Tetrachloroethane	U	113	ug/kg	37.5	113
79-00-5	1,1,2-Trichloroethane	U	113	ug/kg	37.5	113
75-34-3	1,1-Dichloroethane	U	113	ug/kg	37.5	113
75-35-4	1,1-Dichloroethylene	U	113	ug/kg	37.5	113
107-06-2	1,2-Dichloroethane	U	113	ug/kg	37.5	113
78-93-3	2-Butanone	U	563	ug/kg	188	563
591-78-6	2-Hexanone	U	563	ug/kg	188	563
108-10-1	4-Methyl-2-pentanone	U	563	ug/kg	188	563
67-64-1	Acetone	U	563	ug/kg	188	563
71-43-2	Benzene	U	113	ug/kg	37.5	113
75-15-0	Carbon disulfide	U	563	ug/kg	188	563
56-23-5	Carbon tetrachloride	U	113	ug/kg	37.5	113
108-90-7	Chlorobenzene	U	113	ug/kg	37.5	113
75-00-3	Chloroethane	U	113	ug/kg	37.5	113
67-66-3	Chloroform	U	113	ug/kg	37.5	113
74-87-3	Chloromethane	U	113	ug/kg	37.5	113
100-41-4	Ethylbenzene	U	113	ug/kg	37.5	113
75-09-2	Methylene chloride	U	563	ug/kg	188	563
100-42-5	Styrene	U	113	ug/kg	37.5	113
127-18-4	Tetrachloroethylene	U	113	ug/kg	37.5	113
108-88-3	Toluene	U	113	ug/kg	37.5	113
79-01-6	Trichloroethylene	U	113	ug/kg	37.5	113
76-13-1	Trichlorotrifluoroethane	U	563	ug/kg	188	563
108-05-4	Vinyl acetate	U	563	ug/kg	188	563
75-01-4	Vinyl chloride	U	113	ug/kg	37.5	113
1330-20-7	Xylenes (total)	U	338	ug/kg	113	338
156-59-2	cis-1,2-Dichloroethylene	U	113	ug/kg	37.5	113
156-60-5	trans-1,2-Dichloroethylene	U	113	ug/kg	37.5	113

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 13:57**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718015**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**12.9**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SWSOL05RE**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**1**
Run Date:	**10/03/2017 18:45**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 12:12**	**Aliquot:**	**5 g**	**Final Volume:**	**5 mL**
Data File:	**100317V9\9M220.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	1.15	ug/kg	0.382	1.15
79-34-5	1,1,2,2-Tetrachloroethane	U	1.15	ug/kg	0.382	1.15
79-00-5	1,1,2-Trichloroethane	U	1.15	ug/kg	0.382	1.15
75-34-3	1,1-Dichloroethane	U	1.15	ug/kg	0.382	1.15
75-35-4	1,1-Dichloroethylene	U	1.15	ug/kg	0.382	1.15
107-06-2	1,2-Dichloroethane	U	1.15	ug/kg	0.382	1.15
78-93-3	2-Butanone	U	5.74	ug/kg	1.91	5.74
591-78-6	2-Hexanone	U	5.74	ug/kg	1.91	5.74
108-10-1	4-Methyl-2-pentanone	U	5.74	ug/kg	1.91	5.74
67-64-1	Acetone	U	5.74	ug/kg	1.91	5.74
71-43-2	Benzene	U	1.15	ug/kg	0.382	1.15
75-15-0	Carbon disulfide	U	5.74	ug/kg	1.91	5.74
56-23-5	Carbon tetrachloride	U	1.15	ug/kg	0.382	1.15
108-90-7	Chlorobenzene	U	1.15	ug/kg	0.382	1.15
75-00-3	Chloroethane	U	1.15	ug/kg	0.382	1.15
67-66-3	Chloroform	U	1.15	ug/kg	0.382	1.15
74-87-3	Chloromethane	U	1.15	ug/kg	0.382	1.15
100-41-4	Ethylbenzene	U	1.15	ug/kg	0.382	1.15
75-09-2	Methylene chloride	U	5.74	ug/kg	1.91	5.74
100-42-5	Styrene	U	1.15	ug/kg	0.382	1.15
127-18-4	Tetrachloroethylene	U	1.15	ug/kg	0.382	1.15
108-88-3	Toluene	U	1.15	ug/kg	0.382	1.15
79-01-6	Trichloroethylene	U	1.15	ug/kg	0.382	1.15
76-13-1	Trichlorotrifluoroethane	U	5.74	ug/kg	1.91	5.74
108-05-4	Vinyl acetate	U	5.74	ug/kg	1.91	5.74
75-01-4	Vinyl chloride	U	1.15	ug/kg	0.382	1.15
1330-20-7	Xylenes (total)	U	3.44	ug/kg	1.15	3.44
156-59-2	cis-1,2-Dichloroethylene	U	1.15	ug/kg	0.382	1.15
156-60-5	trans-1,2-Dichloroethylene	U	1.15	ug/kg	0.382	1.15

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 14:00**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718016**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**7.3**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SWSOL06**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**50**
Run Date:	**10/02/2017 22:24**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/02/2017 15:19**	**Aliquot:**	**5.8 g**	**Final Volume:**	**10 mL**
Data File:	**100217V9\9M127.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	93.0	ug/kg	31.0	93.0
79-34-5	1,1,2,2-Tetrachloroethane	U	93.0	ug/kg	31.0	93.0
79-00-5	1,1,2-Trichloroethane	U	93.0	ug/kg	31.0	93.0
75-34-3	1,1-Dichloroethane	U	93.0	ug/kg	31.0	93.0
75-35-4	1,1-Dichloroethylene	U	93.0	ug/kg	31.0	93.0
107-06-2	1,2-Dichloroethane	U	93.0	ug/kg	31.0	93.0
78-93-3	2-Butanone	U	465	ug/kg	155	465
591-78-6	2-Hexanone	U	465	ug/kg	155	465
108-10-1	4-Methyl-2-pentanone	U	465	ug/kg	155	465
67-64-1	Acetone	U	465	ug/kg	155	465
71-43-2	Benzene	U	93.0	ug/kg	31.0	93.0
75-15-0	Carbon disulfide	U	465	ug/kg	155	465
56-23-5	Carbon tetrachloride	U	93.0	ug/kg	31.0	93.0
108-90-7	Chlorobenzene	U	93.0	ug/kg	31.0	93.0
75-00-3	Chloroethane	U	93.0	ug/kg	31.0	93.0
67-66-3	Chloroform	U	93.0	ug/kg	31.0	93.0
74-87-3	Chloromethane	U	93.0	ug/kg	31.0	93.0
100-41-4	Ethylbenzene	U	93.0	ug/kg	31.0	93.0
75-09-2	Methylene chloride	U	465	ug/kg	155	465
100-42-5	Styrene	U	93.0	ug/kg	31.0	93.0
127-18-4	Tetrachloroethylene	U	93.0	ug/kg	31.0	93.0
108-88-3	Toluene	U	93.0	ug/kg	31.0	93.0
79-01-6	Trichloroethylene	U	93.0	ug/kg	31.0	93.0
76-13-1	Trichlorotrifluoroethane	U	465	ug/kg	155	465
108-05-4	Vinyl acetate	U	465	ug/kg	155	465
75-01-4	Vinyl chloride	U	93.0	ug/kg	31.0	93.0
1330-20-7	Xylenes (total)	U	279	ug/kg	93.0	279
156-59-2	cis-1,2-Dichloroethylene	U	93.0	ug/kg	31.0	93.0
156-60-5	trans-1,2-Dichloroethylene	U	93.0	ug/kg	31.0	93.0

