GEOTECHNICAL CONSULTANTS INC.

GCI PROJECT #17-E-21430

Phase II Environmental Assessment Services Report

Mayfield Place & Ferndale Place Property
Bexley, Franklin County, Ohio

Prepared for:
City of Bexley

December 27, 2017

GEOTECHNICAL CONSULTANTS INC.

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Environmental Assessment Services Report

December 27, 2017

Mr. Marc Fishel
City Attorney
City of Bexley
2242 East Main Street
Bexley, OH 43209

Reference: Mayfield Place & Ferndale Place Property
Bexley, Franklin County, Ohio
GCI Project No. 17-E-21430

Dear Mr. Fishel:

1.0 INTRODUCTION

As you authorized, Geotechnical Consultants, Inc. (GCI) performed Phase II environmental site assessment (Phase II ESA) services of the above-referenced property (the property). GCI performed the Phase II ESA activities in accordance with the City of Bexley's authorization of GCI Proposals 17E0303B and 17E0442.

The Phase II ESA activities included collecting soil and ground water samples from sixteen (16) sub-surface soil borings for laboratory analysis. The sample locations, sampling depth intervals, and chemicals of concern (COCs) for analysis were determined by the City of Bexley.

2.0 SAMPLING and ANALYSIS

The soil boring locations are shown on the attached **Figure 1**. GCI collected continuous soil sample cores in the borings at 2-foot intervals. Soil boring depths ranged from 10 feet below ground surface (bgs) to 24 feet bgs. GCI placed the sample cores into food-grade sample baggies and/or glass jars, and logged the soil lithology with respect to grain size, color, texture, moisture and odor. The attached **Test Boring Logs** recording the soil descriptions in the borings evaluated herein are attached.

The soil borings encountered fill materials ranging from approximately 3 feet to 19 feet bgs. Fill materials encountered consisted of mixtures of varying amounts of materials that included topsoil, clay, silt, sand, gravel, cinders, concrete, slag, brick, wood,

ceramics, and organics. Below the fill were natural clay-based soils overlying sand and gravel. Ground water seepage was encountered in the sand and gravel in the borings at depths ranging from 10 feet to 22 feet bgs. No bedrock was encountered in the borings.

In accordance with GCI Proposal 17E442, GCI placed a portion of each 2-foot soil sample interval collected from the borings EB-13 to EB-16 into food-grade, zip-lock plastic bags for headspace screening with a Mini-RAE Lite photoionization detector (PID). The PID detects total volatile organics and is used as a screening tool in selecting samples for laboratory analysis. The tip of the PID was placed into the sample bag and a reading was taken for approximately 10 to 15 seconds. The PID readings are shown on the attached boring logs. PID readings on soils ranged from a minimum of 0.0 parts per million (ppm) to a maximum of 0.4 ppm, which does not suggest the presence of significant volatile organic compounds concentrations in these samples.

GCI collected grab ground water samples from the open boreholes in borings EB-1 to EB-12 using a peristaltic pump and dedicated polyethylene tubing.

GCI collected soil and ground water samples into appropriate laboratory glassware and placed the samples in an ice-filled cooler for transportation to the laboratory. GCI shipped samples via overnight delivery to ESC Lab Sciences (ESC) in Mt. Juliet, Tennessee. ESC is Ohio Voluntary Action Program (VAP) Certified Laboratory number CL0069.

GCI submitted soil samples from borings EB-1 to EB-12 to the laboratory based requirements in the City of Bexley Request for Proposal (RFP) document attached to GCI Proposal 17E0303B, and a change via verbal authorization from City of Bexley Mayor Ben Kessler on December 1, 2017. Soil samples collected and analyzed from these borings included:

- Surface sample: VAP metals
- Sample at 4’ bgs: VAP metals and polynuclear aromatic hydrocarbons (PAH)
- Sample at 8’ bgs: VAP metals and PAH
- Sample at 12’ bgs: VAP metals and PAH

GCI submitted soil samples from borings EB-13 to EB-16 to the laboratory based on the scope of services presented in GCI Proposal 17E0442. Soil samples collected and analyzed from these borings included:

- Surface sample: VAP metals
- One 2-foot sample interval from 2-10’ bgs with highest PID: VAP metals and PAH

The grab ground water samples were analyzed for VAP metals and PAH.

After receiving laboratory analytical results, GCI compiled summary tables attached as **Table 1 – Soil Analytical Results** and **Table 2 – Ground Water Analytical Results**. Also attached to this report are the **Laboratory Analytical Report** and sample **Chain of Custody** documentation.

GCI collected grab ground water samples from open boreholes. Ground water monitoring wells were not included in the Phase II ESA. Grab ground water samples collected in open boreholes typically have high turbidity as a result of unavoidable entrainment of soil particles, resulting in higher concentrations of metals than may actually be present in the ground water.

Please contact our office if you have any questions or would like GCI's additional assistance with the project. Thank you very much for the opportunity to serve you on this project.

Respectfully submitted,
Geotechnical Consultants, Inc. (GCI)

Michael A. Lacher, CP
Senior Project Geologist

Bruce A. Savage, CP, CPG
Principal – Director Environmental Services

Attachments:

Figure 1 – Sample Location Map
Table 1 – Soil Laboratory Analytical Results
Table 2 – Ground Water analytical Results
Test Boring Logs
ESC Laboratory Report and Chain of Custody

cc: GCI File

LIMITATIONS AND QUALIFICATIONS

This report is an instrument of professional service prepared by GCI for the sole use of the City of Bexley and other parties that may be designated jointly by the City of Bexley and GCI. Any other party that wishes to use or rely upon this report, or that wishes to duplicate, otherwise reproduce or copy, or excerpt from, or quote this report must apply for authorization to do so. Any unauthorized use of or reliance on this report shall release GCI from any liability resulting from such use or reliance. Any unauthorized duplication, other reproduction or copying, or excerption or quotation of this report shall expose the violator to all legal remedies available to GCI.

GCI performed these Phase II ESA services in accordance with our proposal and the generally accepted practices of environmental professionals performing similar services in the same locale under similar circumstances at the time of this assessment. No statement of opinion contained in this report shall be construed to create any warranty or representation that the real Property, on which the assessment was performed, is free of pollution or complies with any or all applicable regulatory or statutory requirements; or that the Property is fit for any particular purpose. No attempt was made to evaluate the compliance of present or past owners of the Property with federal, state or local laws and regulations.

The conclusions presented in this report were based upon the services described, and not on scientific tasks or procedures beyond the scope of described services or time and budgetary constraints. Any person or entity concerning the Property shall be solely responsible for determining the adequacy of the Property for any and all uses for which that person or entity shall use the Property. Any person or entity considering the use, acquisition or other involvement or activity concerning the Property which is the subject of this report should enter into any use, occupation, acquisition or the like on sole reliance of their own judgment and on their own personal assessment of such Property and not in reliance upon any representation by GCI regarding such Property, the character, quality or value thereof. GCI shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld or not fully disclosed at the time we performed the assessment.

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ATTACHMENTS

Figure 1 – Sample Location Map

City of Bexley Property
Mayfield Place and Ferndale Place
Bexley, Franklin County, Ohio
GCI Project # 17-E-21430
Geotechnical Consultants, Inc. • 720 Greencrest Drive • Westerville • Ohio • 614-895-1400

North

Table 1 - Soil Analytical Results

City of Bexley Property
Ferndale Place and Mayfield Place
Bexley, Franklin County, Ohio
GCI Project 17-E-21430

		Lab Sample ID	L956532-01	L956532-02	L956532-03	L956532-04	L956532-05	L956532-06	L956532-07	L956532-08	L956532-09	L956532-10	L956532-11	L956532-12	L956532-13	L956532-14	L956532-15
		Sample ID	**EB-1**	**EB-2**	**EB-3**	**EB-4**	**EB-5**	**EB-6**	**EB-7**	**EB-8**	**EB-9**	**EB-10**	**EB-11**	**EB-12**	**EB-13**	**EB-14**	**EB-15**
		Sample Depth	**0'**	**0'**	**0'**	**0'**	**0'**	**0'**	**0'**	**0'**	**0'**	**0'**	**0'**	**0'**	**0'**	**0'**	**0'**
		Date Collected	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/08/2017	12/08/2017	12/08/2017	12/08/2017	12/08/2017	12/08/2017
Method	Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2540 G-2011	TOTAL SOLIDS	%	**79.2**	**78.1**	**79.9**	**93.2**	**79.5**	**79.8**	**80.9**	**78.9**	**62.5**	**81.8**	**77.9**	**86.1**	**78.3**	**82.7**	**80.8**
	Ohio VAP Metals																
6010B	ALUMINUM	mg/kg	**11700**	**12800**	**11800**	**1380**	**11900**	**10200**	**10300**	**11000**	**22600**	**13800**	**14800**	**12200**	**9890**	**12800**	**13400**
6010B	ANTIMONY	mg/kg	<2.53	<2.56	<2.5	<2.15	<2.52	<2.51	<2.47	<2.53	<3.2	<2.45	<2.57	<2.32	<2.55	<2.42	<2.47
6010B	ARSENIC	mg/kg	**17.2**	**17.9**	**28.2**	**3.8**	**25.8**	**9.9**	**14.1**	**25**	**26.3**	**17.3**	**17.6**	**15.2**	**49.7**	**30.9**	**24.2**
6010B	BARIUM	mg/kg	**154**	**227**	**311**	**22.7**	**424**	**120**	**173**	**336**	**364**	**203**	**278**	**215**	**305**	**191**	**284**
6010B	BERYLLIUM	mg/kg	**0.923**	**1.32**	**1.24**	<0.215	**1.86**	**0.573**	**0.883**	**2.14**	**5.04**	**1.03**	**1.18**	**0.856**	**1.99**	**1.03**	**1.63**
6010B	CADMIUM	mg/kg	**1.01**	**1.86**	**2.48**	<0.537	**2.41**	**0.915**	**1.06**	**1.79**	**0.962**	<0.611	**1.14**	**1.24**	<0.639	**1.07**	**1.53**
6010B	CHROMIUM	mg/kg	**16.6**	**19.3**	**22.5**	**5.39**	**27**	**25.6**	**17.6**	**24.1**	**26.6**	**16.3**	**22.9**	**19.5**	**17.7**	**16.9**	**21**
6010B	COBALT	mg/kg	**10.8**	**11.1**	**12.1**	**1.07**	**14.4**	**8.62**	**7.85**	**11**	**15**	**15.2**	**12**	**10.6**	**10.6**	**14.8**	**14**
6010B	COPPER	mg/kg	**43.7**	**81.5**	**128**	**4.82**	**182**	**32.8**	**56.2**	**142**	**76.8**	**57.5**	**124**	**64.5**	**108**	**51.6**	**112**
6010B	LEAD	mg/kg	**150**	**273**	**507**	**9.88**	**1060**	**98.5**	**200**	**1020**	**278**	**115**	**240**	**222**	**296**	**135**	**426**
6010B	NICKEL	mg/kg	**31.4**	**32.8**	**36.5**	**7.41**	**39.1**	**25**	**22.5**	**30.9**	**31.1**	**28.9**	**29.1**	**31.7**	**27.5**	**36.8**	**34.6**
6010B	SELENIUM	mg/kg	<2.53	<2.56	<2.5	<2.15	<2.52	<2.51	<2.47	<2.53	<3.2	<2.45	<2.57	<2.32	<2.55	<2.42	<2.47
6010B	SILVER	mg/kg	<1.26	<1.28	<1.25	<1.07	<1.26	<1.25	<1.24	<1.27	<1.6	<1.22	<1.28	<1.16	<1.28	<1.21	<1.24
6010B	THALLIUM	mg/kg	<2.53	<2.56	<2.5	<2.15	<2.52	<2.51	<2.47	<2.53	<3.2	<2.45	<2.57	<2.32	<2.55	<2.42	<2.47
6010B	VANADIUM	mg/kg	**30.6**	**35.5**	**33.3**	**9.38**	**35.3**	**27.2**	**26.8**	**35.9**	**56.7**	**35.6**	**36.5**	**32.4**	**47.1**	**33.9**	**35.6**
6010B	ZINC	mg/kg	**196**	**337**	**596**	**18.4**	**754**	**145**	**271**	**566**	**232**	**152**	**342**	**281**	**220**	**234**	**412**
7471A	MERCURY	mg/kg	**0.182**	**0.256**	**0.572**	**0.0219**	**0.561**	**0.207**	**1**	**1.8**	**0.0945**	**0.166**	**0.23**	**0.35**	**0.143**	**0.167**	**0.283**
	Polynuclear Aromatic Hydrocarbons																
8270C-SIM	ANTHRACENE	mg/kg															
8270C-SIM	ACENAPHTHENE	mg/kg															
8270C-SIM	ACENAPHTHYLENE	mg/kg															
8270C-SIM	BENZO(A)ANTHRACENE	mg/kg															
8270C-SIM	BENZO(A)PYRENE	mg/kg															
8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg															
8270C-SIM	BENZO(G,H,I)PERYLENE	mg/kg															
8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg															
8270C-SIM	CHRYSENE	mg/kg															
8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg															
8270C-SIM	FLUORANTHENE	mg/kg															
8270C-SIM	FLUORENE	mg/kg															
8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg															
8270C-SIM	NAPHTHALENE	mg/kg															
8270C-SIM	PHENANTHRENE	mg/kg															
8270C-SIM	PYRENE	mg/kg															
8270C-SIM	1-METHYLNAPHTHALENE	mg/kg															
8270C-SIM	2-METHYLNAPHTHALENE	mg/kg															
8270C-SIM	2-CHLORONAPHTHALENE	mg/kg															

Notes:

mg/kg = milligrams per kilogram (or parts per million (ppm))
VAP RES = Ohio VAP Generic Direct Contact Soil Standard for Residential/Unrestricted land uses
VAP C/I = Ohio VAP Generic Direct Contact Soil Standard for Commercial/Industrial land uses
VAP CE = Ohio VAP Generic Direct Contact Soil Standard for Construction/Excavation worker exposure
* The background concentration for naturally-occurring arsenic in Franklin County is 20.7 mg/kg

Table 1 - Soil Analytical Results

City of Bexley Property
Ferndale Place and Mayfield Place
Bexley, Franklin County, Ohio
GCI Project 17-E-21430

		Lab Sample ID	L956532-16	L956532-17	L956532-18	L956532-19	L956532-20	L956532-21	L956532-22	L956532-23	L956532-24	L956532-25	L956532-26	L956532-27	L956532-28	L956532-29	L956532-30
		Sample ID	EB-16	EB-1	EB-1	EB-1	EB-2	EB-2	EB-2	EB-3	EB-3	EB-3	EB-4	EB-4	EB-4	EB-5	EB-5
		Sample Depth	0'	4'	8'	12'	4'	8'	12'	4'	8'	12'	4'	8'	12'	4'	8'
		Date Collected	12/08/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017
Method	Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2540 G-2011	TOTAL SOLIDS	%	86.7	82.7	81.2	83	85	70.6	83.1	81	82.5	84.6	83.9	85.8	84.6	83.9	86.2
	Ohio VAP Metals																
6010B	ALUMINUM	mg/kg	12200	16500	11400	7000	14800	12800	13400	5510	12400	10900	11300	15000	7990	12200	15800
6010B	ANTIMONY	mg/kg	<2.31	<2.42	4.15	<2.41	<2.35	11.2	<2.41	<2.47	<2.42	<2.36	<2.38	<2.33	<2.37	<2.38	<2.32
6010B	ARSENIC	mg/kg	23.4	26.8	13.2	53.2	23.5	26.6	24.1	17.5	22.7	22.1	42.4	20.7	23.5	19.9	17.6
6010B	BARIUM	mg/kg	423	273	114	47.3	481	897	499	1870	354	123	152	357	539	395	192
6010B	BERYLLIUM	mg/kg	2.13	1.8	0.674	0.459	2.19	2.48	1.12	0.785	0.956	0.713	0.72	0.857	0.582	1.36	0.935
6010B	CADMIUM	mg/kg	2.14	2.52	<0.616	<0.603	1.29	1.62	5.76	3.4	0.708	<0.591	0.944	<0.583	8.26	2.12	0.705
6010B	CHROMIUM	mg/kg	18.5	25.4	13.3	9.12	29.6	24.6	36.5	29.2	17.2	13.5	25	18.9	32.5	17.3	17.5
6010B	COBALT	mg/kg	12.2	21.8	11.2	8.54	9.2	13.1	12.8	7.44	12.8	11.5	10.5	12.5	9.87	10.1	11.3
6010B	COPPER	mg/kg	91.3	80	19.9	24.8	86.4	139	2430	219	50.4	24.6	65.4	29.4	82.3	349	46
6010B	LEAD	mg/kg	421	359	18.3	18.8	651	1170	570	1180	490	22.6	186	51.8	677	423	124
6010B	NICKEL	mg/kg	30	48.5	23.7	33.8	25.2	24.7	45.5	28.2	35.9	34.2	34.9	37.7	29.5	28.4	33.5
6010B	SELENIUM	mg/kg	<2.31	<2.42	<2.46	<2.41	2.65	<2.83	<2.41	<2.47	<2.42	<2.36	<2.38	<2.33	<2.37	<2.38	<2.32
6010B	SILVER	mg/kg	<1.15	<1.21	<1.23	<1.21	<1.18	<1.42	<1.2	2.23	<1.21	<1.18	<1.19	<1.17	<1.18	<1.19	<1.16
6010B	THALLIUM	mg/kg	<2.31	<2.42	<2.46	<2.41	<2.35	<2.83	<2.41	<2.47	<2.42	<2.36	<2.38	<2.33	<2.37	<2.38	<2.32
6010B	VANADIUM	mg/kg	33.6	49	32.4	34.3	37.7	41.5	27.4	17.1	31.7	33.7	32.4	38.5	24.1	31.2	34.8
6010B	ZINC	mg/kg	495	430	78.5	101	329	725	2850	1350	217	95.2	285	189	1590	644	186
7471A	MERCURY	mg/kg	0.401	0.336	0.0348	0.0312	1.54	0.0764	0.0427	0.458	0.283	0.0341	0.152	0.0649	0.444	0.531	0.234
	Polynuclear Aromatic Hydrocarbons																
8270C-SIM	ANTHRACENE	mg/kg		11.1	0.42	<0.00723	0.0262	0.0289	<0.00722	0.802	4.33	0.119	0.03	0.134	0.0777	7.79	3.66
8270C-SIM	ACENAPHTHENE	mg/kg		3.72	0.0807	<0.00723	<0.00706	<0.0085	<0.00722	0.186	1.12	0.0325	<0.00715	0.0168	0.0249	2.32	0.769
8270C-SIM	ACENAPHTHYLENE	mg/kg		<0.145	<0.00739	<0.00723	<0.00706	<0.0085	<0.00722	<0.00741	<0.00727	<0.00709	<0.00715	<0.007	<0.0071	<0.0358	0.342
8270C-SIM	BENZO(A)ANTHRACENE	mg/kg		45.3	1.43	<0.00723	0.0904	0.213	<0.00722	2.24	6.72	0.194	0.0852	0.765	0.502	12.4	5.63
8270C-SIM	BENZO(A)PYRENE	mg/kg		44.2	1.21	<0.00723	0.0859	0.218	<0.00722	1.79	4.39	0.167	0.0824	0.724	0.542	8.9	4.33
8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg		71.7	1.66	<0.00723	0.105	0.28	<0.00722	2.37	6.04	0.206	0.113	1.02	0.862	11.3	5.63
8270C-SIM	BENZO(G,H,I)PERYLENE	mg/kg		27	0.725	<0.00723	0.0632	0.148	<0.00722	1.03	2.66	0.103	0.0557	0.466	0.43	5.78	2.27
8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg		22.3	0.571	<0.00723	0.0461	0.107	<0.00722	0.74	1.87	0.0799	0.0382	0.311	0.287	4.19	1.92
8270C-SIM	CHRYSENE	mg/kg		56.5	1.39	<0.00723	0.0907	0.203	<0.00722	2.1	5.56	0.174	0.084	0.769	0.633	11.3	4.93
8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg		10.5	0.241	<0.00723	0.0165	0.0377	<0.00722	0.326	1.18	0.0259	0.0166	0.146	0.118	1.95	0.808
8270C-SIM	FLUORANTHENE	mg/kg		116	2.87	<0.00723	0.168	0.293	0.0135	4.23	15.7	0.442	0.173	1.36	1.23	27.2	12.1
8270C-SIM	FLUORENE	mg/kg		5.33	0.121	<0.00723	0.00911	<0.0085	<0.00722	0.238	2.08	0.051	0.00834	0.0277	0.0356	3.31	1.8
8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg		28.4	0.716	<0.00723	0.0499	0.13	<0.00722	0.999	2.74	0.0909	0.0492	0.444	0.381	4.97	2.35
8270C-SIM	NAPHTHALENE	mg/kg		<0.483	0.0756	<0.0241	<0.0235	0.0298	<0.0241	0.0642	0.149	<0.0236	<0.0238	<0.0233	0.0446	1.39	0.604
8270C-SIM	PHENANTHRENE	mg/kg		79.1	1.6	<0.00723	0.119	0.078	<0.00722	2.43	12.3	0.362	0.0861	0.432	0.57	21.5	10.5
8270C-SIM	PYRENE	mg/kg		93.1	2.54	<0.00723	0.16	0.276	0.00988	4.37	9.99	0.395	0.161	1.21	1.05	18.6	10.6
8270C-SIM	1-METHYLNAPHTHALENE	mg/kg		0.604	0.0727	<0.0241	0.0486	0.0289	<0.0241	0.0497	0.274	<0.0236	<0.0238	<0.0233	0.0443	0.918	0.783
8270C-SIM	2-METHYLNAPHTHALENE	mg/kg		0.494	0.0779	<0.0241	0.0361	0.0325	<0.0241	0.0528	0.254	<0.0236	<0.0238	<0.0233	0.0516	0.999	0.808
8270C-SIM	2-CHLORONAPHTHALENE	mg/kg		<0.483	<0.0246	<0.0241	<0.0235	<0.0283	<0.0241	<0.0247	<0.0242	<0.0236	<0.0238	<0.0233	<0.0237	<0.119	<0.116

Notes:

mg/kg = milligrams per kilogram (or parts per million (ppm))
VAP RES = Ohio VAP Generic Direct Contact Soil Standard for Residential/Unrestricted land uses
VAP C/I = Ohio VAP Generic Direct Contact Soil Standard for Commercial/Industrial land uses
VAP CE = Ohio VAP Generic Direct Contact Soil Standard for Construction/Excavation worker exposure
* The background concentration for naturally-occurring arsenic in Franklin County is 20.7 mg/kg

Table 1 - Soil Analytical Results

City of Bexley Property
Ferndale Place and Mayfield Place
Bexley, Franklin County, Ohio
GCI Project 17-E-21430

		Lab Sample ID	L956532-31	L956532-32	L956532-33	L956532-34	L956532-35	L956532-36	L956532-37	L956532-38	L956532-39	L956532-40	L956532-41	L956532-42	L956532-43	L956532-44	L956532-45
		Sample ID	EB-5	EB-6	EB-6	EB-6	EB-7	EB-7	EB-7	EB-8	EB-8	EB-8	EB-9	EB-9	EB-9	EB-10	EB-10
		Sample Depth	12'	4'	8'	12'	4'	8'	12'	4'	8'	12'	4'	8'	12'	4'	8'
		Date Collected	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/08/2017	12/08/2017
Method	Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2540 G-2011	TOTAL SOLIDS	%	**81.3**	**87.8**	**95.8**	**80.3**	**84.1**	**80.6**	**83.4**	**78.2**	**77**	**89.2**	**78.1**	**70.6**	**87.3**	**83.3**	**88.2**
	Ohio VAP Metals																
6010B	ALUMINUM	mg/kg	**11600**	**7960**	**2600**	**7160**	**11100**	**15100**	**15700**	**14900**	**22200**	**5680**	**7970**	**7490**	**3110**	**8720**	**5430**
6010B	ANTIMONY	mg/kg	<2.46	<2.28	<2.09	<2.49	**2.61**	<2.48	<2.4	<2.56	<2.6	<2.24	<2.56	<2.83	<2.29	<2.4	<2.27
6010B	ARSENIC	mg/kg	**14.9**	**31.7**	**6.19**	**44.8**	**27.1**	**19.5**	**42.1**	**26.8**	**48.5**	**34.1**	**26.7**	**17.8**	**17**	**13**	**18.2**
6010B	BARIUM	mg/kg	**168**	**279**	**19.3**	**45.4**	**176**	**160**	**120**	**396**	**622**	**64.3**	**228**	**929**	**33.8**	**119**	**237**
6010B	BERYLLIUM	mg/kg	**0.938**	**1.16**	<0.209	**0.58**	**1.65**	**0.812**	**0.859**	**3.97**	**1.06**	**0.369**	**1.32**	**0.91**	**0.28**	**0.902**	**0.497**
6010B	CADMIUM	mg/kg	**1.18**	**1.61**	<0.522	<0.622	<0.595	<0.621	<0.599	**1.21**	**0.848**	<0.561	**1.19**	**3.09**	<0.573	<0.6	**1.11**
6010B	CHROMIUM	mg/kg	**16.5**	**23.4**	**3.76**	**9.73**	**26.9**	**17.4**	**19**	**27.7**	**26**	**7.23**	**20.6**	**51.8**	**5.06**	**11**	**10.1**
6010B	COBALT	mg/kg	**11.7**	**13.2**	**3.33**	**6.63**	**12.3**	**13.6**	**12.7**	**12.2**	**17.5**	**7.12**	**12.6**	**10.2**	**6.04**	**9.79**	**10.6**
6010B	COPPER	mg/kg	**64.8**	**152**	**9.07**	**36.3**	**579**	**19.2**	**31.7**	**2130**	**25.2**	**23.4**	**56.4**	**380**	**19.1**	**18.8**	**24.2**
6010B	LEAD	mg/kg	**320**	**410**	**7.12**	**38.5**	**505**	**18.8**	**23**	**457**	**21**	**12.3**	**223**	**702**	**10.2**	**74.3**	**257**
6010B	NICKEL	mg/kg	**41**	**45.6**	**10.3**	**29**	**32.5**	**29.4**	**36.8**	**27.6**	**57.6**	**27**	**38.8**	**45.1**	**26.4**	**18.6**	**23.9**
6010B	SELENIUM	mg/kg	<2.46	<2.28	<2.09	<2.49	<2.38	<2.48	<2.4	<2.56	<2.6	<2.24	<2.56	<2.83	<2.29	<2.4	<2.27
6010B	SILVER	mg/kg	<1.23	<1.14	<1.04	<1.24	<1.19	<1.24	<1.2	<1.28	<1.3	<1.12	<1.28	**2.2**	<1.15	<1.2	<1.13
6010B	THALLIUM	mg/kg	<2.46	<2.28	<2.09	<2.49	<2.38	<2.48	<2.4	<2.56	<2.6	<2.24	<2.56	<2.83	<2.29	<2.4	<2.27
6010B	VANADIUM	mg/kg	**31.6**	**24.4**	**7.22**	**32.2**	**26.9**	**42.1**	**52.3**	**43.8**	**61.5**	**26.8**	**24.9**	**22.2**	**11.4**	**22.3**	**16.8**
6010B	ZINC	mg/kg	**310**	**547**	**23.1**	**97.2**	**218**	**72.9**	**126**	**440**	**104**	**79**	**467**	**1080**	**70.3**	**67.9**	**428**
7471A	MERCURY	mg/kg	**1.24**	**0.426**	<0.0209	**0.0475**	**0.405**	**0.0442**	**0.0595**	**0.704**	**0.0703**	<0.0224	**0.55**	**4.04**	<0.0229	**0.0423**	**0.852**
	Polynuclear Aromatic Hydrocarbons																
8270C-SIM	ANTHRACENE	mg/kg	**0.344**	**1.33**	<0.00626	<0.00747	**1.39**	<0.00745	**0.143**	**0.758**	<0.0078	<0.00673	**0.0308**	**0.0386**	<0.00687	**0.108**	**0.189**
8270C-SIM	ACENAPHTHENE	mg/kg	**0.0922**	**0.256**	<0.00626	<0.00747	**0.303**	<0.00745	<0.0719	**0.158**	<0.0078	<0.00673	<0.00769	<0.0085	<0.00687	**0.0136**	**0.0526**
8270C-SIM	ACENAPHTHYLENE	mg/kg	<0.00738	<0.00683	<0.00626	<0.00747	<0.0357	<0.00745	<0.0719	<0.0768	<0.0078	<0.00673	<0.00769	<0.0085	<0.00687	<0.0072	<0.00681
8270C-SIM	BENZO(A)ANTHRACENE	mg/kg	**0.908**	**2.47**	<0.00626	<0.00747	**3.68**	**0.0256**	**0.23**	**1.1**	<0.0078	**0.00906**	**0.118**	**0.0837**	<0.00687	**0.322**	**0.426**
8270C-SIM	BENZO(A)PYRENE	mg/kg	**0.971**	**1.78**	**0.00794**	<0.00747	**3.28**	**0.0279**	**0.198**	**0.862**	<0.0078	**0.00774**	**0.107**	**0.0705**	<0.00687	**0.249**	**0.354**
8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg	**1.37**	**2.34**	**0.0154**	<0.00747	**4.48**	**0.0364**	**0.273**	**1.1**	<0.0078	**0.00994**	**0.149**	**0.0969**	<0.00687	**0.334**	**0.503**
8270C-SIM	BENZO(G,H,I)PERYLENE	mg/kg	**0.678**	**1.11**	**0.0134**	<0.00747	**2.11**	**0.0196**	**0.131**	**0.55**	<0.0078	**0.00812**	**0.0712**	**0.0365**	<0.00687	**0.149**	**0.225**
8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg	**0.332**	**0.853**	<0.00626	<0.00747	**1.23**	**0.0137**	**0.0845**	**0.455**	<0.0078	<0.00673	**0.051**	**0.035**	<0.00687	**0.128**	**0.158**
8270C-SIM	CHRYSENE	mg/kg	**0.875**	**2.25**	**0.00926**	<0.00747	**3.32**	**0.0296**	**0.232**	**1.09**	<0.0078	**0.0102**	**0.129**	**0.0881**	<0.00687	**0.303**	**0.42**
8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	**0.215**	**0.342**	<0.00626	<0.00747	**0.669**	<0.00745	<0.0719	**0.169**	<0.0078	<0.00673	**0.0221**	**0.0123**	<0.00687	**0.0433**	**0.0598**
8270C-SIM	FLUORANTHENE	mg/kg	**1.78**	**5.61**	**0.0111**	<0.00747	**7.95**	**0.0548**	**0.694**	**3.07**	<0.0078	**0.024**	**0.291**	**0.202**	<0.00687	**0.699**	**0.983**
8270C-SIM	FLUORENE	mg/kg	**0.117**	**0.39**	<0.00626	<0.00747	**0.409**	<0.00745	<0.0719	**0.225**	<0.0078	<0.00673	**0.0108**	**0.0116**	<0.00687	<0.0072	**0.0574**
8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	**0.665**	**1.01**	**0.00889**	<0.00747	**1.88**	**0.0168**	**0.121**	**0.485**	<0.0078	<0.00673	**0.0674**	**0.0368**	<0.00687	**0.141**	**0.19**
8270C-SIM	NAPHTHALENE	mg/kg	**0.0643**	**0.124**	<0.0209	<0.0249	<0.119	<0.0248	<0.24	<0.256	<0.026	<0.0224	**0.0335**	<0.0283	<0.0229	<0.024	**0.0334**
8270C-SIM	PHENANTHRENE	mg/kg	**0.956**	**4.07**	**0.00811**	<0.00747	**4.98**	**0.0251**	**0.434**	**2.21**	<0.0078	**0.0222**	**0.179**	**0.129**	<0.00687	**0.411**	**0.698**
8270C-SIM	PYRENE	mg/kg	**1.59**	**3.67**	**0.0122**	**0.00825**	**7.33**	**0.0497**	**0.433**	**1.92**	<0.0078	**0.0182**	**0.204**	**0.137**	<0.00687	**0.513**	**0.762**
8270C-SIM	1-METHYLNAPHTHALENE	mg/kg	**0.0443**	**0.118**	<0.0209	<0.0249	<0.119	<0.0248	<0.24	<0.256	<0.026	<0.0224	**0.0475**	<0.0283	<0.0229	<0.024	**0.0357**
8270C-SIM	2-METHYLNAPHTHALENE	mg/kg	**0.0572**	**0.13**	<0.0209	<0.0249	<0.119	<0.0248	<0.24	<0.256	<0.026	<0.0224	**0.0477**	<0.0283	<0.0229	<0.024	**0.0322**
8270C-SIM	2-CHLORONAPHTHALENE	mg/kg	<0.0246	<0.0228	<0.0209	<0.0249	<0.119	<0.0248	<0.24	<0.256	<0.026	<0.0224	<0.0256	<0.0283	<0.0229	<0.024	<0.0227

Notes:

mg/kg = milligrams per kilogram (or parts per million (ppm))
VAP RES = Ohio VAP Generic Direct Contact Soil Standard for Residential/Unrestricted land uses
VAP C/I = Ohio VAP Generic Direct Contact Soil Standard for Commercial/Industrial land uses
VAP CE = Ohio VAP Generic Direct Contact Soil Standard for Construction/Excavation worker exposure
* The background concentration for naturally-occurring arsenic in Franklin County is 20.7 mg/kg

Table 1 - Soil Analytical Results

City of Bexley Property
Ferndale Place and Mayfield Place
Bexley, Franklin County, Ohio
GCI Project 17-E-21430

		Lab Sample ID	L956532-46	L956532-47	L956532-48	L956532-49	L956532-50	L956532-51	L956532-52	L956532-53	L956532-54	L956532-55	L956532-56	Site Max	VAP RES	VAP C/I	VAP CE
		Sample ID	EB-10	EB-11	EB-11	EB-11	EB-12	EB-12	EB-12	EB-13	EB-14	EB-15	EB-16				
		Sample Depth	12'	4'	8'	12'	4'	8'	12'	4-6'	6-8'	2-4'	6-8'				
		Date Collected	12/08/2017	12/08/2017	12/08/2017	12/08/2017	12/08/2017	12/08/2017	12/08/2017	12/08/2017	12/08/2017	12/08/2017	12/08/2017				
Method	Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Value	Value	Value	Value
2540 G-2011	TOTAL SOLIDS	%	**79.6**	**83.2**	**83.2**	**86.6**	**73.7**	**80**	**88.8**	**77.3**	**75.8**	**81.4**	**75.8**				
	Ohio VAP Metals																
6010B	ALUMINUM	mg/kg	**7030**	**9410**	**9290**	**7540**	**7360**	**11700**	**4330**	**8660**	**13500**	**8790**	**10400**	**22600**	NS	NS	NS
6010B	ANTIMONY	mg/kg	<2.51	<2.4	<2.4	<2.31	<2.71	<2.5	<2.25	<2.59	<2.64	**2.57**	<2.64	**11.2**	63	1,600	850
6010B	ARSENIC	mg/kg	**20.7**	**20**	**20.8**	**17.2**	**21.5**	**32.4**	**16.5**	**31.6**	**34.8**	**17.7**	**20.6**	**53.2**	20.7*	77	690
6010B	BARIUM	mg/kg	**74.8**	**1620**	**75.1**	**78.7**	**321**	**139**	**40.1**	**311**	**697**	**290**	**238**	**1870**	30,000	760,000	350,000
6010B	BERYLLIUM	mg/kg	**0.536**	**1.38**	**0.754**	**0.532**	**1.25**	**0.936**	**0.422**	**0.698**	**3.14**	**1.32**	**1.16**	**5.04**	310	7,800	3,400
6010B	CADMIUM	mg/kg	<0.628	**1.25**	<0.601	<0.577	**1.84**	<0.625	**0.895**	**4.51**	**1.87**	**0.675**	**5.4**	**8.26**	140	2,600	1,000
6010B	CHROMIUM	mg/kg	**11**	**18.8**	**13.8**	**11.4**	**18.8**	**14.9**	**6.64**	**31.5**	**54.8**	**13.8**	**26.2**	**54.8**	NS	NS	NS
6010B	COBALT	mg/kg	**9.85**	**11.1**	**7.82**	**14.6**	**9.13**	**7.36**	**7.15**	**7.42**	**13.8**	**9.8**	**10.5**	**21.8**	47	1,400	2,900
6010B	COPPER	mg/kg	**29.9**	**129**	**21.9**	**30.4**	**94.7**	**36.5**	**34.5**	**103**	**412**	**50.7**	**62**	**2430**	6,300	160,000	21,000
6010B	LEAD	mg/kg	**15.4**	**336**	**11.8**	**15**	**432**	**20.9**	**16.9**	**916**	**802**	**293**	**444**	**1180**	400	800	400
6010B	NICKEL	mg/kg	**35.2**	**30**	**22.7**	**48.9**	**30.9**	**43.2**	**31.5**	**41.7**	**54.2**	**24.7**	**34.7**	**57.6**	3,100	74,000	23,000
6010B	SELENIUM	mg/kg	<2.51	<2.4	<2.4	<2.31	<2.71	<2.5	<2.25	<2.59	<2.64	<2.46	<2.64	**2.65**	780	20,000	11,000
6010B	SILVER	mg/kg	<1.26	<1.2	<1.2	<1.15	<1.36	<1.25	<1.13	<1.29	<1.32	<1.23	<1.32	**2.23**	780	20,000	11,000
6010B	THALLIUM	mg/kg	<2.51	<2.4	<2.4	<2.31	<2.71	<2.5	<2.25	<2.59	<2.64	<2.46	<2.64	**0**	NS	NS	NS
6010B	VANADIUM	mg/kg	**19.2**	**25.6**	**27.6**	**18.7**	**20.6**	**38**	**18**	**27.4**	**39.7**	**25.5**	**25.6**	**61.5**	790	23,000	12,000
6010B	ZINC	mg/kg	**110**	**927**	**73.7**	**118**	**475**	**122**	**97.7**	**1230**	**935**	**261**	**20800**	**20800**	47,000	1,000,000	640,000
7471A	MERCURY	mg/kg	**0.0256**	**0.324**	**0.045**	<0.0231	**0.159**	**0.0647**	<0.0225	**0.788**	**0.373**	**0.354**	**2.07**	**4.04**	3.1	3.1	3.1
	Polynuclear Aromatic Hydrocarbons																
8270C-SIM	ANTHRACENE	mg/kg	<0.00754	**0.341**	<0.00721	<0.00693	**0.0352**	<0.0075	<0.00675	**0.331**	**1.39**	**0.321**	**2.16**	**11.1**	34,000	450,000	1,000,000
8270C-SIM	ACENAPHTHENE	mg/kg	<0.00754	**0.127**	<0.00721	<0.00693	<0.00814	<0.0075	<0.00675	<0.0776	**0.258**	**0.0836**	**0.491**	**3.72**	6,900	90,000	780,000
8270C-SIM	ACENAPHTHYLENE	mg/kg	<0.00754	<0.00721	<0.00721	<0.00693	<0.00814	<0.0075	<0.00675	<0.0776	<0.0792	<0.0737	<0.158	**0.342**	7,200	130,000	870,000
8270C-SIM	BENZO(A)ANTHRACENE	mg/kg	<0.00754	**0.881**	<0.00721	<0.00693	**0.135**	<0.0075	<0.00675	**0.621**	**1.8**	**0.633**	**2.34**	**45.3**	12	58	1,200
8270C-SIM	BENZO(A)PYRENE	mg/kg	<0.00754	**0.696**	<0.00721	<0.00693	**0.131**	<0.0075	<0.00675	**0.44**	**1.44**	**0.583**	**1.65**	**44.2**	1.24	5.8	120
8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg	<0.00754	**0.859**	<0.00721	<0.00693	**0.196**	<0.0075	<0.00675	**0.679**	**2.05**	**0.81**	**2.39**	**71.7**	12	58	1,200
8270C-SIM	BENZO(G,H,I)PERYLENE	mg/kg	<0.00754	**0.441**	<0.00721	<0.00693	**0.0947**	<0.0075	<0.00675	**0.285**	**0.961**	**0.49**	**0.937**	**27**	3,600	67,000	430,000
8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg	<0.00754	**0.346**	<0.00721	<0.00693	**0.0538**	<0.0075	<0.00675	**0.231**	**0.581**	**0.248**	**0.632**	**22.3**	120	580	12,000
8270C-SIM	CHRYSENE	mg/kg	<0.00754	**0.837**	<0.00721	<0.00693	**0.151**	<0.0075	<0.00675	**0.658**	**1.69**	**0.72**	**2.17**	**56.5**	1,200	5,800	120,000
8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	<0.00754	**0.125**	<0.00721	<0.00693	**0.0244**	<0.0075	<0.00675	**0.0994**	**0.278**	**0.109**	**0.297**	**10.5**	1.2	5.8	120
8270C-SIM	FLUORANTHENE	mg/kg	<0.00754	**1.83**	<0.00721	<0.00693	**0.332**	<0.0075	<0.00675	**1.99**	**5.23**	**2**	**7.06**	**116**	4,600	60,000	160,000
8270C-SIM	FLUORENE	mg/kg	<0.00754	**0.0972**	<0.00721	<0.00693	<0.00814	<0.0075	<0.00675	<0.0776	**0.445**	**0.0884**	**0.696**	**5.33**	4,600	60,000	520,000
8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	<0.00754	**0.397**	<0.00721	<0.00693	**0.0841**	<0.0075	<0.00675	**0.279**	**0.86**	**0.379**	**0.872**	**28.4**	12	58	1,200
8270C-SIM	NAPHTHALENE	mg/kg	<0.0251	**0.0375**	<0.024	<0.0231	<0.0271	<0.025	<0.0225	<0.259	**0.308**	<0.246	<0.528	**1.39**	90	450	560
8270C-SIM	PHENANTHRENE	mg/kg	<0.00754	**1.21**	<0.00721	<0.00693	**0.131**	<0.0075	<0.00675	**1.14**	**3.97**	**1.25**	**6.35**	**79.1**	34,000	450,000	1,000,000
8270C-SIM	PYRENE	mg/kg	<0.00754	**1.61**	<0.00721	<0.00693	**0.241**	<0.0075	<0.00675	**1.17**	**3.28**	**1.29**	**4.15**	**93.1**	3,400	45,000	390,000
8270C-SIM	1-METHYLNAPHTHALENE	mg/kg	<0.0251	**0.0386**	<0.024	<0.0231	<0.0271	<0.025	<0.0225	<0.259	**0.269**	<0.246	<0.528	**0.918**	310	1,500	31,000
8270C-SIM	2-METHYLNAPHTHALENE	mg/kg	<0.0251	**0.0337**	<0.024	<0.0231	<0.0271	<0.025	<0.0225	<0.259	**0.307**	<0.246	<0.528	**0.999**	460	6,000	5,200
8270C-SIM	2-CHLORONAPHTHALENE	mg/kg	<0.0251	<0.024	<0.024	<0.0231	<0.0271	<0.025	<0.0225	<0.259	<0.264	<0.246	<0.528	**0**	13,000	330,000	1,000,000

Notes:

mg/kg = milligrams per kilogram (or parts per million (ppm))
VAP RES = Ohio VAP Generic Direct Contact Soil Standard for Residential/Unrestricted land uses
VAP C/I = Ohio VAP Generic Direct Contact Soil Standard for Commercial/Industrial land uses
VAP CE = Ohio VAP Generic Direct Contact Soil Standard for Construction/Excavation worker exposure
* The background concentration for naturally-occurring arsenic in Franklin County is 20.7 mg/kg

Table 2 - Ground Water Analytical Results

City of Bexley Property
Ferndale Place and Mayfield Place
Bexley, Franklin County, Ohio
GCI Project 17-E-21430

			Lab Sample ID	L956532-57	L956532-58	L956532-59	L956532-60	L956532-61	L956532-62	L956532-63	L956532-64	L956532-65	L956532-66	L956532-67	L956532-68	Site Max	VAP GUPUS
			Sample ID	EB-1	EB-2	EB-3	EB-4	EB-5	EB-6	EB-7	EB-8	EB-9	EB-10	EB-11	EB-12		
			Date Collected	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	12/08/2017	12/08/2017	12/08/2017		
Method	Analyte	Units		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Value	Value
	Ohio VAP Metals																
6010B	ALUMINUM	µg/L		**98800**	**9860**	**52100**	**49600**	**49300**	**22000**	**77300**	**39200**	**99200**	**102000**	**41300**	**90500**	**102000**	NS
6010B	BARIUM	µg/L		**1580**	**1560**	**3670**	**901**	**4890**	**486**	**2400**	**632**	**2710**	**2360**	**961**	**3450**	**4890**	2,000
6010B	BERYLLIUM	µg/L		**9.41**	<2	**6.21**	**5.16**	**6.22**	**3.03**	**5.7**	**3.16**	**8.3**	**8.02**	**3.84**	**8.57**	**9.41**	4
6010B	CADMIUM	µg/L		**17**	**14.3**	**27.9**	**10.6**	**47.8**	**3.63**	**26.7**	**4.92**	**41.8**	**38.5**	**11**	**20.3**	**47.8**	5
6010B	CHROMIUM	µg/L		**182**	**45.2**	**178**	**101**	**94.6**	**48.7**	**161**	**66.6**	**207**	**164**	**63.4**	**142**	**207**	100
6010B	COBALT	µg/L		**194**	**17.2**	**155**	**324**	**255**	**30.1**	**143**	**69.7**	**190**	**212**	**59.2**	**495**	**495**	4.7
6010B	COPPER	µg/L		**669**	**2090**	**518**	**596**	**1320**	**264**	**415**	**366**	**1370**	**566**	**270**	**1460**	**2090**	1,300
6010B	LEAD	µg/L		**1190**	**3120**	**720**	**1100**	**1010**	**295**	**1600**	**304**	**2190**	**555**	**195**	**2060**	**3120**	15
6010B	NICKEL	µg/L		**621**	**68.5**	**492**	**609**	**1070**	**114**	**776**	**226**	**603**	**780**	**240**	**810**	**1070**	300
6010B	SELENIUM	µg/L		<10	<10	<10	<10	<10	<10	<10	**10**	**18.6**	**12.3**	**34.3**	**261**	**261**	50
6010B	SILVER	µg/L		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	**0**	71
6010B	VANADIUM	µg/L		**197**	**34.7**	**205**	**125**	**156**	**72.7**	**205**	**109**	**276**	**515**	**162**	**230**	**515**	63
6010B	ZINC	µg/L		**2100**	**4010**	**1540**	**2860**	**2030**	**719**	**2360**	**874**	**5200**	**2820**	**1310**	**2520**	**5200**	4,700
6020	ANTIMONY	µg/L		<2	**12.8**	**6.31**	**14**	**11.2**	**8.27**	**9.92**	**7.64**	**7.16**	<2	**12.8**	**5.98**	**14**	6
6020	ARSENIC	µg/L		**62.6**	**27.3**	**96.9**	**1090**	**1030**	**282**	**512**	**438**	**471**	**217**	**569**	**927**	**1090**	10
6020	THALLIUM	µg/L		**8.55**	<2	**19.6**	**15.2**	**51.9**	**9.1**	**35.9**	**6.03**	**43.6**	**19.5**	**31.9**	**56.6**	**56.6**	NS
7470A	MERCURY	µg/L		**3.67**	**0.879**	**2.05**	**2.4**	**4.25**	**0.315**	**1.97**	**0.41**	**8.22**	**3.19**	**1.12**	**2.36**	**8.22**	2
	Polynuclear Aromatic Hydrocarbons																
8270C-SIM	ANTHRACENE	µg/L		<0.0665	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.057	<0.057	<0.05	<0.057	**0**	1,300
8270C-SIM	ACENAPHTHENE	µg/L		<0.0665	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.057	<0.057	<0.05	<0.057	**0**	400
8270C-SIM	ACENAPHTHYLENE	µg/L		<0.0665	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.057	<0.057	<0.05	<0.057	**0**	390
8270C-SIM	BENZO(A)ANTHRACENE	µg/L		**0.0841**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.057	<0.057	<0.05	<0.057	**0.0841**	0.92
8270C-SIM	BENZO(A)PYRENE	µg/L		<0.0665	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.057	<0.057	<0.05	<0.057	**0**	0.2
8270C-SIM	BENZO(B)FLUORANTHENE	µg/L		**0.0777**	**0.0516**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.057	<0.057	<0.05	<0.057	**0.0777**	0.92
8270C-SIM	BENZO(G,H,I)PERYLENE	µg/L		<0.0665	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.057	<0.057	<0.05	<0.057	**0**	470
8270C-SIM	BENZO(K)FLUORANTHENE	µg/L		<0.0665	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.057	<0.057	<0.05	<0.057	**0**	9.2
8270C-SIM	CHRYSENE	µg/L		**0.0719**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.057	<0.057	<0.05	<0.057	**0.0719**	92
8270C-SIM	DIBENZ(A,H)ANTHRACENE	µg/L		<0.0665	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.057	<0.057	<0.05	<0.057	**0**	0.092
8270C-SIM	FLUORANTHENE	µg/L		**0.239**	**0.0837**	<0.05	**0.0552**	<0.05	<0.05	<0.05	<0.05	<0.057	<0.057	<0.05	<0.057	**0.239**	630
8270C-SIM	FLUORENE	µg/L		<0.0665	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.057	<0.057	<0.05	<0.057	**0**	220
8270C-SIM	INDENO(1,2,3-CD)PYRENE	µg/L		<0.0665	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.057	<0.057	<0.05	<0.057	**0**	0.92
8270C-SIM	NAPHTHALENE	µg/L		<0.332	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.285	<0.285	<0.25	<0.285	**0**	1.4
8270C-SIM	PHENANTHRENE	µg/L		**0.225**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.057	<0.057	<0.05	<0.057	**0.225**	3,400
8270C-SIM	PYRENE	µg/L		**0.143**	**0.0626**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.057	<0.057	<0.05	<0.057	**0.143**	87
8270C-SIM	1-METHYLNAPHTHALENE	µg/L		<0.332	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.285	<0.285	<0.25	<0.285	**0**	9.7
8270C-SIM	2-METHYLNAPHTHALENE	µg/L		<0.332	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.285	<0.285	<0.25	<0.285	**0**	2.7
8270C-SIM	2-CHLORONAPHTHALENE	µg/L		<0.332	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.285	<0.285	<0.25	<0.285	**0**	550

Notes:
µg/L = micrograms per liter
VAP GUPUS = Ohio VAP Generic Unrestricted Potable Use Standard

TEST BORING LOG

PROJECT NAME **Mayfield Place and Ferndale Place - Bexley, Ohio** BORING NO. **EB- 1**

PROJ. SURF. ELEV.

