

Table 1
10 Inch Crest Line Spill
Soil Data Summary

SAMPLE SUMMARY	
Location Description	10 Inch Crest Line Spill
Sample Type	Soil

LABORATORY DATA SUMMARY													ECMC TABLE 915-1 CONCENTRATION LEVELS		
Sample ID	10 IN CREST LINE SS1	10 IN CREST LINE SS2	10 IN CREST LINE SS3	10 IN CREST LINE SS4	10 IN CREST LINE SS5	10 IN CREST LINE SS6	10 IN CREST LINE SS7	10 IN CREST LINE BG1	10 IN CREST LINE BG2	10 IN CREST LINE BG3	ACM47-BG1				
Depth	1'	1'	1'	1'	1'	1'	1'	1'	1'	1'	0-6"				
Sample Date	7/12/2023	7/12/2023	7/12/2023	7/12/2023	7/12/2023	7/12/2023	7/12/2023	7/12/2023	7/12/2023	7/12/2023	3/18/2021				
Analytical Parameters												Residential Soil Screening Level	Protection of Groundwater Screening Level	UNITS	
TPH															
TPH (C6-C10)	0.111	0.195	0.13	0.18	0.132	0.107	0.0924 J	NT	NT	NT	NT	500		mg/kg	
TPH (C10-C28)	18.1	1.65 J	17.0	6.67	<4.00	15.3	116	NT	NT	NT	NT				
TPH (C28-C36)	47.8	8.01	88.2	13.3	2.67 J	45.4	322	NT	NT	NT	NT				
Volatile Organic Compounds															
1,2,4-Trimethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NT	NT	NT	NT	30	0.0081	mg/kg	
1,3,5-Trimethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NT	NT	NT	NT	27	0.0087	mg/kg	
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NT	NT	NT	NT	1.2	0.0026	mg/kg	
Toluene	<0.005	0.00178 J	<0.005	<0.005	<0.005	<0.005	<0.005	NT	NT	NT	NT	490	0.69	mg/kg	
Ethylbenzene	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	NT	NT	NT	NT	5.8	0.78	mg/kg	
Total Xylene	0.00133 J	0.00195 J	0.0011 J	0.0011 J	<0.0065	<0.0065	0.000925 J	NT	NT	NT	NT	58	9.9	mg/kg	
Metals															
Arsenic	6.00	4.76	6.27	5.57	5.36	5.73	6.59	4.90	5.36	5.96	6.4	0.68	0.29	mg/kg	
Barium	190	128	111	69.3	111	130	198	94	212	95.7	150	15,000	82	mg/kg	
Cadmium	0.186 J	0.150 J	0.247 J	0.135 J	0.181 J	0.183 J	0.229 J	0.170 J	0.203 J	0.193 J	0.17	71	0.38	mg/kg	
Chromium, Hexavalent	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.99	0.3	0.00067	mg/kg	
Copper	9.68	8.71	11.8	9.63	10.6	10.1	11.6	8.17	9.83	11.7	13	3,100	46	mg/kg	
Lead	13.0	11.0	15.2	11.6	11.8	17.1	17.7	10.1	12.7	16.5	17	400	14	mg/kg	
Nickel	14.3	11.8	14.3	12.2	13.7	13.1	15.8	11.0	12.6	13.9	17	1,500	26	mg/kg	
Selenium	0.900 J	0.985 J	0.984 J	0.973 J	1.20 J	0.974 J	1.16 J	0.590 J	0.745 J	1.36 J	0.82	390	0.26	mg/kg	
Silver	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.0893 J	0.083 J	390	0.8	mg/kg	
Zinc	65.8	49.1	63.7	51.9	56.2	60.5	71.6	46.3	51.2	63.5	67	23,000	370	mg/kg	
Soil Suitability for Reclamation															
Sodium Adsorption Ratio (SAR)	41.4	0.105	1.26	65.0	63.0	59.3	63.1	NT	NT	NT	0.14	<6	<6	ratio	
Electrical Conductivity (EC)	10.60	1.84	0.356	16.20	7.73	14.00	15.20	NT	NT	NT	0.51	<4	<4	mmhos/cm	
pH	8.33	7.72	8.50	7.80	8.99	8.27	7.92	NT	NT	NT	9.53	6 - 8.3	6 - 8.3	su	
Boron, Hot Water Soluble	5.55	0.853	0.894	4.17	4.13	4.10	4.59	0.771	0.80	1.75	1.6 B	2	2	mg/l	
Polynuclear Aromatic Hydrocarbons															
1-Methylnaphthalene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.00493 J	NT	NT	NT	NT	18	0.006	mg/kg	
2-Methylnaphthalene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.00526 J	NT	NT	NT	NT	24	0.019	mg/kg	
Acenaphthene	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	NT	NT	NT	NT	360	0.55	mg/kg	
Anthracene	0.00299 J	<0.006	0.00753	<0.006	<0.006	<0.006	<0.006	NT	NT	NT	NT	1,800	5.8	mg/kg	
Benzo(a)anthracene	<0.006	<0.006	0.0299	<0.006	<0.006	<0.006	<0.006	NT	NT	NT	NT	1.1	0.011	mg/kg	
Benzo(a)pyrene	<0.006	<0.006	0.015	<0.006	<0.006	<0.006	<0.006	NT	NT	NT	NT	0.11	0.24	mg/kg	
Benzo(b)fluoranthene	<0.006	<0.006	0.0303	<0.006	<0.006	<0.006	<0.006	NT	NT	NT	NT	1.1	0.3	mg/kg	
Benzo(k)fluoranthene	<0.006	<0.006	0.0103	<0.006	<0.006	<0.006	<0.006	NT	NT	NT	NT	11	2.9	mg/kg	
Chrysene	<0.006	<0.006	0.0267	<0.006	<0.006	<0.006	<0.006	NT	NT	NT	NT	110	9	mg/kg	
Dibenzo(a,h)anthracene	<0.006	<0.006	0.00315 J	<0.006	<0.006	<0.006	<0.006	NT	NT	NT	NT	0.11	0.096	mg/kg	
Fluoranthene	<0.006	<0.006	0.0931	<0.006	<0.006	<0.006	<0.006	NT	NT	NT	NT	240	8.9	mg/kg	
Fluorene	0.00418 J	<0.006	<0.006	<0.006	<0.006	<0.006	0.00348 J	NT	NT	NT	NT	240	0.54	mg/kg	
Indeno(1,2,3-cd)pyrene	<0.006	<0.006	0.0166	<0.006	<0.006	<0.006	<0.006	NT	NT	NT	NT	1.1	0.98	mg/kg	
Naphthalene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	NT	NT	NT	NT	2	0.0038	mg/kg	
Pyrene	0.00349 J	<0.006	0.0823	<0.006	<0.006	<0.006	<0.006	NT	NT	NT	NT	180	1.3	mg/kg	

mg/kg - milligrams per kilogram
 mg/L - milligrams per liter
 B - analyte detected in the associated Method Blank above the Reporting Limit
 J - indicates an estimated value
 H - analyzed outside of holding time
 mmhos/cm - millimhos per centimeter
 mv - millivolts
 su - standard units
 NA - not applicable
 NT - parameter was not tested

Over ECMC Table 915-1 concentration levels but under BACKGROUND level.
 Over ECMC Table 915-1 concentration levels and not within BACKGROUND level.
 Over ECMC Table 915-1 concentration levels

Scout Energy - Rangely, CO

Sample Delivery Group: L1635421
Samples Received: 07/14/2023
Project Number:
Description: 10 inch Crest line Spill

Report To: Chris Patterson
100 Chevron Road
Rangely, CO 81648

Entire Report Reviewed By:



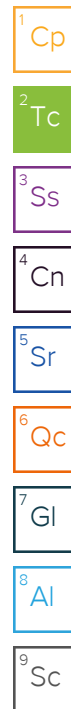
Chris Ward
Project Manager

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 Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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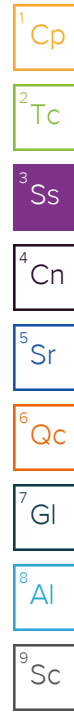


SAMPLE SUMMARY

10 IN CREST LINE SS1 (1') L1635421-01 Solid

Collected by M. Schlageter Collected date/time 07/12/23 10:00 Received date/time 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095325	1	07/24/23 12:45	07/24/23 12:45	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2095917	1	07/18/23 01:30	07/18/23 11:28	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2095847	1	07/16/23 16:04	07/17/23 10:00	SJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2096047	1	07/17/23 08:56	07/17/23 13:04	MCC	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2095331	1	07/21/23 09:51	07/24/23 11:24	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095886	5	07/16/23 18:13	07/18/23 19:05	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2096505	1	07/17/23 14:10	07/17/23 23:50	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2096607	1	07/17/23 14:10	07/18/23 02:03	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2098201	1	07/20/23 16:33	07/21/23 05:59	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2097511	1	07/22/23 09:31	07/22/23 21:17	MBE	Mt. Juliet, TN



10 IN CREST LINE SS2 (1') L1635421-02 Solid

Collected by M. Schlageter Collected date/time 07/12/23 10:10 Received date/time 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095325	1	07/24/23 12:48	07/24/23 12:48	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2095917	1	07/18/23 01:30	07/18/23 11:33	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2095847	1	07/16/23 16:04	07/17/23 10:00	SJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2096047	1	07/17/23 08:56	07/17/23 13:04	MCC	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2095331	1	07/21/23 09:51	07/24/23 10:48	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095886	5	07/16/23 18:13	07/18/23 19:08	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2096505	1	07/17/23 14:10	07/18/23 00:13	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2096607	1	07/17/23 14:10	07/18/23 02:22	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2098201	1	07/20/23 16:33	07/21/23 04:21	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2097511	1	07/22/23 09:31	07/22/23 14:45	MBE	Mt. Juliet, TN

10 IN CREST LINE SS3 (1') L1635421-03 Solid

Collected by M. Schlageter Collected date/time 07/12/23 10:20 Received date/time 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095326	1	07/25/23 15:17	07/25/23 15:17	SPL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2095917	1	07/18/23 01:30	07/18/23 11:38	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2095847	1	07/16/23 16:04	07/17/23 10:00	SJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2096047	1	07/17/23 08:56	07/17/23 13:04	MCC	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2095334	1	07/20/23 17:19	07/25/23 15:31	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095886	5	07/16/23 18:13	07/18/23 19:11	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2096505	1	07/17/23 14:10	07/18/23 00:36	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2096607	1	07/17/23 14:10	07/18/23 02:40	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2098201	1	07/20/23 16:33	07/21/23 05:31	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2097511	1	07/22/23 09:31	07/22/23 19:39	MBE	Mt. Juliet, TN

10 IN CREST LINE SS4 (1') L1635421-04 Solid

Collected by M. Schlageter Collected date/time 07/12/23 10:30 Received date/time 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095326	1	07/25/23 15:20	07/25/23 15:20	SPL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2095917	1	07/18/23 01:30	07/18/23 11:54	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2095683	1	07/16/23 08:22	07/16/23 13:00	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2096047	1	07/17/23 08:56	07/17/23 13:04	MCC	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2095334	1	07/20/23 17:19	07/25/23 15:34	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095886	5	07/16/23 18:13	07/18/23 19:21	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2096505	1	07/17/23 14:10	07/18/23 00:59	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2096607	1	07/17/23 14:10	07/18/23 02:59	KSD	Mt. Juliet, TN

SAMPLE SUMMARY

10 IN CREST LINE SS4 (1') L1635421-04 Solid

Collected by M. Schlageter Collected date/time 07/12/23 10:30 Received date/time 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2098201	1	07/20/23 16:33	07/21/23 04:35	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2097511	1	07/22/23 09:31	07/22/23 15:04	MBE	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

10 IN CREST LINE SS5 (1') L1635421-05 Solid

Collected by M. Schlageter Collected date/time 07/12/23 10:40 Received date/time 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095326	1	07/25/23 15:23	07/25/23 15:23	SPL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2095917	1	07/18/23 01:30	07/18/23 12:04	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2095847	1	07/16/23 16:04	07/17/23 10:00	SJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2096047	1	07/17/23 08:56	07/17/23 13:04	MCC	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2095334	1	07/20/23 17:19	07/25/23 15:37	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095886	5	07/16/23 18:13	07/18/23 19:24	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2096505	1	07/17/23 14:10	07/18/23 01:22	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2096607	1	07/17/23 14:10	07/18/23 03:18	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2098201	1	07/20/23 16:33	07/21/23 03:53	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2097511	1	07/22/23 09:31	07/22/23 15:24	MBE	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

10 IN CREST LINE SS6 (1') L1635421-06 Solid

Collected by M. Schlageter Collected date/time 07/12/23 10:50 Received date/time 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095326	1	07/25/23 15:25	07/25/23 15:25	SPL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2095917	1	07/18/23 01:30	07/18/23 12:09	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2095847	1	07/16/23 16:04	07/17/23 10:00	SJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2096047	1	07/17/23 08:56	07/17/23 13:04	MCC	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2095334	1	07/20/23 17:19	07/25/23 15:40	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095886	5	07/16/23 18:14	07/18/23 19:28	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2096505	1	07/17/23 14:10	07/18/23 01:46	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2096607	1	07/17/23 14:10	07/18/23 03:37	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2098201	1	07/20/23 16:33	07/21/23 05:17	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2097511	1	07/22/23 09:31	07/22/23 19:59	MBE	Mt. Juliet, TN

10 IN CREST LINE SS7 (1') L1635421-07 Solid

Collected by M. Schlageter Collected date/time 07/12/23 11:00 Received date/time 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2095326	1	07/25/23 15:28	07/25/23 15:28	SPL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2095917	1	07/18/23 01:30	07/18/23 12:15	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2095683	1	07/16/23 08:22	07/16/23 13:00	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2096047	1	07/17/23 08:56	07/17/23 13:04	MCC	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2095334	1	07/20/23 17:19	07/25/23 15:42	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095886	5	07/16/23 18:14	07/18/23 19:31	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2096505	1	07/17/23 14:10	07/18/23 02:10	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2096607	1	07/17/23 14:10	07/18/23 03:55	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2098201	10	07/20/23 16:33	07/21/23 14:45	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2097511	1	07/22/23 09:31	07/22/23 21:37	MBE	Mt. Juliet, TN

SAMPLE SUMMARY

10 IN CREST LINE BG1 (1') L1635421-08 Solid

Collected by M. Schlageter Collected date/time 07/12/23 11:10 Received date/time 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2095917	1	07/18/23 01:30	07/18/23 12:20	SET	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2095341	1	07/24/23 18:11	07/26/23 13:54	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095886	5	07/16/23 18:14	07/18/23 19:34	JPD	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

10 IN CREST LINE BG2 (1') L1635421-09 Solid

Collected by M. Schlageter Collected date/time 07/12/23 11:20 Received date/time 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2095917	1	07/18/23 01:30	07/18/23 12:25	SET	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2095341	2	07/24/23 18:11	07/26/23 13:56	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095880	5	07/16/23 17:26	07/18/23 18:37	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095880	5	07/16/23 17:26	07/19/23 14:15	JPD	Mt. Juliet, TN

10 IN CREST LINE BG3 (1') L1635421-10 Solid

Collected by M. Schlageter Collected date/time 07/12/23 11:30 Received date/time 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2095917	1	07/18/23 01:30	07/18/23 12:30	SET	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2095341	1	07/24/23 18:11	07/26/23 14:00	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095880	5	07/16/23 17:26	07/18/23 18:41	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2095880	5	07/16/23 17:26	07/19/23 14:18	JPD	Mt. Juliet, TN

CASE NARRATIVE

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. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. 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.