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 14:00**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718016**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**7.3**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SWSOL06RE**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**1**
Run Date:	**10/03/2017 19:14**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 12:13**	**Aliquot:**	**5 g**	**Final Volume:**	**5 mL**
Data File:	**100317V9\9M221.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	1.08	ug/kg	0.359	1.08
79-34-5	1,1,2,2-Tetrachloroethane	U	1.08	ug/kg	0.359	1.08
79-00-5	1,1,2-Trichloroethane	U	1.08	ug/kg	0.359	1.08
75-34-3	1,1-Dichloroethane	U	1.08	ug/kg	0.359	1.08
75-35-4	1,1-Dichloroethylene	U	1.08	ug/kg	0.359	1.08
107-06-2	1,2-Dichloroethane	U	1.08	ug/kg	0.359	1.08
78-93-3	2-Butanone	U	5.39	ug/kg	1.80	5.39
591-78-6	2-Hexanone	U	5.39	ug/kg	1.80	5.39
108-10-1	4-Methyl-2-pentanone	U	5.39	ug/kg	1.80	5.39
67-64-1	Acetone	U	5.39	ug/kg	1.80	5.39
71-43-2	Benzene	U	1.08	ug/kg	0.359	1.08
75-15-0	Carbon disulfide	U	5.39	ug/kg	1.80	5.39
56-23-5	Carbon tetrachloride	U	1.08	ug/kg	0.359	1.08
108-90-7	Chlorobenzene	U	1.08	ug/kg	0.359	1.08
75-00-3	Chloroethane	U	1.08	ug/kg	0.359	1.08
67-66-3	Chloroform	U	1.08	ug/kg	0.359	1.08
74-87-3	Chloromethane	U	1.08	ug/kg	0.359	1.08
100-41-4	Ethylbenzene	U	1.08	ug/kg	0.359	1.08
75-09-2	Methylene chloride	U	5.39	ug/kg	1.80	5.39
100-42-5	Styrene	U	1.08	ug/kg	0.359	1.08
127-18-4	Tetrachloroethylene	U	1.08	ug/kg	0.359	1.08
108-88-3	Toluene	U	1.08	ug/kg	0.359	1.08
79-01-6	Trichloroethylene	U	1.08	ug/kg	0.359	1.08
76-13-1	Trichlorotrifluoroethane	U	5.39	ug/kg	1.80	5.39
108-05-4	Vinyl acetate	U	5.39	ug/kg	1.80	5.39
75-01-4	Vinyl chloride	U	1.08	ug/kg	0.359	1.08
1330-20-7	Xylenes (total)	U	3.24	ug/kg	1.08	3.24
156-59-2	cis-1,2-Dichloroethylene	U	1.08	ug/kg	0.359	1.08
156-60-5	trans-1,2-Dichloroethylene	U	1.08	ug/kg	0.359	1.08

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 14:30**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718017**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**5.5**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SWSOL07**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**50**
Run Date:	**10/02/2017 22:52**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/02/2017 15:20**	**Aliquot:**	**5.6 g**	**Final Volume:**	**10 mL**
Data File:	**100217V9\9M128.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	94.5	ug/kg	31.5	94.5
79-34-5	1,1,2,2-Tetrachloroethane	U	94.5	ug/kg	31.5	94.5
79-00-5	1,1,2-Trichloroethane	U	94.5	ug/kg	31.5	94.5
75-34-3	1,1-Dichloroethane	U	94.5	ug/kg	31.5	94.5
75-35-4	1,1-Dichloroethylene	U	94.5	ug/kg	31.5	94.5
107-06-2	1,2-Dichloroethane	U	94.5	ug/kg	31.5	94.5
78-93-3	2-Butanone	U	472	ug/kg	157	472
591-78-6	2-Hexanone	U	472	ug/kg	157	472
108-10-1	4-Methyl-2-pentanone	U	472	ug/kg	157	472
67-64-1	Acetone	U	472	ug/kg	157	472
71-43-2	Benzene	U	94.5	ug/kg	31.5	94.5
75-15-0	Carbon disulfide	U	472	ug/kg	157	472
56-23-5	Carbon tetrachloride	U	94.5	ug/kg	31.5	94.5
108-90-7	Chlorobenzene	U	94.5	ug/kg	31.5	94.5
75-00-3	Chloroethane	U	94.5	ug/kg	31.5	94.5
67-66-3	Chloroform	U	94.5	ug/kg	31.5	94.5
74-87-3	Chloromethane	U	94.5	ug/kg	31.5	94.5
100-41-4	Ethylbenzene	U	94.5	ug/kg	31.5	94.5
75-09-2	Methylene chloride	U	472	ug/kg	157	472
100-42-5	Styrene	U	94.5	ug/kg	31.5	94.5
127-18-4	Tetrachloroethylene	U	94.5	ug/kg	31.5	94.5
108-88-3	Toluene	U	94.5	ug/kg	31.5	94.5
79-01-6	Trichloroethylene	U	94.5	ug/kg	31.5	94.5
76-13-1	Trichlorotrifluoroethane	U	472	ug/kg	157	472
108-05-4	Vinyl acetate	U	472	ug/kg	157	472
75-01-4	Vinyl chloride	U	94.5	ug/kg	31.5	94.5
1330-20-7	Xylenes (total)	U	283	ug/kg	94.5	283
156-59-2	cis-1,2-Dichloroethylene	U	94.5	ug/kg	31.5	94.5
156-60-5	trans-1,2-Dichloroethylene	U	94.5	ug/kg	31.5	94.5

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 14:30**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718017**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**5.5**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2SWSOL07RE**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**1**
Run Date:	**10/03/2017 19:43**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 12:14**	**Aliquot:**	**5 g**	**Final Volume:**	**5 mL**
Data File:	**100317V9\9M222.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.352	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.352	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.352	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.352	1.06
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.352	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.352	1.06
78-93-3	2-Butanone	U	5.29	ug/kg	1.76	5.29
591-78-6	2-Hexanone	U	5.29	ug/kg	1.76	5.29
108-10-1	4-Methyl-2-pentanone	U	5.29	ug/kg	1.76	5.29
67-64-1	Acetone	U	5.29	ug/kg	1.76	5.29
71-43-2	Benzene	U	1.06	ug/kg	0.352	1.06
75-15-0	Carbon disulfide	U	5.29	ug/kg	1.76	5.29
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.352	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.352	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.352	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.352	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.352	1.06
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.352	1.06
75-09-2	Methylene chloride	U	5.29	ug/kg	1.76	5.29
100-42-5	Styrene	U	1.06	ug/kg	0.352	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.352	1.06
108-88-3	Toluene	U	1.06	ug/kg	0.352	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.352	1.06
76-13-1	Trichlorotrifluoroethane	U	5.29	ug/kg	1.76	5.29
108-05-4	Vinyl acetate	U	5.29	ug/kg	1.76	5.29
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.352	1.06
1330-20-7	Xylenes (total)	U	3.17	ug/kg	1.06	3.17
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.352	1.06
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.352	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 13:54**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718018**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**6**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2ESOL01**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**1**
Run Date:	**10/03/2017 20:10**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 14:45**	**Aliquot:**	**5 g**	**Final Volume:**	**5 mL**
Data File:	**100317V9\9M223.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	1.06	ug/kg	0.354	1.06
79-34-5	1,1,2,2-Tetrachloroethane	U	1.06	ug/kg	0.354	1.06
79-00-5	1,1,2-Trichloroethane	U	1.06	ug/kg	0.354	1.06
75-34-3	1,1-Dichloroethane	U	1.06	ug/kg	0.354	1.06
75-35-4	1,1-Dichloroethylene	U	1.06	ug/kg	0.354	1.06
107-06-2	1,2-Dichloroethane	U	1.06	ug/kg	0.354	1.06
78-93-3	2-Butanone	U	5.32	ug/kg	1.77	5.32
591-78-6	2-Hexanone	U	5.32	ug/kg	1.77	5.32
108-10-1	4-Methyl-2-pentanone	U	5.32	ug/kg	1.77	5.32
67-64-1	Acetone	J	2.06	ug/kg	1.77	5.32
71-43-2	Benzene	U	1.06	ug/kg	0.354	1.06
75-15-0	Carbon disulfide	U	5.32	ug/kg	1.77	5.32
56-23-5	Carbon tetrachloride	U	1.06	ug/kg	0.354	1.06
108-90-7	Chlorobenzene	U	1.06	ug/kg	0.354	1.06
75-00-3	Chloroethane	U	1.06	ug/kg	0.354	1.06
67-66-3	Chloroform	U	1.06	ug/kg	0.354	1.06
74-87-3	Chloromethane	U	1.06	ug/kg	0.354	1.06
100-41-4	Ethylbenzene	U	1.06	ug/kg	0.354	1.06
75-09-2	Methylene chloride		6.60	ug/kg	1.77	5.32
100-42-5	Styrene	U	1.06	ug/kg	0.354	1.06
127-18-4	Tetrachloroethylene	U	1.06	ug/kg	0.354	1.06
108-88-3	Toluene	J	0.426	ug/kg	0.354	1.06
79-01-6	Trichloroethylene	U	1.06	ug/kg	0.354	1.06
76-13-1	Trichlorotrifluoroethane	U	5.32	ug/kg	1.77	5.32
108-05-4	Vinyl acetate	U	5.32	ug/kg	1.77	5.32
75-01-4	Vinyl chloride	U	1.06	ug/kg	0.354	1.06
1330-20-7	Xylenes (total)	U	3.19	ug/kg	1.06	3.19
156-59-2	cis-1,2-Dichloroethylene	U	1.06	ug/kg	0.354	1.06
156-60-5	trans-1,2-Dichloroethylene	U	1.06	ug/kg	0.354	1.06