CLIENT **The City of Bexley** NO. **17-E-21430** DATE DRILLED **12/7/2017**

GROUND WATER OBSERVATION	Proportions Used		140 lb Wt. x 30" fall on 2" O.D. Sampler	
			Cohesionless Density	Cohesive Consistency
10.5 FEET BELOW SURFACE AT COMPLETION	trace	0 to 10%	0 - 10 Loose	0 - 4 Soft
_____ FEET BELOW SURFACE AT 24 HOURS	little	10 to 20%	10 - 30 Medium Dense	4 - 8 Medium Stiff
	some	20 to 35%	30 - 50 Dense	8 - 15 Stiff
_____ FEET BELOW SURFACE AT ____ HOURS	and	35 to 50%	50 + Very Dense	15 - 30 Very Stiff
				30 + Hard

LOCATION OF BORING **See Boring Location Plan**

DEPTH	PID Readings (ppm)	Sample Depths From To	Type of Sample	Moisture Density or Consist.	Strata* Change Depth	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
		0.0-2.0	MACROCORE	Moist		FILL: Mixture of Topsoil, gravel, cinders, brown clay-silt, trace organics
		2.0-4.0	MACROCORE	Moist		
		4.0-6.0	MACROCORE	Moist		
5						
		6.0-8.0	MACROCORE	Moist	7.0	
		8.0-10.0	MACROCORE	Moist		Dark Brown to Black Stained Clay, trace organics
10		10.0-12.0	MACROCORE	Wet	10.5	
					12.0	Little Brown Fine to Coarse Sand and Gravel, little brown clay-silt
						BOTTOM OF BORING: 12.0'
15						

*** The stratification lines represent the approximate boundary between soil types and the transition may be gradual.**

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TEST BORING LOG

PROJECT NAME **Mayfield Place and Ferndale Place - Bexley, Ohio** BORING NO. **EB- 2**

PROJ. SURF. ELEV.

CLIENT **The City of Bexley** NO. **17-E-21430** DATE DRILLED **12/7/2017**

GROUND WATER OBSERVATION	Proportions Used		140 lb Wt. x 30" fall on 2" O.D. Sampler	
			Cohesionless Density	Cohesive Consistency
12.0 FEET BELOW SURFACE AT COMPLETION	trace	0 to 10%	0 - 10 Loose	0 - 4 Soft
_____ FEET BELOW SURFACE AT 24 HOURS	little	10 to 20%	10 - 30 Medium Dense	4 - 8 Medium Stiff
	some	20 to 35%	30 - 50 Dense	8 - 15 Stiff
_____ FEET BELOW SURFACE AT ____ HOURS	and	35 to 50%	50 + Very Dense	15 - 30 Very Stiff
				30 + Hard

LOCATION OF BORING **See Boring Location Plan**

DEPTH	PID Readings (ppm)	Sample Depths From To	Type of Sample	Moisture Density or Consist.	Strata* Change Depth	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
		0.0-2.0	MACROCORE	Moist		FILL: Mixture of Topsoil, silty-clay, gravel, cinders, sand, trace concrete, wood, coal, plastic, metal debris
		2.0-4.0	MACROCORE	Moist		
		4.0-6.0	MACROCORE	Moist		
5						
		6.0-8.0	MACROCORE	Moist		
		8.0-10.0	MACROCORE	Moist		
10						
		10.0-12.0	MACROCORE	Moist		
						Water Seepage at 12.0'
					12.0	
		12.0-14.0	MACROCORE	Wet	12.5	Dark Gray Sandy-Silt
						Brown Mottled Gray Clay-Silt
		14.0-16.0	MACROCORE	Wet		
15						
					16.0	
						BOTTOM OF BORING: 16.0'

*** The stratification lines represent the approximate boundary between soil types and the transition may be gradual.**

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TEST BORING LOG

PROJECT NAME **Mayfield Place and Ferndale Place - Bexley, Ohio** BORING NO. **EB- 3**

PROJ. SURF. ELEV.

CLIENT **The City of Bexley** NO. **17-E-21430** DATE DRILLED **12/7/2017**

GROUND WATER OBSERVATION	Proportions Used		140 lb Wt. x 30" fall on 2" O.D. Sampler			
			Cohesionless Density		Cohesive Consistency	
18.0 FEET BELOW SURFACE AT COMPLETION	trace	0 to 10%	0 - 10	Loose	0 - 4	Soft
_____ FEET BELOW SURFACE AT 24 HOURS	little	10 to 20%	10 - 30	Medium Dense	4 - 8	Medium Stiff
	some	20 to 35%	30 - 50	Dense	8 - 15	Stiff
_____ FEET BELOW SURFACE AT ____ HOURS	and	35 to 50%	50 +	Very Dense	15 - 30	Very Stiff
					30 +	Hard

LOCATION OF BORING **See Boring Location Plan**

DEPTH	PID Readings (ppm)	Sample Depths From To	Type of Sample	Moisture Density or Consist.	Strata* Change Depth	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
		0.0-2.0	MACROCORE	Moist		FILL: Mixture of Clay-Silt, sand, gravel, cinders, slag, trace glass, brick, concrete, shale fragments, wood, ceramic
		2.0-4.0	MACROCORE	Moist		
		4.0-6.0	MACROCORE	Moist		
5		6.0-8.0	MACROCORE	Moist		
		8.0-10.0	MACROCORE	Moist	9.0	
		10.0-12.0	MACROCORE	Moist		FILL: Brown Lean Clay, little glass, trace ceramics
10		12.0-14.0	MACROCORE	Moist	13.0	
		14.0-16.0	MACROCORE	Moist		Dark Gray Sandy-Silt
15		16.0-18.0	MACROCORE	Moist	18.0	
		18.0-20.0	MACROCORE	Very Moist		Light Brown Fine to Coarse Sand and Gravel Water Seepage at 18.0'
20		20.0-22.0	MACROCORE	Wet	22.0	
		22.0-24.0	MACROCORE	Wet		Gray Medium Sand
					24.0	
25						BOTTOM OF BORING: 24.0'

*** The stratification lines represent the approximate boundary between soil types and the transition may be gradual.**

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TEST BORING LOG

PROJECT NAME **Mayfield Place and Ferndale Place - Bexley, Ohio** BORING NO. **EB- 4**

PROJ. SURF. ELEV.

CLIENT **The City of Bexley** NO. **17-E-21430** DATE DRILLED **12/7/2017**

GROUND WATER OBSERVATION	Proportions Used		140 lb Wt. x 30" fall on 2" O.D. Sampler	
			Cohesionless Density	Cohesive Consistency
22.0 FEET BELOW SURFACE AT COMPLETION	trace	0 to 10%	0 - 10 Loose	0 - 4 Soft
_____ FEET BELOW SURFACE AT 24 HOURS	little	10 to 20%	10 - 30 Medium Dense	4 - 8 Medium Stiff
	some	20 to 35%	30 - 50 Dense	8 - 15 Stiff
_____ FEET BELOW SURFACE AT ____ HOURS	and	35 to 50%	50 + Very Dense	15 - 30 Very Stiff
				30 + Hard

LOCATION OF BORING **See Boring Location Plan**

DEPTH	PID Readings (ppm)	Sample Depths From To	Type of Sample	Moisture Density or Consist.	Strata* Change Depth	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
		0.0-2.0	MACROCORE	Moist		FILL: Mixture of Clay-Silt, gravel, sand, cinders, trace wood, concrete, ceramics, brick, glass, coal
		2.0-4.0	MACROCORE	Moist		
		4.0-6.0	MACROCORE	Moist		
5		6.0-8.0	MACROCORE	Moist		
		8.0-10.0	MACROCORE	Moist		
10		10.0-12.0	MACROCORE	Moist		
		12.0-14.0	MACROCORE	Moist	13.0	
		14.0-16.0	MACROCORE	Moist		Brown Silt
15		16.0-18.0	MACROCORE	Moist	15.5	Brown Clayey-Silt
		18.0-20.0	MACROCORE	Very Moist	18.0	Brown Lean Clay with Sand
20		20.0-22.0	MACROCORE	Wet		
		22.0-24.0	MACROCORE	Wet	22.0	Gray Medium Sand
					23.0	Water Seepage at 22.0'
					24.0	Brown Fine to Coarse Sand and Gravel
25						BOTTOM OF BORING: 24.0'

*** The stratification lines represent the approximate boundary between soil types and the transition may be gradual.**

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TEST BORING LOG

PROJECT NAME **Mayfield Place and Ferndale Place - Bexley, Ohio** BORING NO. **EB- 5**

PROJ. SURF. ELEV.

CLIENT **The City of Bexley** NO. **17-E-21430** DATE DRILLED **12/7/2017**

GROUND WATER OBSERVATION	Proportions Used		140 lb Wt. x 30" fall on 2" O.D. Sampler	
			Cohesionless Density	Cohesive Consistency
21.0 FEET BELOW SURFACE AT COMPLETION	trace	0 to 10%	0 - 10 Loose	0 - 4 Soft
_____ FEET BELOW SURFACE AT 24 HOURS	little	10 to 20%	10 - 30 Medium Dense	4 - 8 Medium Stiff
	some	20 to 35%	30 - 50 Dense	8 - 15 Stiff
_____ FEET BELOW SURFACE AT ____ HOURS	and	35 to 50%	50 + Very Dense	15 - 30 Very Stiff
				30 + Hard

LOCATION OF BORING **See Boring Location Plan**

DEPTH	PID Readings (ppm)	Sample Depths From To	Type of Sample	Moisture Density or Consist.	Strata* Change Depth	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
		0.0-2.0	MACROCORE	Moist		FILL: Mixture of Brown Clay-Silt with varying amounts of gravel, sand, cinders, glass, brick, wood, metal debris
		2.0-4.0	MACROCORE	Moist		
		4.0-6.0	MACROCORE	Moist		
5						
		6.0-8.0	MACROCORE	Moist		
		8.0-10.0	MACROCORE	Moist		
10						
		10.0-12.0	MACROCORE	Moist		
		12.0-14.0	MACROCORE	Moist		
		14.0-16.0	MACROCORE	Very Moist		FILL: Dark Gray to Black in color at 13.5'
15						
		16.0-18.0	MACROCORE	Very Moist		
		18.0-20.0	MACROCORE	Very Moist	19.0	
20						Brown Fine to Coarse Sand and Gravel
		20.0-22.0	MACROCORE	Wet		Water Seepage at 21.0'
		22.0-24.0	MACROCORE	Wet	23.5	
					24.0	Gray Fine Sand
25						BOTTOM OF BORING: 24.0'

*** The stratification lines represent the approximate boundary between soil types and the transition may be gradual.**

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TEST BORING LOG

PROJECT NAME **Mayfield Place and Ferndale Place - Bexley, Ohio** BORING NO. **EB- 6**

PROJ. SURF. ELEV.

CLIENT **The City of Bexley** NO. **17-E-21430** DATE DRILLED **12/7/2017**

GROUND WATER OBSERVATION	Proportions Used		140 lb Wt. x 30" fall on 2" O.D. Sampler			
			Cohesionless Density		Cohesive Consistency	
12.5 FEET BELOW SURFACE AT COMPLETION	trace	0 to 10%	0 - 10	Loose	0 - 4	Soft
_____ FEET BELOW SURFACE AT 24 HOURS	little	10 to 20%	10 - 30	Medium Dense	4 - 8	Medium Stiff
	some	20 to 35%	30 - 50	Dense	8 - 15	Stiff
_____ FEET BELOW SURFACE AT ____ HOURS	and	35 to 50%	50 +	Very Dense	15 - 30	Very Stiff
					30 +	Hard

LOCATION OF BORING **See Boring Location Plan**

DEPTH	PID Readings (ppm)	Sample Depths From To	Type of Sample	Moisture Density or Consist.	Strata* Change Depth	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
		0.0-2.0	MACROCORE	Moist		FILL: Topsoil and gravel, little cinder, brick, glass, coal
		2.0-4.0	MACROCORE	Moist	3.0	
		4.0-6.0	MACROCORE	Moist		FILL: Coarse Sand and Gravel, trace brick
5		6.0-8.0	MACROCORE	Moist		
		8.0-10.0	MACROCORE	Moist		
10		10.0-12.0	MACROCORE	Moist	10.0	Brown Mottled Gray Clay-Silt
		12.0-14.0	MACROCORE	Wet	12.5	Brown Medium to Coarse Sand and Gravel Water Seepage at 12.5'
15		14.0-16.0	MACROCORE	Wet	16.0	
						BOTTOM OF BORING: 16.0'

*** The stratification lines represent the approximate boundary between soil types and the transition may be gradual.**

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TEST BORING LOG

PROJECT NAME **Mayfield Place and Ferndale Place - Bexley, Ohio** BORING NO. **EB- 7**

PROJ. SURF. ELEV.

CLIENT **The City of Bexley** NO. **17-E-21430** DATE DRILLED **12/7/2017**

GROUND WATER OBSERVATION	Proportions Used		140 lb Wt. x 30" fall on 2" O.D. Sampler	
			Cohesionless Density	Cohesive Consistency
12.0 FEET BELOW SURFACE AT COMPLETION	trace	0 to 10%	0 - 10 Loose	0 - 4 Soft
_____ FEET BELOW SURFACE AT 24 HOURS	little	10 to 20%	10 - 30 Medium Dense	4 - 8 Medium Stiff
	some	20 to 35%	30 - 50 Dense	8 - 15 Stiff
_____ FEET BELOW SURFACE AT ____ HOURS	and	35 to 50%	50 + Very Dense	15 - 30 Very Stiff
				30 + Hard

LOCATION OF BORING **See Boring Location Plan**

DEPTH	PID Readings (ppm)	Sample Depths From To	Type of Sample	Moisture Density or Consist.	Strata* Change Depth	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
		0.0-2.0	MACROCORE	Moist		FILL: Mixture of Topsoil, clay-silt, cinders, trace brick, ceramics, slag, concrete, glass
		2.0-4.0	MACROCORE	Moist		
		4.0-6.0	MACROCORE	Moist		
5					6.0	
		6.0-8.0	MACROCORE	Moist	7.0	Brown Clay-Silt with gravel
		8.0-10.0	MACROCORE	Moist		Dark Brown to Black Stained Clay
10		10.0-12.0	MACROCORE	Moist	11.0	
					12.0	Brown Lean Clay with Sand
		12.0-14.0	MACROCORE	Wet		Brown Fine to Coarse Sand and Gravel Water Seepage at 12.0'
		14.0-16.0	MACROCORE	Wet		
15					16.0	
						BOTTOM OF BORING: 16.0'

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TEST BORING LOG

PROJECT NAME **Mayfield Place and Ferndale Place - Bexley, Ohio** BORING NO. **EB- 8**

PROJ. SURF. ELEV.

CLIENT **The City of Bexley** NO. **17-E-21430** DATE DRILLED **12/7/2017**

GROUND WATER OBSERVATION	Proportions Used		140 lb Wt. x 30" fall on 2" O.D. Sampler			
			Cohesionless Density		Cohesive Consistency	
11.5 FEET BELOW SURFACE AT COMPLETION	trace	0 to 10%	0 - 10	Loose	0 - 4	Soft
_____ FEET BELOW SURFACE AT 24 HOURS	little	10 to 20%	10 - 30	Medium Dense	4 - 8	Medium Stiff
	some	20 to 35%	30 - 50	Dense	8 - 15	Stiff
_____ FEET BELOW SURFACE AT ____ HOURS	and	35 to 50%	50 +	Very Dense	15 - 30	Very Stiff
					30 +	Hard

LOCATION OF BORING **See Boring Location Plan**

DEPTH	PID Readings (ppm)	Sample Depths From To	Type of Sample	Moisture Density or Consist.	Strata* Change Depth	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
		0.0-2.0	MACROCORE	Moist		FILL: Mixture of Sand and cinders, some clay-silt, gravel, trace brick, slag
		2.0-4.0	MACROCORE	Moist		
		4.0-6.0	MACROCORE	Moist		
5					6.0	
		6.0-8.0	MACROCORE	Moist		Brown Lean Clay with Sand
					7.0	Dark Brown to Black Stained Clay, trace organics
		8.0-10.0	MACROCORE	Moist		
					9.0	Brown Fine to Coarse Sand and Gravel
10		10.0-12.0	MACROCORE	Moist to Wet		
		12.0-14.0	MACROCORE	Wet		Water Seepage at 11.5'
		14.0-16.0	MACROCORE	Wet		
15					16.0	
						BOTTOM OF BORING: 16.0'

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TEST BORING LOG

PROJECT NAME **Mayfield Place and Ferndale Place - Bexley, Ohio** BORING NO. **EB- 9**

PROJ. SURF. ELEV.

CLIENT **The City of Bexley** NO. **17-E-21430** DATE DRILLED **12/7/2017**

GROUND WATER OBSERVATION	Proportions Used		140 lb Wt. x 30" fall on 2" O.D. Sampler	
			Cohesionless Density	Cohesive Consistency
12.0 FEET BELOW SURFACE AT COMPLETION	trace	0 to 10%	0 - 10 Loose	0 - 4 Soft
_____ FEET BELOW SURFACE AT 24 HOURS	little	10 to 20%	10 - 30 Medium Dense	4 - 8 Medium Stiff
	some	20 to 35%	30 - 50 Dense	8 - 15 Stiff
_____ FEET BELOW SURFACE AT ____ HOURS	and	35 to 50%	50 + Very Dense	15 - 30 Very Stiff
				30 + Hard

LOCATION OF BORING **See Boring Location Plan**

DEPTH	PID Readings (ppm)	Sample Depths From To	Type of Sample	Moisture Density or Consist.	Strata* Change Depth	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
		0.0-2.0	MACROCORE	Moist		FILL: Mixture of Sand, gravel, cinders, clay-silt, trace coal, slag
		2.0-4.0	MACROCORE	Moist		
		4.0-6.0	MACROCORE	Moist		
5						
		6.0-8.0	MACROCORE	Moist		
		8.0-10.0	MACROCORE	Moist		
					10.0	
10		10.0-12.0	MACROCORE	Moist		Brown Fine to Coarse Sand and Gravel
		12.0-14.0	MACROCORE	Wet		Water Seepage at 12.0'
		14.0-16.0	MACROCORE	Wet		
15					15.5	
					16.0	Gray Medium Sand
						BOTTOM OF BORING: 16.0'

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TEST BORING LOG

PROJECT NAME **Mayfield Place and Ferndale Place - Bexley, Ohio** BORING NO. **EB-10**

PROJ. SURF. ELEV.

CLIENT **The City of Bexley** NO. **17-E-21430** DATE DRILLED **12/8/2017**

GROUND WATER OBSERVATION	Proportions Used		140 lb Wt. x 30" fall on 2" O.D. Sampler			
			Cohesionless Density		Cohesive Consistency	
12.5 FEET BELOW SURFACE AT COMPLETION	trace	0 to 10%	0 - 10	Loose	0 - 4	Soft
_____ FEET BELOW SURFACE AT 24 HOURS	little	10 to 20%	10 - 30	Medium Dense	4 - 8	Medium Stiff
	some	20 to 35%	30 - 50	Dense	8 - 15	Stiff
_____ FEET BELOW SURFACE AT ____ HOURS	and	35 to 50%	50 +	Very Dense	15 - 30	Very Stiff
					30 +	Hard

LOCATION OF BORING **See Boring Location Plan**

DEPTH	PID Readings (ppm)	Sample Depths From To	Type of Sample	Moisture Density or Consist.	Strata* Change Depth	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
		0.0-2.0	MACROCORE	Moist		FILL: Mixture of Clay-Silt and topsoil, varying amounts cinders, brick, slag
		2.0-4.0	MACROCORE	Moist		
		4.0-6.0	MACROCORE	Moist		
5						
		6.0-8.0	MACROCORE	Moist		
					8.0	
		8.0-10.0	MACROCORE	Moist		Brown Lean Clay with Sand
10						
		10.0-12.0	MACROCORE	Very Moist	10.5	
					11.0	Brown Medium Sand
						Brown Mottled Gray Lean Clay
		12.0-14.0	MACROCORE	Wet	12.5	
						Brown Fine to Coarse Sand and Gravel
						Water Seepage at 12.5'
		14.0-15.0	MACROCORE	Wet		
15						
					16.0	
						BOTTOM OF BORING: 16.0'

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TEST BORING LOG

PROJECT NAME **Mayfield Place and Ferndale Place - Bexley, Ohio** BORING NO. **EB-11**

PROJ. SURF. ELEV.

CLIENT **The City of Bexley** NO. **17-E-21430** DATE DRILLED **12/8/2017**

GROUND WATER OBSERVATION	Proportions Used		140 lb Wt. x 30" fall on 2" O.D. Sampler			
			Cohesionless Density		Cohesive Consistency	
10.5 FEET BELOW SURFACE AT COMPLETION	trace	0 to 10%	0 - 10	Loose	0 - 4	Soft
_____ FEET BELOW SURFACE AT 24 HOURS	little	10 to 20%	10 - 30	Medium Dense	4 - 8	Medium Stiff
	some	20 to 35%	30 - 50	Dense	8 - 15	Stiff
_____ FEET BELOW SURFACE AT ____ HOURS	and	35 to 50%	50 +	Very Dense	15 - 30	Very Stiff
					30 +	Hard

LOCATION OF BORING **See Boring Location Plan**

DEPTH	PID Readings (ppm)	Sample Depths From To	Type of Sample	Moisture Density or Consist.	Strata* Change Depth	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
		0.0-2.0	MACROCORE	Moist		FILL: Clay-Silt, varying amounts cinders, slag, coal, sand, brick
		2.0-4.0	MACROCORE	Moist		
		4.0-6.0	MACROCORE	Moist		
5					6.0	
		6.0-8.0	MACROCORE	Moist		Light Brown Clayey-Silt
		8.0-10.0	MACROCORE	Moist		
10						Water Seepage at 10.5'
		10.0-12.0	MACROCORE	Wet	10.5	
						Brown Medium to Coarse Sand and Gravel
		12.0-14.0	MACROCORE	Wet		
		14.0-16.0	MACROCORE	Wet		
15					15.0	
						BOTTOM OF BORING: 15.0'

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TEST BORING LOG

PROJECT NAME **Mayfield Place and Ferndale Place - Bexley, Ohio** BORING NO. **EB-12**

PROJ. SURF. ELEV.

CLIENT **The City of Bexley** NO. **17-E-21430** DATE DRILLED **12/8/2017**

GROUND WATER OBSERVATION	Proportions Used		140 lb Wt. x 30" fall on 2" O.D. Sampler	
			Cohesionless Density	Cohesive Consistency
10.0 FEET BELOW SURFACE AT COMPLETION	trace	0 to 10%	0 - 10 Loose	0 - 4 Soft
_____ FEET BELOW SURFACE AT 24 HOURS	little	10 to 20%	10 - 30 Medium Dense	4 - 8 Medium Stiff
	some	20 to 35%	30 - 50 Dense	8 - 15 Stiff
_____ FEET BELOW SURFACE AT ____ HOURS	and	35 to 50%	50 + Very Dense	15 - 30 Very Stiff
				30 + Hard

LOCATION OF BORING **See Boring Location Plan**

DEPTH	PID Readings (ppm)	Sample Depths From To	Type of Sample	Moisture Density or Consist.	Strata* Change Depth	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
		0.0-2.0	MACROCORE	Moist		FILL: Mixture of Clay, Silt, gravel, varying ceramics, glass, cinders, brick
		2.0-4.0	MACROCORE	Moist	3.0	
					4.0	Brown Medium Sand
		4.0-6.0	MACROCORE	Moist		Brown Clayey-Silt
5						
		6.0-8.0	MACROCORE	Moist	8.0	
		8.0-10.0	MACROCORE	Wet		Brown Fine to Coarse Sand and Gravel
10		10.0-12.0	MACROCORE	Moist		Water Seepage at 10.0'
		12.0-14.0	MACROCORE	Wet		
		14.0-16.0	MACROCORE	Wet		
15					16.0	
						BOTTOM OF BORING: 16.0'

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TEST BORING LOG

PROJECT NAME **Mayfield Place and Ferndale Place - Bexley, Ohio** BORING NO. **EB-13**

PROJ. SURF. ELEV.

CLIENT **The City of Bexley** NO. **17-E-21430** DATE DRILLED **12/8/2017**

GROUND WATER OBSERVATION	Proportions Used		140 lb Wt. x 30" fall on 2" O.D. Sampler			
			Cohesionless Density		Cohesive Consistency	
None FEET BELOW SURFACE AT COMPLETION	trace	0 to 10%	0 - 10	Loose	0 - 4	Soft
_____ FEET BELOW SURFACE AT 24 HOURS	little	10 to 20%	10 - 30	Medium Dense	4 - 8	Medium Stiff
	some	20 to 35%	30 - 50	Dense	8 - 15	Stiff
_____ FEET BELOW SURFACE AT ____ HOURS	and	35 to 50%	50 +	Very Dense	15 - 30	Very Stiff
					30 +	Hard

LOCATION OF BORING **See Boring Location Plan**

DEPTH	PID Readings (ppm)	Sample Depths From To	Type of Sample	Moisture Density or Consist.	Strata* Change Depth	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
	0.1	0.0-2.0	MACROCORE	Moist		FILL: Mixture of Sand, cinders, clay-silt, gravel and glass
	0.1	2.0-4.0	MACROCORE	Moist		
	0.1	4.0-6.0	MACROCORE	Moist		
5						
	0.1	6.0-8.0	MACROCORE	Moist		
					7.0	
						Brown Clayey-Silt
	0.0	8.0-10.0	MACROCORE	Moist		
10					10.0	
						BOTTOM OF BORING: 10.0'
15						

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TEST BORING LOG

PROJECT NAME **Mayfield Place and Ferndale Place - Bexley, Ohio** BORING NO. **EB-14**

PROJ. SURF. ELEV.

CLIENT **The City of Bexley** NO. **17-E-21430** DATE DRILLED **12/8/2017**

GROUND WATER OBSERVATION	Proportions Used		140 lb Wt. x 30" fall on 2" O.D. Sampler			
			Cohesionless Density		Cohesive Consistency	
None FEET BELOW SURFACE AT COMPLETION	trace	0 to 10%	0 - 10	Loose	0 - 4	Soft
_____ FEET BELOW SURFACE AT 24 HOURS	little	10 to 20%	10 - 30	Medium Dense	4 - 8	Medium Stiff
	some	20 to 35%	30 - 50	Dense	8 - 15	Stiff
_____ FEET BELOW SURFACE AT ____ HOURS	and	35 to 50%	50 +	Very Dense	15 - 30	Very Stiff
					30 +	Hard

LOCATION OF BORING **See Boring Location Plan**

DEPTH	PID Readings (ppm)	Sample Depths From To	Type of Sample	Moisture Density or Consist.	Strata* Change Depth	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
	0.1	0.0-2.0	MACROCORE	Moist		FILL: Brown Lean Clay, varying amount of cinders, gravel, slag
	0.1	2.0-4.0	MACROCORE	Moist		
	0.2	4.0-6.0	MACROCORE	Moist		
5						
	0.3	6.0-8.0	MACROCORE	Moist		
	0.2	8.0-10.0	MACROCORE	Very Moist		
					9.0	
					10.0	Brown Clayey-Silt
10						
						BOTTOM OF BORING: 10.0'
15						

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TEST BORING LOG

PROJECT NAME **Mayfield Place and Ferndale Place - Bexley, Ohio** BORING NO. **EB-15**

PROJ. SURF. ELEV.

CLIENT **The City of Bexley** NO. **17-E-21430** DATE DRILLED **12/8/2017**

GROUND WATER OBSERVATION	Proportions Used		140 lb Wt. x 30" fall on 2" O.D. Sampler			
			Cohesionless Density		Cohesive Consistency	
None FEET BELOW SURFACE AT COMPLETION	trace	0 to 10%	0 - 10	Loose	0 - 4	Soft
_____ FEET BELOW SURFACE AT 24 HOURS	little	10 to 20%	10 - 30	Medium Dense	4 - 8	Medium Stiff
	some	20 to 35%	30 - 50	Dense	8 - 15	Stiff
_____ FEET BELOW SURFACE AT ____ HOURS	and	35 to 50%	50 +	Very Dense	15 - 30	Very Stiff
					30 +	Hard

LOCATION OF BORING **See Boring Location Plan**

DEPTH	PID Readings (ppm)	Sample Depths From To	Type of Sample	Moisture Density or Consist.	Strata* Change Depth	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
	0.4	0.0-2.0	MACROCORE	Moist		FILL: Mixture of Brown Clay-Silt, gravel, cinders, brick, ceramics, concrete
	0.2	2.0-4.0	MACROCORE	Moist		
	0.1	4.0-6.0	MACROCORE	Moist		
5						
	0.1	6.0-8.0	MACROCORE	Moist		
					8.0	
	0.1	8.0-10.0	MACROCORE	Moist		Brown Lean Clay with Sand
10					10.0	
						BOTTOM OF BORING: 10.0'
15						

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TEST BORING LOG

PROJECT NAME **Mayfield Place and Ferndale Place - Bexley, Ohio** BORING NO. **EB-16**

PROJ. SURF. ELEV.

CLIENT **The City of Bexley** NO. **17-E-21430** DATE DRILLED **12/8/2017**

GROUND WATER OBSERVATION	Proportions Used		140 lb Wt. x 30" fall on 2" O.D. Sampler			
			Cohesionless Density		Cohesive Consistency	
None FEET BELOW SURFACE AT COMPLETION	trace	0 to 10%	0 - 10	Loose	0 - 4	Soft
_____ FEET BELOW SURFACE AT 24 HOURS	little	10 to 20%	10 - 30	Medium Dense	4 - 8	Medium Stiff
	some	20 to 35%	30 - 50	Dense	8 - 15	Stiff
_____ FEET BELOW SURFACE AT ____ HOURS	and	35 to 50%	50 +	Very Dense	15 - 30	Very Stiff
					30 +	Hard

LOCATION OF BORING **See Boring Location Plan**

DEPTH	PID Readings (ppm)	Sample Depths From To	Type of Sample	Moisture Density or Consist.	Strata* Change Depth	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
	0.1	0.0-2.0	MACROCORE	Moist		FILL: Mixture of Brown Clay-Silt, gravel, cinders, brick, ceramics, concrete
	0.2	2.0-4.0	MACROCORE	Moist		
	0.2	4.0-6.0	MACROCORE	Moist		
5						
	0.3	6.0-8.0	MACROCORE	Moist		
	0.2	8.0-10.0	MACROCORE	Moist	8.5	
						Brown Lean Clay with Sand
10					10.0	
						BOTTOM OF BORING: 10.0'
15						

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ANALYTICAL REPORT

December 22, 2017

Geotechnical Consultants, Inc.

Sample Delivery Group:	L956532
Samples Received:	12/09/2017
Project Number:	17-E-21430
Description:	City of Bexley

Report To: Mr. Michael Lacher
720 Greencrest Drive
Westerville, OH 43081

Entire Report Reviewed By:

T. Alan Harvill
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

EB-1 0' L956532-01 Solid

Collected by: Lacher | Collected date/time: 12/07/17 09:10 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053547	1	12/15/17 15:54	12/15/17 16:06	KDW
Mercury by Method 7471A	WG1051887	1	12/12/17 09:39	12/13/17 02:04	EL
Metals (ICP) by Method 6010B	WG1052698	1	12/12/17 16:30	12/13/17 17:53	ST

EB-2 0' L956532-02 Solid

Collected by: Lacher | Collected date/time: 12/07/17 10:00 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053547	1	12/15/17 15:54	12/15/17 16:06	KDW
Mercury by Method 7471A	WG1051887	1	12/12/17 09:39	12/13/17 02:11	EL
Metals (ICP) by Method 6010B	WG1052698	1	12/12/17 16:30	12/13/17 17:56	ST

EB-3 0' L956532-03 Solid

Collected by: Lacher | Collected date/time: 12/07/17 10:40 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053547	1	12/15/17 15:54	12/15/17 16:06	KDW
Mercury by Method 7471A	WG1051887	1	12/12/17 09:39	12/13/17 02:19	EL
Metals (ICP) by Method 6010B	WG1052698	1	12/12/17 16:30	12/13/17 18:05	ST

EB-4 0' L956532-04 Solid

Collected by: Lacher | Collected date/time: 12/07/17 11:45 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053547	1	12/15/17 15:54	12/15/17 16:06	KDW
Mercury by Method 7471A	WG1051887	1	12/12/17 09:39	12/13/17 02:21	EL
Metals (ICP) by Method 6010B	WG1052698	1	12/12/17 16:30	12/13/17 17:37	ST

EB-5 0' L956532-05 Solid

Collected by: Lacher | Collected date/time: 12/07/17 12:30 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053547	1	12/15/17 15:54	12/15/17 16:06	KDW
Mercury by Method 7471A	WG1051887	1	12/12/17 09:39	12/13/17 02:24	EL
Metals (ICP) by Method 6010B	WG1052698	1	12/12/17 16:30	12/13/17 18:08	ST

EB-6 0' L956532-06 Solid

Collected by: Lacher | Collected date/time: 12/07/17 13:15 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053547	1	12/15/17 15:54	12/15/17 16:06	KDW
Mercury by Method 7471A	WG1051887	1	12/12/17 09:39	12/13/17 02:27	EL
Metals (ICP) by Method 6010B	WG1052698	1	12/12/17 16:30	12/13/17 18:11	ST

EB-7 0' L956532-07 Solid

Collected by: Lacher | Collected date/time: 12/07/17 13:55 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053547	1	12/15/17 15:54	12/15/17 16:06	KDW
Mercury by Method 7471A	WG1051887	1	12/12/17 09:39	12/13/17 02:29	EL
Metals (ICP) by Method 6010B	WG1052698	1	12/12/17 16:30	12/13/17 18:14	ST

EB-8 0' L956532-08 Solid

Collected by: Lacher | Collected date/time: 12/07/17 14:40 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053547	1	12/15/17 15:54	12/15/17 16:06	KDW
Mercury by Method 7471A	WG1051887	2	12/12/17 09:39	12/13/17 04:47	EL
Metals (ICP) by Method 6010B	WG1052698	1	12/12/17 16:30	12/13/17 18:17	ST

EB-9 0' L956532-09 Solid

Collected by: Lacher | Collected date/time: 12/07/17 15:15 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053547	1	12/15/17 15:54	12/15/17 16:06	KDW
Mercury by Method 7471A	WG1051887	1	12/12/17 09:39	12/13/17 02:34	EL
Metals (ICP) by Method 6010B	WG1052698	1	12/12/17 16:30	12/13/17 18:21	ST

EB-10 0' L956532-10 Solid

Collected by: Lacher | Collected date/time: 12/08/17 09:10 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053547	1	12/15/17 15:54	12/15/17 16:06	KDW
Mercury by Method 7471A	WG1051887	1	12/12/17 09:39	12/13/17 02:37	EL
Metals (ICP) by Method 6010B	WG1052698	1	12/12/17 16:30	12/13/17 18:24	ST

EB-11 0' L956532-11 Solid

Collected by: Lacher | Collected date/time: 12/08/17 09:55 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053550	1	12/15/17 10:38	12/15/17 10:46	KDW
Mercury by Method 7471A	WG1051887	1	12/12/17 09:39	12/13/17 02:39	EL
Metals (ICP) by Method 6010B	WG1052698	1	12/12/17 16:30	12/13/17 18:27	ST

EB-12 0' L956532-12 Solid

Collected by: Lacher | Collected date/time: 12/08/17 10:40 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053550	1	12/15/17 10:38	12/15/17 10:46	KDW
Mercury by Method 7471A	WG1051887	1	12/12/17 09:39	12/13/17 02:42	EL
Metals (ICP) by Method 6010B	WG1052698	1	12/12/17 16:30	12/13/17 18:30	ST

EB-13 0' L956532-13 Solid

Collected by: Lacher | Collected date/time: 12/08/17 11:20 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053550	1	12/15/17 10:38	12/15/17 10:46	KDW
Mercury by Method 7471A	WG1051887	1	12/12/17 09:39	12/13/17 02:52	EL
Metals (ICP) by Method 6010B	WG1052698	1	12/12/17 16:30	12/13/17 18:33	ST

EB-14 0' L956532-14 Solid

Collected by: Lacher | Collected date/time: 12/08/17 11:35 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053550	1	12/15/17 10:38	12/15/17 10:46	KDW
Mercury by Method 7471A	WG1051887	1	12/12/17 09:39	12/13/17 02:55	EL
Metals (ICP) by Method 6010B	WG1052698	1	12/12/17 16:30	12/13/17 18:43	ST

EB-15 0' L956532-15 Solid

Collected by: Lacher | Collected date/time: 12/08/17 11:55 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053550	1	12/15/17 10:38	12/15/17 10:46	KDW
Mercury by Method 7471A	WG1051887	1	12/12/17 09:39	12/13/17 02:57	EL
Metals (ICP) by Method 6010B	WG1052698	1	12/12/17 16:30	12/13/17 18:46	ST

EB-16 0' L956532-16 Solid

Collected by: Lacher | Collected date/time: 12/08/17 12:05 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053550	1	12/15/17 10:38	12/15/17 10:46	KDW
Mercury by Method 7471A	WG1051887	1	12/12/17 09:39	12/13/17 03:00	EL
Metals (ICP) by Method 6010B	WG1052698	1	12/12/17 16:30	12/13/17 18:49	ST

EB-1 4' L956532-17 Solid

Collected by: Lacher | Collected date/time: 12/07/17 09:10 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053550	1	12/15/17 10:38	12/15/17 10:46	KDW
Mercury by Method 7471A	WG1051887	1	12/12/17 09:39	12/13/17 03:02	EL
Metals (ICP) by Method 6010B	WG1052698	1	12/12/17 16:30	12/13/17 18:52	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	100	12/17/17 09:43	12/20/17 15:47	KM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	20	12/17/17 09:43	12/18/17 20:26	KM

EB-1 8' L956532-18 Solid

Collected by: Lacher | Collected date/time: 12/07/17 09:10 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053550	1	12/15/17 10:38	12/15/17 10:46	KDW
Mercury by Method 7471A	WG1051887	1	12/12/17 09:39	12/13/17 03:05	EL
Metals (ICP) by Method 6010B	WG1052698	1	12/12/17 16:30	12/13/17 18:55	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	1	12/17/17 09:43	12/18/17 16:22	KM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	10	12/17/17 09:43	12/20/17 12:52	KM

EB-1 12' L956532-19 Solid

Collected by: Lacher | Collected date/time: 12/07/17 09:10 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053550	1	12/15/17 10:38	12/15/17 10:46	KDW
Mercury by Method 7471A	WG1051887	1	12/12/17 09:39	12/13/17 03:07	EL
Metals (ICP) by Method 6010B	WG1052698	1	12/12/17 16:30	12/13/17 18:58	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	1	12/17/17 09:43	12/18/17 11:53	KM

EB-2 4' L956532-20 Solid

Collected by: Lacher | Collected date/time: 12/07/17 10:00 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053550	1	12/15/17 10:38	12/15/17 10:46	KDW
Mercury by Method 7471A	WG1051887	2	12/12/17 09:39	12/13/17 04:50	EL
Metals (ICP) by Method 6010B	WG1052698	1	12/12/17 16:30	12/13/17 19:01	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	1	12/17/17 09:43	12/18/17 15:09	KM

EB-2 8' L956532-21 Solid

Collected by: Lacher | Collected date/time: 12/07/17 10:00 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053551	1	12/15/17 10:26	12/15/17 10:36	KDW
Mercury by Method 7471A	WG1051888	1	12/12/17 09:55	12/13/17 03:25	EL
Metals (ICP) by Method 6010B	WG1052705	1	12/12/17 16:25	12/13/17 19:36	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	1	12/17/17 09:43	12/18/17 12:18	KM

EB-2 12' L956532-22 Solid

Collected by: Lacher | Collected date/time: 12/07/17 10:00 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053551	1	12/15/17 10:26	12/15/17 10:36	KDW
Mercury by Method 7471A	WG1051888	1	12/12/17 09:55	12/13/17 03:33	EL
Metals (ICP) by Method 6010B	WG1052705	1	12/12/17 16:25	12/13/17 19:39	ST
Metals (ICP) by Method 6010B	WG1052705	5	12/12/17 16:25	12/13/17 22:09	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	1	12/17/17 09:43	12/18/17 12:42	KM

EB-3 4' L956532-23 Solid

Collected by: Lacher | Collected date/time: 12/07/17 10:40 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053551	1	12/15/17 10:26	12/15/17 10:36	KDW
Mercury by Method 7471A	WG1051888	1	12/12/17 09:55	12/13/17 03:35	EL
Metals (ICP) by Method 6010B	WG1052705	1	12/12/17 16:25	12/13/17 19:48	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	1	12/17/17 09:43	12/18/17 15:33	KM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	10	12/17/17 09:43	12/20/17 12:30	KM

EB-3 8' L956532-24 Solid

Collected by: Lacher | Collected date/time: 12/07/17 10:40 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053551	1	12/15/17 10:26	12/15/17 10:36	KDW
Mercury by Method 7471A	WG1051888	1	12/12/17 09:55	12/13/17 03:38	EL
Metals (ICP) by Method 6010B	WG1052705	1	12/12/17 16:25	12/13/17 19:52	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	1	12/17/17 09:43	12/18/17 15:57	KM

EB-3 8' L956532-24 Solid

Collected by: Lacher | Collected date/time: 12/07/17 10:40 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	50	12/17/17 09:43	12/20/17 15:03	KM

EB-3 12' L956532-25 Solid

Collected by: Lacher | Collected date/time: 12/07/17 10:40 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053551	1	12/15/17 10:26	12/15/17 10:36	KDW
Mercury by Method 7471A	WG1051888	1	12/12/17 09:55	12/13/17 03:41	EL
Metals (ICP) by Method 6010B	WG1052705	1	12/12/17 16:25	12/13/17 19:55	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	1	12/17/17 09:43	12/18/17 13:06	KM

EB-4 4' L956532-26 Solid

Collected by: Lacher | Collected date/time: 12/07/17 11:15 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053551	1	12/15/17 10:26	12/15/17 10:36	KDW
Mercury by Method 7471A	WG1051888	1	12/12/17 09:55	12/13/17 03:43	EL
Metals (ICP) by Method 6010B	WG1052705	1	12/12/17 16:25	12/13/17 19:58	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	1	12/17/17 09:43	12/18/17 18:00	KM