Chris Ward
Project Manager

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

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	41.4		1	07/24/2023 12:45	WG2095325

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	07/18/2023 11:28	WG2095917

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.33	<u>T8</u>	1	07/17/2023 10:00	WG2095847

Sample Narrative:

L1635421-01 WG2095847: 8.33 at 22.3C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	10600		10.0	1	07/17/2023 13:04	WG2096047

Sample Narrative:

L1635421-01 WG2096047: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

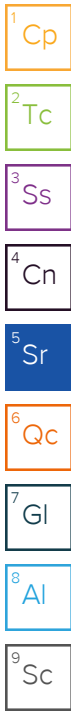
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	5.55		0.0167	0.200	1	07/24/2023 11:24	WG2095331

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.00		0.100	1.00	5	07/18/2023 19:05	WG2095886
Barium	190		0.152	2.50	5	07/18/2023 19:05	WG2095886
Cadmium	0.186	<u>J</u>	0.0855	1.00	5	07/18/2023 19:05	WG2095886
Copper	9.68		0.132	5.00	5	07/18/2023 19:05	WG2095886
Lead	13.0		0.0990	2.00	5	07/18/2023 19:05	WG2095886
Nickel	14.3		0.197	2.50	5	07/18/2023 19:05	WG2095886
Selenium	0.900	<u>J</u>	0.180	2.50	5	07/18/2023 19:05	WG2095886
Silver	U		0.0865	0.500	5	07/18/2023 19:05	WG2095886
Zinc	65.8		0.740	25.0	5	07/18/2023 19:05	WG2095886

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.111	<u>B</u>	0.0217	0.100	1	07/17/2023 23:50	WG2096505
(S) a,a,a-Trifluorotoluene(FID)	88.4			77.0-120		07/17/2023 23:50	WG2096505



10 IN CREST LINE SS1 (1')

SAMPLE RESULTS - 01

Collected date/time: 07/12/23 10:00

L1635421

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000467	0.00100	1	07/18/2023 02:03	WG2096607
Toluene	U		0.00130	0.00500	1	07/18/2023 02:03	WG2096607
Ethylbenzene	U		0.000737	0.00250	1	07/18/2023 02:03	WG2096607
Xylenes, Total	0.00133	<u>J</u>	0.000880	0.00650	1	07/18/2023 02:03	WG2096607
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	07/18/2023 02:03	WG2096607
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	07/18/2023 02:03	WG2096607
(S) Toluene-d8	108			75.0-131		07/18/2023 02:03	WG2096607
(S) 4-Bromofluorobenzene	90.8			67.0-138		07/18/2023 02:03	WG2096607
(S) 1,2-Dichloroethane-d4	93.9			70.0-130		07/18/2023 02:03	WG2096607

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

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	18.1		1.61	4.00	1	07/21/2023 05:59	WG2098201
C28-C36 Motor Oil Range	47.8		0.274	4.00	1	07/21/2023 05:59	WG2098201
(S) o-Terphenyl	11.9	<u>J2</u>		18.0-148		07/21/2023 05:59	WG2098201

Sample Narrative:

L1635421-01 WG2098201: Surrogate failure due to matrix interference

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acenaphthene	U		0.00209	0.00600	1	07/22/2023 21:17	WG2097511
Anthracene	0.00299	<u>J</u>	0.00230	0.00600	1	07/22/2023 21:17	WG2097511
Benzo(a)anthracene	U		0.00173	0.00600	1	07/22/2023 21:17	WG2097511
Benzo(b)fluoranthene	U		0.00153	0.00600	1	07/22/2023 21:17	WG2097511
Benzo(k)fluoranthene	U		0.00215	0.00600	1	07/22/2023 21:17	WG2097511
Benzo(a)pyrene	U		0.00179	0.00600	1	07/22/2023 21:17	WG2097511
Chrysene	U		0.00232	0.00600	1	07/22/2023 21:17	WG2097511
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	07/22/2023 21:17	WG2097511
Fluoranthene	U		0.00227	0.00600	1	07/22/2023 21:17	WG2097511
Fluorene	0.00418	<u>J</u>	0.00205	0.00600	1	07/22/2023 21:17	WG2097511
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	07/22/2023 21:17	WG2097511
1-Methylnaphthalene	U		0.00449	0.0200	1	07/22/2023 21:17	WG2097511
2-Methylnaphthalene	U		0.00427	0.0200	1	07/22/2023 21:17	WG2097511
Naphthalene	U		0.00408	0.0200	1	07/22/2023 21:17	WG2097511
Pyrene	0.00349	<u>J</u>	0.00200	0.00600	1	07/22/2023 21:17	WG2097511
(S) p-Terphenyl-d14	37.0			23.0-120		07/22/2023 21:17	WG2097511
(S) Nitrobenzene-d5	83.6			14.0-149		07/22/2023 21:17	WG2097511
(S) 2-Fluorobiphenyl	39.9			34.0-125		07/22/2023 21:17	WG2097511

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.105		1	07/24/2023 12:48	WG2095325

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	07/18/2023 11:33	WG2095917

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.72	<u>T8</u>	1	07/17/2023 10:00	WG2095847

Sample Narrative:

L1635421-02 WG2095847: 7.72 at 22.4C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1840		10.0	1	07/17/2023 13:04	WG2096047

Sample Narrative:

L1635421-02 WG2096047: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

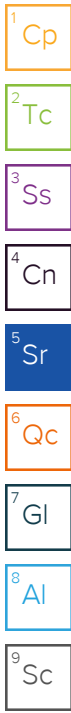
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.853		0.0167	0.200	1	07/24/2023 10:48	WG2095331

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.76		0.100	1.00	5	07/18/2023 19:08	WG2095886
Barium	92.9		0.152	2.50	5	07/18/2023 19:08	WG2095886
Cadmium	0.150	<u>J</u>	0.0855	1.00	5	07/18/2023 19:08	WG2095886
Copper	8.71		0.132	5.00	5	07/18/2023 19:08	WG2095886
Lead	11.0		0.0990	2.00	5	07/18/2023 19:08	WG2095886
Nickel	11.8		0.197	2.50	5	07/18/2023 19:08	WG2095886
Selenium	0.985	<u>J</u>	0.180	2.50	5	07/18/2023 19:08	WG2095886
Silver	U		0.0865	0.500	5	07/18/2023 19:08	WG2095886
Zinc	49.1		0.740	25.0	5	07/18/2023 19:08	WG2095886

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.195	<u>B</u>	0.0217	0.100	1	07/18/2023 00:13	WG2096505
(S) a,a,a-Trifluorotoluene(FID)	98.2			77.0-120		07/18/2023 00:13	WG2096505



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	07/18/2023 02:22	WG2096607
Toluene	0.00178	U	0.00130	0.00500	1	07/18/2023 02:22	WG2096607
Ethylbenzene	U		0.000737	0.00250	1	07/18/2023 02:22	WG2096607
Xylenes, Total	0.00195	U	0.000880	0.00650	1	07/18/2023 02:22	WG2096607
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	07/18/2023 02:22	WG2096607
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	07/18/2023 02:22	WG2096607
(S) Toluene-d8	109			75.0-131		07/18/2023 02:22	WG2096607
(S) 4-Bromofluorobenzene	91.4			67.0-138		07/18/2023 02:22	WG2096607
(S) 1,2-Dichloroethane-d4	92.6			70.0-130		07/18/2023 02:22	WG2096607

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.65	U	1.61	4.00	1	07/21/2023 04:21	WG2098201
C28-C36 Motor Oil Range	8.01		0.274	4.00	1	07/21/2023 04:21	WG2098201
(S) o-Terphenyl	52.2			18.0-148		07/21/2023 04:21	WG2098201

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00209	0.00600	1	07/22/2023 14:45	WG2097511
Anthracene	U		0.00230	0.00600	1	07/22/2023 14:45	WG2097511
Benzo(a)anthracene	U		0.00173	0.00600	1	07/22/2023 14:45	WG2097511
Benzo(b)fluoranthene	U		0.00153	0.00600	1	07/22/2023 14:45	WG2097511
Benzo(k)fluoranthene	U		0.00215	0.00600	1	07/22/2023 14:45	WG2097511
Benzo(a)pyrene	U		0.00179	0.00600	1	07/22/2023 14:45	WG2097511
Chrysene	U		0.00232	0.00600	1	07/22/2023 14:45	WG2097511
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	07/22/2023 14:45	WG2097511
Fluoranthene	U		0.00227	0.00600	1	07/22/2023 14:45	WG2097511
Fluorene	U		0.00205	0.00600	1	07/22/2023 14:45	WG2097511
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	07/22/2023 14:45	WG2097511
1-Methylnaphthalene	U		0.00449	0.0200	1	07/22/2023 14:45	WG2097511
2-Methylnaphthalene	U		0.00427	0.0200	1	07/22/2023 14:45	WG2097511
Naphthalene	U		0.00408	0.0200	1	07/22/2023 14:45	WG2097511
Pyrene	U		0.00200	0.00600	1	07/22/2023 14:45	WG2097511
(S) p-Terphenyl-d14	75.4			23.0-120		07/22/2023 14:45	WG2097511
(S) Nitrobenzene-d5	102			14.0-149		07/22/2023 14:45	WG2097511
(S) 2-Fluorobiphenyl	69.0			34.0-125		07/22/2023 14:45	WG2097511

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.26		1	07/25/2023 15:17	WG2095326

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	07/18/2023 11:38	WG2095917

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.50	<u>T8</u>	1	07/17/2023 10:00	WG2095847

Sample Narrative:

L1635421-03 WG2095847: 8.5 at 22.2C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	356		10.0	1	07/17/2023 13:04	WG2096047

Sample Narrative:

L1635421-03 WG2096047: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

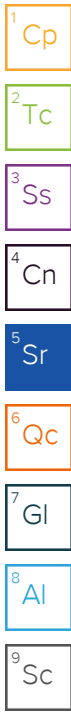
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.894		0.0167	0.200	1	07/25/2023 15:31	WG2095334

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.27		0.100	1.00	5	07/18/2023 19:11	WG2095886
Barium	128		0.152	2.50	5	07/18/2023 19:11	WG2095886
Cadmium	0.247	<u>J</u>	0.0855	1.00	5	07/18/2023 19:11	WG2095886
Copper	11.8		0.132	5.00	5	07/18/2023 19:11	WG2095886
Lead	15.2		0.0990	2.00	5	07/18/2023 19:11	WG2095886
Nickel	14.3		0.197	2.50	5	07/18/2023 19:11	WG2095886
Selenium	0.984	<u>J</u>	0.180	2.50	5	07/18/2023 19:11	WG2095886
Silver	U		0.0865	0.500	5	07/18/2023 19:11	WG2095886
Zinc	63.7		0.740	25.0	5	07/18/2023 19:11	WG2095886

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.130	<u>B</u>	0.0217	0.100	1	07/18/2023 00:36	WG2096505
(S) a,a,a-Trifluorotoluene(FID)	93.5			77.0-120		07/18/2023 00:36	WG2096505



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	07/18/2023 02:40	WG2096607
Toluene	U		0.00130	0.00500	1	07/18/2023 02:40	WG2096607
Ethylbenzene	U		0.000737	0.00250	1	07/18/2023 02:40	WG2096607
Xylenes, Total	0.00110	<u>J</u>	0.000880	0.00650	1	07/18/2023 02:40	WG2096607
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	07/18/2023 02:40	WG2096607
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	07/18/2023 02:40	WG2096607
(S) Toluene-d8	108			75.0-131		07/18/2023 02:40	WG2096607
(S) 4-Bromofluorobenzene	92.5			67.0-138		07/18/2023 02:40	WG2096607
(S) 1,2-Dichloroethane-d4	97.4			70.0-130		07/18/2023 02:40	WG2096607

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	17.0		1.61	4.00	1	07/21/2023 05:31	WG2098201
C28-C36 Motor Oil Range	88.2		0.274	4.00	1	07/21/2023 05:31	WG2098201
(S) o-Terphenyl	55.8			18.0-148		07/21/2023 05:31	WG2098201

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00209	0.00600	1	07/22/2023 19:39	WG2097511
Anthracene	0.00753		0.00230	0.00600	1	07/22/2023 19:39	WG2097511
Benzo(a)anthracene	0.0299		0.00173	0.00600	1	07/22/2023 19:39	WG2097511
Benzo(b)fluoranthene	0.0303		0.00153	0.00600	1	07/22/2023 19:39	WG2097511
Benzo(k)fluoranthene	0.0103		0.00215	0.00600	1	07/22/2023 19:39	WG2097511
Benzo(a)pyrene	0.0150		0.00179	0.00600	1	07/22/2023 19:39	WG2097511
Chrysene	0.0267		0.00232	0.00600	1	07/22/2023 19:39	WG2097511
Dibenz(a,h)anthracene	0.00315	<u>J</u>	0.00172	0.00600	1	07/22/2023 19:39	WG2097511
Fluoranthene	0.0931		0.00227	0.00600	1	07/22/2023 19:39	WG2097511
Fluorene	U		0.00205	0.00600	1	07/22/2023 19:39	WG2097511
Indeno(1,2,3-cd)pyrene	0.0166		0.00181	0.00600	1	07/22/2023 19:39	WG2097511
1-Methylnaphthalene	U		0.00449	0.0200	1	07/22/2023 19:39	WG2097511
2-Methylnaphthalene	U		0.00427	0.0200	1	07/22/2023 19:39	WG2097511
Naphthalene	U		0.00408	0.0200	1	07/22/2023 19:39	WG2097511
Pyrene	0.0823		0.00200	0.00600	1	07/22/2023 19:39	WG2097511
(S) p-Terphenyl-d14	70.7			23.0-120		07/22/2023 19:39	WG2097511
(S) Nitrobenzene-d5	113			14.0-149		07/22/2023 19:39	WG2097511
(S) 2-Fluorobiphenyl	70.7			34.0-125		07/22/2023 19:39	WG2097511

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

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	65.0		1	07/25/2023 15:20	WG2095326

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	07/18/2023 11:54	WG2095917

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.80	<u>T8</u>	1	07/16/2023 13:00	WG2095683

Sample Narrative:

L1635421-04 WG2095683: 7.8 at 23.3C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	16200		10.0	1	07/17/2023 13:04	WG2096047

Sample Narrative:

L1635421-04 WG2096047: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

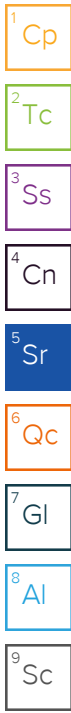
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	4.17		0.0167	0.200	1	07/25/2023 15:34	WG2095334

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.57		0.100	1.00	5	07/18/2023 19:21	WG2095886
Barium	69.3		0.152	2.50	5	07/18/2023 19:21	WG2095886
Cadmium	0.135	<u>J</u>	0.0855	1.00	5	07/18/2023 19:21	WG2095886
Copper	9.63		0.132	5.00	5	07/18/2023 19:21	WG2095886
Lead	11.6		0.0990	2.00	5	07/18/2023 19:21	WG2095886
Nickel	12.2		0.197	2.50	5	07/18/2023 19:21	WG2095886
Selenium	0.973	<u>J</u>	0.180	2.50	5	07/18/2023 19:21	WG2095886
Silver	U		0.0865	0.500	5	07/18/2023 19:21	WG2095886
Zinc	51.9		0.740	25.0	5	07/18/2023 19:21	WG2095886

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.180	<u>B</u>	0.0217	0.100	1	07/18/2023 00:59	WG2096505
(S) a,a,a-Trifluorotoluene(FID)	93.8			77.0-120		07/18/2023 00:59	WG2096505



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	07/18/2023 02:59	WG2096607
Toluene	U		0.00130	0.00500	1	07/18/2023 02:59	WG2096607
Ethylbenzene	U		0.000737	0.00250	1	07/18/2023 02:59	WG2096607
Xylenes, Total	0.00110	<u>J</u>	0.000880	0.00650	1	07/18/2023 02:59	WG2096607
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	07/18/2023 02:59	WG2096607
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	07/18/2023 02:59	WG2096607
(S) Toluene-d8	109			75.0-131		07/18/2023 02:59	WG2096607
(S) 4-Bromofluorobenzene	91.2			67.0-138		07/18/2023 02:59	WG2096607
(S) 1,2-Dichloroethane-d4	92.9			70.0-130		07/18/2023 02:59	WG2096607

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

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.67		1.61	4.00	1	07/21/2023 04:35	WG2098201
C28-C36 Motor Oil Range	13.3		0.274	4.00	1	07/21/2023 04:35	WG2098201
(S) o-Terphenyl	54.5			18.0-148		07/21/2023 04:35	WG2098201

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00209	0.00600	1	07/22/2023 15:04	WG2097511
Anthracene	U		0.00230	0.00600	1	07/22/2023 15:04	WG2097511
Benzo(a)anthracene	U		0.00173	0.00600	1	07/22/2023 15:04	WG2097511
Benzo(b)fluoranthene	U		0.00153	0.00600	1	07/22/2023 15:04	WG2097511
Benzo(k)fluoranthene	U		0.00215	0.00600	1	07/22/2023 15:04	WG2097511
Benzo(a)pyrene	U		0.00179	0.00600	1	07/22/2023 15:04	WG2097511
Chrysene	U		0.00232	0.00600	1	07/22/2023 15:04	WG2097511
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	07/22/2023 15:04	WG2097511
Fluoranthene	U		0.00227	0.00600	1	07/22/2023 15:04	WG2097511
Fluorene	U		0.00205	0.00600	1	07/22/2023 15:04	WG2097511
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	07/22/2023 15:04	WG2097511
1-Methylnaphthalene	U		0.00449	0.0200	1	07/22/2023 15:04	WG2097511
2-Methylnaphthalene	U		0.00427	0.0200	1	07/22/2023 15:04	WG2097511
Naphthalene	U		0.00408	0.0200	1	07/22/2023 15:04	WG2097511
Pyrene	U		0.00200	0.00600	1	07/22/2023 15:04	WG2097511
(S) p-Terphenyl-d14	70.8			23.0-120		07/22/2023 15:04	WG2097511
(S) Nitrobenzene-d5	66.6			14.0-149		07/22/2023 15:04	WG2097511
(S) 2-Fluorobiphenyl	54.5			34.0-125		07/22/2023 15:04	WG2097511

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	63.0		1	07/25/2023 15:23	WG2095326

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	07/18/2023 12:04	WG2095917

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.99	<u>T8</u>	1	07/17/2023 10:00	WG2095847

Sample Narrative:

L1635421-05 WG2095847: 8.99 at 22C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	7730		10.0	1	07/17/2023 13:04	WG2096047

Sample Narrative:

L1635421-05 WG2096047: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

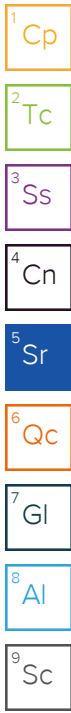
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	4.13		0.0167	0.200	1	07/25/2023 15:37	WG2095334

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.36		0.100	1.00	5	07/18/2023 19:24	WG2095886
Barium	111		0.152	2.50	5	07/18/2023 19:24	WG2095886
Cadmium	0.181	<u>J</u>	0.0855	1.00	5	07/18/2023 19:24	WG2095886
Copper	10.6		0.132	5.00	5	07/18/2023 19:24	WG2095886
Lead	11.8		0.0990	2.00	5	07/18/2023 19:24	WG2095886
Nickel	13.7		0.197	2.50	5	07/18/2023 19:24	WG2095886
Selenium	1.20	<u>J</u>	0.180	2.50	5	07/18/2023 19:24	WG2095886
Silver	U		0.0865	0.500	5	07/18/2023 19:24	WG2095886
Zinc	56.2		0.740	25.0	5	07/18/2023 19:24	WG2095886