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 13:54**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718018**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**6**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2ESOL01REDL**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705853**	**Inst:**	**VOA9.I**	**Dilution:**	**50**
Run Date:	**10/04/2017 01:42**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 14:50**	**Aliquot:**	**6 g**	**Final Volume:**	**10 mL**
Data File:	**100317V9\9M235.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	88.7	ug/kg	29.5	88.7
79-34-5	1,1,2,2-Tetrachloroethane	U	88.7	ug/kg	29.5	88.7
79-00-5	1,1,2-Trichloroethane	U	88.7	ug/kg	29.5	88.7
75-34-3	1,1-Dichloroethane	U	88.7	ug/kg	29.5	88.7
75-35-4	1,1-Dichloroethylene	U	88.7	ug/kg	29.5	88.7
107-06-2	1,2-Dichloroethane	U	88.7	ug/kg	29.5	88.7
78-93-3	2-Butanone	U	443	ug/kg	148	443
591-78-6	2-Hexanone	U	443	ug/kg	148	443
108-10-1	4-Methyl-2-pentanone	U	443	ug/kg	148	443
67-64-1	Acetone	U	443	ug/kg	148	443
71-43-2	Benzene	U	88.7	ug/kg	29.5	88.7
75-15-0	Carbon disulfide	U	443	ug/kg	148	443
56-23-5	Carbon tetrachloride	U	88.7	ug/kg	29.5	88.7
108-90-7	Chlorobenzene	U	88.7	ug/kg	29.5	88.7
75-00-3	Chloroethane	U	88.7	ug/kg	29.5	88.7
67-66-3	Chloroform	U	88.7	ug/kg	29.5	88.7
74-87-3	Chloromethane	U	88.7	ug/kg	29.5	88.7
100-41-4	Ethylbenzene	U	88.7	ug/kg	29.5	88.7
75-09-2	Methylene chloride	U	443	ug/kg	148	443
100-42-5	Styrene	U	88.7	ug/kg	29.5	88.7
127-18-4	Tetrachloroethylene	U	88.7	ug/kg	29.5	88.7
108-88-3	Toluene	U	88.7	ug/kg	29.5	88.7
79-01-6	Trichloroethylene	U	88.7	ug/kg	29.5	88.7
76-13-1	Trichlorotrifluoroethane	U	443	ug/kg	148	443
108-05-4	Vinyl acetate	U	443	ug/kg	148	443
75-01-4	Vinyl chloride	U	88.7	ug/kg	29.5	88.7
1330-20-7	Xylenes (total)	U	266	ug/kg	88.7	266
156-59-2	cis-1,2-Dichloroethylene	U	88.7	ug/kg	29.5	88.7
156-60-5	trans-1,2-Dichloroethylene	U	88.7	ug/kg	29.5	88.7

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 13:45**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718019**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**7.3**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2ESOL02**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**1**
Run Date:	**10/03/2017 20:39**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 14:46**	**Aliquot:**	**5 g**	**Final Volume:**	**5 mL**
Data File:	**100317V9\9M224.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	1.08	ug/kg	0.359	1.08
79-34-5	1,1,2,2-Tetrachloroethane	U	1.08	ug/kg	0.359	1.08
79-00-5	1,1,2-Trichloroethane	U	1.08	ug/kg	0.359	1.08
75-34-3	1,1-Dichloroethane	U	1.08	ug/kg	0.359	1.08
75-35-4	1,1-Dichloroethylene	U	1.08	ug/kg	0.359	1.08
107-06-2	1,2-Dichloroethane	U	1.08	ug/kg	0.359	1.08
78-93-3	2-Butanone	U	5.39	ug/kg	1.80	5.39
591-78-6	2-Hexanone	U	5.39	ug/kg	1.80	5.39
108-10-1	4-Methyl-2-pentanone	U	5.39	ug/kg	1.80	5.39
67-64-1	Acetone	U	5.39	ug/kg	1.80	5.39
71-43-2	Benzene	U	1.08	ug/kg	0.359	1.08
75-15-0	Carbon disulfide	U	5.39	ug/kg	1.80	5.39
56-23-5	Carbon tetrachloride	U	1.08	ug/kg	0.359	1.08
108-90-7	Chlorobenzene	U	1.08	ug/kg	0.359	1.08
75-00-3	Chloroethane	U	1.08	ug/kg	0.359	1.08
67-66-3	Chloroform	U	1.08	ug/kg	0.359	1.08
74-87-3	Chloromethane	U	1.08	ug/kg	0.359	1.08
100-41-4	Ethylbenzene	U	1.08	ug/kg	0.359	1.08
75-09-2	Methylene chloride		5.48	ug/kg	1.80	5.39
100-42-5	Styrene	U	1.08	ug/kg	0.359	1.08
127-18-4	Tetrachloroethylene	J	0.734	ug/kg	0.359	1.08
108-88-3	Toluene	U	1.08	ug/kg	0.359	1.08
79-01-6	Trichloroethylene	J	0.421	ug/kg	0.359	1.08
76-13-1	Trichlorotrifluoroethane	U	5.39	ug/kg	1.80	5.39
108-05-4	Vinyl acetate	U	5.39	ug/kg	1.80	5.39
75-01-4	Vinyl chloride	U	1.08	ug/kg	0.359	1.08
1330-20-7	Xylenes (total)	U	3.24	ug/kg	1.08	3.24
156-59-2	cis-1,2-Dichloroethylene	U	1.08	ug/kg	0.359	1.08
156-60-5	trans-1,2-Dichloroethylene	U	1.08	ug/kg	0.359	1.08