EB-4 8' L956532-27 Solid

Collected by: Lacher | Collected date/time: 12/07/17 11:45 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053551	1	12/15/17 10:26	12/15/17 10:36	KDW
Mercury by Method 7471A	WG1051888	1	12/12/17 09:55	12/13/17 03:46	EL
Metals (ICP) by Method 6010B	WG1052705	1	12/12/17 16:25	12/13/17 20:01	CCE
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	1	12/17/17 09:43	12/18/17 14:44	KM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	10	12/17/17 09:43	12/20/17 12:08	KM

EB-4 12' L956532-28 Solid

Collected by: Lacher | Collected date/time: 12/07/17 11:45 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053551	1	12/15/17 10:26	12/15/17 10:36	KDW
Mercury by Method 7471A	WG1051888	1	12/12/17 09:55	12/13/17 03:53	EL
Metals (ICP) by Method 6010B	WG1052705	1	12/12/17 16:25	12/13/17 19:20	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	1	12/17/17 09:43	12/18/17 18:24	KM

EB-5 4' L956532-29 Solid

Collected by: Lacher | Collected date/time: 12/07/17 12:30 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053551	1	12/15/17 10:26	12/15/17 10:36	KDW
Mercury by Method 7471A	WG1051888	1	12/12/17 09:55	12/13/17 03:56	EL
Metals (ICP) by Method 6010B	WG1052705	1	12/12/17 16:25	12/13/17 20:04	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	100	12/17/17 09:43	12/20/17 15:25	KM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	5	12/17/17 09:43	12/18/17 19:37	KM

EB-5 8' L956532-30 Solid

Collected by: Lacher | Collected date/time: 12/07/17 12:30 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053551	1	12/15/17 10:26	12/15/17 10:36	KDW
Mercury by Method 7471A	WG1051888	1	12/12/17 09:55	12/13/17 03:58	EL
Metals (ICP) by Method 6010B	WG1052705	1	12/12/17 16:25	12/13/17 20:07	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	20	12/17/17 09:43	12/20/17 14:41	KM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	5	12/17/17 09:43	12/18/17 20:02	KM

EB-5 12' L956532-31 Solid

Collected by: Lacher | Collected date/time: 12/07/17 12:30 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053553	1	12/15/17 10:03	12/15/17 10:13	KDW
Mercury by Method 7471A	WG1051888	2	12/12/17 09:55	12/13/17 08:21	ABL
Metals (ICP) by Method 6010B	WG1052705	1	12/12/17 16:25	12/13/17 20:10	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	1	12/17/17 09:43	12/18/17 17:35	KM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	10	12/17/17 09:43	12/20/17 13:58	KM

EB-6 4' L956532-32 Solid

Collected by: Lacher | Collected date/time: 12/07/17 13:15 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053553	1	12/15/17 10:03	12/15/17 10:13	KDW
Mercury by Method 7471A	WG1051888	1	12/12/17 09:55	12/13/17 04:04	EL
Metals (ICP) by Method 6010B	WG1052705	1	12/12/17 16:25	12/13/17 20:13	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	1	12/17/17 09:43	12/18/17 18:48	KM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	10	12/17/17 09:43	12/20/17 14:19	KM

EB-6 8' L956532-33 Solid

Collected by: Lacher | Collected date/time: 12/07/17 13:15 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053553	1	12/15/17 10:03	12/15/17 10:13	KDW
Mercury by Method 7471A	WG1051888	1	12/12/17 09:55	12/13/17 04:06	EL
Metals (ICP) by Method 6010B	WG1052705	1	12/12/17 16:25	12/13/17 20:16	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	1	12/17/17 09:43	12/18/17 13:31	KM

EB-6 12' L956532-34 Solid

Collected by: Lacher | Collected date/time: 12/07/17 13:15 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053553	1	12/15/17 10:03	12/15/17 10:13	KDW
Mercury by Method 7471A	WG1051888	1	12/12/17 09:55	12/13/17 04:09	EL
Metals (ICP) by Method 6010B	WG1052705	1	12/12/17 16:25	12/13/17 20:26	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	1	12/17/17 09:43	12/18/17 13:55	KM

EB-7 4' L956532-35 Solid

Collected by: Lacher | Collected date/time: 12/07/17 13:55 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053553	1	12/15/17 10:03	12/15/17 10:13	KDW
Mercury by Method 7471A	WG1051888	1	12/12/17 09:55	12/13/17 04:11	EL
Metals (ICP) by Method 6010B	WG1052705	1	12/12/17 16:25	12/13/17 20:29	RDS

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

EB-7 4' L956532-35 Solid

Collected by: Lacher | Collected date/time: 12/07/17 13:55 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	5	12/17/17 09:43	12/18/17 19:13	KM

EB-7 8' L956532-36 Solid

Collected by: Lacher | Collected date/time: 12/07/17 13:55 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053553	1	12/15/17 10:03	12/15/17 10:13	KDW
Mercury by Method 7471A	WG1051888	1	12/12/17 09:55	12/13/17 04:14	EL
Metals (ICP) by Method 6010B	WG1052705	1	12/12/17 16:25	12/13/17 20:32	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053751	1	12/17/17 09:43	12/18/17 14:20	KM

EB-7 12' L956532-37 Solid

Collected by: Lacher | Collected date/time: 12/07/17 13:55 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053553	1	12/15/17 10:03	12/15/17 10:13	KDW
Mercury by Method 7471A	WG1051888	1	12/12/17 09:55	12/13/17 04:16	EL
Metals (ICP) by Method 6010B	WG1052705	1	12/12/17 16:25	12/13/17 20:35	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053752	10	12/17/17 06:46	12/19/17 06:34	CLG

EB-8 4' L956532-38 Solid

Collected by: Lacher | Collected date/time: 12/07/17 14:40 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053553	1	12/15/17 10:03	12/15/17 10:13	KDW
Mercury by Method 7471A	WG1051888	1	12/12/17 09:55	12/13/17 04:27	EL
Metals (ICP) by Method 6010B	WG1052705	1	12/12/17 16:25	12/13/17 20:39	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053752	10	12/17/17 06:46	12/19/17 07:40	CLG

EB-8 8' L956532-39 Solid

Collected by: Lacher | Collected date/time: 12/07/17 14:40 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053553	1	12/15/17 10:03	12/15/17 10:13	KDW
Mercury by Method 7471A	WG1051888	1	12/12/17 09:55	12/13/17 04:29	EL
Metals (ICP) by Method 6010B	WG1052705	1	12/12/17 16:25	12/13/17 20:42	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053752	1	12/17/17 06:46	12/19/17 00:15	CLG

EB-8 12' L956532-40 Solid

Collected by: Lacher | Collected date/time: 12/07/17 14:40 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053553	1	12/15/17 10:03	12/15/17 10:13	KDW
Mercury by Method 7471A	WG1051888	1	12/12/17 09:55	12/13/17 04:32	EL
Metals (ICP) by Method 6010B	WG1052705	1	12/12/17 16:25	12/13/17 20:45	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053752	1	12/17/17 06:46	12/19/17 00:37	CLG

EB-9 4' L956532-41 Solid

Collected by: Lacher | Collected date/time: 12/07/17 15:15 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053554	1	12/14/17 14:24	12/14/17 14:33	JD
Mercury by Method 7471A	WG1051889	1	12/12/17 13:04	12/13/17 09:02	ABL
Metals (ICP) by Method 6010B	WG1051792	1	12/14/17 09:53	12/14/17 15:16	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053752	1	12/17/17 06:46	12/19/17 01:00	CLG

EB-9 8' L956532-42 Solid

Collected by: Lacher | Collected date/time: 12/07/17 15:15 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053554	1	12/14/17 14:24	12/14/17 14:33	JD
Mercury by Method 7471A	WG1051889	5	12/12/17 13:04	12/13/17 13:09	ABL
Metals (ICP) by Method 6010B	WG1051792	1	12/14/17 09:53	12/14/17 15:31	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053752	1	12/17/17 06:46	12/19/17 01:22	CLG

EB-9 12' L956532-43 Solid

Collected by: Lacher | Collected date/time: 12/07/17 15:15 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053554	1	12/14/17 14:24	12/14/17 14:33	JD
Mercury by Method 7471A	WG1051889	1	12/12/17 13:04	12/13/17 09:12	ABL
Metals (ICP) by Method 6010B	WG1051792	1	12/14/17 09:53	12/14/17 15:35	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053752	1	12/17/17 06:46	12/19/17 01:44	CLG

EB-10 4' L956532-44 Solid

Collected by: Lacher | Collected date/time: 12/08/17 09:10 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053554	1	12/14/17 14:24	12/14/17 14:33	JD
Mercury by Method 7471A	WG1051889	1	12/12/17 13:04	12/13/17 09:15	ABL
Metals (ICP) by Method 6010B	WG1051792	1	12/14/17 09:53	12/14/17 15:45	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053752	1	12/17/17 06:46	12/19/17 02:07	CLG

EB-10 8' L956532-45 Solid

Collected by: Lacher | Collected date/time: 12/08/17 09:10 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053554	1	12/14/17 14:24	12/14/17 14:33	JD
Mercury by Method 7471A	WG1051889	1	12/12/17 13:04	12/13/17 09:22	ABL
Metals (ICP) by Method 6010B	WG1051792	1	12/14/17 09:53	12/14/17 15:48	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053752	1	12/17/17 06:46	12/19/17 04:20	CLG

EB-10 12' L956532-46 Solid

Collected by: Lacher | Collected date/time: 12/08/17 09:10 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053554	1	12/14/17 14:24	12/14/17 14:33	JD
Mercury by Method 7471A	WG1051889	1	12/12/17 13:04	12/13/17 09:25	ABL
Metals (ICP) by Method 6010B	WG1051792	1	12/14/17 09:53	12/14/17 15:51	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053752	1	12/17/17 06:46	12/19/17 02:29	CLG

EB-11 4' L956532-47 Solid

Collected by: Lacher | Collected date/time: 12/08/17 09:55 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053554	1	12/14/17 14:24	12/14/17 14:33	JD
Mercury by Method 7471A	WG1051889	1	12/12/17 13:04	12/13/17 09:27	ABL
Metals (ICP) by Method 6010B	WG1051792	1	12/14/17 09:53	12/14/17 15:55	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053752	1	12/17/17 06:46	12/19/17 05:27	CLG

EB-11 8' L956532-48 Solid

Collected by: Lacher | Collected date/time: 12/08/17 09:55 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053554	1	12/14/17 14:24	12/14/17 14:33	JD
Mercury by Method 7471A	WG1051889	1	12/12/17 13:04	12/13/17 09:30	ABL
Metals (ICP) by Method 6010B	WG1051792	1	12/14/17 09:53	12/14/17 15:58	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053752	1	12/17/17 06:46	12/19/17 02:51	CLG

EB-11 12' L956532-49 Solid

Collected by: Lacher | Collected date/time: 12/08/17 09:55 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053554	1	12/14/17 14:24	12/14/17 14:33	JD
Mercury by Method 7471A	WG1051889	1	12/12/17 13:04	12/13/17 09:33	ABL
Metals (ICP) by Method 6010B	WG1051792	1	12/14/17 09:53	12/14/17 16:01	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053752	1	12/17/17 06:46	12/19/17 03:14	CLG

EB-12 4' L956532-50 Solid

Collected by: Lacher | Collected date/time: 12/08/17 10:40 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053554	1	12/14/17 14:24	12/14/17 14:33	JD
Mercury by Method 7471A	WG1051889	1	12/12/17 13:04	12/13/17 09:35	ABL
Metals (ICP) by Method 6010B	WG1051792	1	12/14/17 09:53	12/14/17 16:04	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053752	1	12/17/17 06:46	12/19/17 05:49	CLG

EB-12 8' L956532-51 Solid

Collected by: Lacher | Collected date/time: 12/08/17 10:40 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053955	1	12/15/17 10:27	12/15/17 10:42	JD
Mercury by Method 7471A	WG1051889	1	12/12/17 13:04	12/13/17 09:38	ABL
Metals (ICP) by Method 6010B	WG1051792	1	12/14/17 09:53	12/14/17 16:08	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053752	1	12/17/17 06:46	12/19/17 03:36	CLG

EB-12 12' L956532-52 Solid

Collected by: Lacher | Collected date/time: 12/08/17 10:40 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053955	1	12/15/17 10:27	12/15/17 10:42	JD
Mercury by Method 7471A	WG1051889	1	12/12/17 13:04	12/13/17 09:40	ABL
Metals (ICP) by Method 6010B	WG1051792	1	12/14/17 09:53	12/14/17 16:11	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053752	1	12/17/17 06:46	12/19/17 03:58	CLG

EB-13 4-6' L956532-53 Solid

Collected by: Lacher | Collected date/time: 12/08/17 11:20 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053955	1	12/15/17 10:27	12/15/17 10:42	JD
Mercury by Method 7471A	WG1051889	1	12/12/17 13:04	12/13/17 09:43	ABL
Metals (ICP) by Method 6010B	WG1051792	1	12/14/17 09:53	12/14/17 16:14	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053752	10	12/17/17 06:46	12/19/17 06:12	CLG

EB-14 6-8' L956532-54 Solid

Collected by: Lacher | Collected date/time: 12/08/17 11:35 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053955	1	12/15/17 10:27	12/15/17 10:42	JD
Mercury by Method 7471A	WG1051889	1	12/12/17 13:04	12/13/17 09:45	ABL
Metals (ICP) by Method 6010B	WG1051792	1	12/14/17 09:53	12/14/17 16:24	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053752	10	12/17/17 06:46	12/19/17 07:18	CLG

EB-15 2-4' L956532-55 Solid

Collected by: Lacher | Collected date/time: 12/08/17 11:55 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053955	1	12/15/17 10:27	12/15/17 10:42	JD
Mercury by Method 7471A	WG1051889	1	12/12/17 13:04	12/13/17 09:55	ABL
Metals (ICP) by Method 6010B	WG1051792	1	12/14/17 09:53	12/14/17 16:28	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053752	10	12/17/17 06:46	12/19/17 06:56	CLG

EB-16 6-8' L956532-56 Solid

Collected by: Lacher | Collected date/time: 12/08/17 12:05 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1053955	1	12/15/17 10:27	12/15/17 10:42	JD
Mercury by Method 7471A	WG1051889	2	12/12/17 13:04	12/13/17 13:11	ABL
Metals (ICP) by Method 6010B	WG1051792	1	12/14/17 09:53	12/14/17 16:31	ST
Metals (ICP) by Method 6010B	WG1051792	20	12/14/17 09:53	12/14/17 23:25	ST
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1053752	20	12/17/17 06:46	12/19/17 08:02	CLG

EB-1 L956532-57 GW

Collected by: Lacher | Collected date/time: 12/07/17 09:20 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1051876	10	12/13/17 03:18	12/13/17 11:57	EL
Metals (ICP) by Method 6010B	WG1052534	1	12/12/17 16:10	12/13/17 05:00	RDS
Metals (ICP) by Method 6010B	WG1052534	5	12/12/17 16:10	12/13/17 10:11	CCE
Metals (ICPMS) by Method 6020	WG1052833	1	12/13/17 17:28	12/15/17 19:38	JPD
Metals (ICPMS) by Method 6020	WG1052833	1	12/13/17 17:28	12/16/17 21:39	WBD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1052776	1.33	12/13/17 16:13	12/14/17 19:49	KM

EB-2 L956532-58 GW

Collected by: Lacher | Collected date/time: 12/07/17 10:10 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1051876	1	12/13/17 03:18	12/13/17 11:59	EL
Metals (ICP) by Method 6010B	WG1052534	1	12/12/17 16:10	12/13/17 05:03	TRB
Metals (ICPMS) by Method 6020	WG1052833	1	12/13/17 17:28	12/15/17 19:41	JPD

EB-2 L956532-58 GW

Collected by: Lacher | Collected date/time: 12/07/17 10:10 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1052776	1	12/13/17 16:13	12/15/17 00:38	KM

EB-3 L956532-59 GW

Collected by: Lacher | Collected date/time: 12/07/17 11:00 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1051876	1	12/13/17 03:18	12/13/17 12:01	EL
Metals (ICP) by Method 6010B	WG1052534	1	12/12/17 16:10	12/13/17 05:07	TRB
Metals (ICPMS) by Method 6020	WG1052833	1	12/13/17 17:28	12/15/17 19:45	JPD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1052776	1	12/13/17 16:13	12/14/17 20:51	KM

EB-4 L956532-60 GW

Collected by: Lacher | Collected date/time: 12/07/17 12:00 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1051876	1	12/13/17 03:18	12/13/17 12:03	EL
Metals (ICP) by Method 6010B	WG1052534	1	12/12/17 16:10	12/13/17 05:10	TRB
Metals (ICPMS) by Method 6020	WG1052833	1	12/13/17 17:28	12/15/17 19:56	JPD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1052776	1	12/13/17 16:13	12/14/17 21:11	KM

EB-5 L956532-61 GW

Collected by: Lacher | Collected date/time: 12/07/17 12:40 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1051876	1	12/13/17 03:18	12/13/17 12:13	EL
Metals (ICP) by Method 6010B	WG1052534	1	12/12/17 16:10	12/13/17 05:14	TRB
Metals (ICPMS) by Method 6020	WG1052833	1	12/13/17 17:28	12/15/17 20:00	JPD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1052776	1	12/13/17 16:13	12/14/17 21:32	KM

EB-6 L956532-62 GW

Collected by: Lacher | Collected date/time: 12/07/17 13:25 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1051876	1	12/13/17 03:18	12/13/17 12:15	EL
Metals (ICP) by Method 6010B	WG1052534	1	12/12/17 16:10	12/13/17 05:17	TRB
Metals (ICPMS) by Method 6020	WG1052833	1	12/13/17 17:28	12/15/17 20:03	JPD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1052776	1	12/13/17 16:13	12/14/17 21:53	KM

EB-7 L956532-63 GW

Collected by: Lacher | Collected date/time: 12/07/17 14:05 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1051876	1	12/13/17 03:18	12/13/17 12:17	EL
Metals (ICP) by Method 6010B	WG1052534	1	12/12/17 16:10	12/13/17 05:21	TRB
Metals (ICPMS) by Method 6020	WG1052833	1	12/13/17 17:28	12/15/17 20:07	JPD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1052776	1	12/13/17 16:13	12/14/17 22:13	KM

EB-8 L956532-64 GW

Collected by: Lacher | Collected date/time: 12/07/17 14:50 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1051876	1	12/13/17 03:18	12/13/17 12:19	EL
Metals (ICP) by Method 6010B	WG1052534	1	12/12/17 16:10	12/13/17 05:24	TRB
Metals (ICPMS) by Method 6020	WG1052833	1	12/13/17 17:28	12/15/17 20:11	JPD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1052776	1	12/13/17 16:13	12/14/17 22:34	KM

EB-9 L956532-65 GW

Collected by: Lacher | Collected date/time: 12/07/17 15:25 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1051876	2	12/13/17 03:18	12/13/17 17:19	EL
Metals (ICP) by Method 6010B	WG1052534	1	12/12/17 16:10	12/13/17 05:34	TRB
Metals (ICPMS) by Method 6020	WG1052833	1	12/13/17 17:28	12/15/17 20:15	JPD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1052776	1.14	12/13/17 16:13	12/14/17 23:36	KM

EB-10 L956532-66 GW

Collected by: Lacher | Collected date/time: 12/08/17 09:20 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1051876	1	12/13/17 03:18	12/13/17 12:24	EL
Metals (ICP) by Method 6010B	WG1052534	1	12/12/17 16:10	12/13/17 05:38	TRB
Metals (ICPMS) by Method 6020	WG1052833	1	12/13/17 17:28	12/15/17 20:18	JPD
Metals (ICPMS) by Method 6020	WG1052833	1	12/13/17 17:28	12/16/17 21:43	WBD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1052776	1.14	12/13/17 16:13	12/14/17 23:57	KM

EB-11 L956532-67 GW

Collected by: Lacher | Collected date/time: 12/08/17 10:05 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1051876	1	12/13/17 03:18	12/13/17 12:26	EL
Metals (ICP) by Method 6010B	WG1052534	1	12/12/17 16:10	12/13/17 05:41	TRB
Metals (ICPMS) by Method 6020	WG1052833	1	12/13/17 17:28	12/15/17 20:22	JPD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1052776	1	12/13/17 16:13	12/14/17 22:55	KM

EB-12 L956532-68 GW

Collected by: Lacher | Collected date/time: 12/08/17 10:45 | Received date/time: 12/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1051876	1	12/13/17 03:18	12/13/17 12:29	EL
Metals (ICP) by Method 6010B	WG1052534	1	12/12/17 16:10	12/13/17 05:45	TRB
Metals (ICPMS) by Method 6020	WG1052833	1	12/13/17 17:28	12/15/17 20:25	JPD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1052776	1.14	12/13/17 16:13	12/15/17 00:18	KM

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

T. Alan Harvill
Technical Service Representative

Sample Handling and Receiving

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

ESC Sample ID	Project Sample ID	Method
L956532-57	EB-1	7470A

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.2		1	12/15/2017 16:06	WG1053547

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.182		0.0253	1	12/13/2017 02:04	WG1051887

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	11700		12.6	1	12/13/2017 17:53	WG1052698
Antimony	ND		2.53	1	12/13/2017 17:53	WG1052698
Arsenic	17.2		2.53	1	12/13/2017 17:53	WG1052698
Barium	154		0.631	1	12/13/2017 17:53	WG1052698
Beryllium	0.923		0.253	1	12/13/2017 17:53	WG1052698
Cadmium	1.01		0.631	1	12/13/2017 17:53	WG1052698
Chromium	16.6		1.26	1	12/13/2017 17:53	WG1052698
Cobalt	10.8		1.26	1	12/13/2017 17:53	WG1052698
Copper	43.7		2.53	1	12/13/2017 17:53	WG1052698
Lead	150		0.631	1	12/13/2017 17:53	WG1052698
Nickel	31.4		2.53	1	12/13/2017 17:53	WG1052698
Selenium	ND		2.53	1	12/13/2017 17:53	WG1052698
Silver	ND		1.26	1	12/13/2017 17:53	WG1052698
Thallium	ND		2.53	1	12/13/2017 17:53	WG1052698
Vanadium	30.6		2.53	1	12/13/2017 17:53	WG1052698
Zinc	196		6.31	1	12/13/2017 17:53	WG1052698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.1		1	12/15/2017 16:06	WG1053547

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.256		0.0256	1	12/13/2017 02:11	WG1051887

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	12800		12.8	1	12/13/2017 17:56	WG1052698
Antimony	ND		2.56	1	12/13/2017 17:56	WG1052698
Arsenic	17.9		2.56	1	12/13/2017 17:56	WG1052698
Barium	227		0.641	1	12/13/2017 17:56	WG1052698
Beryllium	1.32		0.256	1	12/13/2017 17:56	WG1052698
Cadmium	1.86		0.641	1	12/13/2017 17:56	WG1052698
Chromium	19.3		1.28	1	12/13/2017 17:56	WG1052698
Cobalt	11.1		1.28	1	12/13/2017 17:56	WG1052698
Copper	81.5		2.56	1	12/13/2017 17:56	WG1052698
Lead	273		0.641	1	12/13/2017 17:56	WG1052698
Nickel	32.8		2.56	1	12/13/2017 17:56	WG1052698
Selenium	ND		2.56	1	12/13/2017 17:56	WG1052698
Silver	ND		1.28	1	12/13/2017 17:56	WG1052698
Thallium	ND		2.56	1	12/13/2017 17:56	WG1052698
Vanadium	35.5		2.56	1	12/13/2017 17:56	WG1052698
Zinc	337		6.41	1	12/13/2017 17:56	WG1052698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.9		1	12/15/2017 16:06	WG1053547

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.572		0.0250	1	12/13/2017 02:19	WG1051887

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	11800		12.5	1	12/13/2017 18:05	WG1052698
Antimony	ND		2.50	1	12/13/2017 18:05	WG1052698
Arsenic	28.2		2.50	1	12/13/2017 18:05	WG1052698
Barium	311		0.626	1	12/13/2017 18:05	WG1052698
Beryllium	1.24		0.250	1	12/13/2017 18:05	WG1052698
Cadmium	2.48		0.626	1	12/13/2017 18:05	WG1052698
Chromium	22.5		1.25	1	12/13/2017 18:05	WG1052698
Cobalt	12.1		1.25	1	12/13/2017 18:05	WG1052698
Copper	128		2.50	1	12/13/2017 18:05	WG1052698
Lead	507		0.626	1	12/13/2017 18:05	WG1052698
Nickel	36.5		2.50	1	12/13/2017 18:05	WG1052698
Selenium	ND		2.50	1	12/13/2017 18:05	WG1052698
Silver	ND		1.25	1	12/13/2017 18:05	WG1052698
Thallium	ND		2.50	1	12/13/2017 18:05	WG1052698
Vanadium	33.3		2.50	1	12/13/2017 18:05	WG1052698
Zinc	596		6.26	1	12/13/2017 18:05	WG1052698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.2		1	12/15/2017 16:06	WG1053547

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0219		0.0215	1	12/13/2017 02:21	WG1051887

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	1380		10.7	1	12/13/2017 17:37	WG1052698
Antimony	ND		2.15	1	12/13/2017 17:37	WG1052698
Arsenic	3.80		2.15	1	12/13/2017 17:37	WG1052698
Barium	22.7		0.537	1	12/13/2017 17:37	WG1052698
Beryllium	ND		0.215	1	12/13/2017 17:37	WG1052698
Cadmium	ND		0.537	1	12/13/2017 17:37	WG1052698
Chromium	5.39		1.07	1	12/13/2017 17:37	WG1052698
Cobalt	1.07		1.07	1	12/13/2017 17:37	WG1052698
Copper	4.82		2.15	1	12/13/2017 17:37	WG1052698
Lead	9.88		0.537	1	12/13/2017 17:37	WG1052698
Nickel	7.41		2.15	1	12/13/2017 17:37	WG1052698
Selenium	ND		2.15	1	12/13/2017 17:37	WG1052698
Silver	ND		1.07	1	12/13/2017 17:37	WG1052698
Thallium	ND		2.15	1	12/13/2017 17:37	WG1052698
Vanadium	9.38		2.15	1	12/13/2017 17:37	WG1052698
Zinc	18.4		5.37	1	12/13/2017 17:37	WG1052698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.5		1	12/15/2017 16:06	WG1053547

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.561		0.0252	1	12/13/2017 02:24	WG1051887

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	11900		12.6	1	12/13/2017 18:08	WG1052698
Antimony	ND		2.52	1	12/13/2017 18:08	WG1052698
Arsenic	25.8		2.52	1	12/13/2017 18:08	WG1052698
Barium	424		0.629	1	12/13/2017 18:08	WG1052698
Beryllium	1.86		0.252	1	12/13/2017 18:08	WG1052698
Cadmium	2.41		0.629	1	12/13/2017 18:08	WG1052698
Chromium	27.0		1.26	1	12/13/2017 18:08	WG1052698
Cobalt	14.4		1.26	1	12/13/2017 18:08	WG1052698
Copper	182		2.52	1	12/13/2017 18:08	WG1052698
Lead	1060		0.629	1	12/13/2017 18:08	WG1052698
Nickel	39.1		2.52	1	12/13/2017 18:08	WG1052698
Selenium	ND		2.52	1	12/13/2017 18:08	WG1052698
Silver	ND		1.26	1	12/13/2017 18:08	WG1052698
Thallium	ND		2.52	1	12/13/2017 18:08	WG1052698
Vanadium	35.3		2.52	1	12/13/2017 18:08	WG1052698
Zinc	754		6.29	1	12/13/2017 18:08	WG1052698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.8		1	12/15/2017 16:06	WG1053547

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.207		0.0251	1	12/13/2017 02:27	WG1051887

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	10200		12.5	1	12/13/2017 18:11	WG1052698
Antimony	ND		2.51	1	12/13/2017 18:11	WG1052698
Arsenic	9.90		2.51	1	12/13/2017 18:11	WG1052698
Barium	120		0.627	1	12/13/2017 18:11	WG1052698
Beryllium	0.573		0.251	1	12/13/2017 18:11	WG1052698
Cadmium	0.915		0.627	1	12/13/2017 18:11	WG1052698
Chromium	25.6		1.25	1	12/13/2017 18:11	WG1052698
Cobalt	8.62		1.25	1	12/13/2017 18:11	WG1052698
Copper	32.8		2.51	1	12/13/2017 18:11	WG1052698
Lead	98.5		0.627	1	12/13/2017 18:11	WG1052698
Nickel	25.0		2.51	1	12/13/2017 18:11	WG1052698
Selenium	ND		2.51	1	12/13/2017 18:11	WG1052698
Silver	ND		1.25	1	12/13/2017 18:11	WG1052698
Thallium	ND		2.51	1	12/13/2017 18:11	WG1052698
Vanadium	27.2		2.51	1	12/13/2017 18:11	WG1052698
Zinc	145		6.27	1	12/13/2017 18:11	WG1052698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.9		1	12/15/2017 16:06	WG1053547

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	1.00		0.0247	1	12/13/2017 02:29	WG1051887

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	10300		12.4	1	12/13/2017 18:14	WG1052698
Antimony	ND		2.47	1	12/13/2017 18:14	WG1052698
Arsenic	14.1		2.47	1	12/13/2017 18:14	WG1052698
Barium	173		0.618	1	12/13/2017 18:14	WG1052698
Beryllium	0.883		0.247	1	12/13/2017 18:14	WG1052698
Cadmium	1.06		0.618	1	12/13/2017 18:14	WG1052698
Chromium	17.6		1.24	1	12/13/2017 18:14	WG1052698
Cobalt	7.85		1.24	1	12/13/2017 18:14	WG1052698
Copper	56.2		2.47	1	12/13/2017 18:14	WG1052698
Lead	200		0.618	1	12/13/2017 18:14	WG1052698
Nickel	22.5		2.47	1	12/13/2017 18:14	WG1052698
Selenium	ND		2.47	1	12/13/2017 18:14	WG1052698
Silver	ND		1.24	1	12/13/2017 18:14	WG1052698
Thallium	ND		2.47	1	12/13/2017 18:14	WG1052698
Vanadium	26.8		2.47	1	12/13/2017 18:14	WG1052698
Zinc	271		6.18	1	12/13/2017 18:14	WG1052698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.9		1	12/15/2017 16:06	WG1053547

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	1.80		0.0507	2	12/13/2017 04:47	WG1051887

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	11000		12.7	1	12/13/2017 18:17	WG1052698
Antimony	ND		2.53	1	12/13/2017 18:17	WG1052698
Arsenic	25.0		2.53	1	12/13/2017 18:17	WG1052698
Barium	336		0.634	1	12/13/2017 18:17	WG1052698
Beryllium	2.14		0.253	1	12/13/2017 18:17	WG1052698
Cadmium	1.79		0.634	1	12/13/2017 18:17	WG1052698
Chromium	24.1		1.27	1	12/13/2017 18:17	WG1052698
Cobalt	11.0		1.27	1	12/13/2017 18:17	WG1052698
Copper	142		2.53	1	12/13/2017 18:17	WG1052698
Lead	1020		0.634	1	12/13/2017 18:17	WG1052698
Nickel	30.9		2.53	1	12/13/2017 18:17	WG1052698
Selenium	ND		2.53	1	12/13/2017 18:17	WG1052698
Silver	ND		1.27	1	12/13/2017 18:17	WG1052698
Thallium	ND		2.53	1	12/13/2017 18:17	WG1052698
Vanadium	35.9		2.53	1	12/13/2017 18:17	WG1052698
Zinc	566		6.34	1	12/13/2017 18:17	WG1052698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	62.5		1	12/15/2017 16:06	WG1053547

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0945		0.0320	1	12/13/2017 02:34	WG1051887

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	22600		16.0	1	12/13/2017 18:21	WG1052698
Antimony	ND		3.20	1	12/13/2017 18:21	WG1052698
Arsenic	26.3		3.20	1	12/13/2017 18:21	WG1052698
Barium	364		0.800	1	12/13/2017 18:21	WG1052698
Beryllium	5.04		0.320	1	12/13/2017 18:21	WG1052698
Cadmium	0.962		0.800	1	12/13/2017 18:21	WG1052698
Chromium	26.6		1.60	1	12/13/2017 18:21	WG1052698
Cobalt	15.0		1.60	1	12/13/2017 18:21	WG1052698
Copper	76.8		3.20	1	12/13/2017 18:21	WG1052698
Lead	278		0.800	1	12/13/2017 18:21	WG1052698
Nickel	31.1		3.20	1	12/13/2017 18:21	WG1052698
Selenium	ND		3.20	1	12/13/2017 18:21	WG1052698
Silver	ND		1.60	1	12/13/2017 18:21	WG1052698
Thallium	ND		3.20	1	12/13/2017 18:21	WG1052698
Vanadium	56.7		3.20	1	12/13/2017 18:21	WG1052698
Zinc	232		8.00	1	12/13/2017 18:21	WG1052698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.8		1	12/15/2017 16:06	WG1053547

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.166		0.0245	1	12/13/2017 02:37	WG1051887

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	13800		12.2	1	12/13/2017 18:24	WG1052698
Antimony	ND		2.45	1	12/13/2017 18:24	WG1052698
Arsenic	17.3		2.45	1	12/13/2017 18:24	WG1052698
Barium	203		0.611	1	12/13/2017 18:24	WG1052698
Beryllium	1.03		0.245	1	12/13/2017 18:24	WG1052698
Cadmium	ND		0.611	1	12/13/2017 18:24	WG1052698
Chromium	16.3		1.22	1	12/13/2017 18:24	WG1052698
Cobalt	15.2		1.22	1	12/13/2017 18:24	WG1052698
Copper	57.5		2.45	1	12/13/2017 18:24	WG1052698
Lead	115		0.611	1	12/13/2017 18:24	WG1052698
Nickel	28.9		2.45	1	12/13/2017 18:24	WG1052698
Selenium	ND		2.45	1	12/13/2017 18:24	WG1052698
Silver	ND		1.22	1	12/13/2017 18:24	WG1052698
Thallium	ND		2.45	1	12/13/2017 18:24	WG1052698
Vanadium	35.6		2.45	1	12/13/2017 18:24	WG1052698
Zinc	152		6.11	1	12/13/2017 18:24	WG1052698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.9		1	12/15/2017 10:46	WG1053550

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.230		0.0257	1	12/13/2017 02:39	WG1051887

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	14800		12.8	1	12/13/2017 18:27	WG1052698
Antimony	ND		2.57	1	12/13/2017 18:27	WG1052698
Arsenic	17.6		2.57	1	12/13/2017 18:27	WG1052698
Barium	278		0.642	1	12/13/2017 18:27	WG1052698
Beryllium	1.18		0.257	1	12/13/2017 18:27	WG1052698
Cadmium	1.14		0.642	1	12/13/2017 18:27	WG1052698
Chromium	22.9		1.28	1	12/13/2017 18:27	WG1052698
Cobalt	12.0		1.28	1	12/13/2017 18:27	WG1052698
Copper	124		2.57	1	12/13/2017 18:27	WG1052698
Lead	240		0.642	1	12/13/2017 18:27	WG1052698
Nickel	29.1		2.57	1	12/13/2017 18:27	WG1052698
Selenium	ND		2.57	1	12/13/2017 18:27	WG1052698
Silver	ND		1.28	1	12/13/2017 18:27	WG1052698
Thallium	ND		2.57	1	12/13/2017 18:27	WG1052698
Vanadium	36.5		2.57	1	12/13/2017 18:27	WG1052698
Zinc	342		6.42	1	12/13/2017 18:27	WG1052698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.1		1	12/15/2017 10:46	WG1053550

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.350		0.0232	1	12/13/2017 02:42	WG1051887

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	12200		11.6	1	12/13/2017 18:30	WG1052698
Antimony	ND		2.32	1	12/13/2017 18:30	WG1052698
Arsenic	15.2		2.32	1	12/13/2017 18:30	WG1052698
Barium	215		0.580	1	12/13/2017 18:30	WG1052698
Beryllium	0.856		0.232	1	12/13/2017 18:30	WG1052698
Cadmium	1.24		0.580	1	12/13/2017 18:30	WG1052698
Chromium	19.5		1.16	1	12/13/2017 18:30	WG1052698
Cobalt	10.6		1.16	1	12/13/2017 18:30	WG1052698
Copper	64.5		2.32	1	12/13/2017 18:30	WG1052698
Lead	222		0.580	1	12/13/2017 18:30	WG1052698
Nickel	31.7		2.32	1	12/13/2017 18:30	WG1052698
Selenium	ND		2.32	1	12/13/2017 18:30	WG1052698
Silver	ND		1.16	1	12/13/2017 18:30	WG1052698
Thallium	ND		2.32	1	12/13/2017 18:30	WG1052698
Vanadium	32.4		2.32	1	12/13/2017 18:30	WG1052698
Zinc	281		5.80	1	12/13/2017 18:30	WG1052698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.3		1	12/15/2017 10:46	WG1053550

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.143		0.0255	1	12/13/2017 02:52	WG1051887

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	9890		12.8	1	12/13/2017 18:33	WG1052698
Antimony	ND		2.55	1	12/13/2017 18:33	WG1052698
Arsenic	49.7		2.55	1	12/13/2017 18:33	WG1052698
Barium	305		0.639	1	12/13/2017 18:33	WG1052698
Beryllium	1.99		0.255	1	12/13/2017 18:33	WG1052698
Cadmium	ND		0.639	1	12/13/2017 18:33	WG1052698
Chromium	17.7		1.28	1	12/13/2017 18:33	WG1052698
Cobalt	10.6		1.28	1	12/13/2017 18:33	WG1052698
Copper	108		2.55	1	12/13/2017 18:33	WG1052698
Lead	296		0.639	1	12/13/2017 18:33	WG1052698
Nickel	27.5		2.55	1	12/13/2017 18:33	WG1052698
Selenium	ND		2.55	1	12/13/2017 18:33	WG1052698
Silver	ND		1.28	1	12/13/2017 18:33	WG1052698
Thallium	ND		2.55	1	12/13/2017 18:33	WG1052698
Vanadium	47.1		2.55	1	12/13/2017 18:33	WG1052698
Zinc	220		6.39	1	12/13/2017 18:33	WG1052698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.7		1	12/15/2017 10:46	WG1053550

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.167		0.0242	1	12/13/2017 02:55	WG1051887

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	12800		12.1	1	12/13/2017 18:43	WG1052698
Antimony	ND		2.42	1	12/13/2017 18:43	WG1052698
Arsenic	30.9		2.42	1	12/13/2017 18:43	WG1052698
Barium	191		0.605	1	12/13/2017 18:43	WG1052698
Beryllium	1.03		0.242	1	12/13/2017 18:43	WG1052698
Cadmium	1.07		0.605	1	12/13/2017 18:43	WG1052698
Chromium	16.9		1.21	1	12/13/2017 18:43	WG1052698
Cobalt	14.8		1.21	1	12/13/2017 18:43	WG1052698
Copper	51.6		2.42	1	12/13/2017 18:43	WG1052698
Lead	135		0.605	1	12/13/2017 18:43	WG1052698
Nickel	36.8		2.42	1	12/13/2017 18:43	WG1052698
Selenium	ND		2.42	1	12/13/2017 18:43	WG1052698
Silver	ND		1.21	1	12/13/2017 18:43	WG1052698
Thallium	ND		2.42	1	12/13/2017 18:43	WG1052698
Vanadium	33.9		2.42	1	12/13/2017 18:43	WG1052698
Zinc	234		6.05	1	12/13/2017 18:43	WG1052698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.8		1	12/15/2017 10:46	WG1053550

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.283		0.0247	1	12/13/2017 02:57	WG1051887

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	13400		12.4	1	12/13/2017 18:46	WG1052698
Antimony	ND		2.47	1	12/13/2017 18:46	WG1052698
Arsenic	24.2		2.47	1	12/13/2017 18:46	WG1052698
Barium	284		0.619	1	12/13/2017 18:46	WG1052698
Beryllium	1.63		0.247	1	12/13/2017 18:46	WG1052698
Cadmium	1.53		0.619	1	12/13/2017 18:46	WG1052698
Chromium	21.0		1.24	1	12/13/2017 18:46	WG1052698
Cobalt	14.0		1.24	1	12/13/2017 18:46	WG1052698
Copper	112		2.47	1	12/13/2017 18:46	WG1052698
Lead	426		0.619	1	12/13/2017 18:46	WG1052698
Nickel	34.6		2.47	1	12/13/2017 18:46	WG1052698
Selenium	ND		2.47	1	12/13/2017 18:46	WG1052698
Silver	ND		1.24	1	12/13/2017 18:46	WG1052698
Thallium	ND		2.47	1	12/13/2017 18:46	WG1052698
Vanadium	35.6		2.47	1	12/13/2017 18:46	WG1052698
Zinc	412		6.19	1	12/13/2017 18:46	WG1052698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.7		1	12/15/2017 10:46	WG1053550

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.401		0.0231	1	12/13/2017 03:00	WG1051887

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	12200		11.5	1	12/13/2017 18:49	WG1052698
Antimony	ND		2.31	1	12/13/2017 18:49	WG1052698
Arsenic	23.4		2.31	1	12/13/2017 18:49	WG1052698
Barium	423		0.577	1	12/13/2017 18:49	WG1052698
Beryllium	2.13		0.231	1	12/13/2017 18:49	WG1052698
Cadmium	2.14		0.577	1	12/13/2017 18:49	WG1052698
Chromium	18.5		1.15	1	12/13/2017 18:49	WG1052698
Cobalt	12.2		1.15	1	12/13/2017 18:49	WG1052698
Copper	91.3		2.31	1	12/13/2017 18:49	WG1052698
Lead	421		0.577	1	12/13/2017 18:49	WG1052698
Nickel	30.0		2.31	1	12/13/2017 18:49	WG1052698
Selenium	ND		2.31	1	12/13/2017 18:49	WG1052698
Silver	ND		1.15	1	12/13/2017 18:49	WG1052698
Thallium	ND		2.31	1	12/13/2017 18:49	WG1052698
Vanadium	33.6		2.31	1	12/13/2017 18:49	WG1052698
Zinc	495		5.77	1	12/13/2017 18:49	WG1052698

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.7		1	12/15/2017 10:46	WG1053550

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.336		0.0242	1	12/13/2017 03:02	WG1051887

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	16500		12.1	1	12/13/2017 18:52	WG1052698
Antimony	ND		2.42	1	12/13/2017 18:52	WG1052698
Arsenic	26.8		2.42	1	12/13/2017 18:52	WG1052698
Barium	273		0.604	1	12/13/2017 18:52	WG1052698
Beryllium	1.80		0.242	1	12/13/2017 18:52	WG1052698
Cadmium	2.52		0.604	1	12/13/2017 18:52	WG1052698
Chromium	25.4		1.21	1	12/13/2017 18:52	WG1052698
Cobalt	21.8		1.21	1	12/13/2017 18:52	WG1052698
Copper	80.0		2.42	1	12/13/2017 18:52	WG1052698
Lead	359		0.604	1	12/13/2017 18:52	WG1052698
Nickel	48.5		2.42	1	12/13/2017 18:52	WG1052698
Selenium	ND		2.42	1	12/13/2017 18:52	WG1052698
Silver	ND		1.21	1	12/13/2017 18:52	WG1052698
Thallium	ND		2.42	1	12/13/2017 18:52	WG1052698
Vanadium	49.0		2.42	1	12/13/2017 18:52	WG1052698
Zinc	430		6.04	1	12/13/2017 18:52	WG1052698

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	11.1		0.145	20	12/18/2017 20:26	WG1053751
Acenaphthene	3.72		0.145	20	12/18/2017 20:26	WG1053751
Acenaphthylene	ND		0.145	20	12/18/2017 20:26	WG1053751
Benzo(a)anthracene	45.3		0.145	20	12/18/2017 20:26	WG1053751
Benzo(a)pyrene	44.2		0.145	20	12/18/2017 20:26	WG1053751
Benzo(b)fluoranthene	71.7		0.145	20	12/18/2017 20:26	WG1053751
Benzo(g,h,i)perylene	27.0		0.725	100	12/20/2017 15:47	WG1053751
Benzo(k)fluoranthene	22.3		0.145	20	12/18/2017 20:26	WG1053751
Chrysene	56.5		0.145	20	12/18/2017 20:26	WG1053751
Dibenz(a,h)anthracene	10.5		0.145	20	12/18/2017 20:26	WG1053751
Fluoranthene	116		0.725	100	12/20/2017 15:47	WG1053751
Fluorene	5.33		0.145	20	12/18/2017 20:26	WG1053751
Indeno(1,2,3-cd)pyrene	28.4		0.145	20	12/18/2017 20:26	WG1053751
Naphthalene	ND		0.483	20	12/18/2017 20:26	WG1053751
Phenanthrene	79.1		0.145	20	12/18/2017 20:26	WG1053751
Pyrene	93.1		0.145	20	12/18/2017 20:26	WG1053751
1-Methylnaphthalene	0.604		0.483	20	12/18/2017 20:26	WG1053751
2-Methylnaphthalene	0.494		0.483	20	12/18/2017 20:26	WG1053751
2-Chloronaphthalene	ND		0.483	20	12/18/2017 20:26	WG1053751
(S) p-Terphenyl-d14	*126*	J7	*23.0-120*		*12/20/2017 15:47*	WG1053751
(S) p-Terphenyl-d14	*136*	J7	*23.0-120*		*12/18/2017 20:26*	WG1053751
(S) Nitrobenzene-d5	*37.4*	J7	*14.0-149*		*12/18/2017 20:26*	WG1053751
(S) Nitrobenzene-d5	*61.4*	J7	*14.0-149*		*12/20/2017 15:47*	WG1053751
(S) 2-Fluorobiphenyl	*73.6*	J7	*34.0-125*		*12/18/2017 20:26*	WG1053751

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*65.5*	J7	*34.0-125*		*12/20/2017 15:47*	WG1053751

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.2		1	12/15/2017 10:46	WG1053550

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0348		0.0246	1	12/13/2017 03:05	WG1051887