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.132	<u>B</u>	0.0217	0.100	1	07/18/2023 01:22	WG2096505
(S) a,a,a-Trifluorotoluene(FID)	93.0			77.0-120		07/18/2023 01:22	WG2096505



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	07/18/2023 03:18	WG2096607
Toluene	U		0.00130	0.00500	1	07/18/2023 03:18	WG2096607
Ethylbenzene	U		0.000737	0.00250	1	07/18/2023 03:18	WG2096607
Xylenes, Total	U		0.000880	0.00650	1	07/18/2023 03:18	WG2096607
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	07/18/2023 03:18	WG2096607
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	07/18/2023 03:18	WG2096607
(S) Toluene-d8	105			75.0-131		07/18/2023 03:18	WG2096607
(S) 4-Bromofluorobenzene	90.9			67.0-138		07/18/2023 03:18	WG2096607
(S) 1,2-Dichloroethane-d4	88.1			70.0-130		07/18/2023 03:18	WG2096607

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	07/21/2023 03:53	WG2098201
C28-C36 Motor Oil Range	2.67	<u>BJ</u>	0.274	4.00	1	07/21/2023 03:53	WG2098201
(S) o-Terphenyl	51.0			18.0-148		07/21/2023 03:53	WG2098201

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00209	0.00600	1	07/22/2023 15:24	WG2097511
Anthracene	U		0.00230	0.00600	1	07/22/2023 15:24	WG2097511
Benzo(a)anthracene	U		0.00173	0.00600	1	07/22/2023 15:24	WG2097511
Benzo(b)fluoranthene	U		0.00153	0.00600	1	07/22/2023 15:24	WG2097511
Benzo(k)fluoranthene	U		0.00215	0.00600	1	07/22/2023 15:24	WG2097511
Benzo(a)pyrene	U		0.00179	0.00600	1	07/22/2023 15:24	WG2097511
Chrysene	U		0.00232	0.00600	1	07/22/2023 15:24	WG2097511
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	07/22/2023 15:24	WG2097511
Fluoranthene	U		0.00227	0.00600	1	07/22/2023 15:24	WG2097511
Fluorene	U		0.00205	0.00600	1	07/22/2023 15:24	WG2097511
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	07/22/2023 15:24	WG2097511
1-Methylnaphthalene	U		0.00449	0.0200	1	07/22/2023 15:24	WG2097511
2-Methylnaphthalene	U		0.00427	0.0200	1	07/22/2023 15:24	WG2097511
Naphthalene	U		0.00408	0.0200	1	07/22/2023 15:24	WG2097511
Pyrene	U		0.00200	0.00600	1	07/22/2023 15:24	WG2097511
(S) p-Terphenyl-d14	33.7			23.0-120		07/22/2023 15:24	WG2097511
(S) Nitrobenzene-d5	41.9			14.0-149		07/22/2023 15:24	WG2097511
(S) 2-Fluorobiphenyl	23.0	<u>J2</u>		34.0-125		07/22/2023 15:24	WG2097511

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

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	59.3		1	07/25/2023 15:25	WG2095326

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	07/18/2023 12:09	WG2095917

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.27	<u>T8</u>	1	07/17/2023 10:00	WG2095847

Sample Narrative:

L1635421-06 WG2095847: 8.27 at 22C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	14000		10.0	1	07/17/2023 13:04	WG2096047

Sample Narrative:

L1635421-06 WG2096047: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

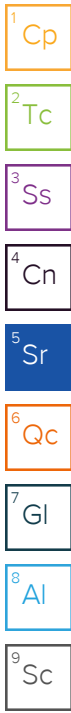
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	4.10		0.0167	0.200	1	07/25/2023 15:40	WG2095334

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.73		0.100	1.00	5	07/18/2023 19:28	WG2095886
Barium	130		0.152	2.50	5	07/18/2023 19:28	WG2095886
Cadmium	0.183	<u>J</u>	0.0855	1.00	5	07/18/2023 19:28	WG2095886
Copper	10.1		0.132	5.00	5	07/18/2023 19:28	WG2095886
Lead	17.1		0.0990	2.00	5	07/18/2023 19:28	WG2095886
Nickel	13.1		0.197	2.50	5	07/18/2023 19:28	WG2095886
Selenium	0.974	<u>J</u>	0.180	2.50	5	07/18/2023 19:28	WG2095886
Silver	U		0.0865	0.500	5	07/18/2023 19:28	WG2095886
Zinc	60.5		0.740	25.0	5	07/18/2023 19:28	WG2095886

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.107	<u>B</u>	0.0217	0.100	1	07/18/2023 01:46	WG2096505
(S) a,a,a-Trifluorotoluene(FID)	91.8			77.0-120		07/18/2023 01:46	WG2096505



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	07/18/2023 03:37	WG2096607
Toluene	U		0.00130	0.00500	1	07/18/2023 03:37	WG2096607
Ethylbenzene	U		0.000737	0.00250	1	07/18/2023 03:37	WG2096607
Xylenes, Total	U		0.000880	0.00650	1	07/18/2023 03:37	WG2096607
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	07/18/2023 03:37	WG2096607
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	07/18/2023 03:37	WG2096607
(S) Toluene-d8	107			75.0-131		07/18/2023 03:37	WG2096607
(S) 4-Bromofluorobenzene	89.6			67.0-138		07/18/2023 03:37	WG2096607
(S) 1,2-Dichloroethane-d4	87.4			70.0-130		07/18/2023 03:37	WG2096607

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	15.3		1.61	4.00	1	07/21/2023 05:17	WG2098201
C28-C36 Motor Oil Range	45.4		0.274	4.00	1	07/21/2023 05:17	WG2098201
(S) o-Terphenyl	34.9			18.0-148		07/21/2023 05:17	WG2098201

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00209	0.00600	1	07/22/2023 19:59	WG2097511
Anthracene	U		0.00230	0.00600	1	07/22/2023 19:59	WG2097511
Benzo(a)anthracene	U		0.00173	0.00600	1	07/22/2023 19:59	WG2097511
Benzo(b)fluoranthene	U		0.00153	0.00600	1	07/22/2023 19:59	WG2097511
Benzo(k)fluoranthene	U		0.00215	0.00600	1	07/22/2023 19:59	WG2097511
Benzo(a)pyrene	U		0.00179	0.00600	1	07/22/2023 19:59	WG2097511
Chrysene	U		0.00232	0.00600	1	07/22/2023 19:59	WG2097511
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	07/22/2023 19:59	WG2097511
Fluoranthene	U		0.00227	0.00600	1	07/22/2023 19:59	WG2097511
Fluorene	U		0.00205	0.00600	1	07/22/2023 19:59	WG2097511
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	07/22/2023 19:59	WG2097511
1-Methylnaphthalene	U		0.00449	0.0200	1	07/22/2023 19:59	WG2097511
2-Methylnaphthalene	U		0.00427	0.0200	1	07/22/2023 19:59	WG2097511
Naphthalene	U		0.00408	0.0200	1	07/22/2023 19:59	WG2097511
Pyrene	U		0.00200	0.00600	1	07/22/2023 19:59	WG2097511
(S) p-Terphenyl-d14	59.4			23.0-120		07/22/2023 19:59	WG2097511
(S) Nitrobenzene-d5	80.1			14.0-149		07/22/2023 19:59	WG2097511
(S) 2-Fluorobiphenyl	54.8			34.0-125		07/22/2023 19:59	WG2097511

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

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	63.1		1	07/25/2023 15:28	WG2095326

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	07/18/2023 12:15	WG2095917

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.92	<u>T8</u>	1	07/16/2023 13:00	WG2095683

Sample Narrative:

L1635421-07 WG2095683: 7.92 at 23.3C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	15200		10.0	1	07/17/2023 13:04	WG2096047

Sample Narrative:

L1635421-07 WG2096047: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

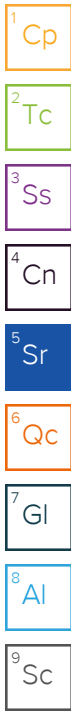
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	4.59		0.0167	0.200	1	07/25/2023 15:42	WG2095334

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.59		0.100	1.00	5	07/18/2023 19:31	WG2095886
Barium	198		0.152	2.50	5	07/18/2023 19:31	WG2095886
Cadmium	0.229	<u>J</u>	0.0855	1.00	5	07/18/2023 19:31	WG2095886
Copper	11.6		0.132	5.00	5	07/18/2023 19:31	WG2095886
Lead	17.7		0.0990	2.00	5	07/18/2023 19:31	WG2095886
Nickel	15.8		0.197	2.50	5	07/18/2023 19:31	WG2095886
Selenium	1.16	<u>J</u>	0.180	2.50	5	07/18/2023 19:31	WG2095886
Silver	U		0.0865	0.500	5	07/18/2023 19:31	WG2095886
Zinc	71.6		0.740	25.0	5	07/18/2023 19:31	WG2095886

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0924	<u>B J</u>	0.0217	0.100	1	07/18/2023 02:10	WG2096505
(S) a,a,a-Trifluorotoluene(FID)	92.5			77.0-120		07/18/2023 02:10	WG2096505



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	07/18/2023 03:55	WG2096607
Toluene	U		0.00130	0.00500	1	07/18/2023 03:55	WG2096607
Ethylbenzene	U		0.000737	0.00250	1	07/18/2023 03:55	WG2096607
Xylenes, Total	0.000925	U	0.000880	0.00650	1	07/18/2023 03:55	WG2096607
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	07/18/2023 03:55	WG2096607
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	07/18/2023 03:55	WG2096607
(S) Toluene-d8	106			75.0-131		07/18/2023 03:55	WG2096607
(S) 4-Bromofluorobenzene	91.5			67.0-138		07/18/2023 03:55	WG2096607
(S) 1,2-Dichloroethane-d4	93.3			70.0-130		07/18/2023 03:55	WG2096607

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	116		16.1	40.0	10	07/21/2023 14:45	WG2098201
C28-C36 Motor Oil Range	322		2.74	40.0	10	07/21/2023 14:45	WG2098201
(S) o-Terphenyl	46.9			18.0-148		07/21/2023 14:45	WG2098201

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00209	0.00600	1	07/22/2023 21:37	WG2097511
Anthracene	U		0.00230	0.00600	1	07/22/2023 21:37	WG2097511
Benzo(a)anthracene	U		0.00173	0.00600	1	07/22/2023 21:37	WG2097511
Benzo(b)fluoranthene	U		0.00153	0.00600	1	07/22/2023 21:37	WG2097511
Benzo(k)fluoranthene	U		0.00215	0.00600	1	07/22/2023 21:37	WG2097511
Benzo(a)pyrene	U		0.00179	0.00600	1	07/22/2023 21:37	WG2097511
Chrysene	U		0.00232	0.00600	1	07/22/2023 21:37	WG2097511
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	07/22/2023 21:37	WG2097511
Fluoranthene	U		0.00227	0.00600	1	07/22/2023 21:37	WG2097511
Fluorene	0.00348	U	0.00205	0.00600	1	07/22/2023 21:37	WG2097511
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	07/22/2023 21:37	WG2097511
1-Methylnaphthalene	0.00493	U	0.00449	0.0200	1	07/22/2023 21:37	WG2097511
2-Methylnaphthalene	0.00526	U	0.00427	0.0200	1	07/22/2023 21:37	WG2097511
Naphthalene	U		0.00408	0.0200	1	07/22/2023 21:37	WG2097511
Pyrene	U		0.00200	0.00600	1	07/22/2023 21:37	WG2097511
(S) p-Terphenyl-d14	63.0			23.0-120		07/22/2023 21:37	WG2097511
(S) Nitrobenzene-d5	104			14.0-149		07/22/2023 21:37	WG2097511
(S) 2-Fluorobiphenyl	61.0			34.0-125		07/22/2023 21:37	WG2097511

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

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Hexavalent Chromium	U		0.255	1.00	1	07/18/2023 12:20	WG2095917

¹ Cp

² Tc

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Hot Water Sol. Boron	0.771		0.0167	0.200	1	07/26/2023 13:54	WG2095341

³ Ss

⁴ Cn

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.90		0.100	1.00	5	07/18/2023 19:34	WG2095886
Barium	94.0		0.152	2.50	5	07/18/2023 19:34	WG2095886
Cadmium	0.170	J	0.0855	1.00	5	07/18/2023 19:34	WG2095886
Copper	8.17		0.132	5.00	5	07/18/2023 19:34	WG2095886
Lead	10.1		0.0990	2.00	5	07/18/2023 19:34	WG2095886
Nickel	11.0		0.197	2.50	5	07/18/2023 19:34	WG2095886
Selenium	0.590	J	0.180	2.50	5	07/18/2023 19:34	WG2095886
Silver	U		0.0865	0.500	5	07/18/2023 19:34	WG2095886
Zinc	46.3		0.740	25.0	5	07/18/2023 19:34	WG2095886

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Hexavalent Chromium	U		0.255	1.00	1	07/18/2023 12:25	WG2095917

¹ Cp

² Tc

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Hot Water Sol. Boron	0.800		0.0334	0.400	2	07/26/2023 13:56	WG2095341

³ Ss

⁴ Cn

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	5.36		0.100	1.00	5	07/18/2023 18:37	WG2095880
Barium	212		0.152	2.50	5	07/18/2023 18:37	WG2095880
Cadmium	0.203	J	0.0855	1.00	5	07/18/2023 18:37	WG2095880
Copper	9.83		0.132	5.00	5	07/19/2023 14:15	WG2095880
Lead	12.7		0.0990	2.00	5	07/18/2023 18:37	WG2095880
Nickel	12.6		0.197	2.50	5	07/18/2023 18:37	WG2095880
Selenium	0.745	J	0.180	2.50	5	07/18/2023 18:37	WG2095880
Silver	U		0.0865	0.500	5	07/18/2023 18:37	WG2095880
Zinc	51.2		0.740	25.0	5	07/18/2023 18:37	WG2095880

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Hexavalent Chromium	U		0.255	1.00	1	07/18/2023 12:30	WG2095917

¹ Cp

² Tc

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Hot Water Sol. Boron	1.75		0.0167	0.200	1	07/26/2023 14:00	WG2095341

³ Ss

⁴ Cn

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	5.96		0.100	1.00	5	07/18/2023 18:41	WG2095880
Barium	95.7		0.152	2.50	5	07/18/2023 18:41	WG2095880
Cadmium	0.193	J	0.0855	1.00	5	07/18/2023 18:41	WG2095880
Copper	11.7		0.132	5.00	5	07/19/2023 14:18	WG2095880
Lead	16.5		0.0990	2.00	5	07/18/2023 18:41	WG2095880
Nickel	13.9		0.197	2.50	5	07/18/2023 18:41	WG2095880
Selenium	1.36	J	0.180	2.50	5	07/18/2023 18:41	WG2095880
Silver	0.0893	J	0.0865	0.500	5	07/18/2023 18:41	WG2095880
Zinc	63.5		0.740	25.0	5	07/18/2023 18:41	WG2095880

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3949824-1 07/18/23 10:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Hexavalent Chromium	U		0.255	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1635420-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1635420-01 07/18/23 11:02 • (DUP) R3949824-3 07/18/23 11:07

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Hexavalent Chromium	U	U	1	0.000		20

L1635421-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1635421-04 07/18/23 11:54 • (DUP) R3949824-4 07/18/23 11:59

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3949824-2 07/18/23 10:57

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Hexavalent Chromium	10.0	10.7	107	80.0-120	

L1635424-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635424-03 07/18/23 12:56 • (MS) R3949824-5 07/18/23 13:01 • (MSD) R3949824-6 07/18/23 13:07

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Hexavalent Chromium	20.0	U	19.0	15.8	94.9	78.9	1	75.0-125			18.5	20

L1635424-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1635424-03 07/18/23 12:56 • (MS) R3949824-7 07/18/23 13:12

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Hexavalent Chromium	641	U	886	138	50	75.0-125	<u>J5</u>

L1635421-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1635421-04 07/16/23 13:00 • (DUP) R3949078-2 07/16/23 13:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.80	7.84	1	0.512		1

Sample Narrative:

OS: 7.8 at 23.3C
DUP: 7.84 at 23.5C

L1635421-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1635421-07 07/16/23 13:00 • (DUP) R3949078-3 07/16/23 13:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.92	7.93	1	0.126		1

Sample Narrative:

OS: 7.92 at 23.3C
DUP: 7.93 at 23.2C

Laboratory Control Sample (LCS)

(LCS) R3949078-1 07/16/23 13:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10 at 22.7C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1635593-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1635593-01 07/17/23 10:00 • (DUP) R3949261-2 07/17/23 10:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.64	8.63	1	0.116		1

Sample Narrative:

OS: 8.64 at 22.2C
DUP: 8.63 at 22.2C

L1635599-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1635599-07 07/17/23 10:00 • (DUP) R3949261-3 07/17/23 10:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	9.00	9.04	1	0.443		1

Sample Narrative:

OS: 9 at 21.5C
DUP: 9.04 at 21.5C

Laboratory Control Sample (LCS)

(LCS) R3949261-1 07/17/23 10:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10 at 21.6C



Method Blank (MB)

(MB) R3949325-1 07/17/23 13:04

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1635424-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1635424-03 07/17/23 13:04 • (DUP) R3949325-3 07/17/23 13:04

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Specific Conductance	4380	4370	1	0.229		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1635500-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1635500-04 07/17/23 13:04 • (DUP) R3949325-4 07/17/23 13:04

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Specific Conductance	2720	2720	1	0.0368		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3949325-2 07/17/23 13:04

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	732	741	101	85.0-115	

Sample Narrative:

LCS: at 25C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3951980-1 07/24/23 10:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