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 13:45**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718019**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**7.3**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2ESOL02REDL**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**50**
Run Date:	**10/04/2017 02:09**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 14:51**	**Aliquot:**	**5 g**	**Final Volume:**	**10 mL**
Data File:	**100317V9\9M236.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	108	ug/kg	35.9	108
79-34-5	1,1,2,2-Tetrachloroethane	U	108	ug/kg	35.9	108
79-00-5	1,1,2-Trichloroethane	U	108	ug/kg	35.9	108
75-34-3	1,1-Dichloroethane	U	108	ug/kg	35.9	108
75-35-4	1,1-Dichloroethylene	U	108	ug/kg	35.9	108
107-06-2	1,2-Dichloroethane	U	108	ug/kg	35.9	108
78-93-3	2-Butanone	U	539	ug/kg	180	539
591-78-6	2-Hexanone	U	539	ug/kg	180	539
108-10-1	4-Methyl-2-pentanone	U	539	ug/kg	180	539
67-64-1	Acetone	U	539	ug/kg	180	539
71-43-2	Benzene	U	108	ug/kg	35.9	108
75-15-0	Carbon disulfide	U	539	ug/kg	180	539
56-23-5	Carbon tetrachloride	U	108	ug/kg	35.9	108
108-90-7	Chlorobenzene	U	108	ug/kg	35.9	108
75-00-3	Chloroethane	U	108	ug/kg	35.9	108
67-66-3	Chloroform	U	108	ug/kg	35.9	108
74-87-3	Chloromethane	U	108	ug/kg	35.9	108
100-41-4	Ethylbenzene	U	108	ug/kg	35.9	108
75-09-2	Methylene chloride	U	539	ug/kg	180	539
100-42-5	Styrene	U	108	ug/kg	35.9	108
127-18-4	Tetrachloroethylene	J	46.4	ug/kg	35.9	108
108-88-3	Toluene	U	108	ug/kg	35.9	108
79-01-6	Trichloroethylene	U	108	ug/kg	35.9	108
76-13-1	Trichlorotrifluoroethane	U	539	ug/kg	180	539
108-05-4	Vinyl acetate	U	539	ug/kg	180	539
75-01-4	Vinyl chloride	U	108	ug/kg	35.9	108
1330-20-7	Xylenes (total)	U	324	ug/kg	108	324
156-59-2	cis-1,2-Dichloroethylene	U	108	ug/kg	35.9	108
156-60-5	trans-1,2-Dichloroethylene	U	108	ug/kg	35.9	108

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 13:50**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718020**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**6.2**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2ESOL03**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**1**
Run Date:	**10/03/2017 21:07**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 14:47**	**Aliquot:**	**5 g**	**Final Volume:**	**5 mL**
Data File:	**100317V9\9M225.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	1.07	ug/kg	0.355	1.07
79-34-5	1,1,2,2-Tetrachloroethane	U	1.07	ug/kg	0.355	1.07
79-00-5	1,1,2-Trichloroethane	U	1.07	ug/kg	0.355	1.07
75-34-3	1,1-Dichloroethane	U	1.07	ug/kg	0.355	1.07
75-35-4	1,1-Dichloroethylene	U	1.07	ug/kg	0.355	1.07
107-06-2	1,2-Dichloroethane	U	1.07	ug/kg	0.355	1.07
78-93-3	2-Butanone	U	5.33	ug/kg	1.78	5.33
591-78-6	2-Hexanone	U	5.33	ug/kg	1.78	5.33
108-10-1	4-Methyl-2-pentanone	U	5.33	ug/kg	1.78	5.33
67-64-1	Acetone	U	5.33	ug/kg	1.78	5.33
71-43-2	Benzene	U	1.07	ug/kg	0.355	1.07
75-15-0	Carbon disulfide	U	5.33	ug/kg	1.78	5.33
56-23-5	Carbon tetrachloride	U	1.07	ug/kg	0.355	1.07
108-90-7	Chlorobenzene	U	1.07	ug/kg	0.355	1.07
75-00-3	Chloroethane	U	1.07	ug/kg	0.355	1.07
67-66-3	Chloroform	U	1.07	ug/kg	0.355	1.07
74-87-3	Chloromethane	U	1.07	ug/kg	0.355	1.07
100-41-4	Ethylbenzene	U	1.07	ug/kg	0.355	1.07
75-09-2	Methylene chloride		5.55	ug/kg	1.78	5.33
100-42-5	Styrene	U	1.07	ug/kg	0.355	1.07
127-18-4	Tetrachloroethylene	U	1.07	ug/kg	0.355	1.07
108-88-3	Toluene	J	0.543	ug/kg	0.355	1.07
79-01-6	Trichloroethylene	U	1.07	ug/kg	0.355	1.07
76-13-1	Trichlorotrifluoroethane	U	5.33	ug/kg	1.78	5.33
108-05-4	Vinyl acetate	U	5.33	ug/kg	1.78	5.33
75-01-4	Vinyl chloride	U	1.07	ug/kg	0.355	1.07
1330-20-7	Xylenes (total)	U	3.20	ug/kg	1.07	3.20
156-59-2	cis-1,2-Dichloroethylene	U	1.07	ug/kg	0.355	1.07
156-60-5	trans-1,2-Dichloroethylene	U	1.07	ug/kg	0.355	1.07

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 13:50**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718020**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**6.2**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2ESOL03REDL**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**1705693**	**Inst:**	**VOA9.I**	**Dilution:**	**50**
Run Date:	**10/04/2017 02:36**	**Analyst:**	**RXY1**	**Purge Vol:**	**5 mL**
Prep Date:	**10/03/2017 14:52**	**Aliquot:**	**5.1 g**	**Final Volume:**	**10 mL**
Data File:	**100317V9\9M237.D**	**Column:**	**DB-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-55-6	1,1,1-Trichloroethane	U	104	ug/kg	34.8	104
79-34-5	1,1,2,2-Tetrachloroethane	U	104	ug/kg	34.8	104
79-00-5	1,1,2-Trichloroethane	U	104	ug/kg	34.8	104
75-34-3	1,1-Dichloroethane	U	104	ug/kg	34.8	104
75-35-4	1,1-Dichloroethylene	U	104	ug/kg	34.8	104
107-06-2	1,2-Dichloroethane	U	104	ug/kg	34.8	104
78-93-3	2-Butanone	U	522	ug/kg	174	522
591-78-6	2-Hexanone	U	522	ug/kg	174	522
108-10-1	4-Methyl-2-pentanone	U	522	ug/kg	174	522
67-64-1	Acetone	U	522	ug/kg	174	522
71-43-2	Benzene	U	104	ug/kg	34.8	104
75-15-0	Carbon disulfide	U	522	ug/kg	174	522
56-23-5	Carbon tetrachloride	U	104	ug/kg	34.8	104
108-90-7	Chlorobenzene	U	104	ug/kg	34.8	104
75-00-3	Chloroethane	U	104	ug/kg	34.8	104
67-66-3	Chloroform	U	104	ug/kg	34.8	104
74-87-3	Chloromethane	U	104	ug/kg	34.8	104
100-41-4	Ethylbenzene	U	104	ug/kg	34.8	104
75-09-2	Methylene chloride	U	522	ug/kg	174	522
100-42-5	Styrene	U	104	ug/kg	34.8	104
127-18-4	Tetrachloroethylene	U	104	ug/kg	34.8	104
108-88-3	Toluene	U	104	ug/kg	34.8	104
79-01-6	Trichloroethylene	U	104	ug/kg	34.8	104
76-13-1	Trichlorotrifluoroethane	U	522	ug/kg	174	522
108-05-4	Vinyl acetate	U	522	ug/kg	174	522
75-01-4	Vinyl chloride	U	104	ug/kg	34.8	104
1330-20-7	Xylenes (total)	U	313	ug/kg	104	313
156-59-2	cis-1,2-Dichloroethylene	U	104	ug/kg	34.8	104
156-60-5	trans-1,2-Dichloroethylene	U	104	ug/kg	34.8	104