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	11400		12.3	1	12/13/2017 18:55	WG1052698
Antimony	4.15		2.46	1	12/13/2017 18:55	WG1052698
Arsenic	13.2		2.46	1	12/13/2017 18:55	WG1052698
Barium	114		0.616	1	12/13/2017 18:55	WG1052698
Beryllium	0.674		0.246	1	12/13/2017 18:55	WG1052698
Cadmium	ND		0.616	1	12/13/2017 18:55	WG1052698
Chromium	13.3		1.23	1	12/13/2017 18:55	WG1052698
Cobalt	11.2		1.23	1	12/13/2017 18:55	WG1052698
Copper	19.9		2.46	1	12/13/2017 18:55	WG1052698
Lead	18.3		0.616	1	12/13/2017 18:55	WG1052698
Nickel	23.7		2.46	1	12/13/2017 18:55	WG1052698
Selenium	ND		2.46	1	12/13/2017 18:55	WG1052698
Silver	ND		1.23	1	12/13/2017 18:55	WG1052698
Thallium	ND		2.46	1	12/13/2017 18:55	WG1052698
Vanadium	32.4		2.46	1	12/13/2017 18:55	WG1052698
Zinc	78.5		6.16	1	12/13/2017 18:55	WG1052698

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	0.420	J3 V	0.00739	1	12/18/2017 16:22	WG1053751
Acenaphthene	0.0807	J3 J5	0.00739	1	12/18/2017 16:22	WG1053751
Acenaphthylene	ND		0.00739	1	12/18/2017 16:22	WG1053751
Benzo(a)anthracene	1.43	J3 V	0.00739	1	12/18/2017 16:22	WG1053751
Benzo(a)pyrene	1.21	J3 V	0.00739	1	12/18/2017 16:22	WG1053751
Benzo(b)fluoranthene	1.66	J3 V	0.00739	1	12/18/2017 16:22	WG1053751
Benzo(g,h,i)perylene	0.725	J3 V	0.0739	10	12/20/2017 12:52	WG1053751
Benzo(k)fluoranthene	0.571	J3 V	0.00739	1	12/18/2017 16:22	WG1053751
Chrysene	1.39	J3 V	0.00739	1	12/18/2017 16:22	WG1053751
Dibenz(a,h)anthracene	0.241	J3 J5	0.00739	1	12/18/2017 16:22	WG1053751
Fluoranthene	2.87	J3 V	0.00739	1	12/18/2017 16:22	WG1053751
Fluorene	0.121	J3 J5	0.00739	1	12/18/2017 16:22	WG1053751
Indeno(1,2,3-cd)pyrene	0.716	J3 V	0.00739	1	12/18/2017 16:22	WG1053751
Naphthalene	0.0756	J3 J5	0.0246	1	12/18/2017 16:22	WG1053751
Phenanthrene	1.60	J3 V	0.00739	1	12/18/2017 16:22	WG1053751
Pyrene	2.54	J3 V	0.00739	1	12/18/2017 16:22	WG1053751
1-Methylnaphthalene	0.0727	J3 J5	0.0246	1	12/18/2017 16:22	WG1053751
2-Methylnaphthalene	0.0779	J3 J5	0.0246	1	12/18/2017 16:22	WG1053751
2-Chloronaphthalene	ND	J3	0.0246	1	12/18/2017 16:22	WG1053751
(S) p-Terphenyl-d14	*85.9*		*23.0-120*		*12/18/2017 16:22*	WG1053751
(S) p-Terphenyl-d14	*62.5*		*23.0-120*		*12/20/2017 12:52*	WG1053751
(S) Nitrobenzene-d5	*55.3*		*14.0-149*		*12/20/2017 12:52*	WG1053751
(S) Nitrobenzene-d5	*58.7*		*14.0-149*		*12/18/2017 16:22*	WG1053751
(S) 2-Fluorobiphenyl	*77.5*		*34.0-125*		*12/18/2017 16:22*	WG1053751

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*61.0*		*34.0-125*		*12/20/2017 12:52*	WG1053751

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.0		1	12/15/2017 10:46	WG1053550

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0312		0.0241	1	12/13/2017 03:07	WG1051887

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	7000		12.1	1	12/13/2017 18:58	WG1052698
Antimony	ND		2.41	1	12/13/2017 18:58	WG1052698
Arsenic	53.2		2.41	1	12/13/2017 18:58	WG1052698
Barium	47.3		0.603	1	12/13/2017 18:58	WG1052698
Beryllium	0.459		0.241	1	12/13/2017 18:58	WG1052698
Cadmium	ND		0.603	1	12/13/2017 18:58	WG1052698
Chromium	9.12		1.21	1	12/13/2017 18:58	WG1052698
Cobalt	8.54		1.21	1	12/13/2017 18:58	WG1052698
Copper	24.8		2.41	1	12/13/2017 18:58	WG1052698
Lead	18.8		0.603	1	12/13/2017 18:58	WG1052698
Nickel	33.8		2.41	1	12/13/2017 18:58	WG1052698
Selenium	ND		2.41	1	12/13/2017 18:58	WG1052698
Silver	ND		1.21	1	12/13/2017 18:58	WG1052698
Thallium	ND		2.41	1	12/13/2017 18:58	WG1052698
Vanadium	34.3		2.41	1	12/13/2017 18:58	WG1052698
Zinc	101		6.03	1	12/13/2017 18:58	WG1052698

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	ND		0.00723	1	12/18/2017 11:53	WG1053751
Acenaphthene	ND		0.00723	1	12/18/2017 11:53	WG1053751
Acenaphthylene	ND		0.00723	1	12/18/2017 11:53	WG1053751
Benzo(a)anthracene	ND		0.00723	1	12/18/2017 11:53	WG1053751
Benzo(a)pyrene	ND		0.00723	1	12/18/2017 11:53	WG1053751
Benzo(b)fluoranthene	ND		0.00723	1	12/18/2017 11:53	WG1053751
Benzo(g,h,i)perylene	ND		0.00723	1	12/18/2017 11:53	WG1053751
Benzo(k)fluoranthene	ND		0.00723	1	12/18/2017 11:53	WG1053751
Chrysene	ND		0.00723	1	12/18/2017 11:53	WG1053751
Dibenz(a,h)anthracene	ND		0.00723	1	12/18/2017 11:53	WG1053751
Fluoranthene	ND		0.00723	1	12/18/2017 11:53	WG1053751
Fluorene	ND		0.00723	1	12/18/2017 11:53	WG1053751
Indeno(1,2,3-cd)pyrene	ND		0.00723	1	12/18/2017 11:53	WG1053751
Naphthalene	ND		0.0241	1	12/18/2017 11:53	WG1053751
Phenanthrene	ND		0.00723	1	12/18/2017 11:53	WG1053751
Pyrene	ND		0.00723	1	12/18/2017 11:53	WG1053751
1-Methylnaphthalene	ND		0.0241	1	12/18/2017 11:53	WG1053751
2-Methylnaphthalene	ND		0.0241	1	12/18/2017 11:53	WG1053751
2-Chloronaphthalene	ND		0.0241	1	12/18/2017 11:53	WG1053751
(S) p-Terphenyl-d14	*72.9*		*23.0-120*		*12/18/2017 11:53*	WG1053751
(S) Nitrobenzene-d5	*61.5*		*14.0-149*		*12/18/2017 11:53*	WG1053751
(S) 2-Fluorobiphenyl	*75.7*		*34.0-125*		*12/18/2017 11:53*	WG1053751

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.0		1	12/15/2017 10:46	WG1053550

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	1.54		0.0471	2	12/13/2017 04:50	WG1051887

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	14800		11.8	1	12/13/2017 19:01	WG1052698
Antimony	ND		2.35	1	12/13/2017 19:01	WG1052698
Arsenic	23.5		2.35	1	12/13/2017 19:01	WG1052698
Barium	481		0.588	1	12/13/2017 19:01	WG1052698
Beryllium	2.19		0.235	1	12/13/2017 19:01	WG1052698
Cadmium	1.29		0.588	1	12/13/2017 19:01	WG1052698
Chromium	29.6		1.18	1	12/13/2017 19:01	WG1052698
Cobalt	9.20		1.18	1	12/13/2017 19:01	WG1052698
Copper	86.4		2.35	1	12/13/2017 19:01	WG1052698
Lead	651		0.588	1	12/13/2017 19:01	WG1052698
Nickel	25.2		2.35	1	12/13/2017 19:01	WG1052698
Selenium	2.65		2.35	1	12/13/2017 19:01	WG1052698
Silver	ND		1.18	1	12/13/2017 19:01	WG1052698
Thallium	ND		2.35	1	12/13/2017 19:01	WG1052698
Vanadium	37.7		2.35	1	12/13/2017 19:01	WG1052698
Zinc	329		5.88	1	12/13/2017 19:01	WG1052698

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	0.0262		0.00706	1	12/18/2017 15:09	WG1053751
Acenaphthene	ND		0.00706	1	12/18/2017 15:09	WG1053751
Acenaphthylene	ND		0.00706	1	12/18/2017 15:09	WG1053751
Benzo(a)anthracene	0.0904		0.00706	1	12/18/2017 15:09	WG1053751
Benzo(a)pyrene	0.0859		0.00706	1	12/18/2017 15:09	WG1053751
Benzo(b)fluoranthene	0.105		0.00706	1	12/18/2017 15:09	WG1053751
Benzo(g,h,i)perylene	0.0632		0.00706	1	12/18/2017 15:09	WG1053751
Benzo(k)fluoranthene	0.0461		0.00706	1	12/18/2017 15:09	WG1053751
Chrysene	0.0907		0.00706	1	12/18/2017 15:09	WG1053751
Dibenz(a,h)anthracene	0.0165		0.00706	1	12/18/2017 15:09	WG1053751
Fluoranthene	0.168		0.00706	1	12/18/2017 15:09	WG1053751
Fluorene	0.00911		0.00706	1	12/18/2017 15:09	WG1053751
Indeno(1,2,3-cd)pyrene	0.0499		0.00706	1	12/18/2017 15:09	WG1053751
Naphthalene	ND		0.0235	1	12/18/2017 15:09	WG1053751
Phenanthrene	0.119		0.00706	1	12/18/2017 15:09	WG1053751
Pyrene	0.160		0.00706	1	12/18/2017 15:09	WG1053751
1-Methylnaphthalene	0.0486		0.0235	1	12/18/2017 15:09	WG1053751
2-Methylnaphthalene	0.0361		0.0235	1	12/18/2017 15:09	WG1053751
2-Chloronaphthalene	ND		0.0235	1	12/18/2017 15:09	WG1053751
(S) p-Terphenyl-d14	*80.3*		*23.0-120*		*12/18/2017 15:09*	WG1053751
(S) Nitrobenzene-d5	*52.3*		*14.0-149*		*12/18/2017 15:09*	WG1053751
(S) 2-Fluorobiphenyl	*68.9*		*34.0-125*		*12/18/2017 15:09*	WG1053751

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.6		1	12/15/2017 10:36	WG1053551

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0764	J5	0.0283	1	12/13/2017 03:25	WG1051888

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	12800		14.2	1	12/13/2017 19:36	WG1052705
Antimony	11.2		2.83	1	12/13/2017 19:36	WG1052705
Arsenic	26.6		2.83	1	12/13/2017 19:36	WG1052705
Barium	897		0.708	1	12/13/2017 19:36	WG1052705
Beryllium	2.48		0.283	1	12/13/2017 19:36	WG1052705
Cadmium	1.62		0.708	1	12/13/2017 19:36	WG1052705
Chromium	24.6		1.42	1	12/13/2017 19:36	WG1052705
Cobalt	13.1		1.42	1	12/13/2017 19:36	WG1052705
Copper	139		2.83	1	12/13/2017 19:36	WG1052705
Lead	1170		0.708	1	12/13/2017 19:36	WG1052705
Nickel	24.7		2.83	1	12/13/2017 19:36	WG1052705
Selenium	ND		2.83	1	12/13/2017 19:36	WG1052705
Silver	ND		1.42	1	12/13/2017 19:36	WG1052705
Thallium	ND		2.83	1	12/13/2017 19:36	WG1052705
Vanadium	41.5		2.83	1	12/13/2017 19:36	WG1052705
Zinc	725		7.08	1	12/13/2017 19:36	WG1052705

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	0.0289		0.00850	1	12/18/2017 12:18	WG1053751
Acenaphthene	ND		0.00850	1	12/18/2017 12:18	WG1053751
Acenaphthylene	ND		0.00850	1	12/18/2017 12:18	WG1053751
Benzo(a)anthracene	0.213		0.00850	1	12/18/2017 12:18	WG1053751
Benzo(a)pyrene	0.218		0.00850	1	12/18/2017 12:18	WG1053751
Benzo(b)fluoranthene	0.280		0.00850	1	12/18/2017 12:18	WG1053751
Benzo(g,h,i)perylene	0.148		0.00850	1	12/18/2017 12:18	WG1053751
Benzo(k)fluoranthene	0.107		0.00850	1	12/18/2017 12:18	WG1053751
Chrysene	0.203		0.00850	1	12/18/2017 12:18	WG1053751
Dibenz(a,h)anthracene	0.0377		0.00850	1	12/18/2017 12:18	WG1053751
Fluoranthene	0.293		0.00850	1	12/18/2017 12:18	WG1053751
Fluorene	ND		0.00850	1	12/18/2017 12:18	WG1053751
Indeno(1,2,3-cd)pyrene	0.130		0.00850	1	12/18/2017 12:18	WG1053751
Naphthalene	0.0298		0.0283	1	12/18/2017 12:18	WG1053751
Phenanthrene	0.0780		0.00850	1	12/18/2017 12:18	WG1053751
Pyrene	0.276		0.00850	1	12/18/2017 12:18	WG1053751
1-Methylnaphthalene	0.0289		0.0283	1	12/18/2017 12:18	WG1053751
2-Methylnaphthalene	0.0325		0.0283	1	12/18/2017 12:18	WG1053751
2-Chloronaphthalene	ND		0.0283	1	12/18/2017 12:18	WG1053751
(S) p-Terphenyl-d14	*87.7*		*23.0-120*		*12/18/2017 12:18*	WG1053751
(S) Nitrobenzene-d5	*68.6*		*14.0-149*		*12/18/2017 12:18*	WG1053751
(S) 2-Fluorobiphenyl	*84.6*		*34.0-125*		*12/18/2017 12:18*	WG1053751

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.1		1	12/15/2017 10:36	WG1053551

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0427		0.0241	1	12/13/2017 03:33	WG1051888

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	13400		12.0	1	12/13/2017 19:39	WG1052705
Antimony	ND		2.41	1	12/13/2017 19:39	WG1052705
Arsenic	24.1		2.41	1	12/13/2017 19:39	WG1052705
Barium	499		0.602	1	12/13/2017 19:39	WG1052705
Beryllium	1.12		0.241	1	12/13/2017 19:39	WG1052705
Cadmium	5.76		0.602	1	12/13/2017 19:39	WG1052705
Chromium	36.5		1.20	1	12/13/2017 19:39	WG1052705
Cobalt	12.8		1.20	1	12/13/2017 19:39	WG1052705
Copper	2430		2.41	1	12/13/2017 19:39	WG1052705
Lead	570		0.602	1	12/13/2017 19:39	WG1052705
Nickel	45.5		2.41	1	12/13/2017 19:39	WG1052705
Selenium	ND		2.41	1	12/13/2017 19:39	WG1052705
Silver	ND		1.20	1	12/13/2017 19:39	WG1052705
Thallium	ND		2.41	1	12/13/2017 19:39	WG1052705
Vanadium	27.4		2.41	1	12/13/2017 19:39	WG1052705
Zinc	2850		30.1	5	12/13/2017 22:09	WG1052705

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	ND		0.00722	1	12/18/2017 12:42	WG1053751
Acenaphthene	ND		0.00722	1	12/18/2017 12:42	WG1053751
Acenaphthylene	ND		0.00722	1	12/18/2017 12:42	WG1053751
Benzo(a)anthracene	ND		0.00722	1	12/18/2017 12:42	WG1053751
Benzo(a)pyrene	ND		0.00722	1	12/18/2017 12:42	WG1053751
Benzo(b)fluoranthene	ND		0.00722	1	12/18/2017 12:42	WG1053751
Benzo(g,h,i)perylene	ND		0.00722	1	12/18/2017 12:42	WG1053751
Benzo(k)fluoranthene	ND		0.00722	1	12/18/2017 12:42	WG1053751
Chrysene	ND		0.00722	1	12/18/2017 12:42	WG1053751
Dibenz(a,h)anthracene	ND		0.00722	1	12/18/2017 12:42	WG1053751
Fluoranthene	0.0135		0.00722	1	12/18/2017 12:42	WG1053751
Fluorene	ND		0.00722	1	12/18/2017 12:42	WG1053751
Indeno(1,2,3-cd)pyrene	ND		0.00722	1	12/18/2017 12:42	WG1053751
Naphthalene	ND		0.0241	1	12/18/2017 12:42	WG1053751
Phenanthrene	ND		0.00722	1	12/18/2017 12:42	WG1053751
Pyrene	0.00988		0.00722	1	12/18/2017 12:42	WG1053751
1-Methylnaphthalene	ND		0.0241	1	12/18/2017 12:42	WG1053751
2-Methylnaphthalene	ND		0.0241	1	12/18/2017 12:42	WG1053751
2-Chloronaphthalene	ND		0.0241	1	12/18/2017 12:42	WG1053751
(S) p-Terphenyl-d14	*108*		*23.0-120*		*12/18/2017 12:42*	WG1053751
(S) Nitrobenzene-d5	*53.5*		*14.0-149*		*12/18/2017 12:42*	WG1053751
(S) 2-Fluorobiphenyl	*77.6*		*34.0-125*		*12/18/2017 12:42*	WG1053751

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.0		1	12/15/2017 10:36	WG1053551

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.458		0.0247	1	12/13/2017 03:35	WG1051888

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	5510		12.3	1	12/13/2017 19:48	WG1052705
Antimony	ND		2.47	1	12/13/2017 19:48	WG1052705
Arsenic	17.5		2.47	1	12/13/2017 19:48	WG1052705
Barium	1870		0.617	1	12/13/2017 19:48	WG1052705
Beryllium	0.785		0.247	1	12/13/2017 19:48	WG1052705
Cadmium	3.40		0.617	1	12/13/2017 19:48	WG1052705
Chromium	29.2		1.23	1	12/13/2017 19:48	WG1052705
Cobalt	7.44		1.23	1	12/13/2017 19:48	WG1052705
Copper	219		2.47	1	12/13/2017 19:48	WG1052705
Lead	1180		0.617	1	12/13/2017 19:48	WG1052705
Nickel	28.2		2.47	1	12/13/2017 19:48	WG1052705
Selenium	ND		2.47	1	12/13/2017 19:48	WG1052705
Silver	2.23		1.23	1	12/13/2017 19:48	WG1052705
Thallium	ND		2.47	1	12/13/2017 19:48	WG1052705
Vanadium	17.1		2.47	1	12/13/2017 19:48	WG1052705
Zinc	1350		6.17	1	12/13/2017 19:48	WG1052705

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	0.802		0.00741	1	12/18/2017 15:33	WG1053751
Acenaphthene	0.186		0.00741	1	12/18/2017 15:33	WG1053751
Acenaphthylene	ND		0.00741	1	12/18/2017 15:33	WG1053751
Benzo(a)anthracene	2.24		0.00741	1	12/18/2017 15:33	WG1053751
Benzo(a)pyrene	1.79		0.00741	1	12/18/2017 15:33	WG1053751
Benzo(b)fluoranthene	2.37		0.00741	1	12/18/2017 15:33	WG1053751
Benzo(g,h,i)perylene	1.03		0.0741	10	12/20/2017 12:30	WG1053751
Benzo(k)fluoranthene	0.740		0.00741	1	12/18/2017 15:33	WG1053751
Chrysene	2.10		0.00741	1	12/18/2017 15:33	WG1053751
Dibenz(a,h)anthracene	0.326		0.00741	1	12/18/2017 15:33	WG1053751
Fluoranthene	4.23		0.0741	10	12/20/2017 12:30	WG1053751
Fluorene	0.238		0.00741	1	12/18/2017 15:33	WG1053751
Indeno(1,2,3-cd)pyrene	0.999		0.00741	1	12/18/2017 15:33	WG1053751
Naphthalene	0.0642		0.0247	1	12/18/2017 15:33	WG1053751
Phenanthrene	2.43		0.00741	1	12/18/2017 15:33	WG1053751
Pyrene	4.37		0.00741	1	12/18/2017 15:33	WG1053751
1-Methylnaphthalene	0.0497		0.0247	1	12/18/2017 15:33	WG1053751
2-Methylnaphthalene	0.0528		0.0247	1	12/18/2017 15:33	WG1053751
2-Chloronaphthalene	ND		0.0247	1	12/18/2017 15:33	WG1053751
(S) p-Terphenyl-d14	*72.1*		*23.0-120*		*12/18/2017 15:33*	WG1053751
(S) p-Terphenyl-d14	*51.8*		*23.0-120*		*12/20/2017 12:30*	WG1053751
(S) Nitrobenzene-d5	*52.6*		*14.0-149*		*12/20/2017 12:30*	WG1053751
(S) Nitrobenzene-d5	*52.7*		*14.0-149*		*12/18/2017 15:33*	WG1053751
(S) 2-Fluorobiphenyl	*54.1*		*34.0-125*		*12/20/2017 12:30*	WG1053751

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*67.2*		*34.0-125*		*12/18/2017 15:33*	WG1053751

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.5		1	12/15/2017 10:36	WG1053551

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.283		0.0242	1	12/13/2017 03:38	WG1051888

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	12400		12.1	1	12/13/2017 19:52	WG1052705
Antimony	ND		2.42	1	12/13/2017 19:52	WG1052705
Arsenic	22.7		2.42	1	12/13/2017 19:52	WG1052705
Barium	354		0.606	1	12/13/2017 19:52	WG1052705
Beryllium	0.956		0.242	1	12/13/2017 19:52	WG1052705
Cadmium	0.708		0.606	1	12/13/2017 19:52	WG1052705
Chromium	17.2		1.21	1	12/13/2017 19:52	WG1052705
Cobalt	12.8		1.21	1	12/13/2017 19:52	WG1052705
Copper	50.4		2.42	1	12/13/2017 19:52	WG1052705
Lead	490		0.606	1	12/13/2017 19:52	WG1052705
Nickel	35.9		2.42	1	12/13/2017 19:52	WG1052705
Selenium	ND		2.42	1	12/13/2017 19:52	WG1052705
Silver	ND		1.21	1	12/13/2017 19:52	WG1052705
Thallium	ND		2.42	1	12/13/2017 19:52	WG1052705
Vanadium	31.7		2.42	1	12/13/2017 19:52	WG1052705
Zinc	217		6.06	1	12/13/2017 19:52	WG1052705

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	4.33		0.364	50	12/20/2017 15:03	WG1053751
Acenaphthene	1.12		0.00727	1	12/18/2017 15:57	WG1053751
Acenaphthylene	ND		0.00727	1	12/18/2017 15:57	WG1053751
Benzo(a)anthracene	6.72		0.364	50	12/20/2017 15:03	WG1053751
Benzo(a)pyrene	4.39		0.364	50	12/20/2017 15:03	WG1053751
Benzo(b)fluoranthene	6.04		0.364	50	12/20/2017 15:03	WG1053751
Benzo(g,h,i)perylene	2.66		0.364	50	12/20/2017 15:03	WG1053751
Benzo(k)fluoranthene	1.87		0.00727	1	12/18/2017 15:57	WG1053751
Chrysene	5.56		0.364	50	12/20/2017 15:03	WG1053751
Dibenz(a,h)anthracene	1.18		0.00727	1	12/18/2017 15:57	WG1053751
Fluoranthene	15.7		0.364	50	12/20/2017 15:03	WG1053751
Fluorene	2.08		0.00727	1	12/18/2017 15:57	WG1053751
Indeno(1,2,3-cd)pyrene	2.74		0.00727	1	12/18/2017 15:57	WG1053751
Naphthalene	0.149		0.0242	1	12/18/2017 15:57	WG1053751
Phenanthrene	12.3		0.364	50	12/20/2017 15:03	WG1053751
Pyrene	9.99		0.364	50	12/20/2017 15:03	WG1053751
1-Methylnaphthalene	0.274		0.0242	1	12/18/2017 15:57	WG1053751
2-Methylnaphthalene	0.254		0.0242	1	12/18/2017 15:57	WG1053751
2-Chloronaphthalene	ND		0.0242	1	12/18/2017 15:57	WG1053751
(S) p-Terphenyl-d14	*84.2*		*23.0-120*		*12/18/2017 15:57*	WG1053751
(S) p-Terphenyl-d14	*71.5*	J7	*23.0-120*		*12/20/2017 15:03*	WG1053751
(S) Nitrobenzene-d5	*65.1*		*14.0-149*		*12/18/2017 15:57*	WG1053751
(S) Nitrobenzene-d5	*67.0*	J7	*14.0-149*		*12/20/2017 15:03*	WG1053751
(S) 2-Fluorobiphenyl	*82.0*		*34.0-125*		*12/18/2017 15:57*	WG1053751

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*70.5*	J7	*34.0-125*		*12/20/2017 15:03*	WG1053751

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.6		1	12/15/2017 10:36	WG1053551

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0341		0.0236	1	12/13/2017 03:41	WG1051888

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	10900		11.8	1	12/13/2017 19:55	WG1052705
Antimony	ND		2.36	1	12/13/2017 19:55	WG1052705
Arsenic	22.1		2.36	1	12/13/2017 19:55	WG1052705
Barium	123		0.591	1	12/13/2017 19:55	WG1052705
Beryllium	0.713		0.236	1	12/13/2017 19:55	WG1052705
Cadmium	ND		0.591	1	12/13/2017 19:55	WG1052705
Chromium	13.5		1.18	1	12/13/2017 19:55	WG1052705
Cobalt	11.5		1.18	1	12/13/2017 19:55	WG1052705
Copper	24.6		2.36	1	12/13/2017 19:55	WG1052705
Lead	22.6		0.591	1	12/13/2017 19:55	WG1052705
Nickel	34.2		2.36	1	12/13/2017 19:55	WG1052705
Selenium	ND		2.36	1	12/13/2017 19:55	WG1052705
Silver	ND		1.18	1	12/13/2017 19:55	WG1052705
Thallium	ND		2.36	1	12/13/2017 19:55	WG1052705
Vanadium	33.7		2.36	1	12/13/2017 19:55	WG1052705
Zinc	95.2		5.91	1	12/13/2017 19:55	WG1052705

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	0.119		0.00709	1	12/18/2017 13:06	WG1053751
Acenaphthene	0.0325		0.00709	1	12/18/2017 13:06	WG1053751
Acenaphthylene	ND		0.00709	1	12/18/2017 13:06	WG1053751
Benzo(a)anthracene	0.194		0.00709	1	12/18/2017 13:06	WG1053751
Benzo(a)pyrene	0.167		0.00709	1	12/18/2017 13:06	WG1053751
Benzo(b)fluoranthene	0.206		0.00709	1	12/18/2017 13:06	WG1053751
Benzo(g,h,i)perylene	0.103		0.00709	1	12/18/2017 13:06	WG1053751
Benzo(k)fluoranthene	0.0799		0.00709	1	12/18/2017 13:06	WG1053751
Chrysene	0.174		0.00709	1	12/18/2017 13:06	WG1053751
Dibenz(a,h)anthracene	0.0259		0.00709	1	12/18/2017 13:06	WG1053751
Fluoranthene	0.442		0.00709	1	12/18/2017 13:06	WG1053751
Fluorene	0.0510		0.00709	1	12/18/2017 13:06	WG1053751
Indeno(1,2,3-cd)pyrene	0.0909		0.00709	1	12/18/2017 13:06	WG1053751
Naphthalene	ND		0.0236	1	12/18/2017 13:06	WG1053751
Phenanthrene	0.362		0.00709	1	12/18/2017 13:06	WG1053751
Pyrene	0.395		0.00709	1	12/18/2017 13:06	WG1053751
1-Methylnaphthalene	ND		0.0236	1	12/18/2017 13:06	WG1053751
2-Methylnaphthalene	ND		0.0236	1	12/18/2017 13:06	WG1053751
2-Chloronaphthalene	ND		0.0236	1	12/18/2017 13:06	WG1053751
(S) p-Terphenyl-d14	*77.9*		*23.0-120*		*12/18/2017 13:06*	WG1053751
(S) Nitrobenzene-d5	*61.0*		*14.0-149*		*12/18/2017 13:06*	WG1053751
(S) 2-Fluorobiphenyl	*76.5*		*34.0-125*		*12/18/2017 13:06*	WG1053751

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.9		1	12/15/2017 10:36	WG1053551

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.152		0.0238	1	12/13/2017 03:43	WG1051888

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	11300		11.9	1	12/13/2017 19:58	WG1052705
Antimony	ND		2.38	1	12/13/2017 19:58	WG1052705
Arsenic	42.4		2.38	1	12/13/2017 19:58	WG1052705
Barium	152		0.596	1	12/13/2017 19:58	WG1052705
Beryllium	0.720		0.238	1	12/13/2017 19:58	WG1052705
Cadmium	0.944		0.596	1	12/13/2017 19:58	WG1052705
Chromium	25.0		1.19	1	12/13/2017 19:58	WG1052705
Cobalt	10.5		1.19	1	12/13/2017 19:58	WG1052705
Copper	65.4		2.38	1	12/13/2017 19:58	WG1052705
Lead	186		0.596	1	12/13/2017 19:58	WG1052705
Nickel	34.9		2.38	1	12/13/2017 19:58	WG1052705
Selenium	ND		2.38	1	12/13/2017 19:58	WG1052705
Silver	ND		1.19	1	12/13/2017 19:58	WG1052705
Thallium	ND		2.38	1	12/13/2017 19:58	WG1052705
Vanadium	32.4		2.38	1	12/13/2017 19:58	WG1052705
Zinc	285		5.96	1	12/13/2017 19:58	WG1052705

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	0.0300		0.00715	1	12/18/2017 18:00	WG1053751
Acenaphthene	ND		0.00715	1	12/18/2017 18:00	WG1053751
Acenaphthylene	ND		0.00715	1	12/18/2017 18:00	WG1053751
Benzo(a)anthracene	0.0852		0.00715	1	12/18/2017 18:00	WG1053751
Benzo(a)pyrene	0.0824		0.00715	1	12/18/2017 18:00	WG1053751
Benzo(b)fluoranthene	0.113		0.00715	1	12/18/2017 18:00	WG1053751
Benzo(g,h,i)perylene	0.0557		0.00715	1	12/18/2017 18:00	WG1053751
Benzo(k)fluoranthene	0.0382		0.00715	1	12/18/2017 18:00	WG1053751
Chrysene	0.0840		0.00715	1	12/18/2017 18:00	WG1053751
Dibenz(a,h)anthracene	0.0166		0.00715	1	12/18/2017 18:00	WG1053751
Fluoranthene	0.173		0.00715	1	12/18/2017 18:00	WG1053751
Fluorene	0.00834		0.00715	1	12/18/2017 18:00	WG1053751
Indeno(1,2,3-cd)pyrene	0.0492		0.00715	1	12/18/2017 18:00	WG1053751
Naphthalene	ND		0.0238	1	12/18/2017 18:00	WG1053751
Phenanthrene	0.0861		0.00715	1	12/18/2017 18:00	WG1053751
Pyrene	0.161		0.00715	1	12/18/2017 18:00	WG1053751
1-Methylnaphthalene	ND		0.0238	1	12/18/2017 18:00	WG1053751
2-Methylnaphthalene	ND		0.0238	1	12/18/2017 18:00	WG1053751
2-Chloronaphthalene	ND		0.0238	1	12/18/2017 18:00	WG1053751
(S) p-Terphenyl-d14	*85.9*		*23.0-120*		*12/18/2017 18:00*	WG1053751
(S) Nitrobenzene-d5	*66.3*		*14.0-149*		*12/18/2017 18:00*	WG1053751
(S) 2-Fluorobiphenyl	*80.6*		*34.0-125*		*12/18/2017 18:00*	WG1053751

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.8		1	12/15/2017 10:36	WG1053551

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0649		0.0233	1	12/13/2017 03:46	WG1051888

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	15000		11.7	1	12/13/2017 20:01	WG1052705
Antimony	ND		2.33	1	12/13/2017 20:01	WG1052705
Arsenic	20.7		2.33	1	12/13/2017 20:01	WG1052705
Barium	357		0.583	1	12/13/2017 20:01	WG1052705
Beryllium	0.857		0.233	1	12/13/2017 20:01	WG1052705
Cadmium	ND		0.583	1	12/13/2017 20:01	WG1052705
Chromium	18.9		1.17	1	12/13/2017 20:01	WG1052705
Cobalt	12.5		1.17	1	12/13/2017 20:01	WG1052705
Copper	29.4		2.33	1	12/13/2017 20:01	WG1052705
Lead	51.8		0.583	1	12/13/2017 20:01	WG1052705
Nickel	37.7		2.33	1	12/13/2017 20:01	WG1052705
Selenium	ND		2.33	1	12/13/2017 20:01	WG1052705
Silver	ND		1.17	1	12/13/2017 20:01	WG1052705
Thallium	ND		2.33	1	12/13/2017 20:01	WG1052705
Vanadium	38.5		2.33	1	12/13/2017 20:01	WG1052705
Zinc	189		5.83	1	12/13/2017 20:01	WG1052705

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	0.134		0.00700	1	12/18/2017 14:44	WG1053751
Acenaphthene	0.0168		0.00700	1	12/18/2017 14:44	WG1053751
Acenaphthylene	ND		0.00700	1	12/18/2017 14:44	WG1053751
Benzo(a)anthracene	0.765		0.00700	1	12/18/2017 14:44	WG1053751
Benzo(a)pyrene	0.724		0.00700	1	12/18/2017 14:44	WG1053751
Benzo(b)fluoranthene	1.02		0.00700	1	12/18/2017 14:44	WG1053751
Benzo(g,h,i)perylene	0.466		0.0700	10	12/20/2017 12:08	WG1053751
Benzo(k)fluoranthene	0.311		0.00700	1	12/18/2017 14:44	WG1053751
Chrysene	0.769		0.00700	1	12/18/2017 14:44	WG1053751
Dibenz(a,h)anthracene	0.146		0.00700	1	12/18/2017 14:44	WG1053751
Fluoranthene	1.36		0.00700	1	12/18/2017 14:44	WG1053751
Fluorene	0.0277		0.00700	1	12/18/2017 14:44	WG1053751
Indeno(1,2,3-cd)pyrene	0.444		0.00700	1	12/18/2017 14:44	WG1053751
Naphthalene	ND		0.0233	1	12/18/2017 14:44	WG1053751
Phenanthrene	0.432		0.00700	1	12/18/2017 14:44	WG1053751
Pyrene	1.21		0.00700	1	12/18/2017 14:44	WG1053751
1-Methylnaphthalene	ND		0.0233	1	12/18/2017 14:44	WG1053751
2-Methylnaphthalene	ND		0.0233	1	12/18/2017 14:44	WG1053751
2-Chloronaphthalene	ND		0.0233	1	12/18/2017 14:44	WG1053751
(S) p-Terphenyl-d14	*63.0*		*23.0-120*		*12/20/2017 12:08*	WG1053751
(S) p-Terphenyl-d14	*84.5*		*23.0-120*		*12/18/2017 14:44*	WG1053751
(S) Nitrobenzene-d5	*68.2*		*14.0-149*		*12/20/2017 12:08*	WG1053751
(S) Nitrobenzene-d5	*71.4*		*14.0-149*		*12/18/2017 14:44*	WG1053751
(S) 2-Fluorobiphenyl	*72.7*		*34.0-125*		*12/20/2017 12:08*	WG1053751

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*88.5*		*34.0-125*		*12/18/2017 14:44*	WG1053751

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.6		1	12/15/2017 10:36	WG1053551

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.444		0.0237	1	12/13/2017 03:53	WG1051888

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	7990	O1 V	11.8	1	12/13/2017 19:20	WG1052705
Antimony	ND	J6	2.37	1	12/13/2017 19:20	WG1052705
Arsenic	23.5		2.37	1	12/13/2017 19:20	WG1052705
Barium	539	V	0.591	1	12/13/2017 19:20	WG1052705
Beryllium	0.582		0.237	1	12/13/2017 19:20	WG1052705
Cadmium	8.26		0.591	1	12/13/2017 19:20	WG1052705
Chromium	32.5		1.18	1	12/13/2017 19:20	WG1052705
Cobalt	9.87		1.18	1	12/13/2017 19:20	WG1052705
Copper	82.3		2.37	1	12/13/2017 19:20	WG1052705
Lead	677	V	0.591	1	12/13/2017 19:20	WG1052705
Nickel	29.5		2.37	1	12/13/2017 19:20	WG1052705
Selenium	ND		2.37	1	12/13/2017 19:20	WG1052705
Silver	ND		1.18	1	12/13/2017 19:20	WG1052705
Thallium	ND		2.37	1	12/13/2017 19:20	WG1052705
Vanadium	24.1		2.37	1	12/13/2017 19:20	WG1052705
Zinc	1590	J3 O1 V	5.91	1	12/13/2017 19:20	WG1052705

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	0.0777		0.00710	1	12/18/2017 18:24	WG1053751
Acenaphthene	0.0249		0.00710	1	12/18/2017 18:24	WG1053751
Acenaphthylene	ND		0.00710	1	12/18/2017 18:24	WG1053751
Benzo(a)anthracene	0.502		0.00710	1	12/18/2017 18:24	WG1053751
Benzo(a)pyrene	0.542		0.00710	1	12/18/2017 18:24	WG1053751
Benzo(b)fluoranthene	0.862		0.00710	1	12/18/2017 18:24	WG1053751
Benzo(g,h,i)perylene	0.430		0.00710	1	12/18/2017 18:24	WG1053751
Benzo(k)fluoranthene	0.287		0.00710	1	12/18/2017 18:24	WG1053751
Chrysene	0.633		0.00710	1	12/18/2017 18:24	WG1053751
Dibenz(a,h)anthracene	0.118		0.00710	1	12/18/2017 18:24	WG1053751
Fluoranthene	1.23		0.00710	1	12/18/2017 18:24	WG1053751
Fluorene	0.0356		0.00710	1	12/18/2017 18:24	WG1053751
Indeno(1,2,3-cd)pyrene	0.381		0.00710	1	12/18/2017 18:24	WG1053751
Naphthalene	0.0446		0.0237	1	12/18/2017 18:24	WG1053751
Phenanthrene	0.570		0.00710	1	12/18/2017 18:24	WG1053751
Pyrene	1.05		0.00710	1	12/18/2017 18:24	WG1053751
1-Methylnaphthalene	0.0443		0.0237	1	12/18/2017 18:24	WG1053751
2-Methylnaphthalene	0.0516		0.0237	1	12/18/2017 18:24	WG1053751
2-Chloronaphthalene	ND		0.0237	1	12/18/2017 18:24	WG1053751
(S) p-Terphenyl-d14	*80.7*		*23.0-120*		*12/18/2017 18:24*	WG1053751
(S) Nitrobenzene-d5	*62.2*		*14.0-149*		*12/18/2017 18:24*	WG1053751
(S) 2-Fluorobiphenyl	*81.1*		*34.0-125*		*12/18/2017 18:24*	WG1053751

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.9		1	12/15/2017 10:36	WG1053551

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.531		0.0238	1	12/13/2017 03:56	WG1051888

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	12200		11.9	1	12/13/2017 20:04	WG1052705
Antimony	ND		2.38	1	12/13/2017 20:04	WG1052705
Arsenic	19.9		2.38	1	12/13/2017 20:04	WG1052705
Barium	395		0.596	1	12/13/2017 20:04	WG1052705
Beryllium	1.36		0.238	1	12/13/2017 20:04	WG1052705
Cadmium	2.12		0.596	1	12/13/2017 20:04	WG1052705
Chromium	17.3		1.19	1	12/13/2017 20:04	WG1052705
Cobalt	10.1		1.19	1	12/13/2017 20:04	WG1052705
Copper	349		2.38	1	12/13/2017 20:04	WG1052705
Lead	423		0.596	1	12/13/2017 20:04	WG1052705
Nickel	28.4		2.38	1	12/13/2017 20:04	WG1052705
Selenium	ND		2.38	1	12/13/2017 20:04	WG1052705
Silver	ND		1.19	1	12/13/2017 20:04	WG1052705
Thallium	ND		2.38	1	12/13/2017 20:04	WG1052705
Vanadium	31.2		2.38	1	12/13/2017 20:04	WG1052705
Zinc	644		5.96	1	12/13/2017 20:04	WG1052705

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	7.79		0.0358	5	12/18/2017 19:37	WG1053751
Acenaphthene	2.32		0.0358	5	12/18/2017 19:37	WG1053751
Acenaphthylene	ND		0.0358	5	12/18/2017 19:37	WG1053751
Benzo(a)anthracene	12.4		0.0358	5	12/18/2017 19:37	WG1053751
Benzo(a)pyrene	8.90		0.0358	5	12/18/2017 19:37	WG1053751
Benzo(b)fluoranthene	11.3		0.0358	5	12/18/2017 19:37	WG1053751
Benzo(g,h,i)perylene	5.78		0.715	100	12/20/2017 15:25	WG1053751
Benzo(k)fluoranthene	4.19		0.0358	5	12/18/2017 19:37	WG1053751
Chrysene	11.3		0.0358	5	12/18/2017 19:37	WG1053751
Dibenz(a,h)anthracene	1.95		0.0358	5	12/18/2017 19:37	WG1053751
Fluoranthene	27.2		0.715	100	12/20/2017 15:25	WG1053751
Fluorene	3.31		0.0358	5	12/18/2017 19:37	WG1053751
Indeno(1,2,3-cd)pyrene	4.97		0.0358	5	12/18/2017 19:37	WG1053751
Naphthalene	1.39		0.119	5	12/18/2017 19:37	WG1053751
Phenanthrene	21.5		0.715	100	12/20/2017 15:25	WG1053751
Pyrene	18.6		0.715	100	12/20/2017 15:25	WG1053751
1-Methylnaphthalene	0.918		0.119	5	12/18/2017 19:37	WG1053751
2-Methylnaphthalene	0.999		0.119	5	12/18/2017 19:37	WG1053751
2-Chloronaphthalene	ND		0.119	5	12/18/2017 19:37	WG1053751
(S) p-Terphenyl-d14	*95.9*		*23.0-120*		*12/18/2017 19:37*	WG1053751
(S) p-Terphenyl-d14	*81.3*	J7	*23.0-120*		*12/20/2017 15:25*	WG1053751
(S) Nitrobenzene-d5	*53.5*		*14.0-149*		*12/18/2017 19:37*	WG1053751
(S) Nitrobenzene-d5	*77.8*	J7	*14.0-149*		*12/20/2017 15:25*	WG1053751
(S) 2-Fluorobiphenyl	*69.1*	J7	*34.0-125*		*12/20/2017 15:25*	WG1053751

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*84.5*		*34.0-125*		*12/18/2017 19:37*	WG1053751

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.2		1	12/15/2017 10:36	WG1053551

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.234		0.0232	1	12/13/2017 03:58	WG1051888

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	15800		11.6	1	12/13/2017 20:07	WG1052705
Antimony	ND		2.32	1	12/13/2017 20:07	WG1052705
Arsenic	17.6		2.32	1	12/13/2017 20:07	WG1052705
Barium	192		0.580	1	12/13/2017 20:07	WG1052705
Beryllium	0.935		0.232	1	12/13/2017 20:07	WG1052705
Cadmium	0.705		0.580	1	12/13/2017 20:07	WG1052705
Chromium	17.5		1.16	1	12/13/2017 20:07	WG1052705
Cobalt	11.3		1.16	1	12/13/2017 20:07	WG1052705
Copper	46.0		2.32	1	12/13/2017 20:07	WG1052705
Lead	124		0.580	1	12/13/2017 20:07	WG1052705
Nickel	33.5		2.32	1	12/13/2017 20:07	WG1052705
Selenium	ND		2.32	1	12/13/2017 20:07	WG1052705
Silver	ND		1.16	1	12/13/2017 20:07	WG1052705
Thallium	ND		2.32	1	12/13/2017 20:07	WG1052705
Vanadium	34.8		2.32	1	12/13/2017 20:07	WG1052705
Zinc	186		5.80	1	12/13/2017 20:07	WG1052705

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	3.66		0.0348	5	12/18/2017 20:02	WG1053751
Acenaphthene	0.769		0.0348	5	12/18/2017 20:02	WG1053751
Acenaphthylene	0.342		0.0348	5	12/18/2017 20:02	WG1053751
Benzo(a)anthracene	5.63		0.0348	5	12/18/2017 20:02	WG1053751
Benzo(a)pyrene	4.33		0.0348	5	12/18/2017 20:02	WG1053751
Benzo(b)fluoranthene	5.63		0.0348	5	12/18/2017 20:02	WG1053751
Benzo(g,h,i)perylene	2.27		0.139	20	12/20/2017 14:41	WG1053751
Benzo(k)fluoranthene	1.92		0.0348	5	12/18/2017 20:02	WG1053751
Chrysene	4.93		0.0348	5	12/18/2017 20:02	WG1053751
Dibenz(a,h)anthracene	0.808		0.0348	5	12/18/2017 20:02	WG1053751
Fluoranthene	12.1		0.0348	5	12/18/2017 20:02	WG1053751
Fluorene	1.80		0.0348	5	12/18/2017 20:02	WG1053751
Indeno(1,2,3-cd)pyrene	2.35		0.0348	5	12/18/2017 20:02	WG1053751
Naphthalene	0.604		0.116	5	12/18/2017 20:02	WG1053751
Phenanthrene	10.5		0.0348	5	12/18/2017 20:02	WG1053751
Pyrene	10.6		0.0348	5	12/18/2017 20:02	WG1053751
1-Methylnaphthalene	0.783		0.116	5	12/18/2017 20:02	WG1053751
2-Methylnaphthalene	0.808		0.116	5	12/18/2017 20:02	WG1053751
2-Chloronaphthalene	ND		0.116	5	12/18/2017 20:02	WG1053751
(S) p-Terphenyl-d14	*70.6*	J7	*23.0-120*		*12/20/2017 14:41*	WG1053751
(S) p-Terphenyl-d14	*94.0*		*23.0-120*		*12/18/2017 20:02*	WG1053751
(S) Nitrobenzene-d5	*47.5*		*14.0-149*		*12/18/2017 20:02*	WG1053751
(S) Nitrobenzene-d5	*71.2*	J7	*14.0-149*		*12/20/2017 14:41*	WG1053751
(S) 2-Fluorobiphenyl	*91.0*		*34.0-125*		*12/18/2017 20:02*	WG1053751

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*74.2*	J7	*34.0-125*		*12/20/2017 14:41*	WG1053751

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.3		1	12/15/2017 10:13	WG1053553

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	1.24		0.0492	2	12/13/2017 08:21	WG1051888