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

(LCS) R3951980-2 07/24/23 11:02 • (LCSD) R3951980-3 07/24/23 11:04

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 %
Hot Water Sol. Boron	1.00	1.19	1.13	119	113	80.0-120			4.98	20

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

Method Blank (MB)

(MB) R3952782-1 07/25/23 15:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

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

(LCS) R3952782-2 07/25/23 15:26 • (LCSD) R3952782-3 07/25/23 15:28

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 %
Hot Water Sol. Boron	1.00	1.09	1.10	109	110	80.0-120			0.675	20

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

Method Blank (MB)

(MB) R3952980-1 07/26/23 13:45

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

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

(LCS) R3952980-2 07/26/23 13:48 • (LCSD) R3952980-3 07/26/23 13:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.07	1.09	107	109	80.0-120			1.34	20

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

Method Blank (MB)

(MB) R3950062-1 07/18/23 18:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00
Barium	U		0.152	2.50
Cadmium	U		0.0855	1.00
Lead	U		0.0990	2.00
Nickel	U		0.197	2.50
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500
Zinc	U		0.740	25.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

Method Blank (MB)

(MB) R3950297-7 07/19/23 13:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Copper	U		0.133	5.00

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3950062-2 07/18/23 18:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	86.0	86.0	80.0-120	
Barium	100	82.0	82.0	80.0-120	
Cadmium	100	84.5	84.5	80.0-120	
Lead	100	84.0	84.0	80.0-120	
Nickel	100	84.7	84.7	80.0-120	
Selenium	100	87.8	87.8	80.0-120	
Silver	20.0	16.5	82.4	80.0-120	
Zinc	100	81.1	81.1	80.0-120	

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3950297-2 07/19/23 13:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Copper	100	80.1	80.1	80.0-120	

L1635656-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635656-13 07/18/23 18:20 • (MS) R3950062-5 07/18/23 18:31 • (MSD) R3950062-6 07/18/23 18:34

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	99.9	2.87	97.5	95.4	94.6	92.5	5	75.0-125			2.17	20
Barium	99.9	80.8	198	184	117	103	5	75.0-125			7.43	20
Cadmium	99.9	U	89.5	93.2	89.5	93.2	5	75.0-125			4.05	20
Lead	99.9	3.76	90.5	89.7	86.7	86.0	5	75.0-125			0.870	20
Nickel	99.9	8.19	104	98.5	96.2	90.3	5	75.0-125			5.79	20
Selenium	99.9	0.212	94.7	98.9	94.5	98.7	5	75.0-125			4.38	20
Silver	20.0	U	17.1	18.2	85.6	90.8	5	75.0-125			5.85	20
Zinc	99.9	30.6	118	119	87.7	88.3	5	75.0-125			0.519	20

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1635656-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635656-13 07/19/23 13:59 • (MS) R3950297-5 07/19/23 14:08 • (MSD) R3950297-6 07/19/23 14:11

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Copper	99.9	8.58	93.1	95.2	84.6	86.6	5	75.0-125			2.17	20

Method Blank (MB)

(MB) R3950058-1 07/18/23 18:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00
Barium	U		0.152	2.50
Cadmium	U		0.0855	1.00
Copper	U		0.133	5.00
Lead	U		0.0990	2.00
Nickel	U		0.197	2.50
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500
Zinc	U		0.740	25.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

Laboratory Control Sample (LCS)

(LCS) R3950058-2 07/18/23 18:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	98.5	98.5	80.0-120	
Barium	100	94.6	94.6	80.0-120	
Cadmium	100	102	102	80.0-120	
Copper	100	91.1	91.1	80.0-120	
Lead	100	90.5	90.5	80.0-120	
Nickel	100	98.8	98.8	80.0-120	
Selenium	100	103	103	80.0-120	
Silver	20.0	19.3	96.3	80.0-120	
Zinc	100	94.6	94.6	80.0-120	

⁷Gl

⁸Al

⁹Sc

L1635599-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635599-15 07/18/23 18:48 • (MS) R3950058-5 07/18/23 18:58 • (MSD) R3950058-6 07/18/23 19:01

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	14.2	97.2	109	83.0	94.9	5	75.0-125			11.6	20
Barium	100	73.9	182	226	108	152	5	75.0-125		J3 J5	21.9	20
Cadmium	100	0.619	95.9	102	95.2	101	5	75.0-125			6.31	20
Copper	100	34.4	115	123	80.9	88.6	5	75.0-125			6.48	20
Lead	100	17.3	104	110	86.4	93.1	5	75.0-125			6.22	20
Nickel	100	24.6	111	121	86.7	96.5	5	75.0-125			8.43	20
Selenium	100	1.12	95.0	102	93.9	101	5	75.0-125			7.36	20
Silver	20.0	0.109	17.7	18.9	88.1	93.9	5	75.0-125			6.28	20
Zinc	100	90.9	167	178	76.5	86.7	5	75.0-125			5.93	20

Method Blank (MB)

(MB) R3949862-2 07/17/23 23:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0245	↓	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3949862-1 07/17/23 22:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.12	74.9	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			96.6	77.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3949822-2 07/18/23 00:40

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Xylenes, Total	U		0.000880	0.00650
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
(S) Toluene-d8	106			75.0-131
(S) 4-Bromofluorobenzene	90.8			67.0-138
(S) 1,2-Dichloroethane-d4	94.0			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R3949822-1 07/17/23 23:26

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
Benzene	0.125	0.114	91.2	70.0-123	
Toluene	0.125	0.112	89.6	75.0-121	
Ethylbenzene	0.125	0.112	89.6	74.0-126	
Xylenes, Total	0.375	0.308	82.1	72.0-127	
1,2,4-Trimethylbenzene	0.125	0.108	86.4	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.112	89.6	73.0-127	
(S) Toluene-d8			103	75.0-131	
(S) 4-Bromofluorobenzene			92.5	67.0-138	
(S) 1,2-Dichloroethane-d4			104	70.0-130	

7 Gl

8 Al

9 Sc

L1635421-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635421-01 07/18/23 02:03 • (MS) R3949822-3 07/18/23 06:25 • (MSD) R3949822-4 07/18/23 06:43

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	0.125	U	0.121	0.114	96.8	91.2	1	10.0-149			5.96	37
Toluene	0.125	U	0.126	0.118	101	94.4	1	10.0-156			6.56	38
Ethylbenzene	0.125	U	0.125	0.112	100	89.6	1	10.0-160			11.0	38
Xylenes, Total	0.375	0.00133	0.347	0.312	92.2	82.8	1	10.0-160			10.6	38
1,2,4-Trimethylbenzene	0.125	U	0.123	0.114	98.4	91.2	1	10.0-160			7.59	36
1,3,5-Trimethylbenzene	0.125	U	0.122	0.124	97.6	99.2	1	10.0-160			1.63	38
(S) Toluene-d8					106	107		75.0-131				
(S) 4-Bromofluorobenzene					94.3	90.4		67.0-138				
(S) 1,2-Dichloroethane-d4					99.2	96.3		70.0-130				

Method Blank (MB)

(MB) R3951148-1 07/21/23 01:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	0.315	J	0.274	4.00
(S) o-Terphenyl	62.6			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3951148-2 07/21/23 01:48

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	35.3	70.6	50.0-150	
(S) o-Terphenyl			65.3	18.0-148	

L1635369-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635369-06 07/21/23 03:11 • (MS) R3951148-3 07/21/23 03:25 • (MSD) R3951148-4 07/21/23 03:39

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	50.0	U	34.4	37.3	68.8	74.6	1	50.0-150			8.09	20
(S) o-Terphenyl					61.0	58.1		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3952834-2 07/22/23 14:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00209	0.00600
Anthracene	U		0.00230	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
Naphthalene	U		0.00408	0.0200
Pyrene	U		0.00200	0.00600
(S) p-Terphenyl-d14	87.3			23.0-120
(S) Nitrobenzene-d5	110			14.0-149
(S) 2-Fluorobiphenyl	80.8			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3952834-1 07/22/23 14:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0800	0.0558	69.8	50.0-120	
Anthracene	0.0800	0.0591	73.9	50.0-126	
Benzo(a)anthracene	0.0800	0.0687	85.9	45.0-120	
Benzo(b)fluoranthene	0.0800	0.0745	93.1	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0669	83.6	49.0-125	
Benzo(a)pyrene	0.0800	0.0563	70.4	42.0-120	
Chrysene	0.0800	0.0706	88.3	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0688	86.0	47.0-125	
Fluoranthene	0.0800	0.0628	78.5	49.0-129	
Fluorene	0.0800	0.0627	78.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0722	90.3	46.0-125	
1-Methylnaphthalene	0.0800	0.0537	67.1	51.0-121	
2-Methylnaphthalene	0.0800	0.0561	70.1	50.0-120	
Naphthalene	0.0800	0.0543	67.9	50.0-120	
Pyrene	0.0800	0.0738	92.3	43.0-123	

Laboratory Control Sample (LCS)

(LCS) R3952834-1 07/22/23 14:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) p-Terphenyl-d14			86.1	23.0-120	
(S) Nitrobenzene-d5			119	14.0-149	
(S) 2-Fluorobiphenyl			84.4	34.0-125	

L1635428-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635428-09 07/22/23 16:03 • (MS) R3952834-3 07/22/23 16:23 • (MSD) R3952834-4 07/22/23 16:42

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.0781	0.00273	0.0341	0.0310	40.2	36.8	1	14.0-127			9.52	27
Anthracene	0.0781	0.0257	0.0696	0.0710	56.3	59.0	1	10.0-145			1.99	30
Benzo(a)anthracene	0.0781	0.137	0.182	0.131	57.7	0.000	1	10.0-139		J3 J6	32.6	30
Benzo(b)fluoranthene	0.0781	0.190	0.254	0.142	82.1	0.000	1	10.0-140		J3 J6	56.6	36
Benzo(k)fluoranthene	0.0781	0.0714	0.120	0.0934	62.3	28.6	1	10.0-137			24.9	31
Benzo(a)pyrene	0.0781	0.0962	0.146	0.104	63.8	10.2	1	10.0-141		J3	33.6	31
Chrysene	0.0781	0.272	0.308	0.236	46.2	0.000	1	10.0-145		J6	26.5	30
Dibenz(a,h)anthracene	0.0781	0.0134	0.0638	0.0604	64.6	61.2	1	10.0-132			5.48	31
Fluoranthene	0.0781	0.408	0.399	0.216	0.000	0.000	1	10.0-153	V	J3 V	59.5	33
Fluorene	0.0781	0.0109	0.0530	0.0528	54.0	54.6	1	11.0-130			0.378	29
Indeno(1,2,3-cd)pyrene	0.0781	0.0577	0.113	0.0871	70.9	38.3	1	10.0-137			25.9	32
1-Methylnaphthalene	0.0781	0.0182	0.0326	0.0523	18.5	44.4	1	10.0-142		J3	46.4	28
2-Methylnaphthalene	0.0781	0.0388	0.0416	0.0896	3.59	66.1	1	10.0-137	J6	J3	73.2	28
Naphthalene	0.0781	0.0137	0.0290	0.0436	19.6	38.9	1	10.0-135		J3	40.2	27
Pyrene	0.0781	0.431	0.463	0.251	41.0	0.000	1	10.0-148		J3 V	59.4	35
(S) p-Terphenyl-d14					58.9	64.9		23.0-120				
(S) Nitrobenzene-d5					103	114		14.0-149				
(S) 2-Fluorobiphenyl					52.3	61.2		34.0-125				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

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.

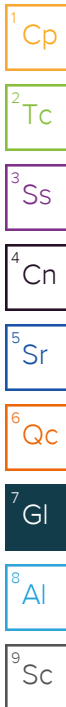
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	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, the sample preparation volume or weight values differ from the standard, 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.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
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.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
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.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

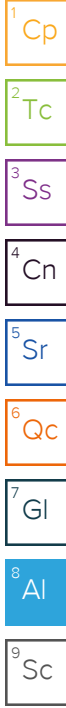
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Scout Energy Partners
100 Chevron Road
Rangely, CO 81648

Billing Information:
Same as left

Report to:
Chris Patterson

Email To:
chris.patterson@scoutep.com

Project Description:
10 inch Crest line Spill

City/State Collected:
CO

Phone: **1-970-501-5157**


Client Project #

Lab Project #

Collected by (print):
M. Schlageter

Site/Facility ID #

P.O. #

Collected by (signature):


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

Quote #

Date Results Needed

Immediately Packed on Ice N Y

No. of Cntrs

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical
 National Center for Testing & Innovation

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

QR Code

L# **110350421**
B142

Table

Acctnum: **SCOENERCO**

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX, TMBs	Table 915 PAHs	Table 915 Metals	Hot Water Soluble Boron	GRO/DRO/ORO	SAR/EC/pH	Remarks	Sample # (lab only)
10 in Crest Line SS1 (1')	Grab	SS	1'	7/12/2023	1000	4	X	X	X	X	X	X		-01
10 in Crest Line SS2 (1')	Grab	SS	1'	7/12/2023	1010	4	X	X	X	X	X	X		-02
10 in Crest Line SS3 (1')	Grab	SS	1'	7/12/2023	1020	4	X	X	X	X	X	X		-03
10 in Crest Line SS4 (1')	Grab	SS	1'	7/12/2023	1030	4	X	X	X	X	X	X		-04
10 in Crest Line SS5 (1')	Grab	SS	1'	7/12/2023	1040	4	X	X	X	X	X	X		-05
10 in Crest Line SS6 (1')	Grab	SS	1'	7/12/2023	1050	4	X	X	X	X	X	X		-06
10 in Crest Line SS7 (1')	Grab	SS	1'	7/12/2023	1100	4	X	X	X	X	X	X		-07
10 in Crest Line BG1 (1')	Grab	SS	1'	7/12/2023	1110	4			X	X				-08
10 in Crest Line BG2 (1')	Grab	SS	1'	7/12/2023	1120	4			X	X				-09
10 in Crest Line BG3 (1')	Grab	SS	1'	7/12/2023	1130	4			X	X				-10

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

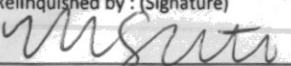
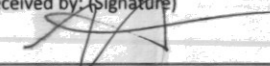

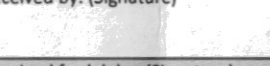
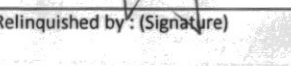
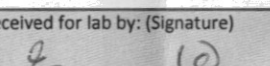
Remarks:
Please prioritize organic analysis, SAR, EC, and pH if volume is insufficient.

pH _____ Temp _____
 Flow _____ Other _____

Samples returned via:
 UPS FedEx Courier

Tracking # **6126 6537 3328**

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: 7/12/23	Time: 1500	Received by: (Signature) 	Trip Blank Received: Yes / No HCL / MeOH TBR
Relinquished by: (Signature) 	Date: 7/22/23	Time: 1800	Received by: (Signature) 	Temp: 6042C Bottles Received: 5.410 = 5.4
Relinquished by: (Signature) 	Date:	Time:	Received for lab by: (Signature) 	Date: 7-14-23 Time: 9:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

U035421

Tracking Numbers		Temperature	
6126 6537 3328		GBAC 5.4to=5.4	
6126 6537 3306		GBAC 3.6to=3.6	
6126 6537 3339		GBAC 1.0to=1.0	



01-Apr-2021

Tim Dobransky
Entrada Consulting Group
240 Mesa Ave.
Grand Junction, CO 81501

Re: **AC McLaughlin 47 Spill**

Work Order: **21032115**

Dear Tim,

ALS Environmental received 7 samples on 20-Mar-2021 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 34.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton", is written over a faint, light-colored signature line.

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Entrada Consulting Group
Project: AC McLaughlin 47 Spill
Work Order: 21032115

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21032115-01	ACM 47-SS1	Soil		3/18/2021 10:30	3/20/2021 10:00	<input type="checkbox"/>
21032115-02	ACM 47-SS2	Soil		3/18/2021 10:45	3/20/2021 10:00	<input type="checkbox"/>
21032115-03	ACM 47-SS3	Soil		3/18/2021 11:00	3/20/2021 10:00	<input type="checkbox"/>
21032115-04	ACM 47-BG1	Soil		3/18/2021 11:30	3/20/2021 10:00	<input type="checkbox"/>
21032115-05	ACM 47-SS4	Soil		3/18/2021 11:45	3/20/2021 10:00	<input type="checkbox"/>
21032115-06	ACM 47-BG2	Soil		3/18/2021 12:00	3/20/2021 10:00	<input type="checkbox"/>
21032115-07	ACM 47-SS5	Soil		3/18/2021 12:20	3/20/2021 10:00	<input type="checkbox"/>

Client: Entrada Consulting Group
Project: AC McLaughlin 47 Spill
Work Order: 21032115

Case Narrative

Batch 174110, Method SW6020B: The concentration in the Method Blank was greater than the quantitation limit for boron. The sample results were greater than 10x the concentration in the Method Blank; therefore, no qualification is required.