SEMI-VOLATILE ORGANIC COMPOUNDS

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Qualifier Definition Report
for

URSC013 URS Energy & Construction (2012-SC-SPRU-29463-171)

Client SDG: 433718 GEL Work Order: 433718

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria
** Analyte is a surrogate compound
J Value is estimated
U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

DL Indicates that sample is diluted.
RA Indicates that sample is re-analyzed without re-extraction.
RE Indicates that sample is re-extracted.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: Barbara Bailey **Name: Barbara Bailey**

Date: 10 OCT 2017 **Title: Data Validator**

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 13:54**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718018**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**6**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2ESOL01**	**Method:**	**SW846 3541/8270C**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**1707073**	**Inst:**	**MSDA.I**	**Dilution:**	**1**
Run Date:	**10/06/2017 17:56**	**Analyst:**	**JMB3**	**Inj. Vol:**	**1 uL**
Prep Date:	**10/06/2017 09:27**	**Aliquot:**	**30.09 g**	**Final Volume:**	**1 mL**
Data File:	**100617.s\sAj0618.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
90-12-0	1-Methylnaphthalene	U	35.4	ug/kg	10.6	35.4
91-58-7	2-Chloronaphthalene	U	35.4	ug/kg	10.6	35.4
91-57-6	2-Methylnaphthalene	U	35.4	ug/kg	10.6	35.4
83-32-9	Acenaphthene	U	35.4	ug/kg	10.6	35.4
120-12-7	Anthracene	U	35.4	ug/kg	10.6	35.4
56-55-3	Benzo(a)anthracene	U	35.4	ug/kg	10.6	35.4
50-32-8	Benzo(a)pyrene	U	35.4	ug/kg	10.6	35.4
205-99-2	Benzo(b)fluoranthene	U	35.4	ug/kg	10.6	35.4
191-24-2	Benzo(ghi)perylene	U	35.4	ug/kg	10.6	35.4
207-08-9	Benzo(k)fluoranthene	U	35.4	ug/kg	10.6	35.4
86-74-8	Carbazole	U	35.4	ug/kg	10.6	35.4
218-01-9	Chrysene	U	35.4	ug/kg	10.6	35.4
53-70-3	Dibenzo(a,h)anthracene	U	35.4	ug/kg	10.6	35.4
206-44-0	Fluoranthene	U	35.4	ug/kg	10.6	35.4
86-73-7	Fluorene	U	35.4	ug/kg	10.6	35.4
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.4	ug/kg	10.6	35.4
80-62-6	Methyl methacrylate	U	354	ug/kg	106	354
91-20-3	Naphthalene	U	35.4	ug/kg	10.6	35.4
85-01-8	Phenanthrene	U	35.4	ug/kg	10.6	35.4
129-00-0	Pyrene	U	35.4	ug/kg	10.6	35.4
117-81-7	bis(2-Ethylhexyl)phthalate	U	354	ug/kg	106	354

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 13:45**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718019**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**7.3**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2ESOL02**	**Method:**	**SW846 3541/8270C**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**1707073**	**Inst:**	**MSDA.I**	**Dilution:**	**1**
Run Date:	**10/09/2017 17:34**	**Analyst:**	**JMB3**	**Inj. Vol:**	**1 uL**
Prep Date:	**10/06/2017 09:27**	**Aliquot:**	**30.26 g**	**Final Volume:**	**1 mL**
Data File:	**100917a.s\sAj0919.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
90-12-0	1-Methylnaphthalene	U	35.7	ug/kg	10.7	35.7
91-58-7	2-Chloronaphthalene	U	35.7	ug/kg	10.7	35.7
91-57-6	2-Methylnaphthalene	U	35.7	ug/kg	10.7	35.7
83-32-9	Acenaphthene	U	35.7	ug/kg	10.7	35.7
120-12-7	Anthracene	U	35.7	ug/kg	10.7	35.7
56-55-3	Benzo(a)anthracene	U	35.7	ug/kg	10.7	35.7
50-32-8	Benzo(a)pyrene	U	35.7	ug/kg	10.7	35.7
205-99-2	Benzo(b)fluoranthene	U	35.7	ug/kg	10.7	35.7
191-24-2	Benzo(ghi)perylene	U	35.7	ug/kg	10.7	35.7
207-08-9	Benzo(k)fluoranthene	U	35.7	ug/kg	10.7	35.7
86-74-8	Carbazole	U	35.7	ug/kg	10.7	35.7
218-01-9	Chrysene	U	35.7	ug/kg	10.7	35.7
53-70-3	Dibenzo(a,h)anthracene	U	35.7	ug/kg	10.7	35.7
206-44-0	Fluoranthene	U	35.7	ug/kg	10.7	35.7
86-73-7	Fluorene	U	35.7	ug/kg	10.7	35.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.7	ug/kg	10.7	35.7
80-62-6	Methyl methacrylate	U	357	ug/kg	107	357
91-20-3	Naphthalene	U	35.7	ug/kg	10.7	35.7
85-01-8	Phenanthrene	U	35.7	ug/kg	10.7	35.7
129-00-0	Pyrene	U	35.7	ug/kg	10.7	35.7
117-81-7	bis(2-Ethylhexyl)phthalate	U	357	ug/kg	107	357

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**433718**	**Date Collected:**	**09/25/2017 13:50**	**Matrix:**	**SOIL**
Lab Sample ID:	**433718020**	**Date Received:**	**09/27/2017 09:15**	**%Moisture:**	**6.2**
		Client:	**URSC013**	**Project:**	**URSC00114**
Client ID:	**G2ESOL03**	**Method:**	**SW846 3541/8270C**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**1707073**	**Inst:**	**MSDA.I**	**Dilution:**	**1**
Run Date:	**10/09/2017 18:00**	**Analyst:**	**JMB3**	**Inj. Vol:**	**1 uL**
Prep Date:	**10/06/2017 09:27**	**Aliquot:**	**30.25 g**	**Final Volume:**	**1 mL**
Data File:	**100917a.s\sAj0920.D**	**Column:**	**DB-5ms**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
90-12-0	1-Methylnaphthalene	U	35.2	ug/kg	10.6	35.2
91-58-7	2-Chloronaphthalene	U	35.2	ug/kg	10.6	35.2
91-57-6	2-Methylnaphthalene	U	35.2	ug/kg	10.6	35.2
83-32-9	Acenaphthene	U	35.2	ug/kg	10.6	35.2
120-12-7	Anthracene	U	35.2	ug/kg	10.6	35.2
56-55-3	Benzo(a)anthracene	U	35.2	ug/kg	10.6	35.2
50-32-8	Benzo(a)pyrene	U	35.2	ug/kg	10.6	35.2
205-99-2	Benzo(b)fluoranthene	U	35.2	ug/kg	10.6	35.2
191-24-2	Benzo(ghi)perylene	U	35.2	ug/kg	10.6	35.2
207-08-9	Benzo(k)fluoranthene	U	35.2	ug/kg	10.6	35.2
86-74-8	Carbazole	U	35.2	ug/kg	10.6	35.2
218-01-9	Chrysene	U	35.2	ug/kg	10.6	35.2
53-70-3	Dibenzo(a,h)anthracene	U	35.2	ug/kg	10.6	35.2
206-44-0	Fluoranthene	U	35.2	ug/kg	10.6	35.2
86-73-7	Fluorene	U	35.2	ug/kg	10.6	35.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.2	ug/kg	10.6	35.2
80-62-6	Methyl methacrylate	U	352	ug/kg	106	352
91-20-3	Naphthalene	U	35.2	ug/kg	10.6	35.2
85-01-8	Phenanthrene	U	35.2	ug/kg	10.6	35.2
129-00-0	Pyrene	U	35.2	ug/kg	10.6	35.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	352	ug/kg	106	352

Adirondack Environmental Services, Inc CASE NARRATIVE

CLIENT:	URS Energy & Construction, Inc.	**Date:**	*27-Oct-17*
Project:	SPRU - KAPL		
Lab Order:	171026086		

The sampling was performed in accordance with the AES field sampling procedures and/or the client specified sampling procedures. Sample containers were supplied by Adirondack Environmental Services.