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	11600		12.3	1	12/13/2017 20:10	WG1052705
Antimony	ND		2.46	1	12/13/2017 20:10	WG1052705
Arsenic	14.9		2.46	1	12/13/2017 20:10	WG1052705
Barium	168		0.615	1	12/13/2017 20:10	WG1052705
Beryllium	0.938		0.246	1	12/13/2017 20:10	WG1052705
Cadmium	1.18		0.615	1	12/13/2017 20:10	WG1052705
Chromium	16.5		1.23	1	12/13/2017 20:10	WG1052705
Cobalt	11.7		1.23	1	12/13/2017 20:10	WG1052705
Copper	64.8		2.46	1	12/13/2017 20:10	WG1052705
Lead	320		0.615	1	12/13/2017 20:10	WG1052705
Nickel	41.0		2.46	1	12/13/2017 20:10	WG1052705
Selenium	ND		2.46	1	12/13/2017 20:10	WG1052705
Silver	ND		1.23	1	12/13/2017 20:10	WG1052705
Thallium	ND		2.46	1	12/13/2017 20:10	WG1052705
Vanadium	31.6		2.46	1	12/13/2017 20:10	WG1052705
Zinc	310		6.15	1	12/13/2017 20:10	WG1052705

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	0.344		0.00738	1	12/18/2017 17:35	WG1053751
Acenaphthene	0.0922		0.00738	1	12/18/2017 17:35	WG1053751
Acenaphthylene	ND		0.00738	1	12/18/2017 17:35	WG1053751
Benzo(a)anthracene	0.908		0.00738	1	12/18/2017 17:35	WG1053751
Benzo(a)pyrene	0.971		0.00738	1	12/18/2017 17:35	WG1053751
Benzo(b)fluoranthene	1.37		0.00738	1	12/18/2017 17:35	WG1053751
Benzo(g,h,i)perylene	0.678		0.0738	10	12/20/2017 13:58	WG1053751
Benzo(k)fluoranthene	0.332		0.00738	1	12/18/2017 17:35	WG1053751
Chrysene	0.875		0.00738	1	12/18/2017 17:35	WG1053751
Dibenz(a,h)anthracene	0.215		0.00738	1	12/18/2017 17:35	WG1053751
Fluoranthene	1.78		0.00738	1	12/18/2017 17:35	WG1053751
Fluorene	0.117		0.00738	1	12/18/2017 17:35	WG1053751
Indeno(1,2,3-cd)pyrene	0.665		0.00738	1	12/18/2017 17:35	WG1053751
Naphthalene	0.0643		0.0246	1	12/18/2017 17:35	WG1053751
Phenanthrene	0.956		0.00738	1	12/18/2017 17:35	WG1053751
Pyrene	1.59		0.00738	1	12/18/2017 17:35	WG1053751
1-Methylnaphthalene	0.0443		0.0246	1	12/18/2017 17:35	WG1053751
2-Methylnaphthalene	0.0572		0.0246	1	12/18/2017 17:35	WG1053751
2-Chloronaphthalene	ND		0.0246	1	12/18/2017 17:35	WG1053751
(S) p-Terphenyl-d14	*58.6*		*23.0-120*		*12/20/2017 13:58*	WG1053751
(S) p-Terphenyl-d14	*83.5*		*23.0-120*		*12/18/2017 17:35*	WG1053751
(S) Nitrobenzene-d5	*63.8*		*14.0-149*		*12/20/2017 13:58*	WG1053751
(S) Nitrobenzene-d5	*65.5*		*14.0-149*		*12/18/2017 17:35*	WG1053751
(S) 2-Fluorobiphenyl	*62.4*		*34.0-125*		*12/20/2017 13:58*	WG1053751

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*79.3*		*34.0-125*		*12/18/2017 17:35*	WG1053751

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.8		1	12/15/2017 10:13	WG1053553

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.426		0.0228	1	12/13/2017 04:04	WG1051888

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	7960		11.4	1	12/13/2017 20:13	WG1052705
Antimony	ND		2.28	1	12/13/2017 20:13	WG1052705
Arsenic	31.7		2.28	1	12/13/2017 20:13	WG1052705
Barium	279		0.569	1	12/13/2017 20:13	WG1052705
Beryllium	1.16		0.228	1	12/13/2017 20:13	WG1052705
Cadmium	1.61		0.569	1	12/13/2017 20:13	WG1052705
Chromium	23.4		1.14	1	12/13/2017 20:13	WG1052705
Cobalt	13.2		1.14	1	12/13/2017 20:13	WG1052705
Copper	152		2.28	1	12/13/2017 20:13	WG1052705
Lead	410		0.569	1	12/13/2017 20:13	WG1052705
Nickel	45.6		2.28	1	12/13/2017 20:13	WG1052705
Selenium	ND		2.28	1	12/13/2017 20:13	WG1052705
Silver	ND		1.14	1	12/13/2017 20:13	WG1052705
Thallium	ND		2.28	1	12/13/2017 20:13	WG1052705
Vanadium	24.4		2.28	1	12/13/2017 20:13	WG1052705
Zinc	547		5.69	1	12/13/2017 20:13	WG1052705

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	1.33		0.00683	1	12/18/2017 18:48	WG1053751
Acenaphthene	0.256		0.00683	1	12/18/2017 18:48	WG1053751
Acenaphthylene	ND		0.00683	1	12/18/2017 18:48	WG1053751
Benzo(a)anthracene	2.47		0.00683	1	12/18/2017 18:48	WG1053751
Benzo(a)pyrene	1.78		0.00683	1	12/18/2017 18:48	WG1053751
Benzo(b)fluoranthene	2.34		0.00683	1	12/18/2017 18:48	WG1053751
Benzo(g,h,i)perylene	1.11		0.0683	10	12/20/2017 14:19	WG1053751
Benzo(k)fluoranthene	0.853		0.00683	1	12/18/2017 18:48	WG1053751
Chrysene	2.25		0.00683	1	12/18/2017 18:48	WG1053751
Dibenz(a,h)anthracene	0.342		0.00683	1	12/18/2017 18:48	WG1053751
Fluoranthene	5.61		0.0683	10	12/20/2017 14:19	WG1053751
Fluorene	0.390		0.00683	1	12/18/2017 18:48	WG1053751
Indeno(1,2,3-cd)pyrene	1.01		0.00683	1	12/18/2017 18:48	WG1053751
Naphthalene	0.124		0.0228	1	12/18/2017 18:48	WG1053751
Phenanthrene	4.07		0.0683	10	12/20/2017 14:19	WG1053751
Pyrene	3.67		0.0683	10	12/20/2017 14:19	WG1053751
1-Methylnaphthalene	0.118		0.0228	1	12/18/2017 18:48	WG1053751
2-Methylnaphthalene	0.130		0.0228	1	12/18/2017 18:48	WG1053751
2-Chloronaphthalene	ND		0.0228	1	12/18/2017 18:48	WG1053751
(S) p-Terphenyl-d14	*83.1*		*23.0-120*		*12/18/2017 18:48*	WG1053751
(S) p-Terphenyl-d14	*63.9*		*23.0-120*		*12/20/2017 14:19*	WG1053751
(S) Nitrobenzene-d5	*58.8*		*14.0-149*		*12/20/2017 14:19*	WG1053751
(S) Nitrobenzene-d5	*61.7*		*14.0-149*		*12/18/2017 18:48*	WG1053751
(S) 2-Fluorobiphenyl	*65.3*		*34.0-125*		*12/20/2017 14:19*	WG1053751

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*81.4*		*34.0-125*		*12/18/2017 18:48*	WG1053751

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.8		1	12/15/2017 10:13	WG1053553

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	ND		0.0209	1	12/13/2017 04:06	WG1051888

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	2600		10.4	1	12/13/2017 20:16	WG1052705
Antimony	ND		2.09	1	12/13/2017 20:16	WG1052705
Arsenic	6.19		2.09	1	12/13/2017 20:16	WG1052705
Barium	19.3		0.522	1	12/13/2017 20:16	WG1052705
Beryllium	ND		0.209	1	12/13/2017 20:16	WG1052705
Cadmium	ND		0.522	1	12/13/2017 20:16	WG1052705
Chromium	3.76		1.04	1	12/13/2017 20:16	WG1052705
Cobalt	3.33		1.04	1	12/13/2017 20:16	WG1052705
Copper	9.07		2.09	1	12/13/2017 20:16	WG1052705
Lead	7.12		0.522	1	12/13/2017 20:16	WG1052705
Nickel	10.3		2.09	1	12/13/2017 20:16	WG1052705
Selenium	ND		2.09	1	12/13/2017 20:16	WG1052705
Silver	ND		1.04	1	12/13/2017 20:16	WG1052705
Thallium	ND		2.09	1	12/13/2017 20:16	WG1052705
Vanadium	7.22		2.09	1	12/13/2017 20:16	WG1052705
Zinc	23.1		5.22	1	12/13/2017 20:16	WG1052705

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	ND		0.00626	1	12/18/2017 13:31	WG1053751
Acenaphthene	ND		0.00626	1	12/18/2017 13:31	WG1053751
Acenaphthylene	ND		0.00626	1	12/18/2017 13:31	WG1053751
Benzo(a)anthracene	ND		0.00626	1	12/18/2017 13:31	WG1053751
Benzo(a)pyrene	0.00794		0.00626	1	12/18/2017 13:31	WG1053751
Benzo(b)fluoranthene	0.0154		0.00626	1	12/18/2017 13:31	WG1053751
Benzo(g,h,i)perylene	0.0134		0.00626	1	12/18/2017 13:31	WG1053751
Benzo(k)fluoranthene	ND		0.00626	1	12/18/2017 13:31	WG1053751
Chrysene	0.00926		0.00626	1	12/18/2017 13:31	WG1053751
Dibenz(a,h)anthracene	ND		0.00626	1	12/18/2017 13:31	WG1053751
Fluoranthene	0.0111		0.00626	1	12/18/2017 13:31	WG1053751
Fluorene	ND		0.00626	1	12/18/2017 13:31	WG1053751
Indeno(1,2,3-cd)pyrene	0.00889		0.00626	1	12/18/2017 13:31	WG1053751
Naphthalene	ND		0.0209	1	12/18/2017 13:31	WG1053751
Phenanthrene	0.00811		0.00626	1	12/18/2017 13:31	WG1053751
Pyrene	0.0122		0.00626	1	12/18/2017 13:31	WG1053751
1-Methylnaphthalene	ND		0.0209	1	12/18/2017 13:31	WG1053751
2-Methylnaphthalene	ND		0.0209	1	12/18/2017 13:31	WG1053751
2-Chloronaphthalene	ND		0.0209	1	12/18/2017 13:31	WG1053751
(S) p-Terphenyl-d14	*94.7*		*23.0-120*		*12/18/2017 13:31*	WG1053751
(S) Nitrobenzene-d5	*68.6*		*14.0-149*		*12/18/2017 13:31*	WG1053751
(S) 2-Fluorobiphenyl	*83.5*		*34.0-125*		*12/18/2017 13:31*	WG1053751

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.3		1	12/15/2017 10:13	WG1053553

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0475		0.0249	1	12/13/2017 04:09	WG1051888

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	7160		12.4	1	12/13/2017 20:26	WG1052705
Antimony	ND		2.49	1	12/13/2017 20:26	WG1052705
Arsenic	44.8		2.49	1	12/13/2017 20:26	WG1052705
Barium	45.4		0.622	1	12/13/2017 20:26	WG1052705
Beryllium	0.580		0.249	1	12/13/2017 20:26	WG1052705
Cadmium	ND		0.622	1	12/13/2017 20:26	WG1052705
Chromium	9.73		1.24	1	12/13/2017 20:26	WG1052705
Cobalt	6.63		1.24	1	12/13/2017 20:26	WG1052705
Copper	36.3		2.49	1	12/13/2017 20:26	WG1052705
Lead	38.5		0.622	1	12/13/2017 20:26	WG1052705
Nickel	29.0		2.49	1	12/13/2017 20:26	WG1052705
Selenium	ND		2.49	1	12/13/2017 20:26	WG1052705
Silver	ND		1.24	1	12/13/2017 20:26	WG1052705
Thallium	ND		2.49	1	12/13/2017 20:26	WG1052705
Vanadium	32.2		2.49	1	12/13/2017 20:26	WG1052705
Zinc	97.2		6.22	1	12/13/2017 20:26	WG1052705

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	ND		0.00747	1	12/18/2017 13:55	WG1053751
Acenaphthene	ND		0.00747	1	12/18/2017 13:55	WG1053751
Acenaphthylene	ND		0.00747	1	12/18/2017 13:55	WG1053751
Benzo(a)anthracene	ND		0.00747	1	12/18/2017 13:55	WG1053751
Benzo(a)pyrene	ND		0.00747	1	12/18/2017 13:55	WG1053751
Benzo(b)fluoranthene	ND		0.00747	1	12/18/2017 13:55	WG1053751
Benzo(g,h,i)perylene	ND		0.00747	1	12/18/2017 13:55	WG1053751
Benzo(k)fluoranthene	ND		0.00747	1	12/18/2017 13:55	WG1053751
Chrysene	ND		0.00747	1	12/18/2017 13:55	WG1053751
Dibenz(a,h)anthracene	ND		0.00747	1	12/18/2017 13:55	WG1053751
Fluoranthene	ND		0.00747	1	12/18/2017 13:55	WG1053751
Fluorene	ND		0.00747	1	12/18/2017 13:55	WG1053751
Indeno(1,2,3-cd)pyrene	ND		0.00747	1	12/18/2017 13:55	WG1053751
Naphthalene	ND		0.0249	1	12/18/2017 13:55	WG1053751
Phenanthrene	ND		0.00747	1	12/18/2017 13:55	WG1053751
Pyrene	0.00825		0.00747	1	12/18/2017 13:55	WG1053751
1-Methylnaphthalene	ND		0.0249	1	12/18/2017 13:55	WG1053751
2-Methylnaphthalene	ND		0.0249	1	12/18/2017 13:55	WG1053751
2-Chloronaphthalene	ND		0.0249	1	12/18/2017 13:55	WG1053751
(S) p-Terphenyl-d14	*86.8*		*23.0-120*		*12/18/2017 13:55*	WG1053751
(S) Nitrobenzene-d5	*71.3*		*14.0-149*		*12/18/2017 13:55*	WG1053751
(S) 2-Fluorobiphenyl	*88.5*		*34.0-125*		*12/18/2017 13:55*	WG1053751

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.1		1	12/15/2017 10:13	WG1053553

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.405		0.0238	1	12/13/2017 04:11	WG1051888

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	11100		11.9	1	12/13/2017 20:29	WG1052705
Antimony	2.61		2.38	1	12/13/2017 20:29	WG1052705
Arsenic	27.1		2.38	1	12/13/2017 20:29	WG1052705
Barium	176		0.595	1	12/13/2017 20:29	WG1052705
Beryllium	1.65		0.238	1	12/13/2017 20:29	WG1052705
Cadmium	ND		0.595	1	12/13/2017 20:29	WG1052705
Chromium	26.9		1.19	1	12/13/2017 20:29	WG1052705
Cobalt	12.3		1.19	1	12/13/2017 20:29	WG1052705
Copper	579		2.38	1	12/13/2017 20:29	WG1052705
Lead	505		0.595	1	12/13/2017 20:29	WG1052705
Nickel	32.5		2.38	1	12/13/2017 20:29	WG1052705
Selenium	ND		2.38	1	12/13/2017 20:29	WG1052705
Silver	ND		1.19	1	12/13/2017 20:29	WG1052705
Thallium	ND		2.38	1	12/13/2017 20:29	WG1052705
Vanadium	26.9		2.38	1	12/13/2017 20:29	WG1052705
Zinc	218		5.95	1	12/13/2017 20:29	WG1052705

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	1.39		0.0357	5	12/18/2017 19:13	WG1053751
Acenaphthene	0.303		0.0357	5	12/18/2017 19:13	WG1053751
Acenaphthylene	ND		0.0357	5	12/18/2017 19:13	WG1053751
Benzo(a)anthracene	3.68		0.0357	5	12/18/2017 19:13	WG1053751
Benzo(a)pyrene	3.28		0.0357	5	12/18/2017 19:13	WG1053751
Benzo(b)fluoranthene	4.48		0.0357	5	12/18/2017 19:13	WG1053751
Benzo(g,h,i)perylene	2.11		0.0357	5	12/18/2017 19:13	WG1053751
Benzo(k)fluoranthene	1.23		0.0357	5	12/18/2017 19:13	WG1053751
Chrysene	3.32		0.0357	5	12/18/2017 19:13	WG1053751
Dibenz(a,h)anthracene	0.669		0.0357	5	12/18/2017 19:13	WG1053751
Fluoranthene	7.95		0.0357	5	12/18/2017 19:13	WG1053751
Fluorene	0.409		0.0357	5	12/18/2017 19:13	WG1053751
Indeno(1,2,3-cd)pyrene	1.88		0.0357	5	12/18/2017 19:13	WG1053751
Naphthalene	ND		0.119	5	12/18/2017 19:13	WG1053751
Phenanthrene	4.98		0.0357	5	12/18/2017 19:13	WG1053751
Pyrene	7.33		0.0357	5	12/18/2017 19:13	WG1053751
1-Methylnaphthalene	ND		0.119	5	12/18/2017 19:13	WG1053751
2-Methylnaphthalene	ND		0.119	5	12/18/2017 19:13	WG1053751
2-Chloronaphthalene	ND		0.119	5	12/18/2017 19:13	WG1053751
(S) p-Terphenyl-d14	*83.5*		*23.0-120*		*12/18/2017 19:13*	WG1053751
(S) Nitrobenzene-d5	*56.0*		*14.0-149*		*12/18/2017 19:13*	WG1053751
(S) 2-Fluorobiphenyl	*79.0*		*34.0-125*		*12/18/2017 19:13*	WG1053751

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.6		1	12/15/2017 10:13	WG1053553

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0442		0.0248	1	12/13/2017 04:14	WG1051888

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	15100		12.4	1	12/13/2017 20:32	WG1052705
Antimony	ND		2.48	1	12/13/2017 20:32	WG1052705
Arsenic	19.5		2.48	1	12/13/2017 20:32	WG1052705
Barium	160		0.621	1	12/13/2017 20:32	WG1052705
Beryllium	0.812		0.248	1	12/13/2017 20:32	WG1052705
Cadmium	ND		0.621	1	12/13/2017 20:32	WG1052705
Chromium	17.4		1.24	1	12/13/2017 20:32	WG1052705
Cobalt	13.6		1.24	1	12/13/2017 20:32	WG1052705
Copper	19.2		2.48	1	12/13/2017 20:32	WG1052705
Lead	18.8		0.621	1	12/13/2017 20:32	WG1052705
Nickel	29.4		2.48	1	12/13/2017 20:32	WG1052705
Selenium	ND		2.48	1	12/13/2017 20:32	WG1052705
Silver	ND		1.24	1	12/13/2017 20:32	WG1052705
Thallium	ND		2.48	1	12/13/2017 20:32	WG1052705
Vanadium	42.1		2.48	1	12/13/2017 20:32	WG1052705
Zinc	72.9		6.21	1	12/13/2017 20:32	WG1052705

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	ND		0.00745	1	12/18/2017 14:20	WG1053751
Acenaphthene	ND		0.00745	1	12/18/2017 14:20	WG1053751
Acenaphthylene	ND		0.00745	1	12/18/2017 14:20	WG1053751
Benzo(a)anthracene	0.0256		0.00745	1	12/18/2017 14:20	WG1053751
Benzo(a)pyrene	0.0279		0.00745	1	12/18/2017 14:20	WG1053751
Benzo(b)fluoranthene	0.0364		0.00745	1	12/18/2017 14:20	WG1053751
Benzo(g,h,i)perylene	0.0196		0.00745	1	12/18/2017 14:20	WG1053751
Benzo(k)fluoranthene	0.0137		0.00745	1	12/18/2017 14:20	WG1053751
Chrysene	0.0296		0.00745	1	12/18/2017 14:20	WG1053751
Dibenz(a,h)anthracene	ND		0.00745	1	12/18/2017 14:20	WG1053751
Fluoranthene	0.0548		0.00745	1	12/18/2017 14:20	WG1053751
Fluorene	ND		0.00745	1	12/18/2017 14:20	WG1053751
Indeno(1,2,3-cd)pyrene	0.0168		0.00745	1	12/18/2017 14:20	WG1053751
Naphthalene	ND		0.0248	1	12/18/2017 14:20	WG1053751
Phenanthrene	0.0251		0.00745	1	12/18/2017 14:20	WG1053751
Pyrene	0.0497		0.00745	1	12/18/2017 14:20	WG1053751
1-Methylnaphthalene	ND		0.0248	1	12/18/2017 14:20	WG1053751
2-Methylnaphthalene	ND		0.0248	1	12/18/2017 14:20	WG1053751
2-Chloronaphthalene	ND		0.0248	1	12/18/2017 14:20	WG1053751
(S) p-Terphenyl-d14	*86.6*		*23.0-120*		*12/18/2017 14:20*	WG1053751
(S) Nitrobenzene-d5	*63.3*		*14.0-149*		*12/18/2017 14:20*	WG1053751
(S) 2-Fluorobiphenyl	*68.0*		*34.0-125*		*12/18/2017 14:20*	WG1053751

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.4		1	12/15/2017 10:13	WG1053553

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0595		0.0240	1	12/13/2017 04:16	WG1051888

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	15700		12.0	1	12/13/2017 20:35	WG1052705
Antimony	ND		2.40	1	12/13/2017 20:35	WG1052705
Arsenic	42.1		2.40	1	12/13/2017 20:35	WG1052705
Barium	120		0.599	1	12/13/2017 20:35	WG1052705
Beryllium	0.859		0.240	1	12/13/2017 20:35	WG1052705
Cadmium	ND		0.599	1	12/13/2017 20:35	WG1052705
Chromium	19.0		1.20	1	12/13/2017 20:35	WG1052705
Cobalt	12.7		1.20	1	12/13/2017 20:35	WG1052705
Copper	31.7		2.40	1	12/13/2017 20:35	WG1052705
Lead	23.0		0.599	1	12/13/2017 20:35	WG1052705
Nickel	36.8		2.40	1	12/13/2017 20:35	WG1052705
Selenium	ND		2.40	1	12/13/2017 20:35	WG1052705
Silver	ND		1.20	1	12/13/2017 20:35	WG1052705
Thallium	ND		2.40	1	12/13/2017 20:35	WG1052705
Vanadium	52.3		2.40	1	12/13/2017 20:35	WG1052705
Zinc	126		5.99	1	12/13/2017 20:35	WG1052705

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	0.143		0.0719	10	12/19/2017 06:34	WG1053752
Acenaphthene	ND		0.0719	10	12/19/2017 06:34	WG1053752
Acenaphthylene	ND		0.0719	10	12/19/2017 06:34	WG1053752
Benzo(a)anthracene	0.230		0.0719	10	12/19/2017 06:34	WG1053752
Benzo(a)pyrene	0.198		0.0719	10	12/19/2017 06:34	WG1053752
Benzo(b)fluoranthene	0.273		0.0719	10	12/19/2017 06:34	WG1053752
Benzo(g,h,i)perylene	0.131		0.0719	10	12/19/2017 06:34	WG1053752
Benzo(k)fluoranthene	0.0845		0.0719	10	12/19/2017 06:34	WG1053752
Chrysene	0.232		0.0719	10	12/19/2017 06:34	WG1053752
Dibenz(a,h)anthracene	ND		0.0719	10	12/19/2017 06:34	WG1053752
Fluoranthene	0.694		0.0719	10	12/19/2017 06:34	WG1053752
Fluorene	ND		0.0719	10	12/19/2017 06:34	WG1053752
Indeno(1,2,3-cd)pyrene	0.121		0.0719	10	12/19/2017 06:34	WG1053752
Naphthalene	ND		0.240	10	12/19/2017 06:34	WG1053752
Phenanthrene	0.434		0.0719	10	12/19/2017 06:34	WG1053752
Pyrene	0.433		0.0719	10	12/19/2017 06:34	WG1053752
1-Methylnaphthalene	ND		0.240	10	12/19/2017 06:34	WG1053752
2-Methylnaphthalene	ND		0.240	10	12/19/2017 06:34	WG1053752
2-Chloronaphthalene	ND		0.240	10	12/19/2017 06:34	WG1053752
(S) p-Terphenyl-d14	*61.7*		*23.0-120*		*12/19/2017 06:34*	WG1053752
(S) Nitrobenzene-d5	*54.9*		*14.0-149*		*12/19/2017 06:34*	WG1053752
(S) 2-Fluorobiphenyl	*66.4*		*34.0-125*		*12/19/2017 06:34*	WG1053752

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.2		1	12/15/2017 10:13	WG1053553

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.704		0.0256	1	12/13/2017 04:27	WG1051888

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	14900		12.8	1	12/13/2017 20:39	WG1052705
Antimony	ND		2.56	1	12/13/2017 20:39	WG1052705
Arsenic	26.8		2.56	1	12/13/2017 20:39	WG1052705
Barium	396		0.640	1	12/13/2017 20:39	WG1052705
Beryllium	3.97		0.256	1	12/13/2017 20:39	WG1052705
Cadmium	1.21		0.640	1	12/13/2017 20:39	WG1052705
Chromium	27.7		1.28	1	12/13/2017 20:39	WG1052705
Cobalt	12.2		1.28	1	12/13/2017 20:39	WG1052705
Copper	2130		2.56	1	12/13/2017 20:39	WG1052705
Lead	457		0.640	1	12/13/2017 20:39	WG1052705
Nickel	27.6		2.56	1	12/13/2017 20:39	WG1052705
Selenium	ND		2.56	1	12/13/2017 20:39	WG1052705
Silver	ND		1.28	1	12/13/2017 20:39	WG1052705
Thallium	ND		2.56	1	12/13/2017 20:39	WG1052705
Vanadium	43.8		2.56	1	12/13/2017 20:39	WG1052705
Zinc	440		6.40	1	12/13/2017 20:39	WG1052705

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	0.758		0.0768	10	12/19/2017 07:40	WG1053752
Acenaphthene	0.158		0.0768	10	12/19/2017 07:40	WG1053752
Acenaphthylene	ND		0.0768	10	12/19/2017 07:40	WG1053752
Benzo(a)anthracene	1.10		0.0768	10	12/19/2017 07:40	WG1053752
Benzo(a)pyrene	0.862		0.0768	10	12/19/2017 07:40	WG1053752
Benzo(b)fluoranthene	1.10		0.0768	10	12/19/2017 07:40	WG1053752
Benzo(g,h,i)perylene	0.550		0.0768	10	12/19/2017 07:40	WG1053752
Benzo(k)fluoranthene	0.455		0.0768	10	12/19/2017 07:40	WG1053752
Chrysene	1.09		0.0768	10	12/19/2017 07:40	WG1053752
Dibenz(a,h)anthracene	0.169		0.0768	10	12/19/2017 07:40	WG1053752
Fluoranthene	3.07		0.0768	10	12/19/2017 07:40	WG1053752
Fluorene	0.225		0.0768	10	12/19/2017 07:40	WG1053752
Indeno(1,2,3-cd)pyrene	0.485		0.0768	10	12/19/2017 07:40	WG1053752
Naphthalene	ND		0.256	10	12/19/2017 07:40	WG1053752
Phenanthrene	2.21		0.0768	10	12/19/2017 07:40	WG1053752
Pyrene	1.92		0.0768	10	12/19/2017 07:40	WG1053752
1-Methylnaphthalene	ND		0.256	10	12/19/2017 07:40	WG1053752
2-Methylnaphthalene	ND		0.256	10	12/19/2017 07:40	WG1053752
2-Chloronaphthalene	ND		0.256	10	12/19/2017 07:40	WG1053752
(S) p-Terphenyl-d14	*61.1*		*23.0-120*		*12/19/2017 07:40*	WG1053752
(S) Nitrobenzene-d5	*42.9*		*14.0-149*		*12/19/2017 07:40*	WG1053752
(S) 2-Fluorobiphenyl	*64.0*		*34.0-125*		*12/19/2017 07:40*	WG1053752

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.0		1	12/15/2017 10:13	WG1053553

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0703		0.0260	1	12/13/2017 04:29	WG1051888

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	22200		13.0	1	12/13/2017 20:42	WG1052705
Antimony	ND		2.60	1	12/13/2017 20:42	WG1052705
Arsenic	48.5		2.60	1	12/13/2017 20:42	WG1052705
Barium	622		0.650	1	12/13/2017 20:42	WG1052705
Beryllium	1.06		0.260	1	12/13/2017 20:42	WG1052705
Cadmium	0.848		0.650	1	12/13/2017 20:42	WG1052705
Chromium	26.0		1.30	1	12/13/2017 20:42	WG1052705
Cobalt	17.5		1.30	1	12/13/2017 20:42	WG1052705
Copper	25.2		2.60	1	12/13/2017 20:42	WG1052705
Lead	21.0		0.650	1	12/13/2017 20:42	WG1052705
Nickel	57.6		2.60	1	12/13/2017 20:42	WG1052705
Selenium	ND		2.60	1	12/13/2017 20:42	WG1052705
Silver	ND		1.30	1	12/13/2017 20:42	WG1052705
Thallium	ND		2.60	1	12/13/2017 20:42	WG1052705
Vanadium	61.5		2.60	1	12/13/2017 20:42	WG1052705
Zinc	104		6.50	1	12/13/2017 20:42	WG1052705

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	ND		0.00780	1	12/19/2017 00:15	WG1053752
Acenaphthene	ND		0.00780	1	12/19/2017 00:15	WG1053752
Acenaphthylene	ND		0.00780	1	12/19/2017 00:15	WG1053752
Benzo(a)anthracene	ND		0.00780	1	12/19/2017 00:15	WG1053752
Benzo(a)pyrene	ND		0.00780	1	12/19/2017 00:15	WG1053752
Benzo(b)fluoranthene	ND		0.00780	1	12/19/2017 00:15	WG1053752
Benzo(g,h,i)perylene	ND		0.00780	1	12/19/2017 00:15	WG1053752
Benzo(k)fluoranthene	ND		0.00780	1	12/19/2017 00:15	WG1053752
Chrysene	ND		0.00780	1	12/19/2017 00:15	WG1053752
Dibenz(a,h)anthracene	ND		0.00780	1	12/19/2017 00:15	WG1053752
Fluoranthene	ND		0.00780	1	12/19/2017 00:15	WG1053752
Fluorene	ND		0.00780	1	12/19/2017 00:15	WG1053752
Indeno(1,2,3-cd)pyrene	ND		0.00780	1	12/19/2017 00:15	WG1053752
Naphthalene	ND		0.0260	1	12/19/2017 00:15	WG1053752
Phenanthrene	ND		0.00780	1	12/19/2017 00:15	WG1053752
Pyrene	ND		0.00780	1	12/19/2017 00:15	WG1053752
1-Methylnaphthalene	ND		0.0260	1	12/19/2017 00:15	WG1053752
2-Methylnaphthalene	ND		0.0260	1	12/19/2017 00:15	WG1053752
2-Chloronaphthalene	ND		0.0260	1	12/19/2017 00:15	WG1053752
(S) p-Terphenyl-d14	*71.5*		*23.0-120*		*12/19/2017 00:15*	WG1053752
(S) Nitrobenzene-d5	*55.2*		*14.0-149*		*12/19/2017 00:15*	WG1053752
(S) 2-Fluorobiphenyl	*70.7*		*34.0-125*		*12/19/2017 00:15*	WG1053752

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.2		1	12/15/2017 10:13	WG1053553

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	ND		0.0224	1	12/13/2017 04:32	WG1051888

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	5680		11.2	1	12/13/2017 20:45	WG1052705
Antimony	ND		2.24	1	12/13/2017 20:45	WG1052705
Arsenic	34.1		2.24	1	12/13/2017 20:45	WG1052705
Barium	64.3		0.561	1	12/13/2017 20:45	WG1052705
Beryllium	0.369		0.224	1	12/13/2017 20:45	WG1052705
Cadmium	ND		0.561	1	12/13/2017 20:45	WG1052705
Chromium	7.23		1.12	1	12/13/2017 20:45	WG1052705
Cobalt	7.12		1.12	1	12/13/2017 20:45	WG1052705
Copper	23.4		2.24	1	12/13/2017 20:45	WG1052705
Lead	12.3		0.561	1	12/13/2017 20:45	WG1052705
Nickel	27.0		2.24	1	12/13/2017 20:45	WG1052705
Selenium	ND		2.24	1	12/13/2017 20:45	WG1052705
Silver	ND		1.12	1	12/13/2017 20:45	WG1052705
Thallium	ND		2.24	1	12/13/2017 20:45	WG1052705
Vanadium	26.8		2.24	1	12/13/2017 20:45	WG1052705
Zinc	79.0		5.61	1	12/13/2017 20:45	WG1052705

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	ND		0.00673	1	12/19/2017 00:37	WG1053752
Acenaphthene	ND		0.00673	1	12/19/2017 00:37	WG1053752
Acenaphthylene	ND		0.00673	1	12/19/2017 00:37	WG1053752
Benzo(a)anthracene	0.00906		0.00673	1	12/19/2017 00:37	WG1053752
Benzo(a)pyrene	0.00774		0.00673	1	12/19/2017 00:37	WG1053752
Benzo(b)fluoranthene	0.00994		0.00673	1	12/19/2017 00:37	WG1053752
Benzo(g,h,i)perylene	0.00812	B	0.00673	1	12/19/2017 00:37	WG1053752
Benzo(k)fluoranthene	ND		0.00673	1	12/19/2017 00:37	WG1053752
Chrysene	0.0102		0.00673	1	12/19/2017 00:37	WG1053752
Dibenz(a,h)anthracene	ND		0.00673	1	12/19/2017 00:37	WG1053752
Fluoranthene	0.0240		0.00673	1	12/19/2017 00:37	WG1053752
Fluorene	ND		0.00673	1	12/19/2017 00:37	WG1053752
Indeno(1,2,3-cd)pyrene	ND		0.00673	1	12/19/2017 00:37	WG1053752
Naphthalene	ND		0.0224	1	12/19/2017 00:37	WG1053752
Phenanthrene	0.0222		0.00673	1	12/19/2017 00:37	WG1053752
Pyrene	0.0182		0.00673	1	12/19/2017 00:37	WG1053752
1-Methylnaphthalene	ND		0.0224	1	12/19/2017 00:37	WG1053752
2-Methylnaphthalene	ND		0.0224	1	12/19/2017 00:37	WG1053752
2-Chloronaphthalene	ND		0.0224	1	12/19/2017 00:37	WG1053752
(S) p-Terphenyl-d14	*71.9*		*23.0-120*		*12/19/2017 00:37*	WG1053752
(S) Nitrobenzene-d5	*52.0*		*14.0-149*		*12/19/2017 00:37*	WG1053752
(S) 2-Fluorobiphenyl	*66.5*		*34.0-125*		*12/19/2017 00:37*	WG1053752

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.1		1	12/14/2017 14:33	WG1053554

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.550	J3 J5	0.0256	1	12/13/2017 09:02	WG1051889

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	7970	V	12.8	1	12/14/2017 15:16	WG1051792
Antimony	ND		2.56	1	12/14/2017 15:16	WG1051792
Arsenic	26.7		2.56	1	12/14/2017 15:16	WG1051792
Barium	228	J3 J5	0.640	1	12/14/2017 15:16	WG1051792
Beryllium	1.32		0.256	1	12/14/2017 15:16	WG1051792
Cadmium	1.19		0.640	1	12/14/2017 15:16	WG1051792
Chromium	20.6		1.28	1	12/14/2017 15:16	WG1051792
Cobalt	12.6		1.28	1	12/14/2017 15:16	WG1051792
Copper	56.4		2.56	1	12/14/2017 15:16	WG1051792
Lead	223	J5	0.640	1	12/14/2017 15:16	WG1051792
Nickel	38.8		2.56	1	12/14/2017 15:16	WG1051792
Selenium	ND		2.56	1	12/14/2017 15:16	WG1051792
Silver	ND		1.28	1	12/14/2017 15:16	WG1051792
Thallium	ND		2.56	1	12/14/2017 15:16	WG1051792
Vanadium	24.9		2.56	1	12/14/2017 15:16	WG1051792
Zinc	467	J5	6.40	1	12/14/2017 15:16	WG1051792

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	0.0308		0.00769	1	12/19/2017 01:00	WG1053752
Acenaphthene	ND		0.00769	1	12/19/2017 01:00	WG1053752
Acenaphthylene	ND		0.00769	1	12/19/2017 01:00	WG1053752
Benzo(a)anthracene	0.118		0.00769	1	12/19/2017 01:00	WG1053752
Benzo(a)pyrene	0.107		0.00769	1	12/19/2017 01:00	WG1053752
Benzo(b)fluoranthene	0.149		0.00769	1	12/19/2017 01:00	WG1053752
Benzo(g,h,i)perylene	0.0712		0.00769	1	12/19/2017 01:00	WG1053752
Benzo(k)fluoranthene	0.0510		0.00769	1	12/19/2017 01:00	WG1053752
Chrysene	0.129		0.00769	1	12/19/2017 01:00	WG1053752
Dibenz(a,h)anthracene	0.0221		0.00769	1	12/19/2017 01:00	WG1053752
Fluoranthene	0.291		0.00769	1	12/19/2017 01:00	WG1053752
Fluorene	0.0108		0.00769	1	12/19/2017 01:00	WG1053752
Indeno(1,2,3-cd)pyrene	0.0674		0.00769	1	12/19/2017 01:00	WG1053752
Naphthalene	0.0335		0.0256	1	12/19/2017 01:00	WG1053752
Phenanthrene	0.179		0.00769	1	12/19/2017 01:00	WG1053752
Pyrene	0.204		0.00769	1	12/19/2017 01:00	WG1053752
1-Methylnaphthalene	0.0475		0.0256	1	12/19/2017 01:00	WG1053752
2-Methylnaphthalene	0.0477		0.0256	1	12/19/2017 01:00	WG1053752
2-Chloronaphthalene	ND		0.0256	1	12/19/2017 01:00	WG1053752
(S) p-Terphenyl-d14	*67.4*		*23.0-120*		*12/19/2017 01:00*	WG1053752
(S) Nitrobenzene-d5	*46.7*		*14.0-149*		*12/19/2017 01:00*	WG1053752
(S) 2-Fluorobiphenyl	*57.6*		*34.0-125*		*12/19/2017 01:00*	WG1053752

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.6		1	12/14/2017 14:33	WG1053554

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	4.04		0.142	5	12/13/2017 13:09	WG1051889

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	7490		14.2	1	12/14/2017 15:31	WG1051792
Antimony	ND		2.83	1	12/14/2017 15:31	WG1051792
Arsenic	17.8		2.83	1	12/14/2017 15:31	WG1051792
Barium	929		0.709	1	12/14/2017 15:31	WG1051792
Beryllium	0.910		0.283	1	12/14/2017 15:31	WG1051792
Cadmium	3.09		0.709	1	12/14/2017 15:31	WG1051792
Chromium	51.8		1.42	1	12/14/2017 15:31	WG1051792
Cobalt	10.2		1.42	1	12/14/2017 15:31	WG1051792
Copper	380		2.83	1	12/14/2017 15:31	WG1051792
Lead	702		0.709	1	12/14/2017 15:31	WG1051792
Nickel	45.1		2.83	1	12/14/2017 15:31	WG1051792
Selenium	ND		2.83	1	12/14/2017 15:31	WG1051792
Silver	2.20		1.42	1	12/14/2017 15:31	WG1051792
Thallium	ND		2.83	1	12/14/2017 15:31	WG1051792
Vanadium	22.2		2.83	1	12/14/2017 15:31	WG1051792
Zinc	1080		7.09	1	12/14/2017 15:31	WG1051792

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	0.0386		0.00850	1	12/19/2017 01:22	WG1053752
Acenaphthene	ND		0.00850	1	12/19/2017 01:22	WG1053752
Acenaphthylene	ND		0.00850	1	12/19/2017 01:22	WG1053752
Benzo(a)anthracene	0.0837		0.00850	1	12/19/2017 01:22	WG1053752
Benzo(a)pyrene	0.0705		0.00850	1	12/19/2017 01:22	WG1053752
Benzo(b)fluoranthene	0.0969		0.00850	1	12/19/2017 01:22	WG1053752
Benzo(g,h,i)perylene	0.0365		0.00850	1	12/19/2017 01:22	WG1053752
Benzo(k)fluoranthene	0.0350		0.00850	1	12/19/2017 01:22	WG1053752
Chrysene	0.0881		0.00850	1	12/19/2017 01:22	WG1053752
Dibenz(a,h)anthracene	0.0123		0.00850	1	12/19/2017 01:22	WG1053752
Fluoranthene	0.202		0.00850	1	12/19/2017 01:22	WG1053752
Fluorene	0.0116		0.00850	1	12/19/2017 01:22	WG1053752
Indeno(1,2,3-cd)pyrene	0.0368		0.00850	1	12/19/2017 01:22	WG1053752
Naphthalene	ND		0.0283	1	12/19/2017 01:22	WG1053752
Phenanthrene	0.129		0.00850	1	12/19/2017 01:22	WG1053752
Pyrene	0.137		0.00850	1	12/19/2017 01:22	WG1053752
1-Methylnaphthalene	ND		0.0283	1	12/19/2017 01:22	WG1053752
2-Methylnaphthalene	ND		0.0283	1	12/19/2017 01:22	WG1053752
2-Chloronaphthalene	ND		0.0283	1	12/19/2017 01:22	WG1053752
(S) p-Terphenyl-d14	*63.2*		*23.0-120*		*12/19/2017 01:22*	WG1053752
(S) Nitrobenzene-d5	*50.1*		*14.0-149*		*12/19/2017 01:22*	WG1053752
(S) 2-Fluorobiphenyl	*54.3*		*34.0-125*		*12/19/2017 01:22*	WG1053752

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.3		1	12/14/2017 14:33	WG1053554

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	ND		0.0229	1	12/13/2017 09:12	WG1051889

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	3110		11.5	1	12/14/2017 15:35	WG1051792
Antimony	ND		2.29	1	12/14/2017 15:35	WG1051792
Arsenic	17.0		2.29	1	12/14/2017 15:35	WG1051792
Barium	33.8		0.573	1	12/14/2017 15:35	WG1051792
Beryllium	0.280		0.229	1	12/14/2017 15:35	WG1051792
Cadmium	ND		0.573	1	12/14/2017 15:35	WG1051792
Chromium	5.06		1.15	1	12/14/2017 15:35	WG1051792
Cobalt	6.04		1.15	1	12/14/2017 15:35	WG1051792
Copper	19.1		2.29	1	12/14/2017 15:35	WG1051792
Lead	10.2		0.573	1	12/14/2017 15:35	WG1051792
Nickel	26.4		2.29	1	12/14/2017 15:35	WG1051792
Selenium	ND		2.29	1	12/14/2017 15:35	WG1051792
Silver	ND		1.15	1	12/14/2017 15:35	WG1051792
Thallium	ND		2.29	1	12/14/2017 15:35	WG1051792
Vanadium	11.4		2.29	1	12/14/2017 15:35	WG1051792
Zinc	70.3		5.73	1	12/14/2017 15:35	WG1051792

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	ND		0.00687	1	12/19/2017 01:44	WG1053752
Acenaphthene	ND		0.00687	1	12/19/2017 01:44	WG1053752
Acenaphthylene	ND		0.00687	1	12/19/2017 01:44	WG1053752
Benzo(a)anthracene	ND		0.00687	1	12/19/2017 01:44	WG1053752
Benzo(a)pyrene	ND		0.00687	1	12/19/2017 01:44	WG1053752
Benzo(b)fluoranthene	ND		0.00687	1	12/19/2017 01:44	WG1053752
Benzo(g,h,i)perylene	ND		0.00687	1	12/19/2017 01:44	WG1053752
Benzo(k)fluoranthene	ND		0.00687	1	12/19/2017 01:44	WG1053752
Chrysene	ND		0.00687	1	12/19/2017 01:44	WG1053752
Dibenz(a,h)anthracene	ND		0.00687	1	12/19/2017 01:44	WG1053752
Fluoranthene	ND		0.00687	1	12/19/2017 01:44	WG1053752
Fluorene	ND		0.00687	1	12/19/2017 01:44	WG1053752
Indeno(1,2,3-cd)pyrene	ND		0.00687	1	12/19/2017 01:44	WG1053752
Naphthalene	ND		0.0229	1	12/19/2017 01:44	WG1053752
Phenanthrene	ND		0.00687	1	12/19/2017 01:44	WG1053752
Pyrene	ND		0.00687	1	12/19/2017 01:44	WG1053752
1-Methylnaphthalene	ND		0.0229	1	12/19/2017 01:44	WG1053752
2-Methylnaphthalene	ND		0.0229	1	12/19/2017 01:44	WG1053752
2-Chloronaphthalene	ND		0.0229	1	12/19/2017 01:44	WG1053752
(S) p-Terphenyl-d14	*69.0*		*23.0-120*		*12/19/2017 01:44*	WG1053752
(S) Nitrobenzene-d5	*55.8*		*14.0-149*		*12/19/2017 01:44*	WG1053752
(S) 2-Fluorobiphenyl	*64.3*		*34.0-125*		*12/19/2017 01:44*	WG1053752

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.3		1	12/14/2017 14:33	WG1053554

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0423		0.0240	1	12/13/2017 09:15	WG1051889

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	8720		12.0	1	12/14/2017 15:45	WG1051792
Antimony	ND		2.40	1	12/14/2017 15:45	WG1051792
Arsenic	13.0		2.40	1	12/14/2017 15:45	WG1051792
Barium	119		0.600	1	12/14/2017 15:45	WG1051792
Beryllium	0.902		0.240	1	12/14/2017 15:45	WG1051792
Cadmium	ND		0.600	1	12/14/2017 15:45	WG1051792
Chromium	11.0		1.20	1	12/14/2017 15:45	WG1051792
Cobalt	9.79		1.20	1	12/14/2017 15:45	WG1051792
Copper	18.8		2.40	1	12/14/2017 15:45	WG1051792
Lead	74.3		0.600	1	12/14/2017 15:45	WG1051792
Nickel	18.6		2.40	1	12/14/2017 15:45	WG1051792
Selenium	ND		2.40	1	12/14/2017 15:45	WG1051792
Silver	ND		1.20	1	12/14/2017 15:45	WG1051792
Thallium	ND		2.40	1	12/14/2017 15:45	WG1051792
Vanadium	22.3		2.40	1	12/14/2017 15:45	WG1051792
Zinc	67.9		6.00	1	12/14/2017 15:45	WG1051792