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	

ALS Group, USA

Date: 01-Apr-21

Client: Entrada Consulting Group
Project: AC McLaughlin 47 Spill
Sample ID: ACM 47-SS1
Collection Date: 3/18/2021 10:30 AM

Work Order: 21032115
Lab ID: 21032115-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 3/25/21		Analyst: AK
ERO (C10-C36)	30		9.6	25	mg/Kg-dry	1	3/27/2021 19:14
Surr: 4-Terphenyl-d14	70.8			33-111	%REC	1	3/27/2021 19:14
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 3/24/21		Analyst: AK
GRO (C6-C10)	U		3.3	7.9	mg/Kg-dry	1	3/27/2021 02:18
Surr: Toluene-d8	104			71-123	%REC	1	3/27/2021 02:18
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 3/26/21		Analyst: STP
Arsenic	6.2		0.050	0.42	mg/Kg-dry	1	3/26/2021 21:18
Barium	150		0.39	0.42	mg/Kg-dry	1	3/26/2021 21:18
Cadmium	0.14	J	0.025	0.17	mg/Kg-dry	1	3/26/2021 21:18
Copper	12		0.42	0.42	mg/Kg-dry	1	3/26/2021 21:18
Lead	20		0.20	0.42	mg/Kg-dry	1	3/26/2021 21:18
Nickel	16		0.22	0.42	mg/Kg-dry	1	3/26/2021 21:18
Selenium	0.97		0.39	0.42	mg/Kg-dry	1	3/26/2021 21:18
Silver	0.096	J	0.055	0.42	mg/Kg-dry	1	3/26/2021 21:18
Zinc	77		0.82	0.84	mg/Kg-dry	1	3/26/2021 21:18
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 3/29/21		Analyst: STP
Calcium	1,000		2.5	5.0	mg/L	10	3/29/2021 17:57
Magnesium	47		0.50	2.0	mg/L	10	3/29/2021 17:57
Sodium	1,700		1.8	2.0	mg/L	10	3/29/2021 17:57
HOT WATER SOLUBLE BORON BY ICP-MS							
			Method: SW6020B		Prep: EXTRACT / 3/26/21		Analyst: STP
Boron (Hot Water Soluble)	3.3	B	0.020	0.51	mg/Kg-dry	10	3/26/2021 20:07
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 3/29/21		Analyst: STP
Sodium Adsorption Ratio	14		0.010	0.010	none	1	3/29/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
			Method: SW8270E		Prep: SW3546 / 3/24/21		Analyst: EEW
1-Methylnaphthalene	0.017		0.0031	0.0052	mg/Kg-dry	1	3/25/2021 16:34
2-Methylnaphthalene	0.018		0.0036	0.0052	mg/Kg-dry	1	3/25/2021 16:34
Acenaphthene	U		0.0044	0.0052	mg/Kg-dry	1	3/25/2021 16:34
Anthracene	U		0.0047	0.0052	mg/Kg-dry	1	3/25/2021 16:34
Benzo(a)anthracene	U		0.0050	0.0052	mg/Kg-dry	1	3/25/2021 16:34
Benzo(a)pyrene	U		0.0042	0.0052	mg/Kg-dry	1	3/25/2021 16:34
Benzo(b)fluoranthene	U		0.0044	0.0052	mg/Kg-dry	1	3/25/2021 16:34
Benzo(k)fluoranthene	U		0.0042	0.0052	mg/Kg-dry	1	3/25/2021 16:34
Chrysene	U		0.0048	0.0052	mg/Kg-dry	1	3/25/2021 16:34
Dibenzo(a,h)anthracene	U		0.0042	0.0052	mg/Kg-dry	1	3/25/2021 16:34

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Apr-21

Client: Entrada Consulting Group
Project: AC McLaughlin 47 Spill
Sample ID: ACM 47-SS1
Collection Date: 3/18/2021 10:30 AM

Work Order: 21032115
Lab ID: 21032115-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluoranthene	0.0050	J	0.0041	0.0052	mg/Kg-dry	1	3/25/2021 16:34
Fluorene	U		0.0041	0.0052	mg/Kg-dry	1	3/25/2021 16:34
Indeno(1,2,3-cd)pyrene	U		0.0045	0.0052	mg/Kg-dry	1	3/25/2021 16:34
Naphthalene	0.0086		0.0050	0.0052	mg/Kg-dry	1	3/25/2021 16:34
Pyrene	0.0056		0.0050	0.0052	mg/Kg-dry	1	3/25/2021 16:34
Surr: 2-Fluorobiphenyl	65.7			20-140	%REC	1	3/25/2021 16:34
Surr: 4-Terphenyl-d14	77.6			22-172	%REC	1	3/25/2021 16:34
Surr: Nitrobenzene-d5	80.9			28-140	%REC	1	3/25/2021 16:34
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 3/24/21		Analyst: MF
1,2,4-Trimethylbenzene	0.086		0.035	0.047	mg/Kg-dry	1	3/31/2021 14:39
1,3,5-Trimethylbenzene	0.090	J	0.055	0.16	mg/Kg-dry	1	3/31/2021 14:39
Benzene	U		0.023	0.047	mg/Kg-dry	1	3/31/2021 14:39
Ethylbenzene	U		0.0099	0.047	mg/Kg-dry	1	3/31/2021 14:39
m,p-Xylene	U		0.063	0.094	mg/Kg-dry	1	3/31/2021 14:39
o-Xylene	0.060		0.018	0.047	mg/Kg-dry	1	3/31/2021 14:39
Toluene	0.021	J	0.013	0.047	mg/Kg-dry	1	3/31/2021 14:39
Xylenes, Total	U		0.063	0.14	mg/Kg-dry	1	3/31/2021 14:39
Surr: 1,2-Dichloroethane-d4	100			70-130	%REC	1	3/31/2021 14:39
Surr: 4-Bromofluorobenzene	97.6			70-130	%REC	1	3/31/2021 14:39
Surr: Dibromofluoromethane	102			70-130	%REC	1	3/31/2021 14:39
Surr: Toluene-d8	103			70-130	%REC	1	3/31/2021 14:39
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 3/29/21		Analyst: QTN
Electrical Conductivity @ Saturation	14		0.011	0.10	mmhos/cm @25°	20	3/29/2021 13:02
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 3/25/21		Analyst: KTP
Chromium, Hexavalent	U		1.1	1.3	mg/Kg-dry	1	3/25/2021 15:03
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	22		0.10	0.10	% of sample	1	3/25/2021 13:44
PH MEASURED IN SOIL PASTE			Method: USDA METHOD 20B		Prep: USDA Method 20B / 3/29/21		Analyst: QTN
pH @ Saturation	9.38		0.13	0.13	s.u.-dry	1	3/29/2021 13:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Apr-21

Client: Entrada Consulting Group
Project: AC McLaughlin 47 Spill
Sample ID: ACM 47-SS2
Collection Date: 3/18/2021 10:45 AM

Work Order: 21032115
Lab ID: 21032115-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 3/29/21		Analyst: AK
ERO (C10-C36)	83		28	75	mg/Kg-dry	1	3/29/2021 12:13
<i>Surr: 4-Terphenyl-d14</i>	68.0			33-111	%REC	1	3/29/2021 12:13
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 3/24/21		Analyst: AK
GRO (C6-C10)	15		3.1	7.5	mg/Kg-dry	1	3/27/2021 05:45
<i>Surr: Toluene-d8</i>	105			71-123	%REC	1	3/27/2021 05:45
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 3/26/21		Analyst: STP
Arsenic	6.4		0.050	0.42	mg/Kg-dry	1	3/26/2021 21:20
Barium	1,400		3.9	4.2	mg/Kg-dry	10	3/29/2021 16:04
Cadmium	0.18		0.025	0.17	mg/Kg-dry	1	3/26/2021 21:20
Copper	12		0.42	0.42	mg/Kg-dry	1	3/26/2021 21:20
Lead	39		0.20	0.42	mg/Kg-dry	1	3/26/2021 21:20
Nickel	17		0.22	0.42	mg/Kg-dry	1	3/26/2021 21:20
Selenium	0.93		0.39	0.42	mg/Kg-dry	1	3/26/2021 21:20
Silver	0.073	J	0.055	0.42	mg/Kg-dry	1	3/26/2021 21:20
Zinc	120		0.82	0.84	mg/Kg-dry	1	3/26/2021 21:20
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 3/29/21		Analyst: STP
Calcium	210		2.5	5.0	mg/L	10	3/29/2021 17:58
Magnesium	33		0.50	2.0	mg/L	10	3/29/2021 17:58
Sodium	3,800		18	20	mg/L	100	3/30/2021 13:47
HOT WATER SOLUBLE BORON BY ICP-MS							
			Method: SW6020B		Prep: EXTRACT / 3/26/21		Analyst: STP
Boron (Hot Water Soluble)	5.5	B	0.021	0.51	mg/Kg-dry	10	3/26/2021 20:09
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 3/29/21		Analyst: STP
Sodium Adsorption Ratio	64		0.010	0.010	none	1	3/29/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
			Method: SW8270E		Prep: SW3546 / 3/24/21		Analyst: EEW
1-Methylnaphthalene	0.15		0.0031	0.0053	mg/Kg-dry	1	3/25/2021 16:50
2-Methylnaphthalene	0.18		0.0037	0.0053	mg/Kg-dry	1	3/25/2021 16:50
Acenaphthene	U		0.0045	0.0053	mg/Kg-dry	1	3/25/2021 16:50
Anthracene	U		0.0047	0.0053	mg/Kg-dry	1	3/25/2021 16:50
Benzo(a)anthracene	0.014		0.0051	0.0053	mg/Kg-dry	1	3/25/2021 16:50
Benzo(a)pyrene	U		0.0042	0.0053	mg/Kg-dry	1	3/25/2021 16:50
Benzo(b)fluoranthene	U		0.0045	0.0053	mg/Kg-dry	1	3/25/2021 16:50
Benzo(k)fluoranthene	U		0.0043	0.0053	mg/Kg-dry	1	3/25/2021 16:50
Chrysene	0.020		0.0048	0.0053	mg/Kg-dry	1	3/25/2021 16:50
Dibenzo(a,h)anthracene	U		0.0043	0.0053	mg/Kg-dry	1	3/25/2021 16:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Apr-21

Client: Entrada Consulting Group
Project: AC McLaughlin 47 Spill
Sample ID: ACM 47-SS2
Collection Date: 3/18/2021 10:45 AM

Work Order: 21032115
Lab ID: 21032115-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluoranthene	0.0076		0.0042	0.0053	mg/Kg-dry	1	3/25/2021 16:50
Fluorene	0.0085		0.0041	0.0053	mg/Kg-dry	1	3/25/2021 16:50
Indeno(1,2,3-cd)pyrene	U		0.0046	0.0053	mg/Kg-dry	1	3/25/2021 16:50
Naphthalene	0.18		0.0051	0.0053	mg/Kg-dry	1	3/25/2021 16:50
Pyrene	0.0092		0.0050	0.0053	mg/Kg-dry	1	3/25/2021 16:50
Surr: 2-Fluorobiphenyl	66.0			20-140	%REC	1	3/25/2021 16:50
Surr: 4-Terphenyl-d14	63.8			22-172	%REC	1	3/25/2021 16:50
Surr: Nitrobenzene-d5	80.2			28-140	%REC	1	3/25/2021 16:50
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 3/24/21		Analyst: DMC
1,2,4-Trimethylbenzene	0.37		0.033	0.045	mg/Kg-dry	1	3/31/2021 04:02
1,3,5-Trimethylbenzene	0.15	J	0.052	0.15	mg/Kg-dry	1	3/31/2021 04:02
Benzene	U		0.022	0.045	mg/Kg-dry	1	3/31/2021 04:02
Ethylbenzene	0.048		0.0095	0.045	mg/Kg-dry	1	3/31/2021 04:02
m,p-Xylene	0.24		0.060	0.090	mg/Kg-dry	1	3/31/2021 04:02
o-Xylene	0.12		0.017	0.045	mg/Kg-dry	1	3/31/2021 04:02
Toluene	0.080		0.012	0.045	mg/Kg-dry	1	3/31/2021 04:02
Xylenes, Total	0.36		0.060	0.13	mg/Kg-dry	1	3/31/2021 04:02
Surr: 1,2-Dichloroethane-d4	98.0			70-130	%REC	1	3/31/2021 04:02
Surr: 4-Bromofluorobenzene	99.9			70-130	%REC	1	3/31/2021 04:02
Surr: Dibromofluoromethane	102			70-130	%REC	1	3/31/2021 04:02
Surr: Toluene-d8	104			70-130	%REC	1	3/31/2021 04:02
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 3/29/21		Analyst: QTN
Electrical Conductivity @ Saturation	19		0.011	0.10	mmhos/cm @25°	20	3/29/2021 13:02
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 3/25/21		Analyst: KTP
Chromium, Hexavalent	U		1.1	1.3	mg/Kg-dry	1	3/25/2021 15:03
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	22		0.10	0.10	% of sample	1	3/25/2021 13:44
PH MEASURED IN SOIL PASTE			Method: USDA METHOD 20B		Prep: USDA Method 20B / 3/29/21		Analyst: QTN
pH @ Saturation	9.56		0.13	0.13	s.u.-dry	1	3/29/2021 13:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Apr-21

Client: Entrada Consulting Group
Project: AC McLaughlin 47 Spill
Sample ID: ACM 47-SS3
Collection Date: 3/18/2021 11:00 AM

Work Order: 21032115
Lab ID: 21032115-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 3/25/21		Analyst: AK
ERO (C10-C36)	33		9.7	25	mg/Kg-dry	1	3/27/2021 21:52
Surr: 4-Terphenyl-d14	70.7			33-111	%REC	1	3/27/2021 21:52
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 3/24/21		Analyst: AK
GRO (C6-C10)	U		3.1	7.3	mg/Kg-dry	1	3/27/2021 06:08
Surr: Toluene-d8	108			71-123	%REC	1	3/27/2021 06:08
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 3/26/21		Analyst: STP
Arsenic	6.3		0.056	0.47	mg/Kg-dry	1	3/26/2021 22:00
Barium	150		0.43	0.47	mg/Kg-dry	1	3/26/2021 22:00
Cadmium	0.13	J	0.028	0.19	mg/Kg-dry	1	3/26/2021 22:00
Copper	12		0.47	0.47	mg/Kg-dry	1	3/26/2021 22:00
Lead	18		0.22	0.47	mg/Kg-dry	1	3/26/2021 22:00
Nickel	16		0.24	0.47	mg/Kg-dry	1	3/26/2021 22:00
Selenium	0.91		0.43	0.47	mg/Kg-dry	1	3/30/2021 13:28
Silver	0.082	J	0.061	0.47	mg/Kg-dry	1	3/26/2021 22:00
Zinc	68		0.91	0.93	mg/Kg-dry	1	3/26/2021 22:00
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 3/29/21		Analyst: STP
Calcium	120		2.5	5.0	mg/L	10	3/29/2021 18:00
Magnesium	20		0.50	2.0	mg/L	10	3/29/2021 18:00
Sodium	2,900		18	20	mg/L	100	3/30/2021 13:49
HOT WATER SOLUBLE BORON BY ICP-MS							
			Method: SW6020B		Prep: EXTRACT / 3/26/21		Analyst: STP
Boron (Hot Water Soluble)	5.8	B	0.020	0.50	mg/Kg-dry	10	3/26/2021 20:10
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 3/29/21		Analyst: STP
Sodium Adsorption Ratio	64		0.010	0.010	none	1	3/29/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
			Method: SW8270E		Prep: SW3546 / 3/24/21		Analyst: EEW
1-Methylnaphthalene	0.0033	J	0.0031	0.0052	mg/Kg-dry	1	3/25/2021 17:06
2-Methylnaphthalene	U		0.0037	0.0052	mg/Kg-dry	1	3/25/2021 17:06
Acenaphthene	U		0.0045	0.0052	mg/Kg-dry	1	3/25/2021 17:06
Anthracene	U		0.0047	0.0052	mg/Kg-dry	1	3/25/2021 17:06
Benzo(a)anthracene	U		0.0051	0.0052	mg/Kg-dry	1	3/25/2021 17:06
Benzo(a)pyrene	U		0.0042	0.0052	mg/Kg-dry	1	3/25/2021 17:06
Benzo(b)fluoranthene	U		0.0045	0.0052	mg/Kg-dry	1	3/25/2021 17:06
Benzo(k)fluoranthene	U		0.0043	0.0052	mg/Kg-dry	1	3/25/2021 17:06
Chrysene	U		0.0048	0.0052	mg/Kg-dry	1	3/25/2021 17:06
Dibenzo(a,h)anthracene	U		0.0043	0.0052	mg/Kg-dry	1	3/25/2021 17:06

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Apr-21

Client: Entrada Consulting Group
Project: AC McLaughlin 47 Spill
Sample ID: ACM 47-SS3
Collection Date: 3/18/2021 11:00 AM

Work Order: 21032115
Lab ID: 21032115-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluoranthene	U		0.0042	0.0052	mg/Kg-dry	1	3/25/2021 17:06
Fluorene	U		0.0041	0.0052	mg/Kg-dry	1	3/25/2021 17:06
Indeno(1,2,3-cd)pyrene	U		0.0046	0.0052	mg/Kg-dry	1	3/25/2021 17:06
Naphthalene	0.0074		0.0051	0.0052	mg/Kg-dry	1	3/25/2021 17:06
Pyrene	U		0.0050	0.0052	mg/Kg-dry	1	3/25/2021 17:06
Surr: 2-Fluorobiphenyl	64.4			20-140	%REC	1	3/25/2021 17:06
Surr: 4-Terphenyl-d14	71.1			22-172	%REC	1	3/25/2021 17:06
Surr: Nitrobenzene-d5	78.8			28-140	%REC	1	3/25/2021 17:06
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 3/24/21		Analyst: DMC
1,2,4-Trimethylbenzene	0.12		0.032	0.044	mg/Kg-dry	1	3/31/2021 04:18
1,3,5-Trimethylbenzene	0.059	J	0.051	0.15	mg/Kg-dry	1	3/31/2021 04:18
Benzene	U		0.021	0.044	mg/Kg-dry	1	3/31/2021 04:18
Ethylbenzene	U		0.0093	0.044	mg/Kg-dry	1	3/31/2021 04:18
m,p-Xylene	U		0.059	0.088	mg/Kg-dry	1	3/31/2021 04:18
o-Xylene	0.054		0.017	0.044	mg/Kg-dry	1	3/31/2021 04:18
Toluene	U		0.012	0.044	mg/Kg-dry	1	3/31/2021 04:18
Xylenes, Total	U		0.059	0.13	mg/Kg-dry	1	3/31/2021 04:18
Surr: 1,2-Dichloroethane-d4	94.3			70-130	%REC	1	3/31/2021 04:18
Surr: 4-Bromofluorobenzene	100			70-130	%REC	1	3/31/2021 04:18
Surr: Dibromofluoromethane	100			70-130	%REC	1	3/31/2021 04:18
Surr: Toluene-d8	101			70-130	%REC	1	3/31/2021 04:18
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 3/29/21		Analyst: QTN
Electrical Conductivity @ Saturation	15		0.011	0.10	mmhos/cm @25°	20	3/29/2021 13:02
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 3/25/21		Analyst: KTP
Chromium, Hexavalent	U		1.1	1.2	mg/Kg-dry	1	3/25/2021 15:03
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	22		0.10	0.10	% of sample	1	3/25/2021 13:44
PH MEASURED IN SOIL PASTE			Method: USDA METHOD 20B		Prep: USDA Method 20B / 3/29/21		Analyst: QTN
pH @ Saturation	9.99		0.13	0.13	s.u.-dry	1	3/29/2021 13:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Apr-21