Qualifiers:

ND - Not Detected at reporting limit
J - Analyte detected below quantitation limit
B - Analyte detected in Blank
X - Exceeds maximum contamination limit
H - Hold time exceeded
N - Matrix Spike below acceptable limits
N+ - Matrix Spike is above acceptable limits
C - Details are above in Case Narrative
S - LCS Spike recovery is below acceptable limits
S+ - LCS Spike recovery is above acceptable limits
Z - Duplication outside acceptable limits
T - Tentatively Identified Compound-Estimated
E -Above quantitation range-Estimated

Note : All Results are reported as wet weight unless noted

The results relate only to the items tested. Information supplied by the client is assumed to be correct.

LOCATION G2SOL01
SVOC ANALYSIS

Adirondack Environmental Services, Inc

Date: *27-Oct-17*

CLIENT: URS Energy & Construction, Inc.
Work Order: **171026086**
Reference: SPRU - KAPL /
PO#: 2011-SC-SPRU-2946

Client Sample ID: SOL 1
Collection Date: 10/26/2017
Lab Sample ID: 171026086-001
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE ORGANICS - EPA 8270D						Analyst: **MT**
(Prep: SW3545A - 10/26/2017)						
Phenol	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Bis(2-chloroethyl)ether	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
2-Chlorophenol	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
1,3-Dichlorobenzene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
1,4-Dichlorobenzene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
1,2-Dichlorobenzene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
2-Methylphenol	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Bis(2-chloroisopropyl)ether	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
4-Methylphenol	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
N-Nitrosodi-n-propylamine	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Hexachloroethane	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Nitrobenzene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Isophorone	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
2-Nitrophenol	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
2,4-Dimethylphenol	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Bis(2-chloroethoxy)methane	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
2,4-Dichlorophenol	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
1,2,4-Trichlorobenzene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Naphthalene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
4-Chloroaniline	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Hexachlorobutadiene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
4-Chloro-3-methylphenol	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
2-Methylnaphthalene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Hexachlorocyclopentadiene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
2,4,6-Trichlorophenol	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
2,4,5-Trichlorophenol	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
2-Chloronaphthalene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
2-Nitroaniline	**ND**	1700		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Dimethyl phthalate	**460**	340	B	µg/Kg-dry	1	10/27/2017 8:57:00 AM
Acenaphthylene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
2,6-Dinitrotoluene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
3-Nitroaniline	**ND**	1700		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Acenaphthene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
2,4-Dinitrophenol	**ND**	1700		µg/Kg-dry	1	10/27/2017 8:57:00 AM
4-Nitrophenol	**ND**	1700		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Dibenzofuran	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
2,4-Dinitrotoluene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Diethyl phthalate	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
4-Chlorophenyl phenyl ether	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Fluorene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM

LOCATION G2SOL01
SVOC ANALYSIS

Adirondack Environmental Services, Inc

Date: *27-Oct-17*

CLIENT: URS Energy & Construction, Inc.
Work Order: **171026086**
Reference: SPRU - KAPL /
PO#: 2011-SC-SPRU-2946

Client Sample ID: SOL 1
Collection Date: 10/26/2017
Lab Sample ID: 171026086-001
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE ORGANICS - EPA 8270D						Analyst: **MT**
(Prep: SW3545A - 10/26/2017)						
4-Nitroaniline	**ND**	1700		µg/Kg-dry	1	10/27/2017 8:57:00 AM
4,6-Dinitro-2-methylphenol	**ND**	1700		µg/Kg-dry	1	10/27/2017 8:57:00 AM
N-Nitrosodiphenylamine	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
4-Bromophenyl phenyl ether	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Hexachlorobenzene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Pentachlorophenol	**ND**	1700		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Phenanthrene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Anthracene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Carbazole	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Di-n-butyl phthalate	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Fluoranthene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Pyrene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Butyl benzyl phthalate	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
3,3´-Dichlorobenzidine	**ND**	690		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Benz(a)anthracene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Chrysene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Bis(2-ethylhexyl)phthalate	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Di-n-octyl phthalate	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Benzo(b)fluoranthene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Benzo(k)fluoranthene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Benzo(a)pyrene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Indeno(1,2,3-cd)pyrene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Dibenz(a,h)anthracene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Benzo(g,h,i)perylene	**ND**	340		µg/Kg-dry	1	10/27/2017 8:57:00 AM
Surr: 2,4,6-Tribromophenol	**52.6**	26.5-126		%REC	1	10/27/2017 8:57:00 AM
Surr: 2-Fluorobiphenyl	**106**	52.1-124		%REC	1	10/27/2017 8:57:00 AM
Surr: 2-Fluorophenol	**37.1**	30.3-104		%REC	1	10/27/2017 8:57:00 AM
Surr: 4-Terphenyl-d14	**88.9**	51.1-134		%REC	1	10/27/2017 8:57:00 AM
Surr: Nitrobenzene-d5	**83.2**	41.2-120		%REC	1	10/27/2017 8:57:00 AM
Surr: Phenol-d5	**48.8**	27-122		%REC	1	10/27/2017 8:57:00 AM
MOISTURE CONTENT - ASTM D2216						Analyst: **SMD**
Percent Moisture	**5.3**	0.1		wt%	1	10/26/2017

LOCATION G2SOL06
SVOC ANALYSIS

Adirondack Environmental Services, Inc

Date: *27-Oct-17*

CLIENT: URS Energy & Construction, Inc.
Work Order: **171026086**
Reference: SPRU - KAPL /
PO#: 2011-SC-SPRU-2946

Client Sample ID: SOL 6
Collection Date: 10/26/2017
Lab Sample ID: 171026086-002
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE ORGANICS - EPA 8270D						Analyst: **MT**
(Prep: SW3545A - 10/26/2017)						
Phenol	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Bis(2-chloroethyl)ether	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
2-Chlorophenol	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
1,3-Dichlorobenzene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
1,4-Dichlorobenzene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
1,2-Dichlorobenzene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
2-Methylphenol	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Bis(2-chloroisopropyl)ether	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
4-Methylphenol	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
N-Nitrosodi-n-propylamine	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Hexachloroethane	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Nitrobenzene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Isophorone	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
2-Nitrophenol	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
2,4-Dimethylphenol	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Bis(2-chloroethoxy)methane	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
2,4-Dichlorophenol	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
1,2,4-Trichlorobenzene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Naphthalene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
4-Chloroaniline	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Hexachlorobutadiene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
4-Chloro-3-methylphenol	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
2-Methylnaphthalene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Hexachlorocyclopentadiene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
2,4,6-Trichlorophenol	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
2,4,5-Trichlorophenol	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
2-Chloronaphthalene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
2-Nitroaniline	**ND**	1800		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Dimethyl phthalate	**490**	350	B	µg/Kg-dry	1	10/27/2017 9:28:00 AM
Acenaphthylene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
2,6-Dinitrotoluene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
3-Nitroaniline	**ND**	1800		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Acenaphthene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
2,4-Dinitrophenol	**ND**	1800		µg/Kg-dry	1	10/27/2017 9:28:00 AM
4-Nitrophenol	**ND**	1800		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Dibenzofuran	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
2,4-Dinitrotoluene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Diethyl phthalate	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
4-Chlorophenyl phenyl ether	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Fluorene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM