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	0.108		0.00720	1	12/19/2017 02:07	WG1053752
Acenaphthene	0.0136		0.00720	1	12/19/2017 02:07	WG1053752
Acenaphthylene	ND		0.00720	1	12/19/2017 02:07	WG1053752
Benzo(a)anthracene	0.322		0.00720	1	12/19/2017 02:07	WG1053752
Benzo(a)pyrene	0.249		0.00720	1	12/19/2017 02:07	WG1053752
Benzo(b)fluoranthene	0.334		0.00720	1	12/19/2017 02:07	WG1053752
Benzo(g,h,i)perylene	0.149		0.00720	1	12/19/2017 02:07	WG1053752
Benzo(k)fluoranthene	0.128		0.00720	1	12/19/2017 02:07	WG1053752
Chrysene	0.303		0.00720	1	12/19/2017 02:07	WG1053752
Dibenz(a,h)anthracene	0.0433		0.00720	1	12/19/2017 02:07	WG1053752
Fluoranthene	0.699		0.00720	1	12/19/2017 02:07	WG1053752
Fluorene	ND		0.00720	1	12/19/2017 02:07	WG1053752
Indeno(1,2,3-cd)pyrene	0.141		0.00720	1	12/19/2017 02:07	WG1053752
Naphthalene	ND		0.0240	1	12/19/2017 02:07	WG1053752
Phenanthrene	0.411		0.00720	1	12/19/2017 02:07	WG1053752
Pyrene	0.513		0.00720	1	12/19/2017 02:07	WG1053752
1-Methylnaphthalene	ND		0.0240	1	12/19/2017 02:07	WG1053752
2-Methylnaphthalene	ND		0.0240	1	12/19/2017 02:07	WG1053752
2-Chloronaphthalene	ND		0.0240	1	12/19/2017 02:07	WG1053752
(S) p-Terphenyl-d14	*72.0*		*23.0-120*		*12/19/2017 02:07*	WG1053752
(S) Nitrobenzene-d5	*51.1*		*14.0-149*		*12/19/2017 02:07*	WG1053752
(S) 2-Fluorobiphenyl	*63.5*		*34.0-125*		*12/19/2017 02:07*	WG1053752

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.2		1	12/14/2017 14:33	WG1053554

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.852		0.0227	1	12/13/2017 09:22	WG1051889

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	5430		11.3	1	12/14/2017 15:48	WG1051792
Antimony	ND		2.27	1	12/14/2017 15:48	WG1051792
Arsenic	18.2		2.27	1	12/14/2017 15:48	WG1051792
Barium	237		0.567	1	12/14/2017 15:48	WG1051792
Beryllium	0.497		0.227	1	12/14/2017 15:48	WG1051792
Cadmium	1.11		0.567	1	12/14/2017 15:48	WG1051792
Chromium	10.1		1.13	1	12/14/2017 15:48	WG1051792
Cobalt	10.6		1.13	1	12/14/2017 15:48	WG1051792
Copper	24.2		2.27	1	12/14/2017 15:48	WG1051792
Lead	257		0.567	1	12/14/2017 15:48	WG1051792
Nickel	23.9		2.27	1	12/14/2017 15:48	WG1051792
Selenium	ND		2.27	1	12/14/2017 15:48	WG1051792
Silver	ND		1.13	1	12/14/2017 15:48	WG1051792
Thallium	ND		2.27	1	12/14/2017 15:48	WG1051792
Vanadium	16.8		2.27	1	12/14/2017 15:48	WG1051792
Zinc	428		5.67	1	12/14/2017 15:48	WG1051792

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	0.189	J3 J6	0.00681	1	12/19/2017 04:20	WG1053752
Acenaphthene	0.0526	J3	0.00681	1	12/19/2017 04:20	WG1053752
Acenaphthylene	ND		0.00681	1	12/19/2017 04:20	WG1053752
Benzo(a)anthracene	0.426	J3 V	0.00681	1	12/19/2017 04:20	WG1053752
Benzo(a)pyrene	0.354	J6	0.00681	1	12/19/2017 04:20	WG1053752
Benzo(b)fluoranthene	0.503	J3 V	0.00681	1	12/19/2017 04:20	WG1053752
Benzo(g,h,i)perylene	0.225		0.00681	1	12/19/2017 04:20	WG1053752
Benzo(k)fluoranthene	0.158		0.00681	1	12/19/2017 04:20	WG1053752
Chrysene	0.420	J3 V	0.00681	1	12/19/2017 04:20	WG1053752
Dibenz(a,h)anthracene	0.0598		0.00681	1	12/19/2017 04:20	WG1053752
Fluoranthene	0.983	V	0.00681	1	12/19/2017 04:20	WG1053752
Fluorene	0.0574	J3	0.00681	1	12/19/2017 04:20	WG1053752
Indeno(1,2,3-cd)pyrene	0.190		0.00681	1	12/19/2017 04:20	WG1053752
Naphthalene	0.0334		0.0227	1	12/19/2017 04:20	WG1053752
Phenanthrene	0.698	J3 V	0.00681	1	12/19/2017 04:20	WG1053752
Pyrene	0.762	J3 V	0.00681	1	12/19/2017 04:20	WG1053752
1-Methylnaphthalene	0.0357		0.0227	1	12/19/2017 04:20	WG1053752
2-Methylnaphthalene	0.0322		0.0227	1	12/19/2017 04:20	WG1053752
2-Chloronaphthalene	ND		0.0227	1	12/19/2017 04:20	WG1053752
(S) p-Terphenyl-d14	*85.2*		*23.0-120*		*12/19/2017 04:20*	WG1053752
(S) Nitrobenzene-d5	*52.4*		*14.0-149*		*12/19/2017 04:20*	WG1053752
(S) 2-Fluorobiphenyl	*79.1*		*34.0-125*		*12/19/2017 04:20*	WG1053752

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.6		1	12/14/2017 14:33	WG1053554

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0256		0.0251	1	12/13/2017 09:25	WG1051889

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	7030		12.6	1	12/14/2017 15:51	WG1051792
Antimony	ND		2.51	1	12/14/2017 15:51	WG1051792
Arsenic	20.7		2.51	1	12/14/2017 15:51	WG1051792
Barium	74.8		0.628	1	12/14/2017 15:51	WG1051792
Beryllium	0.536		0.251	1	12/14/2017 15:51	WG1051792
Cadmium	ND		0.628	1	12/14/2017 15:51	WG1051792
Chromium	11.0		1.26	1	12/14/2017 15:51	WG1051792
Cobalt	9.85		1.26	1	12/14/2017 15:51	WG1051792
Copper	29.9		2.51	1	12/14/2017 15:51	WG1051792
Lead	15.4		0.628	1	12/14/2017 15:51	WG1051792
Nickel	35.2		2.51	1	12/14/2017 15:51	WG1051792
Selenium	ND		2.51	1	12/14/2017 15:51	WG1051792
Silver	ND		1.26	1	12/14/2017 15:51	WG1051792
Thallium	ND		2.51	1	12/14/2017 15:51	WG1051792
Vanadium	19.2		2.51	1	12/14/2017 15:51	WG1051792
Zinc	110		6.28	1	12/14/2017 15:51	WG1051792

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	ND		0.00754	1	12/19/2017 02:29	WG1053752
Acenaphthene	ND		0.00754	1	12/19/2017 02:29	WG1053752
Acenaphthylene	ND		0.00754	1	12/19/2017 02:29	WG1053752
Benzo(a)anthracene	ND		0.00754	1	12/19/2017 02:29	WG1053752
Benzo(a)pyrene	ND		0.00754	1	12/19/2017 02:29	WG1053752
Benzo(b)fluoranthene	ND		0.00754	1	12/19/2017 02:29	WG1053752
Benzo(g,h,i)perylene	ND		0.00754	1	12/19/2017 02:29	WG1053752
Benzo(k)fluoranthene	ND		0.00754	1	12/19/2017 02:29	WG1053752
Chrysene	ND		0.00754	1	12/19/2017 02:29	WG1053752
Dibenz(a,h)anthracene	ND		0.00754	1	12/19/2017 02:29	WG1053752
Fluoranthene	ND		0.00754	1	12/19/2017 02:29	WG1053752
Fluorene	ND		0.00754	1	12/19/2017 02:29	WG1053752
Indeno(1,2,3-cd)pyrene	ND		0.00754	1	12/19/2017 02:29	WG1053752
Naphthalene	ND		0.0251	1	12/19/2017 02:29	WG1053752
Phenanthrene	ND		0.00754	1	12/19/2017 02:29	WG1053752
Pyrene	ND		0.00754	1	12/19/2017 02:29	WG1053752
1-Methylnaphthalene	ND		0.0251	1	12/19/2017 02:29	WG1053752
2-Methylnaphthalene	ND		0.0251	1	12/19/2017 02:29	WG1053752
2-Chloronaphthalene	ND		0.0251	1	12/19/2017 02:29	WG1053752
(S) p-Terphenyl-d14	*62.4*		*23.0-120*		*12/19/2017 02:29*	WG1053752
(S) Nitrobenzene-d5	*44.9*		*14.0-149*		*12/19/2017 02:29*	WG1053752
(S) 2-Fluorobiphenyl	*50.9*		*34.0-125*		*12/19/2017 02:29*	WG1053752

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.2		1	12/14/2017 14:33	WG1053554

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.324		0.0240	1	12/13/2017 09:27	WG1051889

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	9410		12.0	1	12/14/2017 15:55	WG1051792
Antimony	ND		2.40	1	12/14/2017 15:55	WG1051792
Arsenic	20.0		2.40	1	12/14/2017 15:55	WG1051792
Barium	1620		0.601	1	12/14/2017 15:55	WG1051792
Beryllium	1.38		0.240	1	12/14/2017 15:55	WG1051792
Cadmium	1.25		0.601	1	12/14/2017 15:55	WG1051792
Chromium	18.8		1.20	1	12/14/2017 15:55	WG1051792
Cobalt	11.1		1.20	1	12/14/2017 15:55	WG1051792
Copper	129		2.40	1	12/14/2017 15:55	WG1051792
Lead	336		0.601	1	12/14/2017 15:55	WG1051792
Nickel	30.0		2.40	1	12/14/2017 15:55	WG1051792
Selenium	ND		2.40	1	12/14/2017 15:55	WG1051792
Silver	ND		1.20	1	12/14/2017 15:55	WG1051792
Thallium	ND		2.40	1	12/14/2017 15:55	WG1051792
Vanadium	25.6		2.40	1	12/14/2017 15:55	WG1051792
Zinc	927		6.01	1	12/14/2017 15:55	WG1051792

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	0.341		0.00721	1	12/19/2017 05:27	WG1053752
Acenaphthene	0.127		0.00721	1	12/19/2017 05:27	WG1053752
Acenaphthylene	ND		0.00721	1	12/19/2017 05:27	WG1053752
Benzo(a)anthracene	0.881		0.00721	1	12/19/2017 05:27	WG1053752
Benzo(a)pyrene	0.696		0.00721	1	12/19/2017 05:27	WG1053752
Benzo(b)fluoranthene	0.859		0.00721	1	12/19/2017 05:27	WG1053752
Benzo(g,h,i)perylene	0.441		0.00721	1	12/19/2017 05:27	WG1053752
Benzo(k)fluoranthene	0.346		0.00721	1	12/19/2017 05:27	WG1053752
Chrysene	0.837		0.00721	1	12/19/2017 05:27	WG1053752
Dibenz(a,h)anthracene	0.125		0.00721	1	12/19/2017 05:27	WG1053752
Fluoranthene	1.83		0.00721	1	12/19/2017 05:27	WG1053752
Fluorene	0.0972		0.00721	1	12/19/2017 05:27	WG1053752
Indeno(1,2,3-cd)pyrene	0.397		0.00721	1	12/19/2017 05:27	WG1053752
Naphthalene	0.0375		0.0240	1	12/19/2017 05:27	WG1053752
Phenanthrene	1.21		0.00721	1	12/19/2017 05:27	WG1053752
Pyrene	1.61		0.00721	1	12/19/2017 05:27	WG1053752
1-Methylnaphthalene	0.0386		0.0240	1	12/19/2017 05:27	WG1053752
2-Methylnaphthalene	0.0337		0.0240	1	12/19/2017 05:27	WG1053752
2-Chloronaphthalene	ND		0.0240	1	12/19/2017 05:27	WG1053752
(S) p-Terphenyl-d14	*61.5*		*23.0-120*		*12/19/2017 05:27*	WG1053752
(S) Nitrobenzene-d5	*46.8*		*14.0-149*		*12/19/2017 05:27*	WG1053752
(S) 2-Fluorobiphenyl	*56.0*		*34.0-125*		*12/19/2017 05:27*	WG1053752

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.2		1	12/14/2017 14:33	WG1053554

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0450		0.0240	1	12/13/2017 09:30	WG1051889

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	9290		12.0	1	12/14/2017 15:58	WG1051792
Antimony	ND		2.40	1	12/14/2017 15:58	WG1051792
Arsenic	20.8		2.40	1	12/14/2017 15:58	WG1051792
Barium	75.1		0.601	1	12/14/2017 15:58	WG1051792
Beryllium	0.754		0.240	1	12/14/2017 15:58	WG1051792
Cadmium	ND		0.601	1	12/14/2017 15:58	WG1051792
Chromium	13.8		1.20	1	12/14/2017 15:58	WG1051792
Cobalt	7.82		1.20	1	12/14/2017 15:58	WG1051792
Copper	21.9		2.40	1	12/14/2017 15:58	WG1051792
Lead	11.8		0.601	1	12/14/2017 15:58	WG1051792
Nickel	22.7		2.40	1	12/14/2017 15:58	WG1051792
Selenium	ND		2.40	1	12/14/2017 15:58	WG1051792
Silver	ND		1.20	1	12/14/2017 15:58	WG1051792
Thallium	ND		2.40	1	12/14/2017 15:58	WG1051792
Vanadium	27.6		2.40	1	12/14/2017 15:58	WG1051792
Zinc	73.7		6.01	1	12/14/2017 15:58	WG1051792

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	ND		0.00721	1	12/19/2017 02:51	WG1053752
Acenaphthene	ND		0.00721	1	12/19/2017 02:51	WG1053752
Acenaphthylene	ND		0.00721	1	12/19/2017 02:51	WG1053752
Benzo(a)anthracene	ND		0.00721	1	12/19/2017 02:51	WG1053752
Benzo(a)pyrene	ND		0.00721	1	12/19/2017 02:51	WG1053752
Benzo(b)fluoranthene	ND		0.00721	1	12/19/2017 02:51	WG1053752
Benzo(g,h,i)perylene	ND		0.00721	1	12/19/2017 02:51	WG1053752
Benzo(k)fluoranthene	ND		0.00721	1	12/19/2017 02:51	WG1053752
Chrysene	ND		0.00721	1	12/19/2017 02:51	WG1053752
Dibenz(a,h)anthracene	ND		0.00721	1	12/19/2017 02:51	WG1053752
Fluoranthene	ND		0.00721	1	12/19/2017 02:51	WG1053752
Fluorene	ND		0.00721	1	12/19/2017 02:51	WG1053752
Indeno(1,2,3-cd)pyrene	ND		0.00721	1	12/19/2017 02:51	WG1053752
Naphthalene	ND		0.0240	1	12/19/2017 02:51	WG1053752
Phenanthrene	ND		0.00721	1	12/19/2017 02:51	WG1053752
Pyrene	ND		0.00721	1	12/19/2017 02:51	WG1053752
1-Methylnaphthalene	ND		0.0240	1	12/19/2017 02:51	WG1053752
2-Methylnaphthalene	ND		0.0240	1	12/19/2017 02:51	WG1053752
2-Chloronaphthalene	ND		0.0240	1	12/19/2017 02:51	WG1053752
(S) p-Terphenyl-d14	*55.7*		*23.0-120*		*12/19/2017 02:51*	WG1053752
(S) Nitrobenzene-d5	*49.9*		*14.0-149*		*12/19/2017 02:51*	WG1053752
(S) 2-Fluorobiphenyl	*55.4*		*34.0-125*		*12/19/2017 02:51*	WG1053752

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.6		1	12/14/2017 14:33	WG1053554

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	ND		0.0231	1	12/13/2017 09:33	WG1051889

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	7540		11.5	1	12/14/2017 16:01	WG1051792
Antimony	ND		2.31	1	12/14/2017 16:01	WG1051792
Arsenic	17.2		2.31	1	12/14/2017 16:01	WG1051792
Barium	78.7		0.577	1	12/14/2017 16:01	WG1051792
Beryllium	0.532		0.231	1	12/14/2017 16:01	WG1051792
Cadmium	ND		0.577	1	12/14/2017 16:01	WG1051792
Chromium	11.4		1.15	1	12/14/2017 16:01	WG1051792
Cobalt	14.6		1.15	1	12/14/2017 16:01	WG1051792
Copper	30.4		2.31	1	12/14/2017 16:01	WG1051792
Lead	15.0		0.577	1	12/14/2017 16:01	WG1051792
Nickel	48.9		2.31	1	12/14/2017 16:01	WG1051792
Selenium	ND		2.31	1	12/14/2017 16:01	WG1051792
Silver	ND		1.15	1	12/14/2017 16:01	WG1051792
Thallium	ND		2.31	1	12/14/2017 16:01	WG1051792
Vanadium	18.7		2.31	1	12/14/2017 16:01	WG1051792
Zinc	118		5.77	1	12/14/2017 16:01	WG1051792

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	ND		0.00693	1	12/19/2017 03:14	WG1053752
Acenaphthene	ND		0.00693	1	12/19/2017 03:14	WG1053752
Acenaphthylene	ND		0.00693	1	12/19/2017 03:14	WG1053752
Benzo(a)anthracene	ND		0.00693	1	12/19/2017 03:14	WG1053752
Benzo(a)pyrene	ND		0.00693	1	12/19/2017 03:14	WG1053752
Benzo(b)fluoranthene	ND		0.00693	1	12/19/2017 03:14	WG1053752
Benzo(g,h,i)perylene	ND		0.00693	1	12/19/2017 03:14	WG1053752
Benzo(k)fluoranthene	ND		0.00693	1	12/19/2017 03:14	WG1053752
Chrysene	ND		0.00693	1	12/19/2017 03:14	WG1053752
Dibenz(a,h)anthracene	ND		0.00693	1	12/19/2017 03:14	WG1053752
Fluoranthene	ND		0.00693	1	12/19/2017 03:14	WG1053752
Fluorene	ND		0.00693	1	12/19/2017 03:14	WG1053752
Indeno(1,2,3-cd)pyrene	ND		0.00693	1	12/19/2017 03:14	WG1053752
Naphthalene	ND		0.0231	1	12/19/2017 03:14	WG1053752
Phenanthrene	ND		0.00693	1	12/19/2017 03:14	WG1053752
Pyrene	ND		0.00693	1	12/19/2017 03:14	WG1053752
1-Methylnaphthalene	ND		0.0231	1	12/19/2017 03:14	WG1053752
2-Methylnaphthalene	ND		0.0231	1	12/19/2017 03:14	WG1053752
2-Chloronaphthalene	ND		0.0231	1	12/19/2017 03:14	WG1053752
(S) p-Terphenyl-d14	*60.5*		*23.0-120*		*12/19/2017 03:14*	WG1053752
(S) Nitrobenzene-d5	*42.1*		*14.0-149*		*12/19/2017 03:14*	WG1053752
(S) 2-Fluorobiphenyl	*47.8*		*34.0-125*		*12/19/2017 03:14*	WG1053752

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.7		1	12/14/2017 14:33	WG1053554

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.159		0.0271	1	12/13/2017 09:35	WG1051889

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	7360		13.6	1	12/14/2017 16:04	WG1051792
Antimony	ND		2.71	1	12/14/2017 16:04	WG1051792
Arsenic	21.5		2.71	1	12/14/2017 16:04	WG1051792
Barium	321		0.678	1	12/14/2017 16:04	WG1051792
Beryllium	1.25		0.271	1	12/14/2017 16:04	WG1051792
Cadmium	1.84		0.678	1	12/14/2017 16:04	WG1051792
Chromium	18.8		1.36	1	12/14/2017 16:04	WG1051792
Cobalt	9.13		1.36	1	12/14/2017 16:04	WG1051792
Copper	94.7		2.71	1	12/14/2017 16:04	WG1051792
Lead	432		0.678	1	12/14/2017 16:04	WG1051792
Nickel	30.9		2.71	1	12/14/2017 16:04	WG1051792
Selenium	ND		2.71	1	12/14/2017 16:04	WG1051792
Silver	ND		1.36	1	12/14/2017 16:04	WG1051792
Thallium	ND		2.71	1	12/14/2017 16:04	WG1051792
Vanadium	20.6		2.71	1	12/14/2017 16:04	WG1051792
Zinc	475		6.78	1	12/14/2017 16:04	WG1051792

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	0.0352		0.00814	1	12/19/2017 05:49	WG1053752
Acenaphthene	ND		0.00814	1	12/19/2017 05:49	WG1053752
Acenaphthylene	ND		0.00814	1	12/19/2017 05:49	WG1053752
Benzo(a)anthracene	0.135		0.00814	1	12/19/2017 05:49	WG1053752
Benzo(a)pyrene	0.131		0.00814	1	12/19/2017 05:49	WG1053752
Benzo(b)fluoranthene	0.196		0.00814	1	12/19/2017 05:49	WG1053752
Benzo(g,h,i)perylene	0.0947		0.00814	1	12/19/2017 05:49	WG1053752
Benzo(k)fluoranthene	0.0538		0.00814	1	12/19/2017 05:49	WG1053752
Chrysene	0.151		0.00814	1	12/19/2017 05:49	WG1053752
Dibenz(a,h)anthracene	0.0244		0.00814	1	12/19/2017 05:49	WG1053752
Fluoranthene	0.332		0.00814	1	12/19/2017 05:49	WG1053752
Fluorene	ND		0.00814	1	12/19/2017 05:49	WG1053752
Indeno(1,2,3-cd)pyrene	0.0841		0.00814	1	12/19/2017 05:49	WG1053752
Naphthalene	ND		0.0271	1	12/19/2017 05:49	WG1053752
Phenanthrene	0.131		0.00814	1	12/19/2017 05:49	WG1053752
Pyrene	0.241		0.00814	1	12/19/2017 05:49	WG1053752
1-Methylnaphthalene	ND		0.0271	1	12/19/2017 05:49	WG1053752
2-Methylnaphthalene	ND		0.0271	1	12/19/2017 05:49	WG1053752
2-Chloronaphthalene	ND		0.0271	1	12/19/2017 05:49	WG1053752
(S) p-Terphenyl-d14	*72.9*		*23.0-120*		*12/19/2017 05:49*	WG1053752
(S) Nitrobenzene-d5	*47.1*		*14.0-149*		*12/19/2017 05:49*	WG1053752
(S) 2-Fluorobiphenyl	*59.7*		*34.0-125*		*12/19/2017 05:49*	WG1053752

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.0		1	12/15/2017 10:42	WG1053955

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0647		0.0250	1	12/13/2017 09:38	WG1051889

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	11700		12.5	1	12/14/2017 16:08	WG1051792
Antimony	ND		2.50	1	12/14/2017 16:08	WG1051792
Arsenic	32.4		2.50	1	12/14/2017 16:08	WG1051792
Barium	139		0.625	1	12/14/2017 16:08	WG1051792
Beryllium	0.936		0.250	1	12/14/2017 16:08	WG1051792
Cadmium	ND		0.625	1	12/14/2017 16:08	WG1051792
Chromium	14.9		1.25	1	12/14/2017 16:08	WG1051792
Cobalt	7.36		1.25	1	12/14/2017 16:08	WG1051792
Copper	36.5		2.50	1	12/14/2017 16:08	WG1051792
Lead	20.9		0.625	1	12/14/2017 16:08	WG1051792
Nickel	43.2		2.50	1	12/14/2017 16:08	WG1051792
Selenium	ND		2.50	1	12/14/2017 16:08	WG1051792
Silver	ND		1.25	1	12/14/2017 16:08	WG1051792
Thallium	ND		2.50	1	12/14/2017 16:08	WG1051792
Vanadium	38.0		2.50	1	12/14/2017 16:08	WG1051792
Zinc	122		6.25	1	12/14/2017 16:08	WG1051792

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	ND		0.00750	1	12/19/2017 03:36	WG1053752
Acenaphthene	ND		0.00750	1	12/19/2017 03:36	WG1053752
Acenaphthylene	ND		0.00750	1	12/19/2017 03:36	WG1053752
Benzo(a)anthracene	ND		0.00750	1	12/19/2017 03:36	WG1053752
Benzo(a)pyrene	ND		0.00750	1	12/19/2017 03:36	WG1053752
Benzo(b)fluoranthene	ND		0.00750	1	12/19/2017 03:36	WG1053752
Benzo(g,h,i)perylene	ND		0.00750	1	12/19/2017 03:36	WG1053752
Benzo(k)fluoranthene	ND		0.00750	1	12/19/2017 03:36	WG1053752
Chrysene	ND		0.00750	1	12/19/2017 03:36	WG1053752
Dibenz(a,h)anthracene	ND		0.00750	1	12/19/2017 03:36	WG1053752
Fluoranthene	ND		0.00750	1	12/19/2017 03:36	WG1053752
Fluorene	ND		0.00750	1	12/19/2017 03:36	WG1053752
Indeno(1,2,3-cd)pyrene	ND		0.00750	1	12/19/2017 03:36	WG1053752
Naphthalene	ND		0.0250	1	12/19/2017 03:36	WG1053752
Phenanthrene	ND		0.00750	1	12/19/2017 03:36	WG1053752
Pyrene	ND		0.00750	1	12/19/2017 03:36	WG1053752
1-Methylnaphthalene	ND		0.0250	1	12/19/2017 03:36	WG1053752
2-Methylnaphthalene	ND		0.0250	1	12/19/2017 03:36	WG1053752
2-Chloronaphthalene	ND		0.0250	1	12/19/2017 03:36	WG1053752
(S) p-Terphenyl-d14	*59.8*		*23.0-120*		*12/19/2017 03:36*	WG1053752
(S) Nitrobenzene-d5	*44.2*		*14.0-149*		*12/19/2017 03:36*	WG1053752
(S) 2-Fluorobiphenyl	*51.5*		*34.0-125*		*12/19/2017 03:36*	WG1053752

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.8		1	12/15/2017 10:42	WG1053955

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	ND		0.0225	1	12/13/2017 09:40	WG1051889

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	4330		11.3	1	12/14/2017 16:11	WG1051792
Antimony	ND		2.25	1	12/14/2017 16:11	WG1051792
Arsenic	16.5		2.25	1	12/14/2017 16:11	WG1051792
Barium	40.1		0.563	1	12/14/2017 16:11	WG1051792
Beryllium	0.422		0.225	1	12/14/2017 16:11	WG1051792
Cadmium	0.895		0.563	1	12/14/2017 16:11	WG1051792
Chromium	6.64		1.13	1	12/14/2017 16:11	WG1051792
Cobalt	7.15		1.13	1	12/14/2017 16:11	WG1051792
Copper	34.5		2.25	1	12/14/2017 16:11	WG1051792
Lead	16.9		0.563	1	12/14/2017 16:11	WG1051792
Nickel	31.5		2.25	1	12/14/2017 16:11	WG1051792
Selenium	ND		2.25	1	12/14/2017 16:11	WG1051792
Silver	ND		1.13	1	12/14/2017 16:11	WG1051792
Thallium	ND		2.25	1	12/14/2017 16:11	WG1051792
Vanadium	18.0		2.25	1	12/14/2017 16:11	WG1051792
Zinc	97.7		5.63	1	12/14/2017 16:11	WG1051792

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	ND		0.00675	1	12/19/2017 03:58	WG1053752
Acenaphthene	ND		0.00675	1	12/19/2017 03:58	WG1053752
Acenaphthylene	ND		0.00675	1	12/19/2017 03:58	WG1053752
Benzo(a)anthracene	ND		0.00675	1	12/19/2017 03:58	WG1053752
Benzo(a)pyrene	ND		0.00675	1	12/19/2017 03:58	WG1053752
Benzo(b)fluoranthene	ND		0.00675	1	12/19/2017 03:58	WG1053752
Benzo(g,h,i)perylene	ND		0.00675	1	12/19/2017 03:58	WG1053752
Benzo(k)fluoranthene	ND		0.00675	1	12/19/2017 03:58	WG1053752
Chrysene	ND		0.00675	1	12/19/2017 03:58	WG1053752
Dibenz(a,h)anthracene	ND		0.00675	1	12/19/2017 03:58	WG1053752
Fluoranthene	ND		0.00675	1	12/19/2017 03:58	WG1053752
Fluorene	ND		0.00675	1	12/19/2017 03:58	WG1053752
Indeno(1,2,3-cd)pyrene	ND		0.00675	1	12/19/2017 03:58	WG1053752
Naphthalene	ND		0.0225	1	12/19/2017 03:58	WG1053752
Phenanthrene	ND		0.00675	1	12/19/2017 03:58	WG1053752
Pyrene	ND		0.00675	1	12/19/2017 03:58	WG1053752
1-Methylnaphthalene	ND		0.0225	1	12/19/2017 03:58	WG1053752
2-Methylnaphthalene	ND		0.0225	1	12/19/2017 03:58	WG1053752
2-Chloronaphthalene	ND		0.0225	1	12/19/2017 03:58	WG1053752
(S) p-Terphenyl-d14	*79.8*		*23.0-120*		*12/19/2017 03:58*	WG1053752
(S) Nitrobenzene-d5	*51.3*		*14.0-149*		*12/19/2017 03:58*	WG1053752
(S) 2-Fluorobiphenyl	*75.7*		*34.0-125*		*12/19/2017 03:58*	WG1053752

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.3		1	12/15/2017 10:42	WG1053955

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.788		0.0259	1	12/13/2017 09:43	WG1051889

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	8660		12.9	1	12/14/2017 16:14	WG1051792
Antimony	ND		2.59	1	12/14/2017 16:14	WG1051792
Arsenic	31.6		2.59	1	12/14/2017 16:14	WG1051792
Barium	311		0.647	1	12/14/2017 16:14	WG1051792
Beryllium	0.698		0.259	1	12/14/2017 16:14	WG1051792
Cadmium	4.51		0.647	1	12/14/2017 16:14	WG1051792
Chromium	31.5		1.29	1	12/14/2017 16:14	WG1051792
Cobalt	7.42		1.29	1	12/14/2017 16:14	WG1051792
Copper	103		2.59	1	12/14/2017 16:14	WG1051792
Lead	916		0.647	1	12/14/2017 16:14	WG1051792
Nickel	41.7		2.59	1	12/14/2017 16:14	WG1051792
Selenium	ND		2.59	1	12/14/2017 16:14	WG1051792
Silver	ND		1.29	1	12/14/2017 16:14	WG1051792
Thallium	ND		2.59	1	12/14/2017 16:14	WG1051792
Vanadium	27.4		2.59	1	12/14/2017 16:14	WG1051792
Zinc	1230		6.47	1	12/14/2017 16:14	WG1051792

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	0.331		0.0776	10	12/19/2017 06:12	WG1053752
Acenaphthene	ND		0.0776	10	12/19/2017 06:12	WG1053752
Acenaphthylene	ND		0.0776	10	12/19/2017 06:12	WG1053752
Benzo(a)anthracene	0.621		0.0776	10	12/19/2017 06:12	WG1053752
Benzo(a)pyrene	0.440		0.0776	10	12/19/2017 06:12	WG1053752
Benzo(b)fluoranthene	0.679		0.0776	10	12/19/2017 06:12	WG1053752
Benzo(g,h,i)perylene	0.285		0.0776	10	12/19/2017 06:12	WG1053752
Benzo(k)fluoranthene	0.231		0.0776	10	12/19/2017 06:12	WG1053752
Chrysene	0.658		0.0776	10	12/19/2017 06:12	WG1053752
Dibenz(a,h)anthracene	0.0994		0.0776	10	12/19/2017 06:12	WG1053752
Fluoranthene	1.99		0.0776	10	12/19/2017 06:12	WG1053752
Fluorene	ND		0.0776	10	12/19/2017 06:12	WG1053752
Indeno(1,2,3-cd)pyrene	0.279		0.0776	10	12/19/2017 06:12	WG1053752
Naphthalene	ND		0.259	10	12/19/2017 06:12	WG1053752
Phenanthrene	1.14		0.0776	10	12/19/2017 06:12	WG1053752
Pyrene	1.17		0.0776	10	12/19/2017 06:12	WG1053752
1-Methylnaphthalene	ND		0.259	10	12/19/2017 06:12	WG1053752
2-Methylnaphthalene	ND		0.259	10	12/19/2017 06:12	WG1053752
2-Chloronaphthalene	ND		0.259	10	12/19/2017 06:12	WG1053752
(S) p-Terphenyl-d14	*70.8*		*23.0-120*		*12/19/2017 06:12*	WG1053752
(S) Nitrobenzene-d5	*42.1*		*14.0-149*		*12/19/2017 06:12*	WG1053752
(S) 2-Fluorobiphenyl	*65.9*		*34.0-125*		*12/19/2017 06:12*	WG1053752

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.8		1	12/15/2017 10:42	WG1053955

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.373		0.0264	1	12/13/2017 09:45	WG1051889

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	13500		13.2	1	12/14/2017 16:24	WG1051792
Antimony	ND		2.64	1	12/14/2017 16:24	WG1051792
Arsenic	34.8		2.64	1	12/14/2017 16:24	WG1051792
Barium	697		0.660	1	12/14/2017 16:24	WG1051792
Beryllium	3.14		0.264	1	12/14/2017 16:24	WG1051792
Cadmium	1.87		0.660	1	12/14/2017 16:24	WG1051792
Chromium	54.8		1.32	1	12/14/2017 16:24	WG1051792
Cobalt	13.8		1.32	1	12/14/2017 16:24	WG1051792
Copper	412		2.64	1	12/14/2017 16:24	WG1051792
Lead	802		0.660	1	12/14/2017 16:24	WG1051792
Nickel	54.2		2.64	1	12/14/2017 16:24	WG1051792
Selenium	ND		2.64	1	12/14/2017 16:24	WG1051792
Silver	ND		1.32	1	12/14/2017 16:24	WG1051792
Thallium	ND		2.64	1	12/14/2017 16:24	WG1051792
Vanadium	39.7		2.64	1	12/14/2017 16:24	WG1051792
Zinc	935		6.60	1	12/14/2017 16:24	WG1051792

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	1.39		0.0792	10	12/19/2017 07:18	WG1053752
Acenaphthene	0.258		0.0792	10	12/19/2017 07:18	WG1053752
Acenaphthylene	ND		0.0792	10	12/19/2017 07:18	WG1053752
Benzo(a)anthracene	1.80		0.0792	10	12/19/2017 07:18	WG1053752
Benzo(a)pyrene	1.44		0.0792	10	12/19/2017 07:18	WG1053752
Benzo(b)fluoranthene	2.05		0.0792	10	12/19/2017 07:18	WG1053752
Benzo(g,h,i)perylene	0.961		0.0792	10	12/19/2017 07:18	WG1053752
Benzo(k)fluoranthene	0.581		0.0792	10	12/19/2017 07:18	WG1053752
Chrysene	1.69		0.0792	10	12/19/2017 07:18	WG1053752
Dibenz(a,h)anthracene	0.278		0.0792	10	12/19/2017 07:18	WG1053752
Fluoranthene	5.23		0.0792	10	12/19/2017 07:18	WG1053752
Fluorene	0.445		0.0792	10	12/19/2017 07:18	WG1053752
Indeno(1,2,3-cd)pyrene	0.860		0.0792	10	12/19/2017 07:18	WG1053752
Naphthalene	0.308		0.264	10	12/19/2017 07:18	WG1053752
Phenanthrene	3.97		0.0792	10	12/19/2017 07:18	WG1053752
Pyrene	3.28		0.0792	10	12/19/2017 07:18	WG1053752
1-Methylnaphthalene	0.269		0.264	10	12/19/2017 07:18	WG1053752
2-Methylnaphthalene	0.307		0.264	10	12/19/2017 07:18	WG1053752
2-Chloronaphthalene	ND		0.264	10	12/19/2017 07:18	WG1053752
(S) p-Terphenyl-d14	*62.5*		*23.0-120*		*12/19/2017 07:18*	WG1053752
(S) Nitrobenzene-d5	*43.2*		*14.0-149*		*12/19/2017 07:18*	WG1053752
(S) 2-Fluorobiphenyl	*61.8*		*34.0-125*		*12/19/2017 07:18*	WG1053752

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.4		1	12/15/2017 10:42	WG1053955

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.354		0.0246	1	12/13/2017 09:55	WG1051889

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	8790		12.3	1	12/14/2017 16:28	WG1051792
Antimony	2.57		2.46	1	12/14/2017 16:28	WG1051792
Arsenic	17.7		2.46	1	12/14/2017 16:28	WG1051792
Barium	290		0.614	1	12/14/2017 16:28	WG1051792
Beryllium	1.32		0.246	1	12/14/2017 16:28	WG1051792
Cadmium	0.675		0.614	1	12/14/2017 16:28	WG1051792
Chromium	13.8		1.23	1	12/14/2017 16:28	WG1051792
Cobalt	9.80		1.23	1	12/14/2017 16:28	WG1051792
Copper	50.7		2.46	1	12/14/2017 16:28	WG1051792
Lead	293		0.614	1	12/14/2017 16:28	WG1051792
Nickel	24.7		2.46	1	12/14/2017 16:28	WG1051792
Selenium	ND		2.46	1	12/14/2017 16:28	WG1051792
Silver	ND		1.23	1	12/14/2017 16:28	WG1051792
Thallium	ND		2.46	1	12/14/2017 16:28	WG1051792
Vanadium	25.5		2.46	1	12/14/2017 16:28	WG1051792
Zinc	261		6.14	1	12/14/2017 16:28	WG1051792

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	0.321		0.0737	10	12/19/2017 06:56	WG1053752
Acenaphthene	0.0836		0.0737	10	12/19/2017 06:56	WG1053752
Acenaphthylene	ND		0.0737	10	12/19/2017 06:56	WG1053752
Benzo(a)anthracene	0.633		0.0737	10	12/19/2017 06:56	WG1053752
Benzo(a)pyrene	0.583		0.0737	10	12/19/2017 06:56	WG1053752
Benzo(b)fluoranthene	0.810		0.0737	10	12/19/2017 06:56	WG1053752
Benzo(g,h,i)perylene	0.490		0.0737	10	12/19/2017 06:56	WG1053752
Benzo(k)fluoranthene	0.248		0.0737	10	12/19/2017 06:56	WG1053752
Chrysene	0.720		0.0737	10	12/19/2017 06:56	WG1053752
Dibenz(a,h)anthracene	0.109		0.0737	10	12/19/2017 06:56	WG1053752
Fluoranthene	2.00		0.0737	10	12/19/2017 06:56	WG1053752
Fluorene	0.0884		0.0737	10	12/19/2017 06:56	WG1053752
Indeno(1,2,3-cd)pyrene	0.379		0.0737	10	12/19/2017 06:56	WG1053752
Naphthalene	ND		0.246	10	12/19/2017 06:56	WG1053752
Phenanthrene	1.25		0.0737	10	12/19/2017 06:56	WG1053752
Pyrene	1.29		0.0737	10	12/19/2017 06:56	WG1053752
1-Methylnaphthalene	ND		0.246	10	12/19/2017 06:56	WG1053752
2-Methylnaphthalene	ND		0.246	10	12/19/2017 06:56	WG1053752
2-Chloronaphthalene	ND		0.246	10	12/19/2017 06:56	WG1053752
(S) p-Terphenyl-d14	*61.8*		*23.0-120*		*12/19/2017 06:56*	WG1053752
(S) Nitrobenzene-d5	*39.6*		*14.0-149*		*12/19/2017 06:56*	WG1053752
(S) 2-Fluorobiphenyl	*64.4*		*34.0-125*		*12/19/2017 06:56*	WG1053752

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.8		1	12/15/2017 10:42	WG1053955

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	2.07		0.0528	2	12/13/2017 13:11	WG1051889

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	10400		13.2	1	12/14/2017 16:31	WG1051792
Antimony	ND		2.64	1	12/14/2017 16:31	WG1051792
Arsenic	20.6		2.64	1	12/14/2017 16:31	WG1051792
Barium	238		0.660	1	12/14/2017 16:31	WG1051792
Beryllium	1.16		0.264	1	12/14/2017 16:31	WG1051792
Cadmium	5.40		0.660	1	12/14/2017 16:31	WG1051792
Chromium	26.2		1.32	1	12/14/2017 16:31	WG1051792
Cobalt	10.5		1.32	1	12/14/2017 16:31	WG1051792
Copper	62.0		2.64	1	12/14/2017 16:31	WG1051792
Lead	444		0.660	1	12/14/2017 16:31	WG1051792
Nickel	34.7		2.64	1	12/14/2017 16:31	WG1051792
Selenium	ND		2.64	1	12/14/2017 16:31	WG1051792
Silver	ND		1.32	1	12/14/2017 16:31	WG1051792
Thallium	ND		2.64	1	12/14/2017 16:31	WG1051792
Vanadium	25.6		2.64	1	12/14/2017 16:31	WG1051792
Zinc	20800		132	20	12/14/2017 23:25	WG1051792

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Anthracene	2.16		0.158	20	12/19/2017 08:02	WG1053752
Acenaphthene	0.491		0.158	20	12/19/2017 08:02	WG1053752
Acenaphthylene	ND		0.158	20	12/19/2017 08:02	WG1053752
Benzo(a)anthracene	2.34		0.158	20	12/19/2017 08:02	WG1053752
Benzo(a)pyrene	1.65		0.158	20	12/19/2017 08:02	WG1053752
Benzo(b)fluoranthene	2.39		0.158	20	12/19/2017 08:02	WG1053752
Benzo(g,h,i)perylene	0.937		0.158	20	12/19/2017 08:02	WG1053752
Benzo(k)fluoranthene	0.632		0.158	20	12/19/2017 08:02	WG1053752
Chrysene	2.17		0.158	20	12/19/2017 08:02	WG1053752
Dibenz(a,h)anthracene	0.297		0.158	20	12/19/2017 08:02	WG1053752
Fluoranthene	7.06		0.158	20	12/19/2017 08:02	WG1053752
Fluorene	0.696		0.158	20	12/19/2017 08:02	WG1053752
Indeno(1,2,3-cd)pyrene	0.872		0.158	20	12/19/2017 08:02	WG1053752
Naphthalene	ND		0.528	20	12/19/2017 08:02	WG1053752
Phenanthrene	6.35		0.158	20	12/19/2017 08:02	WG1053752
Pyrene	4.15		0.158	20	12/19/2017 08:02	WG1053752
1-Methylnaphthalene	ND		0.528	20	12/19/2017 08:02	WG1053752
2-Methylnaphthalene	ND		0.528	20	12/19/2017 08:02	WG1053752
2-Chloronaphthalene	ND		0.528	20	12/19/2017 08:02	WG1053752
(S) p-Terphenyl-d14	*64.0*	J7	*23.0-120*		*12/19/2017 08:02*	WG1053752
(S) Nitrobenzene-d5	*43.6*	J7	*14.0-149*		*12/19/2017 08:02*	WG1053752
(S) 2-Fluorobiphenyl	*67.0*	J7	*34.0-125*		*12/19/2017 08:02*	WG1053752

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	0.00367		0.00200	10	12/13/2017 11:57	WG1051876

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	98.8		0.200	1	12/13/2017 05:00	WG1052534
Barium	1.58		0.00500	1	12/13/2017 05:00	WG1052534
Beryllium	0.00941		0.00200	1	12/13/2017 05:00	WG1052534
Cadmium	0.0170		0.00200	1	12/13/2017 05:00	WG1052534
Chromium	0.182		0.0100	1	12/13/2017 05:00	WG1052534
Cobalt	0.194		0.0500	5	12/13/2017 10:11	WG1052534
Copper	0.669		0.0100	1	12/13/2017 05:00	WG1052534
Lead	1.19		0.0250	5	12/13/2017 10:11	WG1052534
Nickel	0.621		0.0500	5	12/13/2017 10:11	WG1052534
Selenium	ND		0.0100	1	12/13/2017 05:00	WG1052534
Silver	ND		0.00500	1	12/13/2017 05:00	WG1052534
Vanadium	0.197		0.0200	1	12/13/2017 05:00	WG1052534
Zinc	2.10		0.0500	1	12/13/2017 05:00	WG1052534

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.00200	1	12/16/2017 21:39	WG1052833
Arsenic	0.0626		0.00200	1	12/15/2017 19:38	WG1052833
Thallium	0.00855		0.00200	1	12/16/2017 21:39	WG1052833

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0000665	1.33	12/14/2017 19:49	WG1052776
Acenaphthene	ND		0.0000665	1.33	12/14/2017 19:49	WG1052776
Acenaphthylene	ND		0.0000665	1.33	12/14/2017 19:49	WG1052776
Benzo(a)anthracene	0.0000841		0.0000665	1.33	12/14/2017 19:49	WG1052776
Benzo(a)pyrene	ND		0.0000665	1.33	12/14/2017 19:49	WG1052776
Benzo(b)fluoranthene	0.0000777		0.0000665	1.33	12/14/2017 19:49	WG1052776
Benzo(g,h,i)perylene	ND		0.0000665	1.33	12/14/2017 19:49	WG1052776
Benzo(k)fluoranthene	ND		0.0000665	1.33	12/14/2017 19:49	WG1052776
Chrysene	0.0000719		0.0000665	1.33	12/14/2017 19:49	WG1052776
Dibenz(a,h)anthracene	ND		0.0000665	1.33	12/14/2017 19:49	WG1052776
Fluoranthene	0.000239		0.0000665	1.33	12/14/2017 19:49	WG1052776
Fluorene	ND		0.0000665	1.33	12/14/2017 19:49	WG1052776
Indeno(1,2,3-cd)pyrene	ND		0.0000665	1.33	12/14/2017 19:49	WG1052776
Naphthalene	ND		0.000332	1.33	12/14/2017 19:49	WG1052776
Phenanthrene	0.000225		0.0000665	1.33	12/14/2017 19:49	WG1052776
Pyrene	0.000143		0.0000665	1.33	12/14/2017 19:49	WG1052776
1-Methylnaphthalene	ND		0.000332	1.33	12/14/2017 19:49	WG1052776
2-Methylnaphthalene	ND		0.000332	1.33	12/14/2017 19:49	WG1052776
2-Chloronaphthalene	ND		0.000332	1.33	12/14/2017 19:49	WG1052776
(S) Nitrobenzene-d5	*87.3*		*31.0-160*		*12/14/2017 19:49*	WG1052776
(S) 2-Fluorobiphenyl	*93.4*		*48.0-148*		*12/14/2017 19:49*	WG1052776
(S) p-Terphenyl-d14	*82.0*		*37.0-146*		*12/14/2017 19:49*	WG1052776