Client: Entrada Consulting Group
Project: AC McLaughlin 47 Spill
Sample ID: ACM 47-BG1
Collection Date: 3/18/2021 11:30 AM

Work Order: 21032115
Lab ID: 21032115-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 3/26/21		Analyst: STP
Arsenic	6.4		0.049	0.40	mg/Kg-dry	1	3/26/2021 22:02
Barium	150		3.7	4.0	mg/Kg-dry	10	3/29/2021 16:05
Cadmium	0.17		0.024	0.16	mg/Kg-dry	1	3/29/2021 16:23
Copper	13		0.40	0.40	mg/Kg-dry	1	3/26/2021 22:02
Lead	17		0.19	0.40	mg/Kg-dry	1	3/26/2021 22:02
Nickel	17		0.21	0.40	mg/Kg-dry	1	3/26/2021 22:02
Selenium	0.82		0.37	0.40	mg/Kg-dry	1	3/30/2021 13:30
Silver	0.083	J	0.053	0.40	mg/Kg-dry	1	3/26/2021 22:02
Zinc	67		0.79	0.81	mg/Kg-dry	1	3/26/2021 22:02
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 3/29/21		Analyst: STP
Calcium	79		2.5	5.0	mg/L	10	3/29/2021 18:02
Magnesium	9.7		0.50	2.0	mg/L	10	3/29/2021 18:02
Sodium	5.1		1.8	2.0	mg/L	10	3/29/2021 18:02
HOT WATER SOLUBLE BORON BY ICP-MS							
			Method: SW6020B		Prep: EXTRACT / 3/26/21		Analyst: STP
Boron (Hot Water Soluble)	1.6	B	0.018	0.46	mg/Kg-dry	10	3/26/2021 20:12
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 3/29/21		Analyst: STP
Sodium Adsorption Ratio	0.14		0.010	0.010	none	1	3/29/2021
ELECTRICAL CONDUCTIVITY (SAR)							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 3/29/21		Analyst: QTN
Electrical Conductivity @ Saturation	0.51		0.011	0.10	mmhos/cm @25°	20	3/29/2021 13:02
CHROMIUM, HEXAVALENT							
			Method: SW7196A		Prep: SW3060A / 3/25/21		Analyst: KTP
Chromium, Hexavalent		U	0.99	1.2	mg/Kg-dry	1	3/25/2021 15:03
MOISTURE							
			Method: SW3550C				Analyst: KTP
Moisture	16		0.10	0.10	% of sample	1	3/25/2021 13:44
PH MEASURED IN SOIL PASTE							
			Method: USDA METHOD 20B		Prep: USDA Method 20B / 3/29/21		Analyst: QTN
pH @ Saturation	9.53		0.12	0.12	s.u.-dry	1	3/29/2021 13:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Apr-21

Client: Entrada Consulting Group
Project: AC McLaughlin 47 Spill
Sample ID: ACM 47-SS4
Collection Date: 3/18/2021 11:45 AM

Work Order: 21032115
Lab ID: 21032115-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 3/25/21		Analyst: AK
ERO (C10-C36)	24	J	9.8	26	mg/Kg-dry	1	3/27/2021 22:31
Surr: 4-Terphenyl-d14	74.7			33-111	%REC	1	3/27/2021 22:31
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 3/24/21		Analyst: AK
GRO (C6-C10)		U	3.1	7.5	mg/Kg-dry	1	3/27/2021 06:31
Surr: Toluene-d8	96.8			71-123	%REC	1	3/27/2021 06:31
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 3/26/21		Analyst: STP
Arsenic	6.3		0.053	0.44	mg/Kg-dry	1	3/26/2021 22:03
Barium	140		0.41	0.44	mg/Kg-dry	1	3/26/2021 22:03
Cadmium	0.17	J	0.027	0.18	mg/Kg-dry	1	3/26/2021 22:03
Copper	14		0.44	0.44	mg/Kg-dry	1	3/26/2021 22:03
Lead	22		0.21	0.44	mg/Kg-dry	1	3/26/2021 22:03
Nickel	19		0.23	0.44	mg/Kg-dry	1	3/26/2021 22:03
Selenium	0.75		0.41	0.44	mg/Kg-dry	1	3/30/2021 13:32
Silver	0.11	J	0.059	0.44	mg/Kg-dry	1	3/26/2021 22:03
Zinc	78		0.87	0.89	mg/Kg-dry	1	3/26/2021 22:03
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 3/29/21		Analyst: STP
Calcium	370		2.5	5.0	mg/L	10	3/29/2021 18:08
Magnesium	76		0.50	2.0	mg/L	10	3/29/2021 18:08
Sodium	5,400		18	20	mg/L	100	3/30/2021 13:50
HOT WATER SOLUBLE BORON BY ICP-MS							
			Method: SW6020B		Prep: EXTRACT / 3/26/21		Analyst: STP
Boron (Hot Water Soluble)	6.1	B	0.021	0.52	mg/Kg-dry	10	3/26/2021 20:13
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 3/29/21		Analyst: STP
Sodium Adsorption Ratio	68		0.010	0.010	none	1	3/29/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
			Method: SW8270E		Prep: SW3546 / 3/24/21		Analyst: EEW
1-Methylnaphthalene	0.0082		0.0032	0.0053	mg/Kg-dry	1	3/25/2021 17:21
2-Methylnaphthalene	0.010		0.0037	0.0053	mg/Kg-dry	1	3/25/2021 17:21
Acenaphthene	U		0.0045	0.0053	mg/Kg-dry	1	3/25/2021 17:21
Anthracene	U		0.0048	0.0053	mg/Kg-dry	1	3/25/2021 17:21
Benzo(a)anthracene	U		0.0051	0.0053	mg/Kg-dry	1	3/25/2021 17:21
Benzo(a)pyrene	U		0.0043	0.0053	mg/Kg-dry	1	3/25/2021 17:21
Benzo(b)fluoranthene	U		0.0045	0.0053	mg/Kg-dry	1	3/25/2021 17:21
Benzo(k)fluoranthene	U		0.0043	0.0053	mg/Kg-dry	1	3/25/2021 17:21
Chrysene	U		0.0049	0.0053	mg/Kg-dry	1	3/25/2021 17:21
Dibenzo(a,h)anthracene	U		0.0043	0.0053	mg/Kg-dry	1	3/25/2021 17:21

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Apr-21

Client: Entrada Consulting Group
Project: AC McLaughlin 47 Spill
Sample ID: ACM 47-SS4
Collection Date: 3/18/2021 11:45 AM

Work Order: 21032115
Lab ID: 21032115-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluoranthene		U	0.0042	0.0053	mg/Kg-dry	1	3/25/2021 17:21
Fluorene		U	0.0042	0.0053	mg/Kg-dry	1	3/25/2021 17:21
Indeno(1,2,3-cd)pyrene		U	0.0046	0.0053	mg/Kg-dry	1	3/25/2021 17:21
Naphthalene	0.0078		0.0051	0.0053	mg/Kg-dry	1	3/25/2021 17:21
Pyrene		U	0.0051	0.0053	mg/Kg-dry	1	3/25/2021 17:21
Surr: 2-Fluorobiphenyl	67.4			20-140	%REC	1	3/25/2021 17:21
Surr: 4-Terphenyl-d14	61.7			22-172	%REC	1	3/25/2021 17:21
Surr: Nitrobenzene-d5	82.1			28-140	%REC	1	3/25/2021 17:21
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 3/24/21		Analyst: DMC
1,2,4-Trimethylbenzene		U	0.033	0.045	mg/Kg-dry	1	3/31/2021 04:35
1,3,5-Trimethylbenzene		U	0.052	0.15	mg/Kg-dry	1	3/31/2021 04:35
Benzene		U	0.022	0.045	mg/Kg-dry	1	3/31/2021 04:35
Ethylbenzene		U	0.0095	0.045	mg/Kg-dry	1	3/31/2021 04:35
m,p-Xylene		U	0.060	0.090	mg/Kg-dry	1	3/31/2021 04:35
o-Xylene		U	0.017	0.045	mg/Kg-dry	1	3/31/2021 04:35
Toluene		U	0.012	0.045	mg/Kg-dry	1	3/31/2021 04:35
Xylenes, Total		U	0.060	0.13	mg/Kg-dry	1	3/31/2021 04:35
Surr: 1,2-Dichloroethane-d4	97.6			70-130	%REC	1	3/31/2021 04:35
Surr: 4-Bromofluorobenzene	96.9			70-130	%REC	1	3/31/2021 04:35
Surr: Dibromofluoromethane	101			70-130	%REC	1	3/31/2021 04:35
Surr: Toluene-d8	101			70-130	%REC	1	3/31/2021 04:35
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 3/29/21		Analyst: QTN
Electrical Conductivity @ Saturation	28		0.011	0.10	mmhos/cm @25°	20	3/29/2021 13:02
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 3/25/21		Analyst: KTP
Chromium, Hexavalent		U	1.1	1.3	mg/Kg-dry	1	3/25/2021 15:03
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	23		0.10	0.10	% of sample	1	3/25/2021 13:44
PH MEASURED IN SOIL PASTE			Method: USDA METHOD 20B		Prep: USDA Method 20B / 3/29/21		Analyst: QTN
pH @ Saturation	10.1		0.13	0.13	s.u.-dry	1	3/29/2021 13:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Apr-21

Client: Entrada Consulting Group
Project: AC McLaughlin 47 Spill
Sample ID: ACM 47-BG2
Collection Date: 3/18/2021 12:00 PM

Work Order: 21032115
Lab ID: 21032115-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP							
Arsenic	5.8		0.13	0.48	mg/Kg-dry	1	3/24/2021 20:54
Method: SW6010D Prep: SW3050B / 3/23/21 Analyst: DSC							
MOISTURE							
Moisture	25		0.10	0.10	% of sample	1	3/25/2021 13:44
Method: SW3550C Analyst: KTP							

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Apr-21

Client: Entrada Consulting Group
Project: AC McLaughlin 47 Spill
Sample ID: ACM 47-SS5
Collection Date: 3/18/2021 12:20 PM

Work Order: 21032115
Lab ID: 21032115-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 3/25/21		Analyst: AK
ERO (C10-C36)	86		9.8	26	mg/Kg-dry	1	3/27/2021 23:11
Surr: 4-Terphenyl-d14	77.1			33-111	%REC	1	3/27/2021 23:11
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 3/24/21		Analyst: AK
GRO (C6-C10)	U		3.2	7.6	mg/Kg-dry	1	3/27/2021 06:54
Surr: Toluene-d8	118			71-123	%REC	1	3/27/2021 06:54
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 3/26/21		Analyst: STP
Arsenic	7.3		0.053	0.45	mg/Kg-dry	1	3/26/2021 22:05
Barium	150		4.1	4.5	mg/Kg-dry	10	3/29/2021 16:07
Cadmium	0.19		0.027	0.18	mg/Kg-dry	1	3/29/2021 16:27
Copper	13		0.45	0.45	mg/Kg-dry	1	3/26/2021 22:05
Lead	18		0.21	0.45	mg/Kg-dry	1	3/26/2021 22:05
Nickel	18		0.23	0.45	mg/Kg-dry	1	3/26/2021 22:05
Selenium	0.82		0.41	0.45	mg/Kg-dry	1	3/30/2021 13:34
Silver	0.085	J	0.059	0.45	mg/Kg-dry	1	3/26/2021 22:05
Zinc	70		0.87	0.89	mg/Kg-dry	1	3/26/2021 22:05
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 3/29/21		Analyst: STP
Calcium	150		2.5	5.0	mg/L	10	3/29/2021 18:10
Magnesium	16		0.50	2.0	mg/L	10	3/29/2021 18:10
Sodium	120		1.8	2.0	mg/L	10	3/29/2021 18:10
HOT WATER SOLUBLE BORON BY ICP-MS							
			Method: SW6020B		Prep: EXTRACT / 3/26/21		Analyst: STP
Boron (Hot Water Soluble)	1.2	B	0.020	0.50	mg/Kg-dry	10	3/26/2021 20:15
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 3/29/21		Analyst: STP
Sodium Adsorption Ratio	2.4		0.010	0.010	none	1	3/29/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
			Method: SW8270E		Prep: SW3546 / 3/24/21		Analyst: EEW
1-Methylnaphthalene	U		0.0031	0.0052	mg/Kg-dry	1	3/25/2021 17:37
2-Methylnaphthalene	U		0.0036	0.0052	mg/Kg-dry	1	3/25/2021 17:37
Acenaphthene	U		0.0044	0.0052	mg/Kg-dry	1	3/25/2021 17:37
Anthracene	U		0.0047	0.0052	mg/Kg-dry	1	3/25/2021 17:37
Benzo(a)anthracene	U		0.0050	0.0052	mg/Kg-dry	1	3/25/2021 17:37
Benzo(a)pyrene	U		0.0042	0.0052	mg/Kg-dry	1	3/25/2021 17:37
Benzo(b)fluoranthene	U		0.0044	0.0052	mg/Kg-dry	1	3/25/2021 17:37
Benzo(k)fluoranthene	U		0.0043	0.0052	mg/Kg-dry	1	3/25/2021 17:37
Chrysene	U		0.0048	0.0052	mg/Kg-dry	1	3/25/2021 17:37
Dibenzo(a,h)anthracene	U		0.0042	0.0052	mg/Kg-dry	1	3/25/2021 17:37

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Apr-21

Client: Entrada Consulting Group
Project: AC McLaughlin 47 Spill
Sample ID: ACM 47-SS5
Collection Date: 3/18/2021 12:20 PM

Work Order: 21032115
Lab ID: 21032115-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluoranthene	U		0.0041	0.0052	mg/Kg-dry	1	3/25/2021 17:37
Fluorene	U		0.0041	0.0052	mg/Kg-dry	1	3/25/2021 17:37
Indeno(1,2,3-cd)pyrene	U		0.0045	0.0052	mg/Kg-dry	1	3/25/2021 17:37
Naphthalene	U		0.0050	0.0052	mg/Kg-dry	1	3/25/2021 17:37
Pyrene	U		0.0050	0.0052	mg/Kg-dry	1	3/25/2021 17:37
Surr: 2-Fluorobiphenyl	69.9			20-140	%REC	1	3/25/2021 17:37
Surr: 4-Terphenyl-d14	83.6			22-172	%REC	1	3/25/2021 17:37
Surr: Nitrobenzene-d5	80.2			28-140	%REC	1	3/25/2021 17:37
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 3/24/21		Analyst: DMC
1,2,4-Trimethylbenzene	U		0.033	0.045	mg/Kg-dry	1	3/31/2021 04:51
1,3,5-Trimethylbenzene	U		0.053	0.15	mg/Kg-dry	1	3/31/2021 04:51
Benzene	U		0.022	0.045	mg/Kg-dry	1	3/31/2021 04:51
Ethylbenzene	U		0.0096	0.045	mg/Kg-dry	1	3/31/2021 04:51
m,p-Xylene	U		0.060	0.091	mg/Kg-dry	1	3/31/2021 04:51
o-Xylene	U		0.018	0.045	mg/Kg-dry	1	3/31/2021 04:51
Toluene	U		0.012	0.045	mg/Kg-dry	1	3/31/2021 04:51
Xylenes, Total	U		0.060	0.14	mg/Kg-dry	1	3/31/2021 04:51
Surr: 1,2-Dichloroethane-d4	97.2			70-130	%REC	1	3/31/2021 04:51
Surr: 4-Bromofluorobenzene	99.4			70-130	%REC	1	3/31/2021 04:51
Surr: Dibromofluoromethane	103			70-130	%REC	1	3/31/2021 04:51
Surr: Toluene-d8	102			70-130	%REC	1	3/31/2021 04:51
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 3/29/21		Analyst: QTN
Electrical Conductivity @ Saturation	1.6		0.011	0.10	mmhos/cm @25°	20	3/29/2021 13:02
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 3/25/21		Analyst: KTP
Chromium, Hexavalent	U		1.1	1.3	mg/Kg-dry	1	3/25/2021 15:03
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	23		0.10	0.10	% of sample	1	3/25/2021 13:44
PH MEASURED IN SOIL PASTE			Method: USDA METHOD 20B		Prep: USDA Method 20B / 3/29/21		Analyst: QTN
pH @ Saturation	10.2		0.13	0.13	s.u.-dry	1	3/29/2021 13:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Entrada Consulting Group
Work Order: 21032115
Project: AC McLaughlin 47 Spill