LOCATION G2SOL06
SVOC ANALYSIS

Adirondack Environmental Services, Inc

Date: *27-Oct-17*

CLIENT: URS Energy & Construction, Inc.
Work Order: **171026086**
Reference: SPRU - KAPL /
PO#: 2011-SC-SPRU-2946

Client Sample ID: SOL 6
Collection Date: 10/26/2017
Lab Sample ID: 171026086-002
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE ORGANICS - EPA 8270D						Analyst: **MT**
(Prep: SW3545A - 10/26/2017)						
4-Nitroaniline	**ND**	1800		µg/Kg-dry	1	10/27/2017 9:28:00 AM
4,6-Dinitro-2-methylphenol	**ND**	1800		µg/Kg-dry	1	10/27/2017 9:28:00 AM
N-Nitrosodiphenylamine	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
4-Bromophenyl phenyl ether	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Hexachlorobenzene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Pentachlorophenol	**ND**	1800		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Phenanthrene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Anthracene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Carbazole	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Di-n-butyl phthalate	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Fluoranthene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Pyrene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Butyl benzyl phthalate	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
3,3´-Dichlorobenzidine	**ND**	700		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Benz(a)anthracene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Chrysene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Bis(2-ethylhexyl)phthalate	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Di-n-octyl phthalate	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Benzo(b)fluoranthene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Benzo(k)fluoranthene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Benzo(a)pyrene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Indeno(1,2,3-cd)pyrene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Dibenz(a,h)anthracene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Benzo(g,h,i)perylene	**ND**	350		µg/Kg-dry	1	10/27/2017 9:28:00 AM
Surr: 2,4,6-Tribromophenol	**58.9**	26.5-126		%REC	1	10/27/2017 9:28:00 AM
Surr: 2-Fluorobiphenyl	**110**	52.1-124		%REC	1	10/27/2017 9:28:00 AM
Surr: 2-Fluorophenol	**37.7**	30.3-104		%REC	1	10/27/2017 9:28:00 AM
Surr: 4-Terphenyl-d14	**100**	51.1-134		%REC	1	10/27/2017 9:28:00 AM
Surr: Nitrobenzene-d5	**88.6**	41.2-120		%REC	1	10/27/2017 9:28:00 AM
Surr: Phenol-d5	**48.4**	27-122		%REC	1	10/27/2017 9:28:00 AM
MOISTURE CONTENT - ASTM D2216						Analyst: **SMD**
Percent Moisture	**6.7**	0.1		wt%	1	10/26/2017

LOCATION G2SOL07
SVOC ANALYSIS

Adirondack Environmental Services, Inc

Date: *27-Oct-17*

CLIENT: URS Energy & Construction, Inc.
Work Order: **171026086**
Reference: SPRU - KAPL /
PO#: 2011-SC-SPRU-2946

Client Sample ID: SOL 7
Collection Date: 10/26/2017
Lab Sample ID: 171026086-003
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE ORGANICS - EPA 8270D						Analyst: **MT**
(Prep: SW3545A - 10/26/2017)						
Phenol	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Bis(2-chloroethyl)ether	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
2-Chlorophenol	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
1,3-Dichlorobenzene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
1,4-Dichlorobenzene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
1,2-Dichlorobenzene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
2-Methylphenol	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Bis(2-chloroisopropyl)ether	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
4-Methylphenol	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
N-Nitrosodi-n-propylamine	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Hexachloroethane	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Nitrobenzene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Isophorone	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
2-Nitrophenol	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
2,4-Dimethylphenol	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Bis(2-chloroethoxy)methane	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
2,4-Dichlorophenol	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
1,2,4-Trichlorobenzene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Naphthalene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
4-Chloroaniline	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Hexachlorobutadiene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
4-Chloro-3-methylphenol	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
2-Methylnaphthalene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Hexachlorocyclopentadiene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
2,4,6-Trichlorophenol	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
2,4,5-Trichlorophenol	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
2-Chloronaphthalene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
2-Nitroaniline	**ND**	1800		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Dimethyl phthalate	**520**	360	B	µg/Kg-dry	1	10/27/2017 9:59:00 AM
Acenaphthylene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
2,6-Dinitrotoluene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
3-Nitroaniline	**ND**	1800		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Acenaphthene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
2,4-Dinitrophenol	**ND**	1800		µg/Kg-dry	1	10/27/2017 9:59:00 AM
4-Nitrophenol	**ND**	1800		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Dibenzofuran	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
2,4-Dinitrotoluene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Diethyl phthalate	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
4-Chlorophenyl phenyl ether	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Fluorene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM

LOCATION G2SOL07
SVOC ANALYSIS

Adirondack Environmental Services, Inc

Date: *27-Oct-17*

CLIENT: URS Energy & Construction, Inc.
Work Order: **171026086**
Reference: SPRU - KAPL /
PO#: 2011-SC-SPRU-2946

Client Sample ID: SOL 7
Collection Date: 10/26/2017
Lab Sample ID: 171026086-003
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE ORGANICS - EPA 8270D						Analyst: **MT**
(Prep: SW3545A - 10/26/2017)						
4-Nitroaniline	**ND**	1800		µg/Kg-dry	1	10/27/2017 9:59:00 AM
4,6-Dinitro-2-methylphenol	**ND**	1800		µg/Kg-dry	1	10/27/2017 9:59:00 AM
N-Nitrosodiphenylamine	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
4-Bromophenyl phenyl ether	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Hexachlorobenzene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Pentachlorophenol	**ND**	1800		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Phenanthrene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Anthracene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Carbazole	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Di-n-butyl phthalate	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Fluoranthene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Pyrene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Butyl benzyl phthalate	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
3,3´-Dichlorobenzidine	**ND**	710		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Benz(a)anthracene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Chrysene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Bis(2-ethylhexyl)phthalate	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Di-n-octyl phthalate	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Benzo(b)fluoranthene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Benzo(k)fluoranthene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Benzo(a)pyrene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Indeno(1,2,3-cd)pyrene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Dibenz(a,h)anthracene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Benzo(g,h,i)perylene	**ND**	360		µg/Kg-dry	1	10/27/2017 9:59:00 AM
Surr: 2,4,6-Tribromophenol	**48.5**	26.5-126		%REC	1	10/27/2017 9:59:00 AM
Surr: 2-Fluorobiphenyl	**108**	52.1-124		%REC	1	10/27/2017 9:59:00 AM
Surr: 2-Fluorophenol	**41.4**	30.3-104		%REC	1	10/27/2017 9:59:00 AM
Surr: 4-Terphenyl-d14	**105**	51.1-134		%REC	1	10/27/2017 9:59:00 AM
Surr: Nitrobenzene-d5	**89.0**	41.2-120		%REC	1	10/27/2017 9:59:00 AM
Surr: Phenol-d5	**51.3**	27-122		%REC	1	10/27/2017 9:59:00 AM
MOISTURE CONTENT - ASTM D2216						Analyst: **SMD**
Percent Moisture	**7.4**	0.1	Z	wt%	1	10/26/2017

METALS

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Qualifier Definition Report
for

URSC013 URS Energy & Construction (2012-SC-SPRU-29463-171)