Sample Narrative:

L956532-57 WG1052776: Dilution due to sample volume

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	0.000879		0.000200	1	12/13/2017 11:59	WG1051876

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	9.86		0.200	1	12/13/2017 05:03	WG1052534
Barium	1.56		0.00500	1	12/13/2017 05:03	WG1052534
Beryllium	ND		0.00200	1	12/13/2017 05:03	WG1052534
Cadmium	0.0143		0.00200	1	12/13/2017 05:03	WG1052534
Chromium	0.0452		0.0100	1	12/13/2017 05:03	WG1052534
Cobalt	0.0172		0.0100	1	12/13/2017 05:03	WG1052534
Copper	2.09		0.0100	1	12/13/2017 05:03	WG1052534
Lead	3.12		0.00500	1	12/13/2017 05:03	WG1052534
Nickel	0.0685		0.0100	1	12/13/2017 05:03	WG1052534
Selenium	ND		0.0100	1	12/13/2017 05:03	WG1052534
Silver	ND		0.00500	1	12/13/2017 05:03	WG1052534
Vanadium	0.0347	B	0.0200	1	12/13/2017 05:03	WG1052534
Zinc	4.01		0.0500	1	12/13/2017 05:03	WG1052534

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	0.0128	B	0.00200	1	12/15/2017 19:41	WG1052833
Arsenic	0.0273		0.00200	1	12/15/2017 19:41	WG1052833
Thallium	ND		0.00200	1	12/15/2017 19:41	WG1052833

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0000500	1	12/15/2017 00:38	WG1052776
Acenaphthene	ND		0.0000500	1	12/15/2017 00:38	WG1052776
Acenaphthylene	ND		0.0000500	1	12/15/2017 00:38	WG1052776
Benzo(a)anthracene	ND		0.0000500	1	12/15/2017 00:38	WG1052776
Benzo(a)pyrene	ND		0.0000500	1	12/15/2017 00:38	WG1052776
Benzo(b)fluoranthene	0.0000516		0.0000500	1	12/15/2017 00:38	WG1052776
Benzo(g,h,i)perylene	ND		0.0000500	1	12/15/2017 00:38	WG1052776
Benzo(k)fluoranthene	ND		0.0000500	1	12/15/2017 00:38	WG1052776
Chrysene	ND		0.0000500	1	12/15/2017 00:38	WG1052776
Dibenz(a,h)anthracene	ND		0.0000500	1	12/15/2017 00:38	WG1052776
Fluoranthene	0.0000837		0.0000500	1	12/15/2017 00:38	WG1052776
Fluorene	ND		0.0000500	1	12/15/2017 00:38	WG1052776
Indeno(1,2,3-cd)pyrene	ND		0.0000500	1	12/15/2017 00:38	WG1052776
Naphthalene	ND		0.000250	1	12/15/2017 00:38	WG1052776
Phenanthrene	ND		0.0000500	1	12/15/2017 00:38	WG1052776
Pyrene	0.0000626		0.0000500	1	12/15/2017 00:38	WG1052776
1-Methylnaphthalene	ND		0.000250	1	12/15/2017 00:38	WG1052776
2-Methylnaphthalene	ND		0.000250	1	12/15/2017 00:38	WG1052776
2-Chloronaphthalene	ND		0.000250	1	12/15/2017 00:38	WG1052776
(S) Nitrobenzene-d5	*85.8*		*31.0-160*		*12/15/2017 00:38*	WG1052776
(S) 2-Fluorobiphenyl	*89.6*		*48.0-148*		*12/15/2017 00:38*	WG1052776
(S) p-Terphenyl-d14	*75.1*		*37.0-146*		*12/15/2017 00:38*	WG1052776

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	0.00205		0.000200	1	12/13/2017 12:01	WG1051876

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	52.1		0.200	1	12/13/2017 05:07	WG1052534
Barium	3.67		0.00500	1	12/13/2017 05:07	WG1052534
Beryllium	0.00621		0.00200	1	12/13/2017 05:07	WG1052534
Cadmium	0.0279		0.00200	1	12/13/2017 05:07	WG1052534
Chromium	0.178		0.0100	1	12/13/2017 05:07	WG1052534
Cobalt	0.155		0.0100	1	12/13/2017 05:07	WG1052534
Copper	0.518		0.0100	1	12/13/2017 05:07	WG1052534
Lead	0.720		0.00500	1	12/13/2017 05:07	WG1052534
Nickel	0.492		0.0100	1	12/13/2017 05:07	WG1052534
Selenium	ND		0.0100	1	12/13/2017 05:07	WG1052534
Silver	ND		0.00500	1	12/13/2017 05:07	WG1052534
Vanadium	0.205		0.0200	1	12/13/2017 05:07	WG1052534
Zinc	1.54		0.0500	1	12/13/2017 05:07	WG1052534

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	0.00631	B	0.00200	1	12/15/2017 19:45	WG1052833
Arsenic	0.0969		0.00200	1	12/15/2017 19:45	WG1052833
Thallium	0.0196		0.00200	1	12/15/2017 19:45	WG1052833

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0000500	1	12/14/2017 20:51	WG1052776
Acenaphthene	ND		0.0000500	1	12/14/2017 20:51	WG1052776
Acenaphthylene	ND		0.0000500	1	12/14/2017 20:51	WG1052776
Benzo(a)anthracene	ND		0.0000500	1	12/14/2017 20:51	WG1052776
Benzo(a)pyrene	ND		0.0000500	1	12/14/2017 20:51	WG1052776
Benzo(b)fluoranthene	ND		0.0000500	1	12/14/2017 20:51	WG1052776
Benzo(g,h,i)perylene	ND		0.0000500	1	12/14/2017 20:51	WG1052776
Benzo(k)fluoranthene	ND		0.0000500	1	12/14/2017 20:51	WG1052776
Chrysene	ND		0.0000500	1	12/14/2017 20:51	WG1052776
Dibenz(a,h)anthracene	ND		0.0000500	1	12/14/2017 20:51	WG1052776
Fluoranthene	ND		0.0000500	1	12/14/2017 20:51	WG1052776
Fluorene	ND		0.0000500	1	12/14/2017 20:51	WG1052776
Indeno(1,2,3-cd)pyrene	ND		0.0000500	1	12/14/2017 20:51	WG1052776
Naphthalene	ND		0.000250	1	12/14/2017 20:51	WG1052776
Phenanthrene	ND		0.0000500	1	12/14/2017 20:51	WG1052776
Pyrene	ND		0.0000500	1	12/14/2017 20:51	WG1052776
1-Methylnaphthalene	ND		0.000250	1	12/14/2017 20:51	WG1052776
2-Methylnaphthalene	ND		0.000250	1	12/14/2017 20:51	WG1052776
2-Chloronaphthalene	ND		0.000250	1	12/14/2017 20:51	WG1052776
(S) Nitrobenzene-d5	*86.7*		*31.0-160*		*12/14/2017 20:51*	WG1052776
(S) 2-Fluorobiphenyl	*93.3*		*48.0-148*		*12/14/2017 20:51*	WG1052776
(S) p-Terphenyl-d14	*83.3*		*37.0-146*		*12/14/2017 20:51*	WG1052776

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	0.00240		0.000200	1	12/13/2017 12:03	WG1051876

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	49.6		0.200	1	12/13/2017 05:10	WG1052534
Barium	0.901		0.00500	1	12/13/2017 05:10	WG1052534
Beryllium	0.00516		0.00200	1	12/13/2017 05:10	WG1052534
Cadmium	0.0106		0.00200	1	12/13/2017 05:10	WG1052534
Chromium	0.101		0.0100	1	12/13/2017 05:10	WG1052534
Cobalt	0.324		0.0100	1	12/13/2017 05:10	WG1052534
Copper	0.596		0.0100	1	12/13/2017 05:10	WG1052534
Lead	1.10		0.00500	1	12/13/2017 05:10	WG1052534
Nickel	0.609		0.0100	1	12/13/2017 05:10	WG1052534
Selenium	ND		0.0100	1	12/13/2017 05:10	WG1052534
Silver	ND		0.00500	1	12/13/2017 05:10	WG1052534
Vanadium	0.125		0.0200	1	12/13/2017 05:10	WG1052534
Zinc	2.86		0.0500	1	12/13/2017 05:10	WG1052534

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	0.0140	B	0.00200	1	12/15/2017 19:56	WG1052833
Arsenic	1.09		0.00200	1	12/15/2017 19:56	WG1052833
Thallium	0.0152		0.00200	1	12/15/2017 19:56	WG1052833

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0000500	1	12/14/2017 21:11	WG1052776
Acenaphthene	ND		0.0000500	1	12/14/2017 21:11	WG1052776
Acenaphthylene	ND		0.0000500	1	12/14/2017 21:11	WG1052776
Benzo(a)anthracene	ND		0.0000500	1	12/14/2017 21:11	WG1052776
Benzo(a)pyrene	ND		0.0000500	1	12/14/2017 21:11	WG1052776
Benzo(b)fluoranthene	ND		0.0000500	1	12/14/2017 21:11	WG1052776
Benzo(g,h,i)perylene	ND		0.0000500	1	12/14/2017 21:11	WG1052776
Benzo(k)fluoranthene	ND		0.0000500	1	12/14/2017 21:11	WG1052776
Chrysene	ND		0.0000500	1	12/14/2017 21:11	WG1052776
Dibenz(a,h)anthracene	ND		0.0000500	1	12/14/2017 21:11	WG1052776
Fluoranthene	0.0000552		0.0000500	1	12/14/2017 21:11	WG1052776
Fluorene	ND		0.0000500	1	12/14/2017 21:11	WG1052776
Indeno(1,2,3-cd)pyrene	ND		0.0000500	1	12/14/2017 21:11	WG1052776
Naphthalene	ND		0.000250	1	12/14/2017 21:11	WG1052776
Phenanthrene	ND		0.0000500	1	12/14/2017 21:11	WG1052776
Pyrene	ND		0.0000500	1	12/14/2017 21:11	WG1052776
1-Methylnaphthalene	ND		0.000250	1	12/14/2017 21:11	WG1052776
2-Methylnaphthalene	ND		0.000250	1	12/14/2017 21:11	WG1052776
2-Chloronaphthalene	ND		0.000250	1	12/14/2017 21:11	WG1052776
(S) Nitrobenzene-d5	*86.7*		*31.0-160*		*12/14/2017 21:11*	WG1052776
(S) 2-Fluorobiphenyl	*92.7*		*48.0-148*		*12/14/2017 21:11*	WG1052776
(S) p-Terphenyl-d14	*84.2*		*37.0-146*		*12/14/2017 21:11*	WG1052776

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	0.00425		0.000200	1	12/13/2017 12:13	WG1051876

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	49.3		0.200	1	12/13/2017 05:14	WG1052534
Barium	4.89		0.00500	1	12/13/2017 05:14	WG1052534
Beryllium	0.00622		0.00200	1	12/13/2017 05:14	WG1052534
Cadmium	0.0478		0.00200	1	12/13/2017 05:14	WG1052534
Chromium	0.0946		0.0100	1	12/13/2017 05:14	WG1052534
Cobalt	0.255		0.0100	1	12/13/2017 05:14	WG1052534
Copper	1.32		0.0100	1	12/13/2017 05:14	WG1052534
Lead	1.01		0.00500	1	12/13/2017 05:14	WG1052534
Nickel	1.07		0.0100	1	12/13/2017 05:14	WG1052534
Selenium	ND		0.0100	1	12/13/2017 05:14	WG1052534
Silver	ND		0.00500	1	12/13/2017 05:14	WG1052534
Vanadium	0.156		0.0200	1	12/13/2017 05:14	WG1052534
Zinc	2.03		0.0500	1	12/13/2017 05:14	WG1052534

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	0.0112	B	0.00200	1	12/15/2017 20:00	WG1052833
Arsenic	1.03		0.00200	1	12/15/2017 20:00	WG1052833
Thallium	0.0519		0.00200	1	12/15/2017 20:00	WG1052833

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0000500	1	12/14/2017 21:32	WG1052776
Acenaphthene	ND		0.0000500	1	12/14/2017 21:32	WG1052776
Acenaphthylene	ND		0.0000500	1	12/14/2017 21:32	WG1052776
Benzo(a)anthracene	ND		0.0000500	1	12/14/2017 21:32	WG1052776
Benzo(a)pyrene	ND		0.0000500	1	12/14/2017 21:32	WG1052776
Benzo(b)fluoranthene	ND		0.0000500	1	12/14/2017 21:32	WG1052776
Benzo(g,h,i)perylene	ND		0.0000500	1	12/14/2017 21:32	WG1052776
Benzo(k)fluoranthene	ND		0.0000500	1	12/14/2017 21:32	WG1052776
Chrysene	ND		0.0000500	1	12/14/2017 21:32	WG1052776
Dibenz(a,h)anthracene	ND		0.0000500	1	12/14/2017 21:32	WG1052776
Fluoranthene	ND		0.0000500	1	12/14/2017 21:32	WG1052776
Fluorene	ND		0.0000500	1	12/14/2017 21:32	WG1052776
Indeno(1,2,3-cd)pyrene	ND		0.0000500	1	12/14/2017 21:32	WG1052776
Naphthalene	ND		0.000250	1	12/14/2017 21:32	WG1052776
Phenanthrene	ND		0.0000500	1	12/14/2017 21:32	WG1052776
Pyrene	ND		0.0000500	1	12/14/2017 21:32	WG1052776
1-Methylnaphthalene	ND		0.000250	1	12/14/2017 21:32	WG1052776
2-Methylnaphthalene	ND		0.000250	1	12/14/2017 21:32	WG1052776
2-Chloronaphthalene	ND		0.000250	1	12/14/2017 21:32	WG1052776
(S) Nitrobenzene-d5	*86.3*		*31.0-160*		*12/14/2017 21:32*	WG1052776
(S) 2-Fluorobiphenyl	*95.0*		*48.0-148*		*12/14/2017 21:32*	WG1052776
(S) p-Terphenyl-d14	*85.2*		*37.0-146*		*12/14/2017 21:32*	WG1052776

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	0.000315		0.000200	1	12/13/2017 12:15	WG1051876

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	22.0		0.200	1	12/13/2017 05:17	WG1052534
Barium	0.486		0.00500	1	12/13/2017 05:17	WG1052534
Beryllium	0.00303		0.00200	1	12/13/2017 05:17	WG1052534
Cadmium	0.00363		0.00200	1	12/13/2017 05:17	WG1052534
Chromium	0.0487		0.0100	1	12/13/2017 05:17	WG1052534
Cobalt	0.0301		0.0100	1	12/13/2017 05:17	WG1052534
Copper	0.264		0.0100	1	12/13/2017 05:17	WG1052534
Lead	0.295		0.00500	1	12/13/2017 05:17	WG1052534
Nickel	0.114		0.0100	1	12/13/2017 05:17	WG1052534
Selenium	ND		0.0100	1	12/13/2017 05:17	WG1052534
Silver	ND		0.00500	1	12/13/2017 05:17	WG1052534
Vanadium	0.0727		0.0200	1	12/13/2017 05:17	WG1052534
Zinc	0.719		0.0500	1	12/13/2017 05:17	WG1052534

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	0.00827	B	0.00200	1	12/15/2017 20:03	WG1052833
Arsenic	0.282		0.00200	1	12/15/2017 20:03	WG1052833
Thallium	0.00910		0.00200	1	12/15/2017 20:03	WG1052833

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0000500	1	12/14/2017 21:53	WG1052776
Acenaphthene	ND		0.0000500	1	12/14/2017 21:53	WG1052776
Acenaphthylene	ND		0.0000500	1	12/14/2017 21:53	WG1052776
Benzo(a)anthracene	ND		0.0000500	1	12/14/2017 21:53	WG1052776
Benzo(a)pyrene	ND		0.0000500	1	12/14/2017 21:53	WG1052776
Benzo(b)fluoranthene	ND		0.0000500	1	12/14/2017 21:53	WG1052776
Benzo(g,h,i)perylene	ND		0.0000500	1	12/14/2017 21:53	WG1052776
Benzo(k)fluoranthene	ND		0.0000500	1	12/14/2017 21:53	WG1052776
Chrysene	ND		0.0000500	1	12/14/2017 21:53	WG1052776
Dibenz(a,h)anthracene	ND		0.0000500	1	12/14/2017 21:53	WG1052776
Fluoranthene	ND		0.0000500	1	12/14/2017 21:53	WG1052776
Fluorene	ND		0.0000500	1	12/14/2017 21:53	WG1052776
Indeno(1,2,3-cd)pyrene	ND		0.0000500	1	12/14/2017 21:53	WG1052776
Naphthalene	ND		0.000250	1	12/14/2017 21:53	WG1052776
Phenanthrene	ND		0.0000500	1	12/14/2017 21:53	WG1052776
Pyrene	ND		0.0000500	1	12/14/2017 21:53	WG1052776
1-Methylnaphthalene	ND		0.000250	1	12/14/2017 21:53	WG1052776
2-Methylnaphthalene	ND		0.000250	1	12/14/2017 21:53	WG1052776
2-Chloronaphthalene	ND		0.000250	1	12/14/2017 21:53	WG1052776
(S) Nitrobenzene-d5	*80.3*		*31.0-160*		*12/14/2017 21:53*	WG1052776
(S) 2-Fluorobiphenyl	*81.5*		*48.0-148*		*12/14/2017 21:53*	WG1052776
(S) p-Terphenyl-d14	*62.4*		*37.0-146*		*12/14/2017 21:53*	WG1052776

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	0.00197		0.000200	1	12/13/2017 12:17	WG1051876

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	77.3		0.200	1	12/13/2017 05:21	WG1052534
Barium	2.40		0.00500	1	12/13/2017 05:21	WG1052534
Beryllium	0.00570		0.00200	1	12/13/2017 05:21	WG1052534
Cadmium	0.0267		0.00200	1	12/13/2017 05:21	WG1052534
Chromium	0.161		0.0100	1	12/13/2017 05:21	WG1052534
Cobalt	0.143		0.0100	1	12/13/2017 05:21	WG1052534
Copper	0.415		0.0100	1	12/13/2017 05:21	WG1052534
Lead	1.60		0.00500	1	12/13/2017 05:21	WG1052534
Nickel	0.776		0.0100	1	12/13/2017 05:21	WG1052534
Selenium	ND		0.0100	1	12/13/2017 05:21	WG1052534
Silver	ND		0.00500	1	12/13/2017 05:21	WG1052534
Vanadium	0.205		0.0200	1	12/13/2017 05:21	WG1052534
Zinc	2.36		0.0500	1	12/13/2017 05:21	WG1052534

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	0.00992	B	0.00200	1	12/15/2017 20:07	WG1052833
Arsenic	0.512		0.00200	1	12/15/2017 20:07	WG1052833
Thallium	0.0359		0.00200	1	12/15/2017 20:07	WG1052833

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0000500	1	12/14/2017 22:13	WG1052776
Acenaphthene	ND		0.0000500	1	12/14/2017 22:13	WG1052776
Acenaphthylene	ND		0.0000500	1	12/14/2017 22:13	WG1052776
Benzo(a)anthracene	ND		0.0000500	1	12/14/2017 22:13	WG1052776
Benzo(a)pyrene	ND		0.0000500	1	12/14/2017 22:13	WG1052776
Benzo(b)fluoranthene	ND		0.0000500	1	12/14/2017 22:13	WG1052776
Benzo(g,h,i)perylene	ND		0.0000500	1	12/14/2017 22:13	WG1052776
Benzo(k)fluoranthene	ND		0.0000500	1	12/14/2017 22:13	WG1052776
Chrysene	ND		0.0000500	1	12/14/2017 22:13	WG1052776
Dibenz(a,h)anthracene	ND		0.0000500	1	12/14/2017 22:13	WG1052776
Fluoranthene	ND		0.0000500	1	12/14/2017 22:13	WG1052776
Fluorene	ND		0.0000500	1	12/14/2017 22:13	WG1052776
Indeno(1,2,3-cd)pyrene	ND		0.0000500	1	12/14/2017 22:13	WG1052776
Naphthalene	ND		0.000250	1	12/14/2017 22:13	WG1052776
Phenanthrene	ND		0.0000500	1	12/14/2017 22:13	WG1052776
Pyrene	ND		0.0000500	1	12/14/2017 22:13	WG1052776
1-Methylnaphthalene	ND		0.000250	1	12/14/2017 22:13	WG1052776
2-Methylnaphthalene	ND		0.000250	1	12/14/2017 22:13	WG1052776
2-Chloronaphthalene	ND		0.000250	1	12/14/2017 22:13	WG1052776
(S) Nitrobenzene-d5	*86.9*		*31.0-160*		*12/14/2017 22:13*	WG1052776
(S) 2-Fluorobiphenyl	*91.8*		*48.0-148*		*12/14/2017 22:13*	WG1052776
(S) p-Terphenyl-d14	*79.6*		*37.0-146*		*12/14/2017 22:13*	WG1052776

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	0.000410		0.000200	1	12/13/2017 12:19	WG1051876

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	39.2		0.200	1	12/13/2017 05:24	WG1052534
Barium	0.632		0.00500	1	12/13/2017 05:24	WG1052534
Beryllium	0.00316		0.00200	1	12/13/2017 05:24	WG1052534
Cadmium	0.00492		0.00200	1	12/13/2017 05:24	WG1052534
Chromium	0.0666		0.0100	1	12/13/2017 05:24	WG1052534
Cobalt	0.0697		0.0100	1	12/13/2017 05:24	WG1052534
Copper	0.366		0.0100	1	12/13/2017 05:24	WG1052534
Lead	0.304		0.00500	1	12/13/2017 05:24	WG1052534
Nickel	0.226		0.0100	1	12/13/2017 05:24	WG1052534
Selenium	0.0100		0.0100	1	12/13/2017 05:24	WG1052534
Silver	ND		0.00500	1	12/13/2017 05:24	WG1052534
Vanadium	0.109		0.0200	1	12/13/2017 05:24	WG1052534
Zinc	0.874		0.0500	1	12/13/2017 05:24	WG1052534

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	0.00764	B	0.00200	1	12/15/2017 20:11	WG1052833
Arsenic	0.438		0.00200	1	12/15/2017 20:11	WG1052833
Thallium	0.00603		0.00200	1	12/15/2017 20:11	WG1052833

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0000500	1	12/14/2017 22:34	WG1052776
Acenaphthene	ND		0.0000500	1	12/14/2017 22:34	WG1052776
Acenaphthylene	ND		0.0000500	1	12/14/2017 22:34	WG1052776
Benzo(a)anthracene	ND		0.0000500	1	12/14/2017 22:34	WG1052776
Benzo(a)pyrene	ND		0.0000500	1	12/14/2017 22:34	WG1052776
Benzo(b)fluoranthene	ND		0.0000500	1	12/14/2017 22:34	WG1052776
Benzo(g,h,i)perylene	ND		0.0000500	1	12/14/2017 22:34	WG1052776
Benzo(k)fluoranthene	ND		0.0000500	1	12/14/2017 22:34	WG1052776
Chrysene	ND		0.0000500	1	12/14/2017 22:34	WG1052776
Dibenz(a,h)anthracene	ND		0.0000500	1	12/14/2017 22:34	WG1052776
Fluoranthene	ND		0.0000500	1	12/14/2017 22:34	WG1052776
Fluorene	ND		0.0000500	1	12/14/2017 22:34	WG1052776
Indeno(1,2,3-cd)pyrene	ND		0.0000500	1	12/14/2017 22:34	WG1052776
Naphthalene	ND		0.000250	1	12/14/2017 22:34	WG1052776
Phenanthrene	ND		0.0000500	1	12/14/2017 22:34	WG1052776
Pyrene	ND		0.0000500	1	12/14/2017 22:34	WG1052776
1-Methylnaphthalene	ND		0.000250	1	12/14/2017 22:34	WG1052776
2-Methylnaphthalene	ND		0.000250	1	12/14/2017 22:34	WG1052776
2-Chloronaphthalene	ND		0.000250	1	12/14/2017 22:34	WG1052776
(S) Nitrobenzene-d5	*90.2*		*31.0-160*		*12/14/2017 22:34*	WG1052776
(S) 2-Fluorobiphenyl	*97.2*		*48.0-148*		*12/14/2017 22:34*	WG1052776
(S) p-Terphenyl-d14	*77.8*		*37.0-146*		*12/14/2017 22:34*	WG1052776

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	0.00822		0.000400	2	12/13/2017 17:19	WG1051876

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	99.2		0.200	1	12/13/2017 05:34	WG1052534
Barium	2.71		0.00500	1	12/13/2017 05:34	WG1052534
Beryllium	0.00830		0.00200	1	12/13/2017 05:34	WG1052534
Cadmium	0.0418		0.00200	1	12/13/2017 05:34	WG1052534
Chromium	0.207		0.0100	1	12/13/2017 05:34	WG1052534
Cobalt	0.190		0.0100	1	12/13/2017 05:34	WG1052534
Copper	1.37		0.0100	1	12/13/2017 05:34	WG1052534
Lead	2.19		0.00500	1	12/13/2017 05:34	WG1052534
Nickel	0.603		0.0100	1	12/13/2017 05:34	WG1052534
Selenium	0.0186		0.0100	1	12/13/2017 05:34	WG1052534
Silver	ND		0.00500	1	12/13/2017 05:34	WG1052534
Vanadium	0.276		0.0200	1	12/13/2017 05:34	WG1052534
Zinc	5.20		0.0500	1	12/13/2017 05:34	WG1052534

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	0.00716	B	0.00200	1	12/15/2017 20:15	WG1052833
Arsenic	0.471		0.00200	1	12/15/2017 20:15	WG1052833
Thallium	0.0436		0.00200	1	12/15/2017 20:15	WG1052833

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0000570	1.14	12/14/2017 23:36	WG1052776
Acenaphthene	ND		0.0000570	1.14	12/14/2017 23:36	WG1052776
Acenaphthylene	ND		0.0000570	1.14	12/14/2017 23:36	WG1052776
Benzo(a)anthracene	ND		0.0000570	1.14	12/14/2017 23:36	WG1052776
Benzo(a)pyrene	ND		0.0000570	1.14	12/14/2017 23:36	WG1052776
Benzo(b)fluoranthene	ND		0.0000570	1.14	12/14/2017 23:36	WG1052776
Benzo(g,h,i)perylene	ND		0.0000570	1.14	12/14/2017 23:36	WG1052776
Benzo(k)fluoranthene	ND		0.0000570	1.14	12/14/2017 23:36	WG1052776
Chrysene	ND		0.0000570	1.14	12/14/2017 23:36	WG1052776
Dibenz(a,h)anthracene	ND		0.0000570	1.14	12/14/2017 23:36	WG1052776
Fluoranthene	ND		0.0000570	1.14	12/14/2017 23:36	WG1052776
Fluorene	ND		0.0000570	1.14	12/14/2017 23:36	WG1052776
Indeno(1,2,3-cd)pyrene	ND		0.0000570	1.14	12/14/2017 23:36	WG1052776
Naphthalene	ND		0.000285	1.14	12/14/2017 23:36	WG1052776
Phenanthrene	ND		0.0000570	1.14	12/14/2017 23:36	WG1052776
Pyrene	ND		0.0000570	1.14	12/14/2017 23:36	WG1052776
1-Methylnaphthalene	ND		0.000285	1.14	12/14/2017 23:36	WG1052776
2-Methylnaphthalene	ND		0.000285	1.14	12/14/2017 23:36	WG1052776
2-Chloronaphthalene	ND		0.000285	1.14	12/14/2017 23:36	WG1052776
(S) Nitrobenzene-d5	*84.5*		*31.0-160*		*12/14/2017 23:36*	WG1052776
(S) 2-Fluorobiphenyl	*92.0*		*48.0-148*		*12/14/2017 23:36*	WG1052776
(S) p-Terphenyl-d14	*70.7*		*37.0-146*		*12/14/2017 23:36*	WG1052776

Sample Narrative:

L956532-65 WG1052776: Dilution due to sample volume

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	0.00319		0.000200	1	12/13/2017 12:24	WG1051876

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	102		0.200	1	12/13/2017 05:38	WG1052534
Barium	2.36		0.00500	1	12/13/2017 05:38	WG1052534
Beryllium	0.00802		0.00200	1	12/13/2017 05:38	WG1052534
Cadmium	0.0385		0.00200	1	12/13/2017 05:38	WG1052534
Chromium	0.164		0.0100	1	12/13/2017 05:38	WG1052534
Cobalt	0.212		0.0100	1	12/13/2017 05:38	WG1052534
Copper	0.566		0.0100	1	12/13/2017 05:38	WG1052534
Lead	0.555		0.00500	1	12/13/2017 05:38	WG1052534
Nickel	0.780		0.0100	1	12/13/2017 05:38	WG1052534
Selenium	0.0123		0.0100	1	12/13/2017 05:38	WG1052534
Silver	ND		0.00500	1	12/13/2017 05:38	WG1052534
Vanadium	0.515		0.0200	1	12/13/2017 05:38	WG1052534
Zinc	2.82		0.0500	1	12/13/2017 05:38	WG1052534

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.00200	1	12/16/2017 21:43	WG1052833
Arsenic	0.217		0.00200	1	12/15/2017 20:18	WG1052833
Thallium	0.0195		0.00200	1	12/16/2017 21:43	WG1052833

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0000570	1.14	12/14/2017 23:57	WG1052776
Acenaphthene	ND		0.0000570	1.14	12/14/2017 23:57	WG1052776
Acenaphthylene	ND		0.0000570	1.14	12/14/2017 23:57	WG1052776
Benzo(a)anthracene	ND		0.0000570	1.14	12/14/2017 23:57	WG1052776
Benzo(a)pyrene	ND		0.0000570	1.14	12/14/2017 23:57	WG1052776
Benzo(b)fluoranthene	ND		0.0000570	1.14	12/14/2017 23:57	WG1052776
Benzo(g,h,i)perylene	ND		0.0000570	1.14	12/14/2017 23:57	WG1052776
Benzo(k)fluoranthene	ND		0.0000570	1.14	12/14/2017 23:57	WG1052776
Chrysene	ND		0.0000570	1.14	12/14/2017 23:57	WG1052776
Dibenz(a,h)anthracene	ND		0.0000570	1.14	12/14/2017 23:57	WG1052776
Fluoranthene	ND		0.0000570	1.14	12/14/2017 23:57	WG1052776
Fluorene	ND		0.0000570	1.14	12/14/2017 23:57	WG1052776
Indeno(1,2,3-cd)pyrene	ND		0.0000570	1.14	12/14/2017 23:57	WG1052776
Naphthalene	ND		0.000285	1.14	12/14/2017 23:57	WG1052776
Phenanthrene	ND		0.0000570	1.14	12/14/2017 23:57	WG1052776
Pyrene	ND		0.0000570	1.14	12/14/2017 23:57	WG1052776
1-Methylnaphthalene	ND		0.000285	1.14	12/14/2017 23:57	WG1052776
2-Methylnaphthalene	ND		0.000285	1.14	12/14/2017 23:57	WG1052776
2-Chloronaphthalene	ND		0.000285	1.14	12/14/2017 23:57	WG1052776
(S) Nitrobenzene-d5	*87.6*		*31.0-160*		*12/14/2017 23:57*	WG1052776
(S) 2-Fluorobiphenyl	*96.3*		*48.0-148*		*12/14/2017 23:57*	WG1052776
(S) p-Terphenyl-d14	*83.0*		*37.0-146*		*12/14/2017 23:57*	WG1052776

Sample Narrative:

L956532-66 WG1052776: Dilution due to sample volume

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	0.00112		0.000200	1	12/13/2017 12:26	WG1051876

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	41.3		0.200	1	12/13/2017 05:41	WG1052534
Barium	0.961		0.00500	1	12/13/2017 05:41	WG1052534
Beryllium	0.00384		0.00200	1	12/13/2017 05:41	WG1052534
Cadmium	0.0110		0.00200	1	12/13/2017 05:41	WG1052534
Chromium	0.0634		0.0100	1	12/13/2017 05:41	WG1052534
Cobalt	0.0592		0.0100	1	12/13/2017 05:41	WG1052534
Copper	0.270		0.0100	1	12/13/2017 05:41	WG1052534
Lead	0.195		0.00500	1	12/13/2017 05:41	WG1052534
Nickel	0.240		0.0100	1	12/13/2017 05:41	WG1052534
Selenium	0.0343		0.0100	1	12/13/2017 05:41	WG1052534
Silver	ND		0.00500	1	12/13/2017 05:41	WG1052534
Vanadium	0.162		0.0200	1	12/13/2017 05:41	WG1052534
Zinc	1.31		0.0500	1	12/13/2017 05:41	WG1052534

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	0.0128	B	0.00200	1	12/15/2017 20:22	WG1052833
Arsenic	0.569		0.00200	1	12/15/2017 20:22	WG1052833
Thallium	0.0319		0.00200	1	12/15/2017 20:22	WG1052833

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0000500	1	12/14/2017 22:55	WG1052776
Acenaphthene	ND		0.0000500	1	12/14/2017 22:55	WG1052776
Acenaphthylene	ND		0.0000500	1	12/14/2017 22:55	WG1052776
Benzo(a)anthracene	ND		0.0000500	1	12/14/2017 22:55	WG1052776
Benzo(a)pyrene	ND		0.0000500	1	12/14/2017 22:55	WG1052776
Benzo(b)fluoranthene	ND		0.0000500	1	12/14/2017 22:55	WG1052776
Benzo(g,h,i)perylene	ND		0.0000500	1	12/14/2017 22:55	WG1052776
Benzo(k)fluoranthene	ND		0.0000500	1	12/14/2017 22:55	WG1052776
Chrysene	ND		0.0000500	1	12/14/2017 22:55	WG1052776
Dibenz(a,h)anthracene	ND		0.0000500	1	12/14/2017 22:55	WG1052776
Fluoranthene	ND		0.0000500	1	12/14/2017 22:55	WG1052776
Fluorene	ND		0.0000500	1	12/14/2017 22:55	WG1052776
Indeno(1,2,3-cd)pyrene	ND		0.0000500	1	12/14/2017 22:55	WG1052776
Naphthalene	ND		0.000250	1	12/14/2017 22:55	WG1052776
Phenanthrene	ND		0.0000500	1	12/14/2017 22:55	WG1052776
Pyrene	ND		0.0000500	1	12/14/2017 22:55	WG1052776
1-Methylnaphthalene	ND		0.000250	1	12/14/2017 22:55	WG1052776
2-Methylnaphthalene	ND		0.000250	1	12/14/2017 22:55	WG1052776
2-Chloronaphthalene	ND		0.000250	1	12/14/2017 22:55	WG1052776
(S) Nitrobenzene-d5	*87.9*		*31.0-160*		*12/14/2017 22:55*	WG1052776
(S) 2-Fluorobiphenyl	*96.5*		*48.0-148*		*12/14/2017 22:55*	WG1052776
(S) p-Terphenyl-d14	*90.0*		*37.0-146*		*12/14/2017 22:55*	WG1052776

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	0.00236		0.000200	1	12/13/2017 12:29	WG1051876

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	90.5		0.200	1	12/13/2017 05:45	WG1052534
Barium	3.45		0.00500	1	12/13/2017 05:45	WG1052534
Beryllium	0.00857		0.00200	1	12/13/2017 05:45	WG1052534
Cadmium	0.0203		0.00200	1	12/13/2017 05:45	WG1052534
Chromium	0.142		0.0100	1	12/13/2017 05:45	WG1052534
Cobalt	0.495		0.0100	1	12/13/2017 05:45	WG1052534
Copper	1.46		0.0100	1	12/13/2017 05:45	WG1052534
Lead	2.06		0.00500	1	12/13/2017 05:45	WG1052534
Nickel	0.810		0.0100	1	12/13/2017 05:45	WG1052534
Selenium	0.261		0.0100	1	12/13/2017 05:45	WG1052534
Silver	ND		0.00500	1	12/13/2017 05:45	WG1052534
Vanadium	0.230		0.0200	1	12/13/2017 05:45	WG1052534
Zinc	2.52		0.0500	1	12/13/2017 05:45	WG1052534

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	0.00598	B	0.00200	1	12/15/2017 20:25	WG1052833
Arsenic	0.927		0.00200	1	12/15/2017 20:25	WG1052833
Thallium	0.0566		0.00200	1	12/15/2017 20:25	WG1052833

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0000570	1.14	12/15/2017 00:18	WG1052776
Acenaphthene	ND		0.0000570	1.14	12/15/2017 00:18	WG1052776
Acenaphthylene	ND		0.0000570	1.14	12/15/2017 00:18	WG1052776
Benzo(a)anthracene	ND		0.0000570	1.14	12/15/2017 00:18	WG1052776
Benzo(a)pyrene	ND		0.0000570	1.14	12/15/2017 00:18	WG1052776
Benzo(b)fluoranthene	ND		0.0000570	1.14	12/15/2017 00:18	WG1052776
Benzo(g,h,i)perylene	ND		0.0000570	1.14	12/15/2017 00:18	WG1052776
Benzo(k)fluoranthene	ND		0.0000570	1.14	12/15/2017 00:18	WG1052776
Chrysene	ND		0.0000570	1.14	12/15/2017 00:18	WG1052776
Dibenz(a,h)anthracene	ND		0.0000570	1.14	12/15/2017 00:18	WG1052776
Fluoranthene	ND		0.0000570	1.14	12/15/2017 00:18	WG1052776
Fluorene	ND		0.0000570	1.14	12/15/2017 00:18	WG1052776
Indeno(1,2,3-cd)pyrene	ND		0.0000570	1.14	12/15/2017 00:18	WG1052776
Naphthalene	ND		0.000285	1.14	12/15/2017 00:18	WG1052776
Phenanthrene	ND		0.0000570	1.14	12/15/2017 00:18	WG1052776
Pyrene	ND		0.0000570	1.14	12/15/2017 00:18	WG1052776
1-Methylnaphthalene	ND		0.000285	1.14	12/15/2017 00:18	WG1052776
2-Methylnaphthalene	ND		0.000285	1.14	12/15/2017 00:18	WG1052776
2-Chloronaphthalene	ND		0.000285	1.14	12/15/2017 00:18	WG1052776
(S) Nitrobenzene-d5	*97.5*		*31.0-160*		*12/15/2017 00:18*	WG1052776
(S) 2-Fluorobiphenyl	*106*		*48.0-148*		*12/15/2017 00:18*	WG1052776
(S) p-Terphenyl-d14	*84.5*		*37.0-146*		*12/15/2017 00:18*	WG1052776

Sample Narrative:

L956532-68 WG1052776: Dilution due to sample volume

Method Blank (MB)

(MB) R3273804-1 12/15/17 16:06

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0			

L956532-01 Original Sample (OS) • Duplicate (DUP)

(OS) L956532-01 12/15/17 16:06 • (DUP) R3273804-3 12/15/17 16:06

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	79.2	76.0	1	4		5

Laboratory Control Sample (LCS)

(LCS) R3273804-2 12/15/17 16:06

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85-115	

Method Blank (MB)

(MB) R3273773-1 12/15/17 10:46

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.002			

L956532-12 Original Sample (OS) • Duplicate (DUP)

(OS) L956532-12 12/15/17 10:46 • (DUP) R3273773-3 12/15/17 10:46

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	86.1	81.8	1	5		5

Laboratory Control Sample (LCS)

(LCS) R3273773-2 12/15/17 10:46

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85-115	

Method Blank (MB)

(MB) R3273784-1 12/15/17 10:36

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.002			

L956532-27 Original Sample (OS) • Duplicate (DUP)

(OS) L956532-27 12/15/17 10:36 • (DUP) R3273784-3 12/15/17 10:36

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	85.8	84.9	1	1		5

Laboratory Control Sample (LCS)

(LCS) R3273784-2 12/15/17 10:36

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85-115	

Method Blank (MB)

(MB) R3273775-1 12/15/17 10:13

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.002			

L956532-35 Original Sample (OS) • Duplicate (DUP)

(OS) L956532-35 12/15/17 10:13 • (DUP) R3273775-3 12/15/17 10:13

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	84.1	83.9	1	0		5

Laboratory Control Sample (LCS)

(LCS) R3273775-2 12/15/17 10:13

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85-115	

Method Blank (MB)

(MB) R3273298-1 12/14/17 14:33

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0			

L956532-46 Original Sample (OS) • Duplicate (DUP)

(OS) L956532-46 12/14/17 14:33 • (DUP) R3273298-3 12/14/17 14:33

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	79.6	81.1	1	2		5

Laboratory Control Sample (LCS)

(LCS) R3273298-2 12/14/17 14:33

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	51.0	102	85-115	

Method Blank (MB)

(MB) R3273692-1 12/15/17 10:42

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0			

L956532-51 Original Sample (OS) • Duplicate (DUP)

(OS) L956532-51 12/15/17 10:42 • (DUP) R3273692-3 12/15/17 10:42

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	80.0	79.8	1	0		5

Laboratory Control Sample (LCS)

(LCS) R3273692-2 12/15/17 10:42

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85-115	

Method Blank (MB)

(MB) R3272784-1 12/13/17 11:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000049	0.000200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3272784-2 12/13/17 11:22 • (LCSD) R3272784-5 12/13/17 11:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	0.00314	0.00301	105	100	80-120			4.31	20

L956501-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L956501-01 12/13/17 11:27 • (MS) R3272784-3 12/13/17 11:29 • (MSD) R3272784-4 12/13/17 11:31

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	U	0.00301	0.00302	100	101	1	75-125			0.139	20

Method Blank (MB)

(MB) R3272452-1 12/13/17 01:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0028	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3272452-2 12/13/17 01:59 • (LCSD) R3272452-3 12/13/17 02:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.300	0.329	0.271	110	90.4	80-120			19.3	20

L956532-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L956532-01 12/13/17 02:04 • (MS) R3272452-4 12/13/17 02:06 • (MSD) R3272452-5 12/13/17 02:09

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.379	0.182	0.53	0.543	91.7	95.2	1	75-125			2.48	20

Method Blank (MB)

(MB) R3272453-1 12/13/17 03:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0028	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3272453-2 12/13/17 03:15 • (LCSD) R3272453-3 12/13/17 03:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.300	0.324	0.329	108	110	80-120			1.34	20

L956532-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L956532-21 12/13/17 03:25 • (MS) R3272453-4 12/13/17 03:28 • (MSD) R3272453-5 12/13/17 03:30

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.425	0.0764	0.604	0.621	124	128	1	75-125		J5	2.75	20

Method Blank (MB)

(MB) R3272646-1 12/13/17 08:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0028	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3272646-2 12/13/17 08:57 • (LCSD) R3272646-3 12/13/17 09:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.300	0.337	0.323	112	108	80-120			4.39	20

L956532-41 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L956532-41 12/13/17 09:02 • (MS) R3272646-4 12/13/17 09:05 • (MSD) R3272646-5 12/13/17 09:07

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.384	0.550	0.918	1.22	95.7	175	1	75-125		E J3 J5	28.6	20

Method Blank (MB)

(MB) R3273142-1 12/14/17 15:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aluminum	U		3.5	10.0
Antimony	U		0.75	2.00
Arsenic	U		0.65	2.00
Barium	U		0.17	0.500
Beryllium	U		0.07	0.200
Cadmium	U		0.07	0.500
Chromium	U		0.14	1.00
Cobalt	U		0.23	1.00
Copper	U		0.53	2.00
Lead	U		0.19	0.500
Nickel	U		0.49	2.00
Selenium	U		0.74	2.00
Silver	U		0.28	1.00
Thallium	U		0.65	2.00
Vanadium	U		0.24	2.00
Zinc	U		0.59	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3273142-2 12/14/17 15:10 • (LCSD) R3273142-3 12/14/17 15:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aluminum	1000	985	984	98.5	98.4	80-120			0.0975	20
Antimony	100	96.5	96.9	96.5	96.9	80-120			0.409	20
Arsenic	100	96.8	97.3	96.8	97.3	80-120			0.51	20
Barium	100	102	102	102	102	80-120			0.241	20
Beryllium	100	100	99.7	100	99.7	80-120			0.401	20
Cadmium	100	95.5	95.8	95.5	95.8	80-120			0.343	20
Chromium	100	96.9	97.3	96.9	97.3	80-120			0.381	20
Cobalt	100	100	100	100	100	80-120			0.276	20
Copper	100	97.6	97.6	97.6	97.6	80-120			0.0302	20
Lead	100	96.8	97.0	96.8	97	80-120			0.162	20
Nickel	100	98.6	98.7	98.6	98.7	80-120			0.058	20
Selenium	100	94.8	95.4	94.8	95.4	80-120			0.567	20
Silver	20.0	17.4	17.4	87.2	87.2	80-120			0.0479	20
Thallium	100	96.0	96.4	96	96.4	80-120			0.44	20
Vanadium	100	98.3	98.5	98.3	98.5	80-120			0.174	20
Zinc	100	98.4	98.7	98.4	98.7	80-120			0.223	20

L956532-41 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L956532-41 12/14/17 15:16 • (MS) R3273142-6 12/14/17 15:25 • (MSD) R3273142-7 12/14/17 15:28

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	1280	7970	9730	11200	138	255	1	75-125	V	V	14.3	20
Antimony	128	ND	97	99	75.8	77.3	1	75-125			1.96	20
Arsenic	128	26.7	146	158	93.4	103	1	75-125			7.76	20
Barium	128	228	371	469	112	188	1	75-125		J3 J5	23.3	20
Beryllium	128	1.32	122	129	94	99.9	1	75-125			5.99	20
Cadmium	128	1.19	121	129	93.9	100	1	75-125			6.33	20
Chromium	128	20.6	141	146	94.2	97.6	1	75-125			3.02	20
Cobalt	128	12.6	143	152	102	108	1	75-125			5.92	20
Copper	128	56.4	183	192	99	106	1	75-125			4.73	20
Lead	128	223	404	440	141	169	1	75-125	J5	J5	8.64	20
Nickel	128	38.8	164	175	97.5	106	1	75-125			6.71	20
Selenium	128	ND	117	126	90.5	97.4	1	75-125			7.3	20
Silver	25.6	ND	22.2	23.7	86.7	92.5	1	75-125			6.41	20
Thallium	128	ND	114	122	88.7	94.9	1	75-125			6.74	20
Vanadium	128	24.9	144	154	92.9	101	1	75-125			6.61	20
Zinc	128	467	620	728	119	204	1	75-125		J5	16	20