QC BATCH REPORT

Batch ID: **174049** Instrument ID **GC8** Method: **SW8015D**

MBLK		Sample ID: DBLKS1-174049-174049				Units: mg/Kg		Analysis Date: 3/27/2021 06:46 AM			
Client ID:		Run ID: GC8_210326D				SeqNo: 7257026		Prep Date: 3/25/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
ERO (C10-C36)	13.8	20								J	
<i>Surr: 4-Terphenyl-d14</i>	2.375	0	3.33	0	71.3	33-111	0				

LCS		Sample ID: DLCSS1-174049-174049				Units: mg/Kg		Analysis Date: 3/27/2021 07:25 AM			
Client ID:		Run ID: GC8_210326D				SeqNo: 7257027		Prep Date: 3/25/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
ERO (C10-C36)	589.2	20	667	0	88.3	51-130	0				
<i>Surr: 4-Terphenyl-d14</i>	2.244	0	3.33	0	67.4	33-111	0				

MS		Sample ID: 21031897-05A MS				Units: mg/Kg		Analysis Date: 3/27/2021 08:05 AM			
Client ID:		Run ID: GC8_210326D				SeqNo: 7257028		Prep Date: 3/25/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
ERO (C10-C36)	805.4	20	660.2	0	122	51-130	0				
<i>Surr: 4-Terphenyl-d14</i>	2.136	0	3.296	0	64.8	33-111	0				

MSD		Sample ID: 21031897-05A MSD				Units: mg/Kg		Analysis Date: 3/27/2021 08:44 AM			
Client ID:		Run ID: GC8_210326D				SeqNo: 7257029		Prep Date: 3/25/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
ERO (C10-C36)	771.1	20	658.9	0	117	51-130	805.4	4.35	30		
<i>Surr: 4-Terphenyl-d14</i>	2.188	0	3.29	0	66.5	33-111	2.136	2.39	30		

The following samples were analyzed in this batch:

21032115-01A	21032115-02A	21032115-03A
21032115-05A	21032115-07A	

Client: Entrada Consulting Group
 Work Order: 21032115
 Project: AC McLaughlin 47 Spill

QC BATCH REPORT

Batch ID: **174003** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-174003-174003				Units: µg/Kg-dry		Analysis Date: 3/27/2021 12:01 AM		
Client ID:		Run ID: GC9_210326B		SeqNo: 7256179		Prep Date: 3/24/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	5,000	0	0	0	0	0			
<i>Surr: Toluene-d8</i>	<i>5862</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>117</i>	<i>71-123</i>	<i>0</i>			

LCS		Sample ID: LCS-174003-174003				Units: µg/Kg-dry		Analysis Date: 3/26/2021 10:51 PM		
Client ID:		Run ID: GC9_210326B		SeqNo: 7256213		Prep Date: 3/24/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	228600	5,000	250000	0	91.5	71-123	0			
<i>Surr: Toluene-d8</i>	<i>5900</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>118</i>	<i>71-123</i>	<i>0</i>			

MS		Sample ID: 21032115-01A MS				Units: µg/Kg-dry		Analysis Date: 3/27/2021 02:41 AM		
Client ID: ACM 47-SS1		Run ID: GC9_210326B		SeqNo: 7256186		Prep Date: 3/24/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	389000	7,900	393000	0	99	71-123	0			
<i>Surr: Toluene-d8</i>	<i>8056</i>	<i>0</i>	<i>7859</i>	<i>0</i>	<i>102</i>	<i>71-123</i>	<i>0</i>			

MSD		Sample ID: 21032115-01A MSD				Units: µg/Kg-dry		Analysis Date: 3/27/2021 03:04 AM		
Client ID: ACM 47-SS1		Run ID: GC9_210326B		SeqNo: 7256187		Prep Date: 3/24/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	321000	7,900	394300	0	81.4	71-123	389000	19.1	30	
<i>Surr: Toluene-d8</i>	<i>8928</i>	<i>0</i>	<i>7885</i>	<i>0</i>	<i>113</i>	<i>71-123</i>	<i>8056</i>	<i>10.3</i>	<i>30</i>	

The following samples were analyzed in this batch:

21032115-01A	21032115-02A	21032115-03A
21032115-05A	21032115-07A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
 Work Order: 21032115
 Project: AC McLaughlin 47 Spill

QC BATCH REPORT

Batch ID: 173930 Instrument ID ICP2 Method: SW6010D

MBLK		Sample ID: MBLK-173930-173930				Units: mg/Kg		Analysis Date: 3/24/2021 07:49 PM			
Client ID:		Run ID: ICP2_210324B				SeqNo: 7247881		Prep Date: 3/23/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	U	0.25									

LCS		Sample ID: LCS-173930-173930				Units: mg/Kg		Analysis Date: 3/24/2021 08:09 PM			
Client ID:		Run ID: ICP2_210324B				SeqNo: 7247885		Prep Date: 3/23/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	4.89	0.25	5	0	97.8	80-120	0				

MS		Sample ID: 21032118-01AMS				Units: mg/Kg		Analysis Date: 3/25/2021 06:59 PM			
Client ID:		Run ID: ICP2_210325A				SeqNo: 7250294		Prep Date: 3/23/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	9.135	0.33	6.57	3.906	79.6	75-125	0				

MSD		Sample ID: 21032118-01AMSD				Units: mg/Kg		Analysis Date: 3/25/2021 07:04 PM			
Client ID:		Run ID: ICP2_210325A				SeqNo: 7250298		Prep Date: 3/23/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	8.876	0.33	6.562	3.906	75.7	75-125	9.135	2.87	20		

The following samples were analyzed in this batch: 21032115-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
 Work Order: 21032115
 Project: AC McLaughlin 47 Spill

QC BATCH REPORT

Batch ID: **174093** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK		Sample ID: MBLK-174093-174093				Units: mg/Kg		Analysis Date: 3/26/2021 08:31 PM		
Client ID:		Run ID: ICPMS3_210326B				SeqNo: 7254857		Prep Date: 3/26/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	U	0.25								
Cadmium	U	0.10								
Copper	U	0.25								
Lead	U	0.25								
Nickel	U	0.25								
Selenium	U	0.25								
Silver	U	0.25								
Zinc	U	0.50								

LCS		Sample ID: LCS-174093-174093				Units: mg/Kg		Analysis Date: 3/26/2021 08:33 PM		
Client ID:		Run ID: ICPMS3_210326B				SeqNo: 7254858		Prep Date: 3/26/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.137	0.25	5	0	103	80-120	0			
Barium	5.37	0.25	5	0	107	80-120	0			
Cadmium	5.16	0.10	5	0	103	80-120	0			
Copper	5.322	0.25	5	0	106	80-120	0			
Lead	5.296	0.25	5	0	106	80-120	0			
Nickel	5.304	0.25	5	0	106	80-120	0			
Selenium	5.096	0.25	5	0	102	80-120	0			
Silver	5.333	0.25	5	0	107	80-120	0			
Zinc	5.147	0.50	5	0	103	80-120	0			

MS		Sample ID: 21031891-10AMS				Units: mg/Kg		Analysis Date: 3/26/2021 08:44 PM		
Client ID:		Run ID: ICPMS3_210326B				SeqNo: 7254864		Prep Date: 3/26/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.07	0.35	7.022	3.001	101	75-125	0			
Barium	36.13	0.35	7.022	26.64	135	75-125	0			S
Cadmium	6.552	0.14	7.022	0.1533	91.1	75-125	0			
Copper	41.18	0.35	7.022	84.86	-622	75-125	0			SO
Lead	25.84	0.35	7.022	15.13	152	75-125	0			S
Nickel	13.55	0.35	7.022	9.297	60.5	75-125	0			S
Selenium	6.612	0.35	7.022	0.1212	92.4	75-125	0			
Silver	6.545	0.35	7.022	0.05641	92.4	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
 Work Order: 21032115
 Project: AC McLaughlin 47 Spill

QC BATCH REPORT

Batch ID: 174093 Instrument ID ICPMS3 Method: SW6020B

MS				Sample ID: 21031891-10AMS			Units: mg/Kg		Analysis Date: 3/29/2021 03:43 PM		
Client ID:		Run ID: ICPMS3_210329B		SeqNo: 7258881		Prep Date: 3/26/2021		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Zinc	78.23	7.0	7.022	162.3	-1200	75-125	0			SO	

MSD				Sample ID: 21031891-10AMSD			Units: mg/Kg		Analysis Date: 3/26/2021 08:49 PM		
Client ID:		Run ID: ICPMS3_210326B		SeqNo: 7254867		Prep Date: 3/26/2021		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	9.546	0.34	6.849	3.001	95.6	75-125	10.07	5.32	20		
Barium	31.31	0.34	6.849	26.64	68.2	75-125	36.13	14.3	20	S	
Cadmium	6.343	0.14	6.849	0.1533	90.4	75-125	6.552	3.25	20		
Copper	106.7	0.34	6.849	84.86	318	75-125	41.18	88.6	20	SRO	
Lead	20.98	0.34	6.849	15.13	85.4	75-125	25.84	20.8	20	R	
Nickel	16.49	0.34	6.849	9.297	105	75-125	13.55	19.6	20		
Selenium	6.44	0.34	6.849	0.1212	92.3	75-125	6.612	2.64	20		
Silver	6.314	0.34	6.849	0.05641	91.4	75-125	6.545	3.59	20		

MSD				Sample ID: 21031891-10AMSD			Units: mg/Kg		Analysis Date: 3/29/2021 03:45 PM		
Client ID:		Run ID: ICPMS3_210329B		SeqNo: 7258882		Prep Date: 3/26/2021		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Zinc	183.7	6.8	6.849	162.3	313	75-125	78.23	80.6	20	SRO	

The following samples were analyzed in this batch:

21032115-01A	21032115-02A
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Client: Entrada Consulting Group
 Work Order: 21032115
 Project: AC McLaughlin 47 Spill

QC BATCH REPORT

Batch ID: **174094** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK				Sample ID: MBLK-174094-174094			Units: mg/Kg		Analysis Date: 3/26/2021 09:25 PM		
Client ID:		Run ID: ICPMS3_210326B		SeqNo: 7254887		Prep Date: 3/26/2021		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	U	0.25									
Barium	U	0.25									
Cadmium	U	0.10									
Copper	U	0.25									
Lead	U	0.25									
Nickel	U	0.25									
Selenium	U	0.25									
Silver	U	0.25									
Zinc	U	0.50									

LCS				Sample ID: LCS-174094-174094			Units: mg/Kg		Analysis Date: 3/26/2021 09:26 PM		
Client ID:		Run ID: ICPMS3_210326B		SeqNo: 7254888		Prep Date: 3/26/2021		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	5.107	0.25	5	0	102	80-120	0				
Barium	5.318	0.25	5	0	106	80-120	0				
Cadmium	4.952	0.10	5	0	99	80-120	0				
Copper	5.171	0.25	5	0	103	80-120	0				
Lead	5.217	0.25	5	0	104	80-120	0				
Nickel	5.201	0.25	5	0	104	80-120	0				
Selenium	5.128	0.25	5	0	103	80-120	0				
Silver	5.087	0.25	5	0	102	80-120	0				
Zinc	5.326	0.50	5	0	107	80-120	0				

MS				Sample ID: 21032119-02AMS			Units: mg/Kg		Analysis Date: 3/26/2021 10:11 PM		
Client ID:		Run ID: ICPMS3_210326B		SeqNo: 7254914		Prep Date: 3/26/2021		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	10.12	0.32	6.369	4.508	88.1	75-125	0				
Copper	15.61	0.32	6.369	10.28	83.7	75-125	0				
Lead	21.23	0.32	6.369	14.16	111	75-125	0				
Nickel	18.87	0.32	6.369	13.23	88.5	75-125	0				
Silver	5.153	0.32	6.369	0.06713	79.8	75-125	0				
Zinc	60.74	0.64	6.369	53.91	107	75-125	0			O	

MS				Sample ID: 21032119-02AMS			Units: mg/Kg		Analysis Date: 3/29/2021 04:12 PM		
Client ID:		Run ID: ICPMS3_210329B		SeqNo: 7258899		Prep Date: 3/26/2021		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	732.3	3.2	6.369	702	475	75-125	0			SO	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
 Work Order: 21032115
 Project: AC McLaughlin 47 Spill

QC BATCH REPORT

Batch ID: **174094** Instrument ID **ICPMS3** Method: **SW6020B**

MS				Sample ID: 21032119-02AMS			Units: mg/Kg		Analysis Date: 3/29/2021 04:32 PM		
Client ID:		Run ID: ICPMS3_210329B		SeqNo: 7258911		Prep Date: 3/26/2021		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cadmium	5.274	0.13	6.369	0.138	80.6	75-125	0				
Selenium	5.74	0.32	6.369	0.6799	79.4	75-125	0				

MSD				Sample ID: 21032119-02AMSD			Units: mg/Kg		Analysis Date: 3/26/2021 10:13 PM		
Client ID:		Run ID: ICPMS3_210326B		SeqNo: 7254915		Prep Date: 3/26/2021		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	10.21	0.33	6.64	4.508	85.9	75-125	10.12	0.951	20		
Copper	15.44	0.33	6.64	10.28	77.7	75-125	15.61	1.13	20		
Lead	21.17	0.33	6.64	14.16	105	75-125	21.23	0.306	20		
Nickel	18.37	0.33	6.64	13.23	77.3	75-125	18.87	2.69	20		
Silver	5.397	0.33	6.64	0.06713	80.3	75-125	5.153	4.63	20		
Zinc	58.66	0.66	6.64	53.91	71.6	75-125	60.74	3.48	20	SO	

MSD				Sample ID: 21032119-02AMSD			Units: mg/Kg		Analysis Date: 3/29/2021 04:13 PM		
Client ID:		Run ID: ICPMS3_210329B		SeqNo: 7258900		Prep Date: 3/26/2021		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	835.4	3.3	6.64	702	2010	75-125	732.3	13.1	20	SO	

MSD				Sample ID: 21032119-02AMSD			Units: mg/Kg		Analysis Date: 3/29/2021 04:34 PM		
Client ID:		Run ID: ICPMS3_210329B		SeqNo: 7258912		Prep Date: 3/26/2021		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cadmium	5.499	0.13	6.64	0.138	80.7	75-125	5.274	4.18	20		
Selenium	5.746	0.33	6.64	0.6799	76.3	75-125	5.74	0.106	20		

The following samples were analyzed in this batch:

21032115-03A	21032115-04A	21032115-05A
21032115-07A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
Work Order: 21032115
Project: AC McLaughlin 47 Spill

QC BATCH REPORT

Batch ID: **174110** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK		Sample ID: MBLK-174110-174110				Units: mg/Kg		Analysis Date: 3/26/2021 07:54 PM		
Client ID:		Run ID: ICPMS3_210326B		SeqNo: 7255070		Prep Date: 3/26/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron (Hot Water Soluble)	0.07336	0.040								

LCS		Sample ID: LCS-174110-174110				Units: mg/Kg		Analysis Date: 3/26/2021 07:56 PM		
Client ID:		Run ID: ICPMS3_210326B		SeqNo: 7255071		Prep Date: 3/26/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron (Hot Water Soluble)	0.9819	0.040	1	0	98.2	80-120	0			B

The following samples were analyzed in this batch:

21032115-01A	21032115-02A	21032115-03A
21032115-04A	21032115-05A	21032115-07A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
 Work Order: 21032115
 Project: AC McLaughlin 47 Spill

QC BATCH REPORT

Batch ID: **174190** Instrument ID **ICPMS3** Method: **SW6020B**

DUP		Sample ID: 21032115-04BDUP				Units: mg/L		Analysis Date: 3/29/2021 06:03 PM		
Client ID: ACM 47-BG1		Run ID: ICPMS3_210329A				SeqNo: 7258620		Prep Date: 3/29/2021		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	78.7	5.0	0	0	0	0-0	79.12	0.532		
Magnesium	10.83	2.0	0	0	0	0-0	9.658	11.4		
Sodium	4.804	2.0	0	0	0	0-0	5.128	6.53		

The following samples were analyzed in this batch:

21032115-01A	21032115-01B	21032115-02A
21032115-02B	21032115-03A	21032115-03B
21032115-04A	21032115-04B	21032115-05A
21032115-05B	21032115-07A	21032115-07B

Batch ID: **174190** Instrument ID **SAR** Method: **USDA H60 Method**

DUP		Sample ID: 21032115-04BDUP				Units: none		Analysis Date: 3/29/2021		
Client ID: ACM 47-BG1		Run ID: SAR_210329A				SeqNo: 7261390		Prep Date: 3/29/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.1346	0.010	0	0	0		0.1448	7.32	50	

The following samples were analyzed in this batch:

21032115-01A	21032115-01B	21032115-02A
21032115-02B	21032115-03A	21032115-03B
21032115-04A	21032115-04B	21032115-05A
21032115-05B	21032115-07A	21032115-07B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
 Work Order: 21032115
 Project: AC McLaughlin 47 Spill

QC BATCH REPORT

Batch ID: 173996 Instrument ID SVMS6 Method: SW8270E

MBLK		Sample ID: SBLKS1-173996-173996				Units: µg/Kg		Analysis Date: 3/25/2021 12:56 PM		
Client ID:		Run ID: SVMS6_210325A		SeqNo: 7251641		Prep Date: 3/24/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	U	4.2								
2-Methylnaphthalene	U	4.2								
Acenaphthene	U	4.2								
Anthracene	U	4.2								
Benzo(a)anthracene	U	4.2								
Benzo(a)pyrene	U	4.2								
Benzo(b)fluoranthene	U	4.2								
Benzo(k)fluoranthene	U	4.2								
Chrysene	U	4.2								
Dibenzo(a,h)anthracene	U	4.2								
Fluoranthene	U	4.2								
Fluorene	U	4.2								
Indeno(1,2,3-cd)pyrene	U	4.2								
Naphthalene	U	4.2								
Pyrene	U	4.2								
Surr: 2-Fluorobiphenyl	2339	0	3333	0	70.2	20-140	0			
Surr: 4-Terphenyl-d14	2845	0	3333	0	85.3	22-172	0			
Surr: Nitrobenzene-d5	2629	0	3333	0	78.9	28-140	0			