Client SDG: 433718 GEL Work Order: 433718

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria
B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
J Value is estimated
N Metals--The Matrix spike sample recovery is not within specified control limits
Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
Q Quality Issue: temp on receipt was 22C Sample was received out of temperature specification > 12C.
U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: Nik-Cole A. Elmore **Name: Nik-Cole Elmore**

Date: 11 OCT 2017 **Title: Data Validator**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 433718 **METHOD TYPE:** SW846

SAMPLE ID: 433718018 **CLIENT ID:** G2ESOL01

CONTRACT: URSC00114

MATRIX: Soil **DATE RECEIVED** 27−SEP−17 **LEVEL:** Low **%SOLIDS:** 94

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−36−0	Antimony	0.342	mg/kg	U		P	0.342	1	OPTIMA3	092817A−1
7440−38−2	Arsenic	7.81	mg/kg		N	MS	0.349	2	ICPMS11	171010−3
7440−38−2	Arsenic	8.35	mg/kg		N	P	0.518	1	OPTIMA3	092817A−1
7440−39−3	Barium	59.9	mg/kg			P	0.104	1	OPTIMA3	092817A−1
7440−43−9	Cadmium	0.104	mg/kg	U		P	0.104	1	OPTIMA3	092817A−1
7440−47−3	Chromium	13	mg/kg			P	0.155	1	OPTIMA3	092817A−1
7440−48−4	Cobalt	10.1	mg/kg			P	0.155	1	OPTIMA3	092817A−1
7439−89−6	Iron	24200	mg/kg			P	8.28	1	OPTIMA3	092817A−1
7439−92−1	Lead	2.53	mg/kg			P	0.342	1	OPTIMA3	092917A−2
7439−96−5	Manganese	430	mg/kg			P	0.207	1	OPTIMA3	092817A−1
7439−97−6	Mercury	0.0217	mg/kg			AV	0.00389	1	HG3	100417S1−4
7440−02−0	Nickel	23.4	mg/kg			P	0.155	1	OPTIMA3	092817A−1
7782−49−2	Selenium	1.72	mg/kg	B	N	P	0.518	1	OPTIMA3	092817A−1
7782−49−2	Selenium	1.66	mg/kg		N	MS	0.372	2	ICPMS11	171010−3
7440−22−4	Silver	0.136	mg/kg	B		P	0.104	1	OPTIMA3	092817A−1
7440−28−0	Thallium	0.518	mg/kg	U	N	P	0.518	1	OPTIMA3	092817A−1
7440−28−0	Thallium	0.145	mg/kg	U	N	MS	0.145	2	ICPMS11	171010−3
7440−66−6	Zinc	55.6	mg/kg		EN	P	0.414	1	OPTIMA3	092917A−2

***Analytical Methods:**

P	**SW846 3050B/6010C**
MS	**SW846 3050B/6020**
AV	**SW846 7471A**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 433718 **METHOD TYPE:** SW846

SAMPLE ID: 433718019 **CLIENT ID:** G2ESOL02

CONTRACT: URSC00114

MATRIX: Soil **DATE RECEIVED** 27−SEP−17 **LEVEL:** Low **%SOLIDS:** 92.7

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−36−0	Antimony	0.346	mg/kg	U		P	0.346	1	OPTIMA3	092817A−1
7440−38−2	Arsenic	9.47	mg/kg		N	P	0.525	1	OPTIMA3	092817A−1
7440−38−2	Arsenic	7.05	mg/kg		N	MS	0.34	2	ICPMS11	171010−3
7440−39−3	Barium	56	mg/kg			P	0.105	1	OPTIMA3	092817A−1
7440−43−9	Cadmium	0.117	mg/kg	B		P	0.105	1	OPTIMA3	092817A−1
7440−47−3	Chromium	13	mg/kg			P	0.157	1	OPTIMA3	092817A−1
7440−48−4	Cobalt	13.5	mg/kg			P	0.157	1	OPTIMA3	092817A−1
7439−89−6	Iron	24600	mg/kg			P	8.4	1	OPTIMA3	092817A−1
7439−92−1	Lead	3.76	mg/kg			P	0.346	1	OPTIMA3	092917A−2
7439−96−5	Manganese	538	mg/kg			P	0.21	1	OPTIMA3	092817A−1
7439−97−6	Mercury	0.0661	mg/kg			AV	0.00392	1	HG3	100417S1−4
7440−02−0	Nickel	26	mg/kg			P	0.157	1	OPTIMA3	092817A−1
7782−49−2	Selenium	2.84	mg/kg	B	N	P	0.525	1	OPTIMA3	092817A−1
7782−49−2	Selenium	1.61	mg/kg		N	MS	0.362	2	ICPMS11	171010−3
7440−22−4	Silver	0.15	mg/kg	B		P	0.105	1	OPTIMA3	092817A−1
7440−28−0	Thallium	0.525	mg/kg	U	N	P	0.525	1	OPTIMA3	092817A−1
7440−28−0	Thallium	0.141	mg/kg	U	N	MS	0.141	2	ICPMS11	171010−3
7440−66−6	Zinc	338	mg/kg		EN	P	0.42	1	OPTIMA3	092917A−2

***Analytical Methods:**

P	**SW846 3050B/6010C**
MS	**SW846 3050B/6020**
AV	**SW846 7471A**

METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 433718 **METHOD TYPE:** SW846

SAMPLE ID: 433718020 **CLIENT ID:** G2ESOL03

CONTRACT: URSC00114

MATRIX: Soil **DATE RECEIVED** 27−SEP−17 **LEVEL:** Low **%SOLIDS:** 93.8

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−36−0	Antimony	0.343	mg/kg	U		P	0.343	1	OPTIMA3	092817A−1
7440−38−2	Arsenic	8.42	mg/kg		N	P	0.52	1	OPTIMA3	092817A−1
7440−38−2	Arsenic	6.9	mg/kg		N	MS	0.347	2	ICPMS11	171010−3
7440−39−3	Barium	50.1	mg/kg			P	0.104	1	OPTIMA3	092817A−1
7440−43−9	Cadmium	0.104	mg/kg	U		P	0.104	1	OPTIMA3	092817A−1
7440−47−3	Chromium	12.9	mg/kg			P	0.156	1	OPTIMA3	092817A−1
7440−48−4	Cobalt	11.2	mg/kg			P	0.156	1	OPTIMA3	092817A−1
7439−89−6	Iron	24400	mg/kg			P	8.33	1	OPTIMA3	092817A−1
7439−92−1	Lead	4.19	mg/kg			P	0.343	1	OPTIMA3	092917A−2
7439−96−5	Manganese	577	mg/kg			P	0.208	1	OPTIMA3	092817A−1
7439−97−6	Mercury	0.028	mg/kg			AV	0.00385	1	HG3	100417S1−4
7440−02−0	Nickel	25.3	mg/kg			P	0.156	1	OPTIMA3	092817A−1
7782−49−2	Selenium	2.53	mg/kg	B	N	P	0.52	1	OPTIMA3	092817A−1
7782−49−2	Selenium	1.48	mg/kg		N	MS	0.37	2	ICPMS11	171010−3
7440−22−4	Silver	0.104	mg/kg	U		P	0.104	1	OPTIMA3	092817A−1
7440−28−0	Thallium	0.52	mg/kg	U	N	P	0.52	1	OPTIMA3	092817A−1
7440−28−0	Thallium	0.144	mg/kg	U	N	MS	0.144	2	ICPMS11	171010−3
7440−66−6	Zinc	49.4	mg/kg		EN	P	0.416	1	OPTIMA3	092917A−2

***Analytical Methods:**

P	**SW846 3050B/6010C**
MS	**SW846 3050B/6020**
AV	**SW846 7471A**