Method Blank (MB)

(MB) R3272829-1 12/13/17 17:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aluminum	8.32	J	3.5	10.0
Antimony	U		0.75	2.00
Arsenic	U		0.65	2.00
Barium	U		0.17	0.500
Beryllium	U		0.07	0.200
Cadmium	U		0.07	0.500
Chromium	U		0.14	1.00
Cobalt	U		0.23	1.00
Copper	U		0.53	2.00
Lead	U		0.19	0.500
Nickel	U		0.49	2.00
Selenium	U		0.74	2.00
Silver	U		0.28	1.00
Thallium	U		0.65	2.00
Vanadium	U		0.24	2.00
Zinc	U		0.59	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3272829-2 12/13/17 17:31 • (LCSD) R3272829-3 12/13/17 17:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aluminum	1000	997	989	99.7	98.9	80-120			0.802	20
Antimony	100	96.1	96.2	96.1	96.2	80-120			0.127	20
Arsenic	100	94.1	94.7	94.1	94.7	80-120			0.554	20
Barium	100	96.1	96.5	96.1	96.5	80-120			0.335	20
Beryllium	100	95.3	94.1	95.3	94.1	80-120			1.21	20
Cadmium	100	96.0	96.7	96	96.7	80-120			0.734	20
Chromium	100	94.6	94.5	94.6	94.5	80-120			0.106	20
Cobalt	100	99.0	99.6	99	99.6	80-120			0.623	20
Copper	100	96.0	96.2	96	96.2	80-120			0.234	20
Lead	100	94.1	94.5	94.1	94.5	80-120			0.38	20
Nickel	100	94.6	94.9	94.6	94.9	80-120			0.279	20
Selenium	100	95.8	97.2	95.8	97.2	80-120			1.44	20
Silver	20.0	19.2	19.4	95.9	96.8	80-120			0.95	20
Thallium	100	95.2	95.4	95.2	95.4	80-120			0.163	20
Vanadium	100	102	99.4	102	99.4	80-120			2.35	20
Zinc	100	91.6	91.9	91.6	91.9	80-120			0.287	20

L956532-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L956532-04 12/13/17 17:37 • (MS) R3272829-6 12/13/17 17:47 • (MSD) R3272829-7 12/13/17 17:50

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	1070	1380	2390	2670	93.7	120	1	75-125			11.2	20
Antimony	107	ND	103	114	96	106	1	75-125			10.2	20
Arsenic	107	3.80	112	123	101	111	1	75-125			9.58	20
Barium	107	22.7	119	140	90	109	1	75-125			15.7	20
Beryllium	107	ND	98.1	107	91.4	100	1	75-125			9.06	20
Cadmium	107	ND	112	124	104	115	1	75-125			10.1	20
Chromium	107	5.39	99.1	109	87.3	96.5	1	75-125			9.48	20
Cobalt	107	1.07	107	119	99.1	109	1	75-125			9.86	20
Copper	107	4.82	116	127	103	113	1	75-125			8.81	20
Lead	107	9.88	108	120	91.6	102	1	75-125			10.1	20
Nickel	107	7.41	106	117	92.2	102	1	75-125			9.84	20
Selenium	107	ND	112	124	105	116	1	75-125			10.2	20
Silver	21.5	ND	22.8	24.9	106	116	1	75-125			8.56	20
Thallium	107	ND	100	111	93.2	104	1	75-125			10.8	20
Vanadium	107	9.38	115	127	98.7	109	1	75-125			9.38	20
Zinc	107	18.4	100	115	76.2	89.7	1	75-125			13.5	20

Method Blank (MB)

(MB) R3272831-1 12/13/17 19:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aluminum	U		3.5	10.0
Antimony	U		0.75	2.00
Arsenic	U		0.65	2.00
Barium	U		0.17	0.500
Beryllium	U		0.07	0.200
Cadmium	U		0.07	0.500
Chromium	U		0.14	1.00
Cobalt	U		0.23	1.00
Copper	U		0.53	2.00
Lead	U		0.19	0.500
Nickel	U		0.49	2.00
Selenium	U		0.74	2.00
Silver	U		0.28	1.00
Thallium	U		0.65	2.00
Vanadium	U		0.24	2.00
Zinc	U		0.59	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3272831-2 12/13/17 19:14 • (LCSD) R3272831-3 12/13/17 19:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aluminum	1000	980	1040	98	104	80-120			5.61	20
Antimony	100	93.4	98.8	93.4	98.8	80-120			5.62	20
Arsenic	100	92.2	97.4	92.2	97.4	80-120			5.46	20
Barium	100	94.4	99.4	94.4	99.4	80-120			5.17	20
Beryllium	100	93.2	98.3	93.2	98.3	80-120			5.32	20
Cadmium	100	94.0	98.7	94	98.7	80-120			4.86	20
Chromium	100	91.8	96.1	91.8	96.1	80-120			4.6	20
Cobalt	100	96.8	102	96.8	102	80-120			4.96	20
Copper	100	93.6	98.3	93.6	98.3	80-120			4.89	20
Lead	100	92.0	96.4	92	96.4	80-120			4.69	20
Nickel	100	92.3	96.9	92.3	96.9	80-120			4.88	20
Selenium	100	94.2	99.1	94.2	99.1	80-120			4.99	20
Silver	20.0	18.7	19.7	93.4	98.5	80-120			5.3	20
Thallium	100	93.4	97.8	93.4	97.8	80-120			4.68	20
Vanadium	100	101	105	101	105	80-120			4.05	20
Zinc	100	89.1	93.7	89.1	93.7	80-120			5.06	20

L956532-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L956532-28 12/13/17 19:20 • (MS) R3272831-6 12/13/17 19:30 • (MSD) R3272831-7 12/13/17 19:33

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	1180	7990	10400	9900	208	162	1	75-125	V	V	5.34	20
Antimony	118	ND	64.6	76.4	53.9	63.8	1	75-125	J6	J6	16.7	20
Arsenic	118	23.5	124	140	85.2	98.3	1	75-125			11.7	20
Barium	118	539	819	688	237	126	1	75-125	V	V	17.4	20
Beryllium	118	0.582	104	116	87.7	97.3	1	75-125			10.4	20
Cadmium	118	8.26	121	141	95	112	1	75-125			15.6	20
Chromium	118	32.5	134	144	85.4	94.1	1	75-125			7.42	20
Cobalt	118	9.87	126	137	97.9	108	1	75-125			8.92	20
Copper	118	82.3	188	225	89.7	121	1	75-125			17.6	20
Lead	118	677	753	854	64.2	149	1	75-125	V	V	12.5	20
Nickel	118	29.5	135	149	89.4	101	1	75-125			9.84	20
Selenium	118	ND	111	124	92.8	104	1	75-125			11.4	20
Silver	23.7	ND	22.9	25.9	96.8	109	1	75-125			12.3	20
Thallium	118	ND	107	116	90.3	98.4	1	75-125			8.51	20
Vanadium	118	24.1	137	147	95.2	104	1	75-125			7.32	20
Zinc	118	1590	1580	2290	0	591	1	75-125	V	E J3 V	36.9	20

Method Blank (MB)

(MB) R3272451-1 12/13/17 04:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum	U		0.035	0.200
Barium	U		0.0017	0.00500
Beryllium	U		0.0007	0.00200
Cadmium	U		0.0007	0.00200
Chromium	U		0.0014	0.0100
Cobalt	U		0.0023	0.0100
Copper	U		0.0053	0.0100
Lead	U		0.0019	0.00500
Nickel	U		0.0049	0.0100
Selenium	U		0.0074	0.0100
Silver	U		0.0028	0.00500
Vanadium	0.0051	J	0.0024	0.0200
Zinc	U		0.0059	0.0500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3272451-2 12/13/17 04:17 • (LCSD) R3272451-3 12/13/17 04:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	9.97	9.95	99.7	99.5	80-120			0.207	20
Barium	1.00	1.04	1.04	104	104	80-120			0.709	20
Beryllium	1.00	1.00	1.00	100	100	80-120			0.307	20
Cadmium	1.00	0.968	0.975	96.8	97.5	80-120			0.668	20
Chromium	1.00	0.992	0.992	99.2	99.2	80-120			0.0198	20
Cobalt	1.00	1.02	1.02	102	102	80-120			0.581	20
Copper	1.00	0.980	0.983	98	98.3	80-120			0.264	20
Lead	1.00	0.991	0.997	99.1	99.7	80-120			0.599	20
Nickel	1.00	1.00	1.01	100	101	80-120			0.348	20
Selenium	1.00	0.966	0.969	96.6	96.9	80-120			0.23	20
Silver	0.200	0.185	0.184	92.4	92.2	80-120			0.18	20
Vanadium	1.00	1.00	0.998	100	99.8	80-120			0.27	20
Zinc	1.00	0.998	1.00	99.8	100	80-120			0.515	20

L956348-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L956348-12 12/13/17 04:23 • (MS) R3272451-5 12/13/17 04:30 • (MSD) R3272451-6 12/13/17 04:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	0.300	10.2	10.3	99.1	100	1	75-125			0.988	20
Barium	1.00	0.262	1.27	1.27	100	101	1	75-125			0.449	20
Beryllium	1.00	U	1.01	1.02	101	102	1	75-125			1.04	20
Cadmium	1.00	U	0.991	0.999	99.1	99.9	1	75-125			0.855	20
Chromium	1.00	0.00210	0.975	0.981	97.3	97.8	1	75-125			0.584	20
Cobalt	1.00	U	1.04	1.05	104	105	1	75-125			1.07	20
Copper	1.00	U	1.00	1.01	100	101	1	75-125			0.861	20
Lead	1.00	0.00601	1.01	1.02	101	101	1	75-125			0.691	20
Nickel	1.00	U	1.03	1.04	103	104	1	75-125			0.733	20
Selenium	1.00	U	1.00	1.01	100	101	1	75-125			0.59	20
Silver	0.200	U	0.189	0.191	94.5	95.6	1	75-125			1.1	20
Vanadium	1.00	0.0123	0.993	1.02	98	100	1	75-125			2.23	20
Zinc	1.00	U	0.975	0.980	97.5	98	1	75-125			0.551	20

Method Blank (MB)

(MB) R3273521-1 12/15/17 19:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	0.00142	J	0.000754	0.00200
Arsenic	U		0.00025	0.00200
Thallium	U		0.00019	0.00200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3273521-2 12/15/17 19:15 • (LCSD) R3273521-3 12/15/17 19:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	0.0500	0.0529	0.0527	106	105	80-120			0.414	20
Arsenic	0.0500	0.0509	0.0506	102	101	80-120			0.711	20
Thallium	0.0500	0.0482	0.0481	96.3	96.3	80-120			0.0233	20

L956923-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L956923-02 12/15/17 19:22 • (MS) R3273521-5 12/15/17 19:30 • (MSD) R3273521-6 12/15/17 19:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	0.0500	ND	0.0539	0.0545	105	106	1	75-125			1.03	20
Arsenic	0.0500	ND	0.0507	0.0512	101	102	1	75-125			0.803	20
Thallium	0.0500	ND	0.0493	0.0499	98.6	99.8	1	75-125			1.23	20

Method Blank (MB)

(MB) R3273611-1 12/14/17 18:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Anthracene	U		0.0000140	0.0000500
Acenaphthene	U		0.0000100	0.0000500
Acenaphthylene	U		0.0000120	0.0000500
Benzo(a)anthracene	U		0.00000410	0.0000500
Benzo(a)pyrene	U		0.0000116	0.0000500
Benzo(b)fluoranthene	U		0.00000212	0.0000500
Benzo(g,h,i)perylene	U		0.00000227	0.0000500
Benzo(k)fluoranthene	U		0.0000136	0.0000500
Chrysene	U		0.0000108	0.0000500
Dibenz(a,h)anthracene	U		0.00000396	0.0000500
Fluoranthene	U		0.0000157	0.0000500
Fluorene	U		0.00000850	0.0000500
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500
Naphthalene	0.0000222	J	0.0000198	0.000250
Phenanthrene	U		0.00000820	0.0000500
Pyrene	U		0.0000117	0.0000500
1-Methylnaphthalene	U		0.00000821	0.000250
2-Methylnaphthalene	U		0.00000902	0.000250
2-Chloronaphthalene	U		0.00000647	0.000250
(S) Nitrobenzene-d5	*81.3*			*31.0-160*
(S) 2-Fluorobiphenyl	*90.6*			*48.0-148*
(S) p-Terphenyl-d14	*90.2*			*37.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3273611-2 12/14/17 19:07 • (LCSD) R3273611-3 12/14/17 19:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	0.00200	0.00187	0.00177	93.4	88.5	64.0-142			5.45	20
Acenaphthene	0.00200	0.00192	0.00183	96.0	91.7	66.0-132			4.58	20
Acenaphthylene	0.00200	0.00193	0.00183	96.4	91.5	65.0-132			5.16	20
Benzo(a)anthracene	0.00200	0.00177	0.00164	88.6	82.0	59.0-134			7.65	20
Benzo(a)pyrene	0.00200	0.00167	0.00153	83.7	76.5	61.0-145			8.98	20
Benzo(b)fluoranthene	0.00200	0.00161	0.00147	80.6	73.7	57.0-136			9.04	20
Benzo(g,h,i)perylene	0.00200	0.00144	0.00126	71.8	62.9	54.0-140			13.1	20
Benzo(k)fluoranthene	0.00200	0.00185	0.00173	92.3	86.3	57.0-141			6.65	20
Chrysene	0.00200	0.00189	0.00177	94.6	88.3	63.0-140			6.86	20
Dibenz(a,h)anthracene	0.00200	0.00149	0.00128	74.3	63.8	49.0-141			15.2	20
Fluoranthene	0.00200	0.00207	0.00194	104	96.9	65.0-143			6.61	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3273611-2 12/14/17 19:07 • (LCSD) R3273611-3 12/14/17 19:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Fluorene	0.00200	0.00193	0.00183	96.5	91.4	64.0-129			5.43	20
Indeno(1,2,3-cd)pyrene	0.00200	0.00151	0.00133	75.7	66.4	53.0-141			13.1	20
Naphthalene	0.00200	0.00172	0.00160	86.0	80.1	68.0-129			7.10	20
Phenanthrene	0.00200	0.00185	0.00174	92.4	87.2	62.0-132			5.87	20
Pyrene	0.00200	0.00179	0.00170	89.7	85.2	58.0-156			5.18	20
1-Methylnaphthalene	0.00200	0.00197	0.00184	98.5	92.1	68.0-137			6.74	20
2-Methylnaphthalene	0.00200	0.00186	0.00174	93.0	86.8	68.0-134			6.90	20
2-Chloronaphthalene	0.00200	0.00185	0.00175	92.5	87.6	65.0-129			5.40	20
(S) Nitrobenzene-d5				*89.9*	*86.4*	*31.0-160*				
(S) 2-Fluorobiphenyl				*98.9*	*94.4*	*48.0-148*				
(S) p-Terphenyl-d14				*91.3*	*85.4*	*37.0-146*				

Method Blank (MB)

(MB) R3274231-3 12/18/17 11:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.000600	0.00600
Acenaphthene	U		0.000600	0.00600
Acenaphthylene	U		0.000600	0.00600
Benzo(a)anthracene	U		0.000600	0.00600
Benzo(a)pyrene	U		0.000600	0.00600
Benzo(b)fluoranthene	U		0.000600	0.00600
Benzo(g,h,i)perylene	U		0.000600	0.00600
Benzo(k)fluoranthene	U		0.000600	0.00600
Chrysene	U		0.000600	0.00600
Dibenz(a,h)anthracene	U		0.000600	0.00600
Fluoranthene	U		0.000600	0.00600
Fluorene	U		0.000600	0.00600
Indeno(1,2,3-cd)pyrene	U		0.000600	0.00600
Naphthalene	U		0.00200	0.0200
Phenanthrene	U		0.000600	0.00600
Pyrene	U		0.000600	0.00600
1-Methylnaphthalene	U		0.00200	0.0200
2-Methylnaphthalene	U		0.00200	0.0200
2-Chloronaphthalene	U		0.00200	0.0200
(S) Nitrobenzene-d5	*57.0*			*14.0-149*
(S) 2-Fluorobiphenyl	*88.3*			*34.0-125*
(S) p-Terphenyl-d14	*92.9*			*23.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3274231-1 12/18/17 10:40 • (LCSD) R3274231-2 12/18/17 11:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0800	0.0786	0.0772	98.3	96.5	50.0-125			1.83	20
Acenaphthene	0.0800	0.0701	0.0692	87.7	86.5	52.0-120			1.38	20
Acenaphthylene	0.0800	0.0726	0.0718	90.7	89.7	51.0-120			1.07	20
Benzo(a)anthracene	0.0800	0.0691	0.0690	86.4	86.3	46.0-121			0.0719	20
Benzo(a)pyrene	0.0800	0.0734	0.0721	91.8	90.1	42.0-121			1.87	20
Benzo(b)fluoranthene	0.0800	0.0697	0.0673	87.1	84.1	42.0-123			3.52	20
Benzo(g,h,i)perylene	0.0800	0.0758	0.0743	94.7	92.9	43.0-128			2.02	20
Benzo(k)fluoranthene	0.0800	0.0821	0.0824	103	103	45.0-128			0.392	20
Chrysene	0.0800	0.0798	0.0756	99.7	94.5	48.0-127			5.33	20
Dibenz(a,h)anthracene	0.0800	0.0769	0.0748	96.1	93.5	43.0-132			2.74	20
Fluoranthene	0.0800	0.0731	0.0721	91.4	90.1	49.0-129			1.41	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3274231-1 12/18/17 10:40 • (LCSD) R3274231-2 12/18/17 11:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Fluorene	0.0800	0.0754	0.0741	94.3	92.7	50.0-120			1.75	20
Indeno(1,2,3-cd)pyrene	0.0800	0.0780	0.0761	97.5	95.1	44.0-131			2.55	20
Naphthalene	0.0800	0.0688	0.0682	86.0	85.3	50.0-120			0.803	20
Phenanthrene	0.0800	0.0696	0.0678	87.0	84.7	48.0-120			2.60	20
Pyrene	0.0800	0.0794	0.0771	99.2	96.4	48.0-135			2.86	20
1-Methylnaphthalene	0.0800	0.0723	0.0748	90.3	93.5	52.0-122			3.40	20
2-Methylnaphthalene	0.0800	0.0684	0.0663	85.5	82.9	52.0-120			3.14	20
2-Chloronaphthalene	0.0800	0.0757	0.0748	94.7	93.5	50.0-120			1.23	20
(S) Nitrobenzene-d5				*81.2*	*74.7*	*14.0-149*				
(S) 2-Fluorobiphenyl				*99.5*	*92.6*	*34.0-125*				
(S) p-Terphenyl-d14				*95.0*	*92.3*	*23.0-120*				

L956532-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L956532-18 12/18/17 16:22 • (MS) R3274231-4 12/18/17 16:46 • (MSD) R3274231-5 12/18/17 17:11

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0985	0.420	3.73	1.01	3360	604	1	20.0-136	V	J3 V	114	24
Acenaphthene	0.0985	0.0807	1.76	0.364	1710	288	1	29.0-124	J5	J3 J5	131	20
Acenaphthylene	0.0985	ND	0.0749	0.0796	76.1	80.8	1	35.0-120			6.08	20
Benzo(a)anthracene	0.0985	1.43	6.19	2.27	4830	852	1	13.0-132	E V	J3 V	92.5	27
Benzo(a)pyrene	0.0985	1.21	5.61	1.86	4460	659	1	14.0-138	E V	J3 V	100	27
Benzo(b)fluoranthene	0.0985	1.66	6.75	2.39	5170	743	1	10.0-129	E V	J3 V	95.4	31
Benzo(k)fluoranthene	0.0985	0.571	2.50	0.869	1950	303	1	15.0-131	V	J3 V	96.7	27
Chrysene	0.0985	1.39	5.56	2.07	4230	685	1	15.0-137	E V	J3 V	91.6	25
Dibenz(a,h)anthracene	0.0985	0.241	1.11	0.418	882	180	1	15.0-132	J5	J3 J5	90.5	27
Fluoranthene	0.0985	2.87	14.3	4.78	11600	1930	1	13.0-139	E V	J3 V	100	28
Fluorene	0.0985	0.121	1.68	0.413	1580	297	1	27.0-122	J5	J3 J5	121	22
Indeno(1,2,3-cd)pyrene	0.0985	0.716	2.89	1.08	2210	368	1	11.0-133	V	J3 V	91.4	29
Naphthalene	0.0985	0.0756	0.640	0.194	573	120	1	18.0-136	J5	J3	107	21
Phenanthrene	0.0985	1.60	13.1	3.40	11700	1830	1	15.0-133	E V	J3 V	118	25
Pyrene	0.0985	2.54	12.1	4.15	9730	1630	1	11.0-146	E V	J3 V	98.0	29
1-Methylnaphthalene	0.0985	0.0727	0.554	0.194	489	123	1	24.0-137	J5	J3	96.4	22
2-Methylnaphthalene	0.0985	0.0779	0.527	0.188	456	112	1	23.0-136	J5	J3	94.7	22
2-Chloronaphthalene	0.0985	ND	0.0672	0.0871	68.2	88.4	1	36.0-120		J3	25.7	20
(S) Nitrobenzene-d5					*58.5*	*61.3*		*14.0-149*				
(S) 2-Fluorobiphenyl					*75.4*	*82.4*		*34.0-125*				
(S) p-Terphenyl-d14					*72.7*	*81.4*		*23.0-120*				

L956532-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L956532-18 12/20/17 12:52 • (MS) R3274967-1 12/20/17 13:14 • (MSD) R3274967-2 12/20/17 13:36

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzo(g,h,i)perylene	0.0985	0.725	2.89	1.11	2200	389	10	10.0-133	V	J3 V	89.1	30
(S) Nitrobenzene-d5					*60.5*	*61.8*		*14.0-149*				
(S) 2-Fluorobiphenyl					*60.3*	*61.9*		*34.0-125*				
(S) p-Terphenyl-d14					*63.4*	*60.1*		*23.0-120*				

Method Blank (MB)

(MB) R3274293-3 12/18/17 23:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.000600	0.00600
Acenaphthene	U		0.000600	0.00600
Acenaphthylene	U		0.000600	0.00600
Benzo(a)anthracene	U		0.000600	0.00600
Benzo(a)pyrene	U		0.000600	0.00600
Benzo(b)fluoranthene	0.000842	J	0.000600	0.00600
Benzo(g,h,i)perylene	0.000749	J	0.000600	0.00600
Benzo(k)fluoranthene	U		0.000600	0.00600
Chrysene	U		0.000600	0.00600
Dibenz(a,h)anthracene	U		0.000600	0.00600
Fluoranthene	U		0.000600	0.00600
Fluorene	U		0.000600	0.00600
Indeno(1,2,3-cd)pyrene	U		0.000600	0.00600
Naphthalene	0.00210	J	0.00200	0.0200
Phenanthrene	U		0.000600	0.00600
Pyrene	U		0.000600	0.00600
1-Methylnaphthalene	U		0.00200	0.0200
2-Methylnaphthalene	U		0.00200	0.0200
2-Chloronaphthalene	U		0.00200	0.0200
(S) Nitrobenzene-d5	*50.2*			*14.0-149*
(S) 2-Fluorobiphenyl	*79.1*			*34.0-125*
(S) p-Terphenyl-d14	*80.2*			*23.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3274293-1 12/18/17 23:08 • (LCSD) R3274293-2 12/18/17 23:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0800	0.0676	0.0743	84.5	92.9	50.0-125			9.45	20
Acenaphthene	0.0800	0.0593	0.0659	74.1	82.4	52.0-120			10.5	20
Acenaphthylene	0.0800	0.0578	0.0641	72.3	80.1	51.0-120			10.3	20
Benzo(a)anthracene	0.0800	0.0600	0.0655	75.0	81.9	46.0-121			8.77	20
Benzo(a)pyrene	0.0800	0.0622	0.0678	77.7	84.8	42.0-121			8.66	20
Benzo(b)fluoranthene	0.0800	0.0630	0.0699	78.8	87.4	42.0-123			10.3	20
Benzo(g,h,i)perylene	0.0800	0.0643	0.0701	80.3	87.6	43.0-128			8.64	20
Benzo(k)fluoranthene	0.0800	0.0664	0.0737	83.0	92.1	45.0-128			10.4	20
Chrysene	0.0800	0.0693	0.0758	86.7	94.8	48.0-127			8.95	20
Dibenz(a,h)anthracene	0.0800	0.0643	0.0715	80.4	89.4	43.0-132			10.6	20
Fluoranthene	0.0800	0.0713	0.0778	89.1	97.2	49.0-129			8.74	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3274293-1 12/18/17 23:08 • (LCSD) R3274293-2 12/18/17 23:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Fluorene	0.0800	0.0568	0.0627	70.9	78.4	50.0-120			9.96	20
Indeno(1,2,3-cd)pyrene	0.0800	0.0675	0.0741	84.3	92.6	44.0-131			9.39	20
Naphthalene	0.0800	0.0605	0.0673	75.6	84.1	50.0-120			10.6	20
Phenanthrene	0.0800	0.0635	0.0695	79.4	86.8	48.0-120			8.94	20
Pyrene	0.0800	0.0617	0.0677	77.2	84.6	48.0-135			9.21	20
1-Methylnaphthalene	0.0800	0.0665	0.0740	83.1	92.5	52.0-122			10.7	20
2-Methylnaphthalene	0.0800	0.0622	0.0702	77.8	87.7	52.0-120			12.0	20
2-Chloronaphthalene	0.0800	0.0601	0.0671	75.1	83.9	50.0-120			11.0	20
(S) Nitrobenzene-d5				*48.9*	*51.5*	*14.0-149*				
(S) 2-Fluorobiphenyl				*77.5*	*82.0*	*34.0-125*				
(S) p-Terphenyl-d14				*77.8*	*79.4*	*23.0-120*				

L956532-45 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L956532-45 12/19/17 04:20 • (MS) R3274293-4 12/19/17 04:43 • (MSD) R3274293-5 12/19/17 05:05

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0907	0.189	0.271	0.183	90.3	0.000	1	20.0-136		J3 J6	38.9	24
Acenaphthene	0.0907	0.0526	0.136	0.0988	91.5	50.9	1	29.0-124		J3	31.5	20
Acenaphthylene	0.0907	ND	0.0691	0.0649	73.9	69.3	1	35.0-120			6.31	20
Benzo(a)anthracene	0.0907	0.426	0.536	0.385	121	0.000	1	13.0-132		J3 V	32.7	27
Benzo(a)pyrene	0.0907	0.354	0.440	0.337	95.0	0.000	1	14.0-138		J6	26.6	27
Benzo(b)fluoranthene	0.0907	0.503	0.586	0.427	92.2	0.000	1	10.0-129		J3 V	31.5	31
Benzo(g,h,i)perylene	0.0907	0.225	0.291	0.234	73.1	10.9	1	10.0-133			21.5	30
Benzo(k)fluoranthene	0.0907	0.158	0.222	0.225	70.5	73.3	1	15.0-131			1.15	27
Chrysene	0.0907	0.420	0.522	0.400	113	0.000	1	15.0-137		J3 V	26.5	25
Dibenz(a,h)anthracene	0.0907	0.0598	0.121	0.101	67.1	45.9	1	15.0-132			17.3	27
Fluoranthene	0.0907	0.983	1.06	0.814	88.3	0.000	1	13.0-139		V	26.5	28
Fluorene	0.0907	0.0574	0.124	0.0988	73.0	45.6	1	27.0-122		J3	22.4	22
Indeno(1,2,3-cd)pyrene	0.0907	0.190	0.267	0.217	84.5	30.1	1	11.0-133			20.4	29
Naphthalene	0.0907	0.0334	0.101	0.0959	74.1	68.9	1	18.0-136			4.75	21
Phenanthrene	0.0907	0.698	0.749	0.547	56.1	0.000	1	15.0-133		J3 V	31.1	25
Pyrene	0.0907	0.762	0.879	0.629	129	0.000	1	11.0-146		J3 V	33.2	29
1-Methylnaphthalene	0.0907	0.0357	0.123	0.106	96.5	77.8	1	24.0-137			14.8	22
2-Methylnaphthalene	0.0907	0.0322	0.112	0.103	87.8	77.9	1	23.0-136			8.36	22
2-Chloronaphthalene	0.0907	ND	0.0675	0.0649	74.4	71.5	1	36.0-120			3.98	20
(S) Nitrobenzene-d5					*48.5*	*49.3*		*14.0-149*				
(S) 2-Fluorobiphenyl					*79.0*	*74.3*		*34.0-125*				
(S) p-Terphenyl-d14					*84.2*	*78.5*		*23.0-120*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

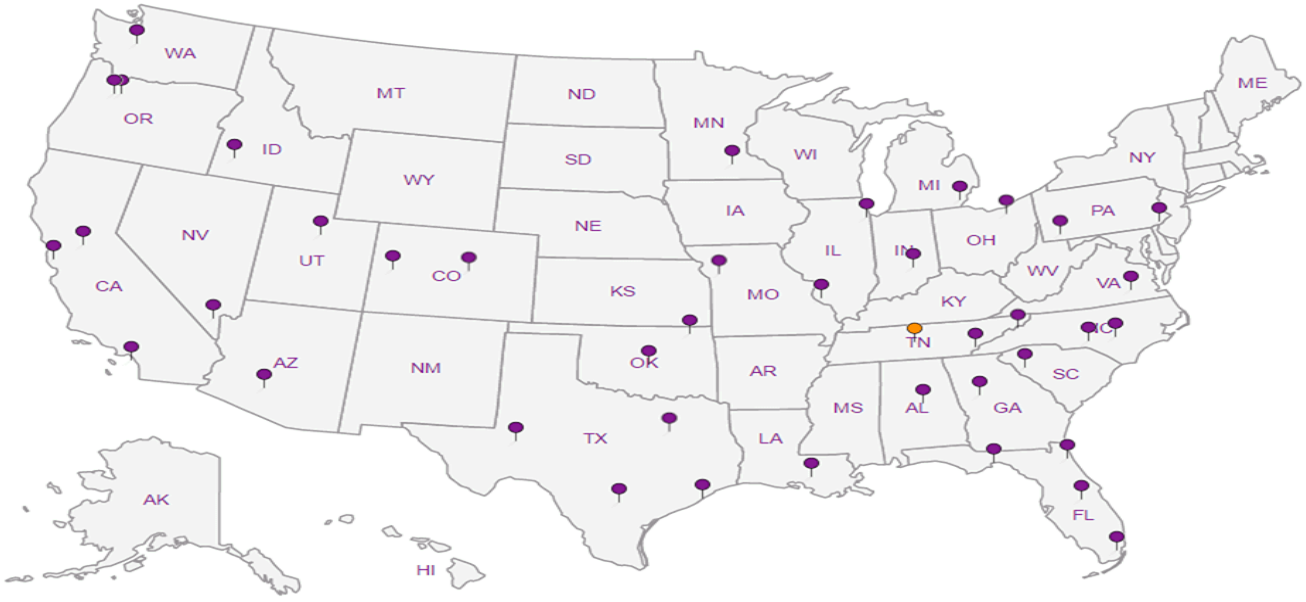
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Geotechnical Consultants, Inc.

720 Greencrest Drive
Westerville, OH 43081

Billing Information:
B. Howard
720 Greencrest Drive
Westerville, OH 43081

Report to:
Mr. Michael Lacher

Email To: mlacher@gci2000.com

Project Description: City of Bexley

City/State Collected: Bexley, OH

Phone: 614-839-1258
Fax:

Client Project # 17-E-Z1430

Lab Project # GCICOLOH-LACHER

Collected by (print): LACHER

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote # GCICOLOH-083117

Date Results Needed: Std

Chain of Custody Page 1 of 1

ESC LABORATORIES
a subsidiary of Pace Analytical

12065 Lebanon Rd
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L# 956532
D072

Acctnum: GCICOLOH
Template: T130443
Prelogin: P628633
TSR: 364 - T. Alan Harvill
PB: MS 11-29-17
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PAHSIMLVI 40mlAmb-NoPres-WT	SV8270PAHSIM 4ozClr-NoPres	VAP Mtls 250mlHDPE-HNO3	VAP Mtls, TS 2ozClr-NoPres	Remarks	Sample # (lab only)
EB-1 0'	G	SS		12/7/17	0910	1				X		-01
EB-2 0'		SS			1000	1				X		-02
EB-3 0'		SS			1040	1				X		-03
EB-4 0'		SS			1145	1				X		-04
EB-5 0'		SS			1230	1				X		-05
EB-6 0'		SS			1315	1				X		-06
EB-7 0'		SS			1355	1				X		-07
EB-8 0'		SS			1440	1				X		-08
EB-9 0'		SS			1515	1				X		-09
EB-10 0'		SS		12/8/17	0910	1				X		-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Ohio VAP QA/QC

Samples returned via:
__ UPS __ FedEx __ Courier ____

pH _____ Temp _____
Flow _____ Other _____

Tracking # 4094 8308 5792

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	12/8/17	1600			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.2°C Bottles Received: 132	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/9/17 Time: 0845	Hold: / Condition: NCF / OK

Geotechnical Consultants, Inc.

720 Greencrest Drive
Westerville, OH 43081

Billing Information:
B. Howard
720 Greencrest Drive
Westerville, OH 43081

Report to:
Mr. Michael Lacher

Email To: mlacher@gci2000.com

Project Description: City of Bexley

City/State Collected: Bexley, OH

Phone: 614-839-1258
Fax:

Client Project #: 17-E-21432

Lab Project #: GCICOLOH-LACHER

Collected by (print): LACHER

Site/Facility ID #:

P.O. #:

Collected by (signature):

Immediately Packed on Ice N ___ Y (X)

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #: GCIOH-083172

Date Results Needed: Std.

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PAHSIMLVI 40mlAmb-NoPres-WT	SV8270PAHSIM 4ozClr-NoPres	VAP Mtls 250mlHDPE-HNO3	VAP Mtls, TS 2ozClr-NoPres	Remarks	Sample # (lab only)
EB-11 0'	Grab	SS		12/8/17	0955	1				X		-11
EB-12 0'		SS			1040	1				X		-12
EB-13 0'		SS			1120	1				X		-13
EB-14 0'		SS			1135	1				X		-14
EB-15 0'		SS			1155	1				X		-15
EB-16 0'		SS			1205	1				X		-16
		SS				1				X		
		SS				1				X		
		SS				1				X		
		SS				2		X		X		

Chain of Custody

ESC LAB SCIENCES
a subsidiary of Mansfield

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 956532

Table #

Acctnum: GCICOLOH

Template: T130443

Prelogin: P628633

TSR: 364 - T. Alan Harvill

PB: 11-29-17

Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Ohio VAP QA/QC

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 4094 8308 5807

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeOH TBR	
	12/8/17	1600			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.2 °C W	Bottles Received: 132
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/4/17	Time: 08:45

If preservation required by Login: Date/Time

Hold:

Condition NCF / OK

Geotechnical Consultants, Inc.

720 Greencrest Drive
Westerville, OH 43081

Billing Information:
B. Howard
720 Greencrest Drive
Westerville, OH 43081

Report to: Mr. Michael Lacher
Email To: mlacher@gci2000.com

Project Description: City of Bexley
City/State Collected: Bexley, OH
Phone: 614-839-1258
Fax:
Client Project # 17-E-21430
Lab Project # GCICOLOH-LACHER
Collected by (print): LACHER
Site/Facility ID #
P.O. #
Collected by (signature):
Immediately Packed on Ice N ___ Y ___
Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day
Quote # GCICOLOH-083171
Date Results Needed Std

Chain of Custody Page ___ of ___

ESC LAB SCIENCES
a subsidiary of Pace Analytical
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 956522
Table #
Acctnum: GCICOLOH
Template: T130443
Prelogin: P628633
TSR: 364 - T. Alan Harvill
PB: HS 11-29-17
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PAHSIMLVI 40mlAmb-NoPres-WT	SV8270PAHSIM 4ozClr-NoPres	VAP Mtls 250mlHDPE-HNO3	VAP Mtls, TS 2ozClr-NoPres	Remarks	Sample # (lab only)
EB-1 4'	Grab	SS		12/1/17	0910	2		X		X		-17
EB-1 8'		SS			"	2		X		X		-18
EB-1 12'		SS			"	2		X		X		-19
EB-2 4'		SS			1000	2		X		X		-20
EB-2 8'		SS			"	2		X		X		-21
EB-2 12'		SS			"	2		X		X		-22
EB-3 4'		SS			1040	2		X		X		-23
EB-3 8'		SS			"	2		X		X		-24
EB-3 12'		SS			"	2		X		X		-25
EB-4 4'		SS			1115	2		X		X		-26

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: Chro VAP only

pH ___ Temp ___
Flow ___ Other ___

Samples returned via: ___ UPS ___ FedEx ___ Courier ___

Tracking # 7474 0926 7549

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	12/6/17	1600	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / (No) HCL / MeoH TBR
Temp: 0.2 °C Bottles Received: 132
Date: 12/9/17 Time: 0845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Geotechnical Consultants, Inc.

720 Greencrest Drive
Westerville, OH 43081

Billing Information:
B. Howard
720 Greencrest Drive
Westerville, OH 43081

Report to: Mr. Michael Lacher
Email To: mlacher@gci2000.com

Project Description: City of Bexley
City/State Collected: Bexley, OH
Phone: 614-839-1258
Fax:
Client Project # 17-E-21430
Lab Project # GCICOLOH-LACHER
Collected by (print): LACHER
Site/Facility ID #
P.O. #
Collected by (signature):
Immediately Packed on Ice N ___ (Y)
Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day
Quote # GCIarch-083117
Date Results Needed: Std

Chain of Custody Page 1 of 8

ESC LABORATORY SCIENCES
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12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 956532
Table #
Acctnum: GCICOLOH
Template: T130443
Prelogin: P628633
TSR: 364 - T. Alan Harvill
PB: MS 11-29-17
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PAHSIMLVI 40mlAmb-NoPres-WT	SV8270PAHSIM 4ozClr-NoPres	VAP Mtls 250mlHDPE-HNO3	VAP Mtls, TS 2ozClr-NoPres	Remarks	Sample # (lab only)
EB-4 8'	Grab	SS		12/7/17	1145	2		X		X		-27
EB-4 12'	"	SS		"	11	2		X		X		-28
EB-5 4'	"	SS		"	1230	2		X		X		-29
EB-5 8'	"	SS		"	"	2		X		X		-30
EB-5 12'	"	SS		"	"	2		X		X		-31
EB-6 4'	"	SS		"	1315	2		X		X		-32
EB-6 8'	"	SS		"	"	2		X		X		-33
EB-6 12'	"	SS		"	"	2		X		X		-34
EB-7 4'	"	SS		"	1355	2		X		X		-35
EB-7 8'	"	SS		"	"	2		X		X		-36

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Ohio VAP OK/QC

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier __ _____
Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / (No) HCL / MeoH TBR
	12/8/17	1600		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.2°C Bottles Received: 132 — If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/9/17 Time: 0845 — Hold: — Condition: NCF / OK

Geotechnical Consultants, Inc.

720 Greencrest Drive
Westerville, OH 43081

Billing Information:
B. Howard
720 Greencrest Drive
Westerville, OH 43081

Report to: Mr. Michael Lacher

Email To: mlacher@gci2000.com

Project Description: City of Bexley

City/State Collected: Bexley, OH

Phone: 614-839-1258

Fax:

Client Project # M-E-21430

Lab Project # GCICOLOH-LACHER

Collected by (print): LACHER

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote # GCICOLOH-08311R

Date Results Needed: Std.

Chain of Custody Page ___ of ___

ESC LABORATORIES
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12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 956532

Table #

Acctnum: GCICOLOH

Template: T130443

Prelogin: P628633

TSR: 364 - T. Alan Harvill

PB: HS 11-29-17

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PAHSIMLVI 40mlAmb-NoPres-WT	SV8270PAHSIM 4ozClr-NoPres	VAP Mtls 250mlHDPE-HNO3	VAP Mtls, TS 2ozClr-NoPres	Pres Chk	Remarks	Sample # (lab only)
EB-7 12'	Rd.	SS		12/7/17	1355	2		X		X			-37
EB-8 4'		SS			1440	2		X		X			-38
EB-8 8'		SS			"	2		X		X			-39
EB-8 12'		SS			"	2		X		X			-40
EB-9 4'		SS			1515	2		X		X			-41
EB-9 8'		SS			"	2		X		X			-42
EB-9 12'		SS			"	2		X		X			-43
EB-10 4'		SS		12/8/17	0910	2		X		X			-44
EB-10 8'		SS		"	"	2		X		X			-45
EB-10 12'		SS		"	"	2		X		X			-46

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Dwo VAP QA/QC

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: ___ UPS ___ FedEx ___ Courier ___ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	12/8/17	1600	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			861

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 0.2 °C Bottles Received: 132

Date: 12/9/17 Time: 0845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Geotechnical Consultants, Inc.

720 Greencrest Drive
Westerville, OH 43081

Billing Information:
B. Howard
720 Greencrest Drive
Westerville, OH 43081

Report to: Mr. Michael Lacher
Email To: mlacher@gci2000.com

Project Description: City of Bexley
City/State Collected: Bexley, OH
Phone: 614-839-1258
Fax:
Client Project # 17E-21436
Lab Project # GCICOLOH-LACHER
Collected by (print): LACHER
Site/Facility ID #
P.O. #
Collected by (signature):
Immediately Packed on Ice N ___ Y ___
Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day
Quote # GCICOLOH-083117
Date Results Needed

Chain of Custody

ESC LABORATORIES
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12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 956532
Table #
Acctnum: GCICOLOH
Template: T130443
Prelogin: P628633
TSR: 364 - T. Alan Harvill
PB: 11-29-17
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PAHSIMLVI 40mlAmb-NoPres-WT	SV8270PAHSIM 4ozClr-NoPres	VAP Mtls 250mlHDPE-HNO3	VAP Mtls, TS 2ozClr-NoPres	Remarks	Sample # (lab only)
EB-11 4'	G	SS		12/8/17	0955	2		X		X		-47
EB-11 8'		SS			"	2		X		X		-48
EB-11 12'		SS			"	2		X		X		-49
EB-12 4'		SS			1040	2		X		X		-50
EB-12 8'		SS			"	2		X		X		-51
EB-12 12'		SS			"	2		X		X		-52
EB-13 4-6'		SS			1120	2		X		X		-53
EB-14 6-8'		SS			1135	2		X		X		-54
EB-15 2-4'		SS			1155	2		X		X		-55
EB-16 6-8		SS			1205	2		X		X		-56

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: OhioVAP QA/QC

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	12/8/17	1600		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.2 °C Bottles Received: 132
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/9/17 Time: 0845
			861	Hold: Condition: NCF OK

Geotechnical Consultants, Inc.

720 Greencrest Drive
Westerville, OH 43081

Billing Information:
B. Howard
720 Greencrest Drive
Westerville, OH 43081

Report to: Mr. Michael Lacher

Email To: mlacher@gci2000.com

Project Description: City of Bexley

City/State Collected: Bexley, OH

Phone: 614-839-1258
Fax:

Client Project # 17-E-21430

Lab Project # GCICOLOH-LACHER

Collected by (print): LACHER

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote # GCLOLOH-083172

Date Results Needed

Chain of Custody Page 7 of 6

ESC LABORATORIES
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12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 956532

Table #

Acctnum: GCICOLOH
Template: T130443
Prelogin: P628633
TSR: 364 - T. Alan Harvill
PB: 11-29-17

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PAHSIMLVI 40mlAmb-NoPres-WT	SV8270PAHSIM 4ozClr-NoPres	VAP Mtls 250mlHDPE-HNO3	VAP Mtls, TS 2ozClr-NoPres	Pres Chk	Remarks	Sample # (lab only)
EB-1	Grab	GW		12/7/17	0920	3	X		X				-57
EB-2		GW			1010	3	X		X				-58
EB-3		GW			1100	3	X		X				-59
EB-4		GW			1200	3	X		X				-60
EB-5		GW			1240	3	X		X				-61
EB-6		GW			1325	3	X		X				-62
EB-7		GW			1405	3	X		X				-63
EB-8		GW			1450	3	X		X				-64
EB-9		GW			1525	3	X		X				-65
EB-10		GW		12/8/17	0920	3	X		X				-66

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: Ohio VAP GA/BC

pH ___ Temp ___
Flow ___ Other ___

Samples returned via:
__ UPS __ FedEx __ Courier __ ___

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / (No) HCL / MeoH TBR
	12/8/17	1600		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.2°C Bottles Received: 132
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/9/17 Time: 0845
				Hold: Condition: NCF / OK

Geotechnical Consultants, Inc.

720 Greencrest Drive
Westerville, OH 43081

Billing Information:
B. Howard
720 Greencrest Drive
Westerville, OH 43081

Report to: Mr. Michael Lacher
Email To: mlacher@gci2000.com

Project Description: City of Bexley
City/State Collected: Bexley, OH
Phone: 614-839-1258
Fax:
Client Project #: 17-E-2130
Lab Project #: GCICOLOH-LACHER
Collected by (print): LACHER
Site/Facility ID #:
P.O. #:
Collected by (signature): Immediately Packed on Ice N ___ Y ___
Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day
Quote #: GCICOLOH-083117
Date Results Needed

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PAHSIMLVI 40mlAmb-NoPres-WT	SV8270PAHSIM 4ozClr-NoPres	VAP Mtls 250mlHDPE-HNO3	VAP Mtls, TS 2ozClr-NoPres	Remarks	Sample # (lab only)
EB-11	Grab	GW		12/8/17	1005	3	X		X			-67
EB-12	"	GW		"	1045	3	X		X			-68
		GW				3	X		X			

Chain of Custody

ESC LABS
a subsidiary of Pace Analytical
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 956532
Table #
Acctnum: GCICOLOH
Template: T130443
Prelogin: P628633
TSR: 364 - T. Alan Harvill
PB: HJ 11-29-17
Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Also VAP QA/QC

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier __ _____
Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	12/8/17	1600	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			861

Trip Blank Received: Yes / (No) HCL / MeoH TBR
Temp: 0.2 °C Bottles Received: 132
Date: 12/9/17 Time: 08:45

If preservation required by Login: Date/Time
Hold:
Condition: NCF / OK