LCS		Sample ID: SLCSS1-173996-173996				Units: µg/Kg		Analysis Date: 3/25/2021 12:10 PM		
Client ID:		Run ID: SVMS6_210325A		SeqNo: 7251638		Prep Date: 3/24/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	1132	4.2	1333	0	84.9	40-140	0			
2-Methylnaphthalene	1046	4.2	1333	0	78.5	40-140	0			
Acenaphthene	1060	4.2	1333	0	79.5	40-140	0			
Anthracene	1100	4.2	1333	0	82.5	40-140	0			
Benzo(a)anthracene	1103	4.2	1333	0	82.7	40-140	0			
Benzo(a)pyrene	1021	4.2	1333	0	76.6	40-140	0			
Benzo(b)fluoranthene	1130	4.2	1333	0	84.8	40-140	0			
Benzo(k)fluoranthene	1001	4.2	1333	0	75.1	40-140	0			
Chrysene	1074	4.2	1333	0	80.5	40-140	0			
Dibenzo(a,h)anthracene	1187	4.2	1333	0	89.1	40-140	0			
Fluoranthene	1075	4.2	1333	0	80.6	40-140	0			
Fluorene	1046	4.2	1333	0	78.5	40-140	0			
Indeno(1,2,3-cd)pyrene	1279	4.2	1333	0	96	40-140	0			
Naphthalene	1091	4.2	1333	0	81.9	40-140	0			
Pyrene	1108	4.2	1333	0	83.1	40-140	0			
Surr: 2-Fluorobiphenyl	2446	0	3333	0	73.4	20-140	0			
Surr: 4-Terphenyl-d14	2667	0	3333	0	80	22-172	0			
Surr: Nitrobenzene-d5	1842	0	3333	0	55.3	28-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
 Work Order: 21032115
 Project: AC McLaughlin 47 Spill

QC BATCH REPORT

Batch ID: 173996 Instrument ID SVMS6 Method: SW8270E

MS				Sample ID: 21031897-08A MS			Units: µg/Kg		Analysis Date: 3/25/2021 01:12 PM		
Client ID:		Run ID: SVMS6_210325A		SeqNo: 7251642		Prep Date: 3/24/2021		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1-Methylnaphthalene	1015	4.1	1315	0	77.2	40-140	0				
2-Methylnaphthalene	1172	4.1	1315	0	89.1	40-140	0				
Acenaphthene	1131	4.1	1315	0	86	40-140	0				
Anthracene	1118	4.1	1315	0	85	40-140	0				
Benzo(a)anthracene	992.5	4.1	1315	2.15	75.3	40-140	0				
Benzo(a)pyrene	826.7	4.1	1315	0	62.9	40-140	0				
Benzo(b)fluoranthene	902.3	4.1	1315	0	68.6	40-140	0				
Benzo(k)fluoranthene	896.8	4.1	1315	0	68.2	40-140	0				
Chrysene	978.6	4.1	1315	0	74.4	40-140	0				
Dibenzo(a,h)anthracene	918.6	4.1	1315	0	69.9	40-140	0				
Fluoranthene	996.1	4.1	1315	0	75.8	40-140	0				
Fluorene	1102	4.1	1315	0	83.9	40-140	0				
Indeno(1,2,3-cd)pyrene	920.4	4.1	1315	0	70	40-140	0				
Naphthalene	1157	4.1	1315	0	88	40-140	0				
Pyrene	1180	4.1	1315	4.397	89.5	40-140	0				
Surr: 2-Fluorobiphenyl	2338	0	3287	0	71.1	20-140	0				
Surr: 4-Terphenyl-d14	2778	0	3287	0	84.5	22-172	0				
Surr: Nitrobenzene-d5	2306	0	3287	0	70.2	28-140	0				

MSD				Sample ID: 21031897-08A MSD			Units: µg/Kg		Analysis Date: 3/25/2021 01:27 PM		
Client ID:		Run ID: SVMS6_210325A		SeqNo: 7251643		Prep Date: 3/24/2021		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1-Methylnaphthalene	1021	4.1	1321	0	77.3	40-140	1015	0.547	30		
2-Methylnaphthalene	1143	4.1	1321	0	86.6	40-140	1172	2.45	30		
Acenaphthene	1118	4.1	1321	0	84.6	40-140	1131	1.17	30		
Anthracene	1102	4.1	1321	0	83.4	40-140	1118	1.43	30		
Benzo(a)anthracene	995.1	4.1	1321	2.15	75.2	40-140	992.5	0.259	30		
Benzo(a)pyrene	833.8	4.1	1321	0	63.1	40-140	826.7	0.848	30		
Benzo(b)fluoranthene	948.5	4.1	1321	0	71.8	40-140	902.3	5	30		
Benzo(k)fluoranthene	858.3	4.1	1321	0	65	40-140	896.8	4.38	30		
Chrysene	978	4.1	1321	0	74	40-140	978.6	0.0694	30		
Dibenzo(a,h)anthracene	933.1	4.1	1321	0	70.6	40-140	918.6	1.57	30		
Fluoranthene	983.9	4.1	1321	0	74.5	40-140	996.1	1.23	30		
Fluorene	1094	4.1	1321	0	82.8	40-140	1102	0.781	30		
Indeno(1,2,3-cd)pyrene	942.7	4.1	1321	0	71.4	40-140	920.4	2.4	30		
Naphthalene	1141	4.1	1321	0	86.4	40-140	1157	1.38	30		
Pyrene	1166	4.1	1321	4.397	87.9	40-140	1180	1.23	30		
Surr: 2-Fluorobiphenyl	2338	0	3303	0	70.8	20-140	2338	0.0381	30		
Surr: 4-Terphenyl-d14	2782	0	3303	0	84.2	22-172	2778	0.158	30		
Surr: Nitrobenzene-d5	2269	0	3303	0	68.7	28-140	2306	1.65	30		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
Work Order: 21032115
Project: AC McLaughlin 47 Spill

QC BATCH REPORT

Batch ID: **173996** Instrument ID **SVMS6** Method: **SW8270E**

The following samples were analyzed in this batch:

21032115-01A	21032115-02A	21032115-03A
21032115-05A	21032115-07A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
 Work Order: 21032115
 Project: AC McLaughlin 47 Spill

QC BATCH REPORT

Batch ID: **174002** Instrument ID **VMS8** Method: **SW8260C**

MBLK		Sample ID: MBLK-174002-174002				Units: µg/Kg-dry		Analysis Date: 3/31/2021 12:44 PM		
Client ID:		Run ID: VMS8_210331A		SeqNo: 7266989		Prep Date: 3/24/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	U	30								
1,3,5-Trimethylbenzene	U	100								
Benzene	U	30								
Ethylbenzene	U	30								
m,p-Xylene	U	60								
o-Xylene	U	30								
Toluene	U	30								
Xylenes, Total	U	90								
<i>Surr: 1,2-Dichloroethane-d4</i>	960	0	1000	0	96	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	1010	0	1000	0	101	70-130	0			
<i>Surr: Dibromofluoromethane</i>	994.5	0	1000	0	99.4	70-130	0			
<i>Surr: Toluene-d8</i>	1028	0	1000	0	103	70-130	0			

LCS		Sample ID: LCS-174002-174002				Units: µg/Kg-dry		Analysis Date: 3/31/2021 11:56 AM		
Client ID:		Run ID: VMS8_210331A		SeqNo: 7266987		Prep Date: 3/24/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	1080	30	1000	0	108	65-135	0			
1,3,5-Trimethylbenzene	1144	100	1000	0	114	65-135	0			
Benzene	1030	30	1000	0	103	75-125	0			
Ethylbenzene	1166	30	1000	0	117	75-125	0			
m,p-Xylene	2367	60	2000	0	118	80-125	0			
o-Xylene	1120	30	1000	0	112	75-125	0			
Toluene	1016	30	1000	0	102	70-125	0			
Xylenes, Total	3486	90	3000	0	116	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	955.5	0	1000	0	95.6	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	978	0	1000	0	97.8	70-130	0			
<i>Surr: Dibromofluoromethane</i>	1003	0	1000	0	100	70-130	0			
<i>Surr: Toluene-d8</i>	998	0	1000	0	99.8	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
 Work Order: 21032115
 Project: AC McLaughlin 47 Spill

QC BATCH REPORT

Batch ID: **174002** Instrument ID **VMS8** Method: **SW8260C**

MS				Sample ID: 21032115-01A MS		Units: µg/Kg-dry		Analysis Date: 3/31/2021 07:03 PM		
Client ID: ACM 47-SS1		Run ID: VMS8_210331A		SeqNo: 7267026		Prep Date: 3/24/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	1803	47	1572	86.45	109	65-135	0			
1,3,5-Trimethylbenzene	1848	160	1572	89.6	112	65-135	0			
Benzene	1659	47	1572	0	106	75-125	0			
Ethylbenzene	1875	47	1572	0	119	75-125	0			
m,p-Xylene	3801	94	3144	14.15	120	80-125	0			
o-Xylene	1862	47	1572	59.73	115	75-125	0			
Toluene	1642	47	1572	21.22	103	70-125	0			
Xylenes, Total	5663	140	4716	60	119	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	1489	0	1572	0	94.8	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	1577	0	1572	0	100	70-130	0			
<i>Surr: Dibromofluoromethane</i>	1573	0	1572	0	100	70-130	0			
<i>Surr: Toluene-d8</i>	1603	0	1572	0	102	70-130	0			

MSD				Sample ID: 21032115-01A MSD		Units: µg/Kg-dry		Analysis Date: 3/31/2021 07:19 PM		
Client ID: ACM 47-SS1		Run ID: VMS8_210331A		SeqNo: 7267027		Prep Date: 3/24/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	1788	47	1577	86.45	108	65-135	1803	0.853	30	
1,3,5-Trimethylbenzene	1840	160	1577	89.6	111	65-135	1848	0.48	30	
Benzene	1668	47	1577	0	106	75-125	1659	0.52	30	
Ethylbenzene	1862	47	1577	0	118	75-125	1875	0.723	30	
m,p-Xylene	3746	95	3154	14.15	118	80-125	3801	1.46	30	
o-Xylene	1786	47	1577	59.73	109	75-125	1862	4.16	30	
Toluene	1614	47	1577	21.22	101	70-125	1642	1.7	30	
Xylenes, Total	5532	140	4731	60	116	75-125	5663	2.34	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	1579	0	1577	0	100	70-130	1489	5.87	30	
<i>Surr: 4-Bromofluorobenzene</i>	1496	0	1577	0	94.8	70-130	1577	5.26	30	
<i>Surr: Dibromofluoromethane</i>	1551	0	1577	0	98.4	70-130	1573	1.43	30	
<i>Surr: Toluene-d8</i>	1577	0	1577	0	100	70-130	1603	1.65	30	

The following samples were analyzed in this batch:

21032115-01A	21032115-02A	21032115-03A
21032115-05A	21032115-07A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
 Work Order: 21032115
 Project: AC McLaughlin 47 Spill

QC BATCH REPORT

Batch ID: **174086** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-174086-174086				Units: mg/Kg		Analysis Date: 3/25/2021 03:03 PM			
Client ID:	Run ID: WETCHEM_210325M			SeqNo: 7249194		Prep Date: 3/25/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent U 0.99

LCS	Sample ID: LCS-174086-174086				Units: mg/Kg		Analysis Date: 3/25/2021 03:03 PM			
Client ID:	Run ID: WETCHEM_210325M			SeqNo: 7249195		Prep Date: 3/25/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.098 0.98 4.902 0 83.6 80-120 0

MS	Sample ID: 21031949-01A MS				Units: mg/Kg		Analysis Date: 3/25/2021 03:03 PM			
Client ID:	Run ID: WETCHEM_210325M			SeqNo: 7249197		Prep Date: 3/25/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 3.03 1.0 5 -0.2451 65.5 75-125 0 S

MS	Sample ID: 21031949-01A MSI				Units: mg/Kg		Analysis Date: 3/25/2021 03:03 PM			
Client ID:	Run ID: WETCHEM_210325M			SeqNo: 7249199		Prep Date: 3/25/2021		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1351 99 1816 -0.2451 74.4 75-125 0 S

MSD	Sample ID: 21031949-01A MSD				Units: mg/Kg		Analysis Date: 3/25/2021 03:03 PM			
Client ID:	Run ID: WETCHEM_210325M			SeqNo: 7249198		Prep Date: 3/25/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2.01 0.98 4.902 -0.2451 46 75-125 3.03 40.5 20 SR

The following samples were analyzed in this batch:

21032115-01A	21032115-02A	21032115-03A
21032115-04A	21032115-05A	21032115-07A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
 Work Order: 21032115
 Project: AC McLaughlin 47 Spill

QC BATCH REPORT

Batch ID: **R312730** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R312730				Units: % of sample		Analysis Date: 3/25/2021 01:44 PM		
Client ID:		Run ID: MOIST_210325D		SeqNo: 7252046		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.10								

LCS		Sample ID: LCS-R312730				Units: % of sample		Analysis Date: 3/25/2021 01:44 PM		
Client ID:		Run ID: MOIST_210325D		SeqNo: 7252045		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.10	100	0	100	98-102	0			

DUP		Sample ID: 21032119-01A DUP				Units: % of sample		Analysis Date: 3/25/2021 01:44 PM		
Client ID:		Run ID: MOIST_210325D		SeqNo: 7252035		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	17.08	0.10	0	0	0	0-0	17.07	0.0586	10	

DUP		Sample ID: 21032119-02A DUP				Units: % of sample		Analysis Date: 3/25/2021 01:44 PM		
Client ID:		Run ID: MOIST_210325D		SeqNo: 7252037		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	17.76	0.10	0	0	0	0-0	17.74	0.113	10	

The following samples were analyzed in this batch:

21032115-01A	21032115-02A	21032115-03A
21032115-04A	21032115-05A	21032115-06A
21032115-07A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Chain of Custody Form

Page ____ of ____

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

ALS Project Manager: _____ ALS Work Order #: **21032115**

Customer Information		Project Information		Parameter/Method Request for Analysis						
Purchase Order		Project Name	AC McLaughlin 47 Spill	A	BTEX, TMBs					
Work Order		Project Number	018-065	B	Table 915 PAHs					
Company Name	Entrada	Bill To Company	Entrada	C	Table 915 Metals					
Send Report To	tdobrasky@entradainc.com	Invoice Attn.	Tim Dobrasky	D	Hot Water Soluble Boron					
Address	330 Grand Ave, Suite C	Address	330 Grand Ave, Suite C	E	GRO					
					F	ERO				
City/State/Zip	Grand Junction, CO 81501	City/State/Zip	Grand Junction, CO 81501	G	SAR/EC/pH					
Phone	970-270-2986	Phone	970-270-2986	H	Arsenic Only					
Fax		Fax		I						
e-Mail Address				J						

No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	ACM 47-SS1	3/18/2021	1030	Soil	8	2	X	X	X	X	X	X	X				
2	ACM 47-SS2	3/18/2021	1045	Soil	8	2	X	X	X	X	X	X	X				
3	ACM 47-SS3	3/18/2021	1100	Soil	8	2	X	X	X	X	X	X	X				
4	ACM 47-BG1	3/18/2021	1130	Soil	8	2			X	X			X				
5	ACM 47-SS4	3/18/2021	1145	Soil	8	2	X	X	X	X	X	X	X				
6	ACM 47-BG2	3/18/2021	1200	Soil	8	1								X			
7	ACM 47-SS5	3/18/2021	1220	Soil	8	2	X	X	X	X	X	X	X				

Sampler(s): Please Print & Sign **Jason McLarty** *[Signature]*
 Shipment Method: _____ Turnaround Time: (Business Days) 10 BD 5 BD 3 BD 2 BD 1 BD

Relinquished by: *[Signature]* Date: 3/19/21 Time: 1500 Received by: *[Signature]* Date: _____ Time: _____ Notes: _____

Relinquished by: *[Signature]* Date: 3-19-21 Time: 1930 Received by (Laboratory): *[Signature]* Date: 3/20/21 Time: 1000

Logged by (Laboratory): **DES** Date: 3/22/21 Time: 1515 Checked by (Laboratory): *[Signature]*

ALS Cooler ID	Cooler Temp	QC Package: (Check Box Below)
121	2.6°C	<input type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Raw Data <input type="checkbox"/> TRRP LRC <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV: SW846 Methods/CLP like <input type="checkbox"/> Other: _____

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.

Sample Receipt Checklist

Client Name: **ENTRADA**

Date/Time Received: **20-Mar-21 10:00**

Work Order: **21032115**

Received by: **DS**

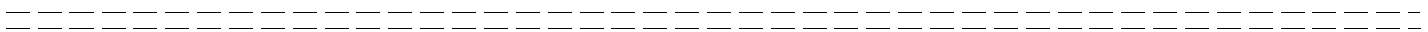
Checklist completed by Diane Shaw 22-Mar-21
eSignature Date

Reviewed by: Chad Whelton 23-Mar-21
eSignature Date

Matrices: Soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>2.6/2.6 c</u>		<u>IR1</u>
Cooler(s)/Kit(s):	<u> </u>		
Date/Time sample(s) sent to storage:	<u>3/22/2021 3:45:16 PM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u> </u>		

Login Notes:



Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: