Legend

- Spill Origin
- Other Soil Sample Location
- Spill Area

0 100 200 Feet

N

Project Number: 018-065	**AC McLaughlin 43 Spill Response**	ENTRADA CONSULTING GROUP	Figure
Drawn By: TPD	Chevron USA, Inc	330 Grand Ave., Suite C	
Revision Date: 6/22/2017	Rio Blanco County, Colorado NSE S14 T2N R103W	Grand Junction, CO 81501 P: 970.549.1015	1

\\den-fs1\projects\Projects\013-3287\(Chevron - Rangely Environmental)\2016\Spills\GIS\Spill Response Maps_.mxd

Table 1
AC McLaughlin 43
Soil Data Summary

SAMPLE SUMMARY	
Location Description	Ac McLaughlin 43 Spill
Sample Type	Soil

LABORATORY DATA SUMMARY

Sample ID	ACM 43-SS1	ACM 43-SS1	ACM 43-SS1	ACM 43-SS2	ACM 43-SS2	ACM 43-SS2	ACM 43-SS3	ACM 43-SS3	ACM 43-SS3	ACM 43-SS4	ACM 43-SS4	ACM 43-SS4	ACM 43-SS5	ACM 43-SS5	ACM 43-SS5	ACM 43-SS6	ACM 43-SS6	ACM 43-SS6	ACM 43-SS7	ACM 43-SS7	ACM 43-SS7	ACM 43-BG1	ACM 43-BG2	COGCC TABLE 910-1 CONCENTRATION LEVELS	ECMC TABLE 915-1 CONCENTRATION LEVELS		UNITS
Depth	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"		Residential Soil Levels	Protection of Groundwater	
Sample Date	4/19/2017	3/25/2021	8/8/2024	4/19/2017	3/25/2021	8/8/2024	4/19/2017	3/25/2021	8/8/2024	4/19/2017	3/25/2021	8/8/2024	4/19/2017	3/25/2021	8/8/2024	4/19/2017	3/25/2021	8/8/2024	4/19/2017	3/25/2021	8/8/2024	4/19/2017	4/19/2017				
Analytical Parameters																											
TPH																											
TPH Gasoline Range Organics	<1.6	NT	NT	<1.9	NT	NT	<2.0	NT	NT	<2.0	NT	NT	<2.1	NT	NT	<2.1	NT	NT	<2.1	NT	NT	NT	NT				
TPH Diesel Range Organics	19	NT	NT	21	NT	NT	36	NT	NT	34	NT	NT	93	NT	NT	33	NT	NT	21	NT	NT	NT	NT	500	500	500	mg/kg
TPH Oil Range Organics	NT	NT	2540	NT	NT	49.7	NT	NT	18.4	NT	NT	24	NT	NT	26	NT	NT	27.3	NT	NT	8.53	NT	NT				
BTEX																											
Benzene	<0.0077	NT	NT	<0.041	NT	NT	<0.0096	NT	NT	<0.0096	NT	NT	<0.010	NT	NT	<0.010	NT	NT	<0.010	NT	NT	NT	NT	0.17	1.2	0.0026	mg/kg
Toluene	<0.011	NT	NT	<0.041	NT	NT	<0.014	NT	NT	<0.014	NT	NT	<0.015	NT	NT	<0.015	NT	NT	<0.015	NT	NT	NT	NT	85	490	0.69	mg/kg
Ethylbenzene	<0.0079	NT	NT	<0.041	NT	NT	<0.0099	NT	NT	<0.0099	NT	NT	<0.010	NT	NT	<0.011	NT	NT	<0.010	NT	NT	NT	NT	100	5.8	0.78	mg/kg
Total Xylene	<0.026	NT	NT	<0.12	NT	NT	<0.033	NT	NT	<0.033	NT	NT	<0.034	NT	NT	<0.036	NT	NT	<0.035	NT	NT	NT	NT	175	58	9.9	mg/kg
1,2,4-trimethylbenzene	NT	NT	<5.00	NT	NT	<5.00	NT	NT	<5.00	NT	NT	<5.05	NT	NT	<5.00	NT	NT	<5.00	NT	NT	<5.00	NT	<5.00	NA	30	0.0081	mg/kg
1,3,5-trimethylbenzene	NT	NT	<5.00	NT	NT	<5.00	NT	NT	<5.00	NT	NT	<5.05	NT	NT	<5.00	NT	NT	<5.00	NT	NT	<5.00	NT	NT	NA	27	0.0087	mg/kg
Metals																											
Arsenic	7.5	NT	NT	9.0	NT	NT	9.4	NT	NT	9.9	NT	NT	9.4	NT	NT	10	NT	NT	8.7	NT	NT	9.1	10	0.39	0.68	0.29	mg/kg
Barium	150	NT	NT	180	NT	NT	180	NT	NT	150	NT	NT	100	NT	NT	95	NT	NT	100	NT	NT	110	NT	15,000	15,000	82	mg/kg
Cadmium	0.93	NT	NT	0.86	NT	NT	0.79	NT	NT	0.88	NT	NT	0.84	NT	NT	0.91	NT	NT	0.82	NT	NT	0.83	NT	70	71	0.38	mg/kg
Chromium	12	NT	NT	12	NT	NT	10	NT	NT	13	NT	NT	16	NT	NT	14	NT	NT	15	NT	NT	12	NT	NA	NA	NA	mg/kg
Copper	13	NT	NT	16	NT	NT	15	NT	NT	16	NT	NT	17	NT	NT	16	NT	NT	17	NT	NT	15	NT	3,100	3,100	46	mg/kg
Lead	15	NT	NT	20	NT	NT	20	NT	NT	21	NT	NT	22	NT	NT	20	NT	NT	22	NT	NT	19	NT	400	400	14	mg/kg
Mercury	0.021	NT	NT	0.022	NT	NT	0.025	NT	NT	0.032	NT	NT	0.034	NT	NT	0.045	NT	NT	0.039	NT	NT	0.021	NT	23	NA	NA	mg/kg
Nickel	15	NT	NT	19	NT	NT	18	NT	NT	20	NT	NT	24	NT	NT	20	NT	NT	22	NT	NT	18	NT	1,600	1,500	26	mg/kg
Selenium	1.5	NT	NT	1.7	NT	NT	1.5	NT	NT	1.4	NT	NT	1.5	NT	NT	1.4	NT	NT	1.5	NT	NT	1.4	NT	390	390	0.26	mg/kg
Silver	<0.053	NT	NT	<0.057	NT	NT	<0.049	NT	NT	<0.060	NT	NT	<0.061	NT	NT	<0.063	NT	NT	<0.058	NT	NT	<0.054	NT	390	390	0.8	mg/kg
Zinc	89	NT	NT	99	NT	NT	97	NT	NT	100	NT	NT	110	NT	NT	100	NT	NT	110	NT	NT	91	NT	23,000	23,000	370	mg/kg
SAR Metals Analysis																											
Calcium	710	NT	NT	750	NT	NT	530	NT	NT	83	1400	NT	60	1100	NT	390	1500	NT	33	780	NT	99	NT	NA	NA	NA	mg/L
Magnesium	160	NT	NT	61	NT	NT	67	NT	NT	21	170	NT	15	220	NT	98	240	NT	8.5	150.0	NT	35	NT	NA	NA	NA	mg/L
Sodium	550	NT	NT	280	NT	NT	850	NT	NT	840	82	NT	1300	230	NT	2700	220	NT	720	99	NT	40	NT	NA	NA	NA	mg/L
Sodium Adsorption Ratio	4.8	NT	NT	2.6	NT	NT	9.3	NT	0.933	21	0.55	NT	39	1.6	NT	31	1.4	NT	29	0.86	NT	0.89	NT	<12	<6	<6	ratio
Polynuclear Aromatic Hydrocarbons																											
Acenaphthene	<0.0031	NT	NT	<0.0034	NT	NT	<0.0035	NT	NT	<0.0036	NT	NT	<0.0036	NT	NT	<0.0037	NT	NT	<0.0035	NT	NT	NT	NT	1,000	360	0.55	mg/kg
Anthracene	<0.0016	NT	NT	<0.0017	NT	NT	<0.0018	NT	NT	<0.0018	NT	NT	<0.0018	NT	NT	<0.0019	NT	NT	<0.0018	NT	NT	NT	NT	1,000	1,800	5.8	mg/kg
Benzo(a)anthracene	<0.0027	NT	NT	<0.0029	NT	NT	<0.0030	NT	NT	<0.0031	NT	NT	<0.0031	NT	NT	<0.0032	NT	NT	<0.0030	NT	NT	NT	NT	0.22	1.1	0.011	mg/kg
Benzo(b)fluoranthene	<0.0017	NT	NT	<0.0018	NT	NT	<0.0019	NT	NT	<0.0019	NT	NT	<0.0019	NT	NT	<0.0020	NT	NT	<0.0019	NT	NT	NT	NT	0.22	1.1	0.3	mg/kg
Benzo(k)fluoranthene	<0.0023	NT	NT	<0.0025	NT	NT	<0.0025	NT	NT	<0.0026	NT	NT	<0.0026	NT	NT	<0.0027	NT	NT	<0.0025	NT	NT	NT	NT	2.2	11.0	2.9	mg/kg
Benzo(a)pyrene	<0.0011	NT	NT	<0.0012	NT	NT	<0.0012	NT	NT	<0.0013	NT	NT	<0.0013	NT	NT	<0.0013	NT	NT	<0.0012	NT	NT	NT	NT	0.022	0.11	0.24	mg/kg
Chrysene	<0.0017	NT	NT	<0.0018	NT	NT	<0.0019	NT	NT	<0.0019	NT	NT	<0.0019	NT	NT	<0.0020	NT	NT	<0.0019	NT	NT	NT	NT	22	110	9	mg/kg
Dibenzo(a,h)anthracene	<0.0014	NT	NT	<0.0016	NT	NT	<0.0016	NT	NT	<0.0016	NT	NT	<0.0016	NT	NT	<0.0017	NT	NT	<0.0016	NT	NT	NT	NT	0.022	0.11	0.096	mg/kg
Fluoranthene	<0.0013	NT	NT	<0.0014	NT	NT	<0.0014	NT	NT	<0.0014	NT	NT	<0.0015	NT	NT	<0.0015	NT	NT	<0.0014	NT	NT	NT	NT	1,000	240	8.9	mg/kg
Fluorene	<0.0014	NT	NT	<0.0016	NT	NT	<0.0016	NT	NT	<0.0016	NT	NT	<0.0016	NT	NT	<0.0017	NT	NT	<0.0016	NT	NT	NT	NT	1,000	240	0.54	mg/kg
Indeno(1,2,3-cd)pyrene	<0.0014	NT	NT	<0.0015	NT	NT	<0.0015	NT	NT	<0.0015	NT	NT	<0.0015	NT	NT	<0.0016	NT	NT	<0.0015	NT	NT	NT	NT	0.22	1.1	0.98	mg/kg
1-methylnaphthalene	NT	NT	<0.0200	NT	NT	<0.0200	NT	NT	<0.0200	NT	NT	<0.0200	NT	NT	<0.0200	NT	NT	<0.0200	NT	NT	<0.0200	NT	NT	NA	18.00	0.006	mg/kg
2-methylnaphthalene	NT	NT	<0.0200	NT	NT	<0.0200	NT	NT	<0.0200	NT	NT	<0.0200	NT	NT	<0.0200	NT	NT	<0.0200	NT	NT	<0.0200	NT	NT	NA	24.00	0.019	mg/kg
Napthalene	<0.0083	NT	NT	<0.0090	NT	NT	<0.0092	NT	NT	<0.0095	NT	NT	0.087	NT	NT	<0.0098	NT	NT	<0.0093	NT	NT	NT	NT	23	2	0.0038	mg/kg
Pyrene	<0.0016	NT	NT	<0.0017	NT	NT	<0.0017	NT	NT	<0.0018	NT	NT	<0.0018	NT	NT	<0.0019	NT	NT	<0.0018	NT	NT	NT	NT	1,000	180	1.3	mg/kg
General Chemistry																											
Chromium, Hexavalent	<0.33	NT	<1.00	3.7	NT	<1.00	1.0 J	NT	<1.00	<0.35	NT	<1.00	<0.36	NT	<1.00	<0.38	NT	<1.00	<0.36	NT	<1.00	<0.31	NT	23	0.3	0.00067	mg/kg
Chromium, Trivalent	12	NT	NT	8.0	NT	NT	9.4	NT	NT	13	NT	NT	16	NT	NT	14	NT	NT	15	NT	NT	12	16	120,000	NA	NA	mg/kg
Hot Water Soluble Boron	NT	NT	1.34	NT	NT	0.555	NT	NT	0.630	NT	NT	0.721	NT	NT	0.558	NT	NT	0.868	NT	NT	NT	NT	NT	NA	2	2	mg/L
Specific Conductivity	8.4	2.8	NT	6.1	7.1	0.227	7.5	1.4	NT	5.4	8.7	2.23	24	8.4	2.50	18	11	1.34	4.1	6.4	2.50	1.0	NT	<4 or 2 x the background	<4	<4	mmhos/cm
pH	7.21	NT	NT	7.98	NT	NT	8.44	NT	8.16	8.61	NT	7.74	8.66	NT	7.71	8.11	NT	NT	9.07	NT	7.68	7.53	NT	6-9	6-8.3	6-8.3	su

mg/kg - milligrams per kilogram
mg/L - milligrams per liter
J - indicates an estimated value
mmhos/cm - millimhos per centimeter
mv - millivolts
su - standard units
NA - not applicable
NT - parameter was not tested

Over COGCC Table 910-1 concentration levels but under BACKGROUND level.
Over COGCC Table 910-1 concentration levels and not within BACKGROUND level.
Over COGCC Table 910-1 concentration levels

08-Apr-2021

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

Re: **AC McLaughlin 43 Resample** Work Order: **21040089**

Dear Tim,

ALS Environmental received 7 samples on 01-Apr-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 13.

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,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

ALS Group, USA

Date: 08-Apr-21

Client: Entrada Consulting Group
Project: AC McLaughlin 43 Resample
Work Order: **21040089**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
21040089-01	ACM43-SS1	Soil		3/25/2021 09:30	4/1/2021 10:00	☐
21040089-02	ACM43-SS2	Soil		3/25/2021 09:40	4/1/2021 10:00	☐
21040089-03	ACM43-SS3	Soil		3/25/2021 09:50	4/1/2021 10:00	☐
21040089-04	ACM43-SS4	Soil		3/25/2021 10:00	4/1/2021 10:00	☐
21040089-05	ACM43-SS5	Soil		3/25/2021 10:10	4/1/2021 10:00	☐
21040089-06	ACM43-SS6	Soil		3/25/2021 10:20	4/1/2021 10:00	☐
21040089-07	ACM43-SS7	Soil		3/25/2021 10:30	4/1/2021 10:00	☐

Qualifier	Description
*	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.

Acronym	Description
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

Units Reported	Description
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	

ALS Group, USA

Date: *08-Apr-21*

Client: Entrada Consulting Group
Project: AC McLaughlin 43 Resample
Sample ID: ACM43-SS1
Collection Date: 3/25/2021 09:30 AM

Work Order: 21040089
Lab ID: 21040089-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 2**	Prep: USDA Method 20B / 4/7/21			Analyst: **QTN**
Electrical Conductivity @ Saturation	**2.8**		**0.011**	**0.10**	**mmhos/cm @25°**	20	4/7/2021 16:24

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

ALS Group, USA

Date: *08-Apr-21*

Client: Entrada Consulting Group
Project: AC McLaughlin 43 Resample
Sample ID: ACM43-SS2
Collection Date: 3/25/2021 09:40 AM

Work Order: 21040089
Lab ID: 21040089-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 2**	Prep: USDA Method 20B / 4/7/21			Analyst: **QTN**
Electrical Conductivity @ Saturation	**7.1**		**0.011**	**0.10**	**mmhos/cm @25°**	20	4/7/2021 16:24

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

ALS Group, USA

Date: *08-Apr-21*

Client: Entrada Consulting Group
Project: AC McLaughlin 43 Resample
Sample ID: ACM43-SS3
Collection Date: 3/25/2021 09:50 AM

Work Order: 21040089
Lab ID: 21040089-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 2**	Prep: USDA Method 20B / 4/7/21			Analyst: **QTN**
Electrical Conductivity @ Saturation	**1.4**		**0.011**	**0.10**	**mmhos/cm @25°**	20	4/7/2021 16:24

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

ALS Group, USA

Date: *08-Apr-21*

Client: Entrada Consulting Group
Project: AC McLaughlin 43 Resample
Sample ID: ACM43-SS4
Collection Date: 3/25/2021 10:00 AM

Work Order: 21040089
Lab ID: 21040089-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 4/7/21		Analyst: **STP**
Calcium	**1,400**		**2.5**	**5.0**	**mg/L**	10	4/7/2021 16:03
Magnesium	**170**		**0.50**	**2.0**	**mg/L**	10	4/7/2021 16:03
Sodium	**82**		**1.8**	**2.0**	**mg/L**	10	4/7/2021 16:03
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 2**			Prep: USDA Method 20B / 4/7/21		Analyst: **STP**
Sodium Adsorption Ratio	**0.55**		**0.010**	**0.010**	**none**	1	4/7/2021
ELECTRICAL CONDUCTIVITY (SAR)		Method: **USDA H60 METHOD 2**			Prep: USDA Method 20B / 4/7/21		Analyst: **QTN**
Electrical Conductivity @ Saturation	**8.7**		**0.011**	**0.10**	**mmhos/cm @25°**	20	4/7/2021 16:24

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

ALS Group, USA

Date: *08-Apr-21*

Client: Entrada Consulting Group
Project: AC McLaughlin 43 Resample
Sample ID: ACM43-SS5
Collection Date: 3/25/2021 10:10 AM

Work Order: 21040089
Lab ID: 21040089-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 4/7/21		Analyst: **STP**
Calcium	**1,100**		**2.5**	**5.0**	**mg/L**	10	4/7/2021 16:05
Magnesium	**220**		**0.50**	**2.0**	**mg/L**	10	4/7/2021 16:05
Sodium	**230**		**1.8**	**2.0**	**mg/L**	10	4/7/2021 16:05
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 2**			Prep: USDA Method 20B / 4/7/21		Analyst: **STP**
Sodium Adsorption Ratio	**1.6**		**0.010**	**0.010**	**none**	1	4/7/2021
ELECTRICAL CONDUCTIVITY (SAR)		Method: **USDA H60 METHOD 2**			Prep: USDA Method 20B / 4/7/21		Analyst: **QTN**
Electrical Conductivity @ Saturation	**8.4**		**0.011**	**0.10**	**mmhos/cm @25°**	20	4/7/2021 16:24

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

ALS Group, USA

Date: *08-Apr-21*

Client: Entrada Consulting Group
Project: AC McLaughlin 43 Resample
Sample ID: ACM43-SS6
Collection Date: 3/25/2021 10:20 AM

Work Order: 21040089
Lab ID: 21040089-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 4/7/21		Analyst: **STP**
Calcium	**1,500**		**2.5**	**5.0**	**mg/L**	10	4/7/2021 16:06
Magnesium	**240**		**0.50**	**2.0**	**mg/L**	10	4/7/2021 16:06
Sodium	**220**		**1.8**	**2.0**	**mg/L**	10	4/7/2021 16:06
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 2**			Prep: USDA Method 20B / 4/7/21		Analyst: **STP**
Sodium Adsorption Ratio	**1.4**		**0.010**	**0.010**	**none**	1	4/7/2021
ELECTRICAL CONDUCTIVITY (SAR)		Method: **USDA H60 METHOD 2**			Prep: USDA Method 20B / 4/7/21		Analyst: **QTN**
Electrical Conductivity @ Saturation	**11**		**0.011**	**0.10**	**mmhos/cm @25°**	20	4/7/2021 16:24

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

ALS Group, USA

Date: *08-Apr-21*

Client: Entrada Consulting Group
Project: AC McLaughlin 43 Resample
Sample ID: ACM43-SS7
Collection Date: 3/25/2021 10:30 AM

Work Order: 21040089
Lab ID: 21040089-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 4/7/21		Analyst: **STP**
Calcium	**780**		**2.5**	**5.0**	**mg/L**	10	4/7/2021 16:08
Magnesium	**150**		**0.50**	**2.0**	**mg/L**	10	4/7/2021 16:08
Sodium	**99**		**1.8**	**2.0**	**mg/L**	10	4/7/2021 16:08
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 2**			Prep: USDA Method 20B / 4/7/21		Analyst: **STP**
Sodium Adsorption Ratio	**0.86**		**0.010**	**0.010**	**none**	1	4/7/2021
ELECTRICAL CONDUCTIVITY (SAR)		Method: **USDA H60 METHOD 2**			Prep: USDA Method 20B / 4/7/21		Analyst: **QTN**
Electrical Conductivity @ Saturation	**6.4**		**0.011**	**0.10**	**mmhos/cm @25°**	20	4/7/2021 16:24

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

ALS Group, USA

Date: 08-Apr-21

Client: Entrada Consulting Group

Work Order: 21040089

Project: AC McLaughlin 43 Resample

QC BATCH REPORT

Batch ID: **174710** Instrument ID **ICPMS3** Method: **SW6020B**

DUP Sample ID: **21040088-01ADUP** Units: **mg/L** Analysis Date: **4/7/2021 03:55 PM**

Client ID: Run ID: **ICPMS3_210407A** SeqNo: **7283677** Prep Date: **4/7/2021** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	668.9	5.0	0	0	0	0-0	619.5	7.67		
Magnesium	27.73	2.0	0	0	0	0-0	24.03	14.3		
Sodium	17.04	2.0	0	0	0	0-0	16.12	5.54		

The following samples were analyzed in this batch:

21040089-01A 21040089-02A 21040089-03A
21040089-04A 21040089-05A 21040089-06A
21040089-07A

Batch ID: **174710** Instrument ID **SAR** Method: **USDA H60 Method**

DUP Sample ID: **21040088-01ADUP** Units: **none** Analysis Date: **4/7/2021**

Client ID: Run ID: **SAR_210407A** SeqNo: **7283805** Prep Date: **4/7/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.1755	0.010	0	0	0		0.1729	1.5	50	

The following samples were analyzed in this batch:

21040089-01A 21040089-02A 21040089-03A
21040089-04A 21040089-05A 21040089-06A
21040089-07A

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

Chain of Custody Form

ALS Environmental

Page 1 of 1

COC ID: 123456

☐ Cincinnati, OH +1 513 733 5336 ☑ Holland, MI +1 616 399 6070 ☐ Salt Lake City, UT +1 801 266 7700
☐ Everett, WA +1 425 356 2600 ☐ Houston, TX +1 281 530 5656 ☐ Spring City, PA +1 610 948 4903
☐ Fort Collins, CO +1 970 490 1511 ☐ Middletown, PA +1 717 944 5541 ☐ York, PA +1 717 505 5280

ALS Project Manager: | Work Order #: 2104 0089

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	AC McLaughlin 43 Resample	A	TPH (GRO & DRO)
Work Order		Project Number	018-065	B	BTEX
Company Name	Entrada Consulting Group	Bill To Company	Entrada Consulting Group	C	PAH (See Attached List) CO Table 910
Send Report To	Tim Dobransky	Invoice Attn.	Tim Dobransky	D	Electrical Conductivity
Address	330 Grand Ave, STE C	Address		E	Sodium Adsorption Ratio
				F	pH
City/State/Zip	Grand Junction, CO 81501	City/State/Zip		G	Metals (See Attached List) CO Table 910
Phone	970.270.2986	Phone		H	Arsenic Only
Fax		Fax		I	
e-Mail Address	tdobransky@entradainc.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	ACM43-SS1	03/25/21	930	Soil	8	1				X							
2	ACM43-SS2	03/25/21	940	Soil	8	1				X							
3	ACM43-SS3	03/25/21	950	Soil	8	1				X							
4	ACM43-SS4	03/25/21	1000	Soil	8	1				X	X						
5	ACM43-SS5	03/25/21	1010	Soil	8	1				X	X						
6	ACM43-SS6	03/25/21	1020	Soil	8	1				X	X						
7	ACM43-SS7	03/25/21	1030	Soil	8	1				X	X						
8																	
9																	
10																	

Sampler(s): Please Print & Sign: Jason McLarty

Shipment Method: FedEx

Required Turnaround Time: ☐ Other ☐ STD 10 Wk Days ☑ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date: 3/26/21	Time:	Received by:	Notes: Chevron Pricing Applies - Per Bruce Schlatter	
Relinquished by:	Date: 3.29.21	Time: 1830	Received by (Laboratory): 4/1/21 1000	Cooler Temp.	QC Package: (Check Box Below)
Logged by (Laboratory): KL	Date: 4/1/21	Time: 1525	Checked by (Laboratory):	3.8°C	x Level II: Standard QC; Level III: Std QC + Raw Data; Level IV: SW846 CLP-Like; Other:

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

123

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

ALS Group, USA

Sample Receipt Checklist

Client Name: **ENTRADA** Date/Time Received: **01-Apr-21 10:00**

Work Order: **21040089** Received by: **KRW**

Checklist completed by Keith Wierenga 01-Apr-21 Reviewed by: Chad Whelton 01-Apr-21

eSignature Date eSignature Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.8/4.8 C	IR3	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	4/1/2021 3:25:45 PM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	_		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

ANALYTICAL REPORT

September 09, 2024

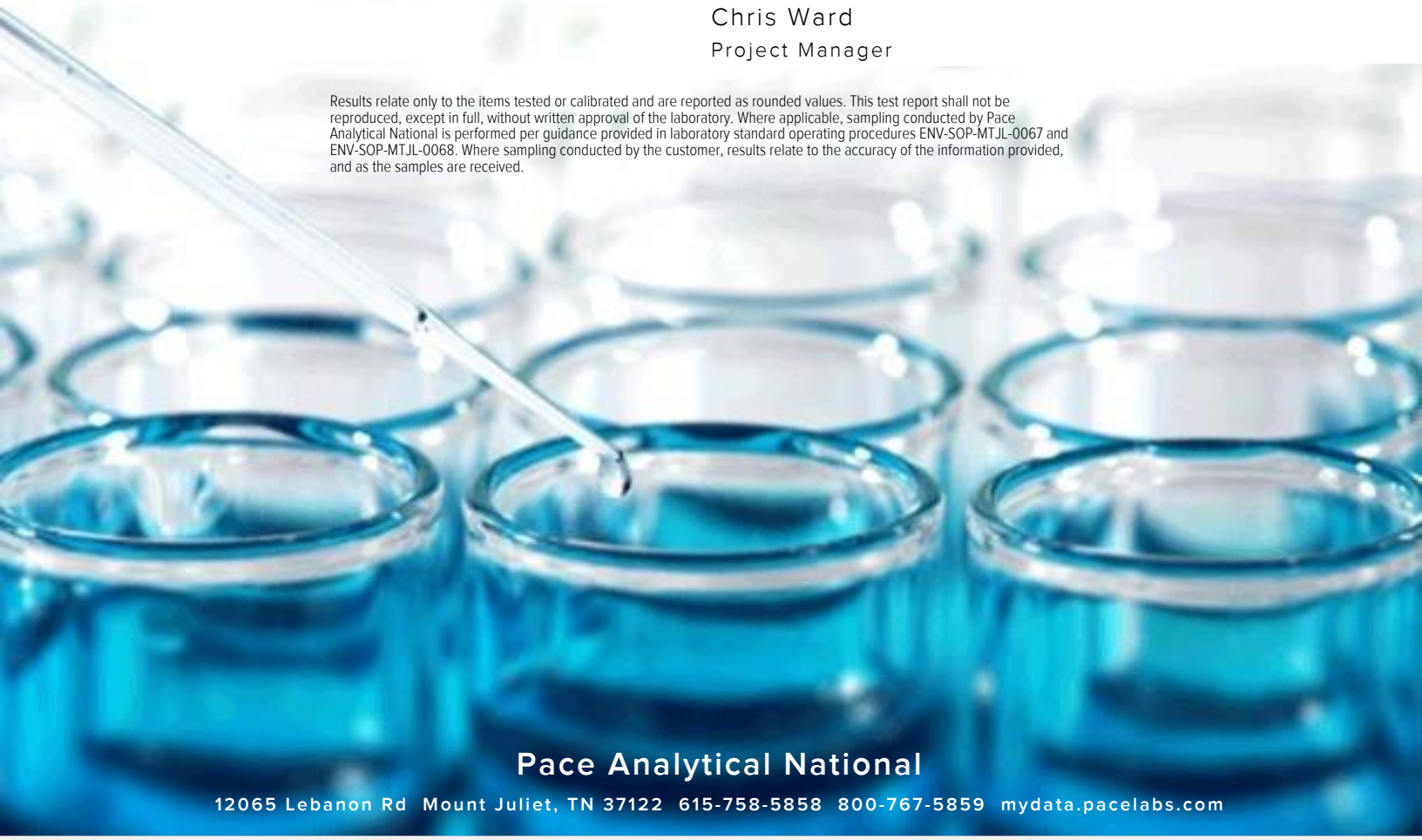
Scout Energy - Rangely, CO

Sample Delivery Group:	L1766141
Samples Received:	08/10/2024
Project Number:	
Description:	AC McLaughlin 43 Spill

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

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 5

Sr: Sample Results 6

ACM43-SS1 L1766141-01 6

ACM43-SS2 L1766141-02 7

ACM43-SS3 L1766141-03 8

ACM43-SS4 L1766141-04 9

ACM43-SS5 L1766141-05 10

ACM43-SS6 L1766141-06 11

ACM43-SS7 L1766141-07 12

Qc: Quality Control Summary 13

Wet Chemistry by Method 7199 13

Wet Chemistry by Method 9045D 15

Wet Chemistry by Method 9050AMod 17

Metals (ICP) by Method 6010B-NE493 Ch 2 18

Volatile Organic Compounds (GC/MS) by Method 8260B 20

Semi-Volatile Organic Compounds (GC) by Method 8015M 22

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM 24

Gl: Glossary of Terms 25

Al: Accreditations & Locations 26

Sc: Sample Chain of Custody 27

ACM43-SS1 L1766141-01 Solid

Collected by | Collected date/time 08/08/24 11:30 | Received date/time 08/10/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2342644	1	08/19/24 15:59	08/20/24 12:40	VSS	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2356181	1	09/06/24 06:51	09/06/24 16:52	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2344068	1	08/13/24 23:21	08/17/24 02:47	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2347115	100	08/21/24 06:39	08/23/24 22:39	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2348084	1	08/22/24 07:56	08/23/24 02:23	MKM	Mt. Juliet, TN

ACM43-SS2 L1766141-02 Solid

Collected by | Collected date/time 08/08/24 12:00 | Received date/time 08/10/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2342644	1	08/19/24 15:59	08/20/24 12:46	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2352160	1	08/28/24 13:19	08/28/24 15:30	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2356181	1	09/06/24 06:51	09/06/24 16:54	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2344068	1	08/13/24 23:21	08/17/24 03:06	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2347115	1	08/21/24 06:39	08/23/24 19:13	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2348084	1	08/22/24 07:56	08/23/24 00:05	MKM	Mt. Juliet, TN

ACM43-SS3 L1766141-03 Solid

Collected by | Collected date/time 08/08/24 12:15 | Received date/time 08/10/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2341900	1	08/14/24 10:27	08/14/24 10:27	DJS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2342644	1	08/19/24 15:59	08/20/24 12:52	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2342618	1	08/14/24 10:51	08/14/24 11:22	KA	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2341902	1	08/15/24 10:21	08/15/24 17:24	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2344068	1	08/13/24 23:21	08/17/24 03:25	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2348080	1	08/22/24 07:45	08/23/24 00:52	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2348084	1	08/22/24 07:56	08/23/24 00:22	MKM	Mt. Juliet, TN

ACM43-SS4 L1766141-04 Solid

Collected by | Collected date/time 08/08/24 12:30 | Received date/time 08/10/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2342644	1	08/19/24 15:59	08/20/24 12:58	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2352171	1	08/28/24 13:23	08/28/24 18:30	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2352160	1	08/28/24 13:19	08/28/24 15:30	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2356181	1	09/06/24 06:51	09/06/24 16:55	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2344068	1.01	08/13/24 23:21	08/17/24 03:44	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2348080	1	08/22/24 07:45	08/23/24 00:12	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2348084	1	08/22/24 07:56	08/23/24 00:39	MKM	Mt. Juliet, TN

ACM43-SS5 L1766141-05 Solid

Collected by | Collected date/time 08/08/24 13:45 | Received date/time 08/10/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2342644	1	08/19/24 15:59	08/20/24 13:11	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2352171	1	08/28/24 13:23	08/28/24 18:30	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2352160	1	08/28/24 13:19	08/28/24 15:30	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2356181	1	09/06/24 06:51	09/06/24 17:01	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2344068	1	08/13/24 23:21	08/17/24 04:03	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2348080	1	08/22/24 07:45	08/23/24 00:26	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2348084	1	08/22/24 07:56	08/23/24 00:56	MKM	Mt. Juliet, TN

SAMPLE SUMMARY

ACM43-SS6 L1766141-06 Solid

Collected by	Collected date/time	Received date/time
	08/08/24 14:00	08/10/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2342644	1	08/19/24 15:59	08/20/24 13:29	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2352160	1	08/28/24 13:19	08/28/24 15:30	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2356181	1	09/06/24 06:51	09/06/24 17:02	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2344082	1	08/13/24 23:21	08/17/24 09:10	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2348080	1	08/22/24 07:45	08/23/24 00:39	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2348084	1	08/22/24 07:56	08/23/24 01:14	MKM	Mt. Juliet, TN

ACM43-SS7 L1766141-07 Solid

Collected by	Collected date/time	Received date/time
	08/08/24 14:15	08/10/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2342644	1	08/19/24 15:59	08/20/24 13:36	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2352171	1	08/28/24 13:23	08/28/24 18:30	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2352160	1	08/28/24 13:19	08/28/24 15:30	KRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2344082	1.01	08/13/24 23:21	08/17/24 09:29	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2348080	1	08/22/24 07:45	08/23/24 13:06	KDB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2348084	1	08/22/24 07:56	08/23/24 01:31	MKM	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

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	08/20/2024 12:40	WG2342644

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	1.34		0.0167	0.200	1	09/06/2024 16:52	WG2356181

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

Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		1.58	5.00	1	08/17/2024 02:47	WG2344068
1,3,5-Trimethylbenzene	U		2.00	5.00	1	08/17/2024 02:47	WG2344068
(S) Toluene-d8	*104*			*75.0-131*		*08/17/2024 02:47*	WG2344068
(S) 4-Bromofluorobenzene	*93.0*			*67.0-138*		*08/17/2024 02:47*	WG2344068
(S) 1,2-Dichloroethane-d4	*94.4*			*70.0-130*		*08/17/2024 02:47*	WG2344068

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C28-C36 Motor Oil Range	2540		27.4	400	100	08/23/2024 22:39	WG2347115
(S) o-Terphenyl	*102*	J7		*18.0-148*		*08/23/2024 22:39*	WG2347115

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
1-Methylnaphthalene	U		0.00449	0.0200	1	08/23/2024 02:23	WG2348084
2-Methylnaphthalene	U		0.00427	0.0200	1	08/23/2024 02:23	WG2348084
(S) p-Terphenyl-d14	*84.0*			*23.0-120*		*08/23/2024 02:23*	WG2348084
(S) Nitrobenzene-d5	*99.5*			*14.0-149*		*08/23/2024 02:23*	WG2348084
(S) 2-Fluorobiphenyl	*80.4*			*34.0-125*		*08/23/2024 02:23*	WG2348084

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	08/20/2024 12:46	WG2342644

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	227		10.0	1	08/28/2024 15:30	WG2352160

Sample Narrative:

L1766141-02 WG2352160: 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	0.555		0.0167	0.200	1	09/06/2024 16:54	WG2356181

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

Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		1.58	5.00	1	08/17/2024 03:06	WG2344068
1,3,5-Trimethylbenzene	U		2.00	5.00	1	08/17/2024 03:06	WG2344068
(S) Toluene-d8	*107*			*75.0-131*		*08/17/2024 03:06*	WG2344068
(S) 4-Bromofluorobenzene	*94.0*			*67.0-138*		*08/17/2024 03:06*	WG2344068
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*08/17/2024 03:06*	WG2344068

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C28-C36 Motor Oil Range	49.7		0.274	4.00	1	08/23/2024 19:13	WG2347115
(S) o-Terphenyl	*77.3*			*18.0-148*		*08/23/2024 19:13*	WG2347115

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
1-Methylnaphthalene	U		0.00449	0.0200	1	08/23/2024 00:05	WG2348084
2-Methylnaphthalene	U		0.00427	0.0200	1	08/23/2024 00:05	WG2348084
(S) p-Terphenyl-d14	*88.7*			*23.0-120*		*08/23/2024 00:05*	WG2348084
(S) Nitrobenzene-d5	*87.9*			*14.0-149*		*08/23/2024 00:05*	WG2348084
(S) 2-Fluorobiphenyl	*87.6*			*34.0-125*		*08/23/2024 00:05*	WG2348084

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	0.933		1	08/14/2024 10:27	WG2341900

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	08/20/2024 12:52	WG2342644

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.16	T8	1	08/14/2024 11:22	WG2342618

Sample Narrative:

L1766141-03 WG2342618: 8.16 at 23C

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	0.630		0.0167	0.200	1	08/15/2024 17:24	WG2341902

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

Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		1.58	5.00	1	08/17/2024 03:25	WG2344068
1,3,5-Trimethylbenzene	U		2.00	5.00	1	08/17/2024 03:25	WG2344068
(S) Toluene-d8	*105*			*75.0-131*		*08/17/2024 03:25*	WG2344068
(S) 4-Bromofluorobenzene	*92.2*			*67.0-138*		*08/17/2024 03:25*	WG2344068
(S) 1,2-Dichloroethane-d4	*93.6*			*70.0-130*		*08/17/2024 03:25*	WG2344068

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C28-C36 Motor Oil Range	18.4		0.274	4.00	1	08/23/2024 00:52	WG2348080
(S) o-Terphenyl	*70.4*			*18.0-148*		*08/23/2024 00:52*	WG2348080

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
1-Methylnaphthalene	U		0.00449	0.0200	1	08/23/2024 00:22	WG2348084
2-Methylnaphthalene	U		0.00427	0.0200	1	08/23/2024 00:22	WG2348084
(S) p-Terphenyl-d14	*88.0*			*23.0-120*		*08/23/2024 00:22*	WG2348084
(S) Nitrobenzene-d5	*87.5*			*14.0-149*		*08/23/2024 00:22*	WG2348084
(S) 2-Fluorobiphenyl	*88.3*			*34.0-125*		*08/23/2024 00:22*	WG2348084

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	08/20/2024 12:58	WG2342644

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.74	T8	1	08/28/2024 18:30	WG2352171

Sample Narrative:

L1766141-04 WG2352171: 7.74 at 23.3C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2230		10.0	1	08/28/2024 15:30	WG2352160

Sample Narrative:

L1766141-04 WG2352160: 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	0.721		0.0167	0.200	1	09/06/2024 16:55	WG2356181

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

Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		1.60	5.05	1.01	08/17/2024 03:44	WG2344068
1,3,5-Trimethylbenzene	U		2.02	5.05	1.01	08/17/2024 03:44	WG2344068
(S) Toluene-d8	*108*			*75.0-131*		*08/17/2024 03:44*	WG2344068
(S) 4-Bromofluorobenzene	*94.6*			*67.0-138*		*08/17/2024 03:44*	WG2344068
(S) 1,2-Dichloroethane-d4	*92.1*			*70.0-130*		*08/17/2024 03:44*	WG2344068

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C28-C36 Motor Oil Range	24.0		0.274	4.00	1	08/23/2024 00:12	WG2348080
(S) o-Terphenyl	*67.6*			*18.0-148*		*08/23/2024 00:12*	WG2348080

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
1-Methylnaphthalene	U		0.00449	0.0200	1	08/23/2024 00:39	WG2348084
2-Methylnaphthalene	U		0.00427	0.0200	1	08/23/2024 00:39	WG2348084
(S) p-Terphenyl-d14	*82.4*			*23.0-120*		*08/23/2024 00:39*	WG2348084
(S) Nitrobenzene-d5	*80.6*			*14.0-149*		*08/23/2024 00:39*	WG2348084
(S) 2-Fluorobiphenyl	*81.1*			*34.0-125*		*08/23/2024 00:39*	WG2348084

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	08/20/2024 13:11	WG2342644

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.71	T8	1	08/28/2024 18:30	WG2352171

Sample Narrative:
L1766141-05 WG2352171: 7.71 at 23C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2500		10.0	1	08/28/2024 15:30	WG2352160

Sample Narrative:
L1766141-05 WG2352160: 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	0.558		0.0167	0.200	1	09/06/2024 17:01	WG2356181

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

Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		1.58	5.00	1	08/17/2024 04:03	WG2344068
1,3,5-Trimethylbenzene	U		2.00	5.00	1	08/17/2024 04:03	WG2344068
(S) Toluene-d8	*107*			*75.0-131*		*08/17/2024 04:03*	WG2344068
(S) 4-Bromofluorobenzene	*93.5*			*67.0-138*		*08/17/2024 04:03*	WG2344068
(S) 1,2-Dichloroethane-d4	*98.9*			*70.0-130*		*08/17/2024 04:03*	WG2344068

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C28-C36 Motor Oil Range	26.0		0.274	4.00	1	08/23/2024 00:26	WG2348080
(S) o-Terphenyl	*67.4*			*18.0-148*		*08/23/2024 00:26*	WG2348080

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
1-Methylnaphthalene	U		0.00449	0.0200	1	08/23/2024 00:56	WG2348084
2-Methylnaphthalene	U		0.00427	0.0200	1	08/23/2024 00:56	WG2348084
(S) p-Terphenyl-d14	*78.7*			*23.0-120*		*08/23/2024 00:56*	WG2348084
(S) Nitrobenzene-d5	*77.5*			*14.0-149*		*08/23/2024 00:56*	WG2348084
(S) 2-Fluorobiphenyl	*77.8*			*34.0-125*		*08/23/2024 00:56*	WG2348084

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	08/20/2024 13:29	WG2342644

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1340		10.0	1	08/28/2024 15:30	WG2352160

Sample Narrative:

L1766141-06 WG2352160: 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	0.868		0.0167	0.200	1	09/06/2024 17:02	WG2356181

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

Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		1.58	5.00	1	08/17/2024 09:10	WG2344082
1,3,5-Trimethylbenzene	U		2.00	5.00	1	08/17/2024 09:10	WG2344082
(S) Toluene-d8	*95.6*			*75.0-131*		*08/17/2024 09:10*	WG2344082
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*08/17/2024 09:10*	WG2344082
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*08/17/2024 09:10*	WG2344082

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C28-C36 Motor Oil Range	27.3		0.274	4.00	1	08/23/2024 00:39	WG2348080
(S) o-Terphenyl	*59.6*			*18.0-148*		*08/23/2024 00:39*	WG2348080

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
1-Methylnaphthalene	U		0.00449	0.0200	1	08/23/2024 01:14	WG2348084
2-Methylnaphthalene	U		0.00427	0.0200	1	08/23/2024 01:14	WG2348084
(S) p-Terphenyl-d14	*92.3*			*23.0-120*		*08/23/2024 01:14*	WG2348084
(S) Nitrobenzene-d5	*88.9*			*14.0-149*		*08/23/2024 01:14*	WG2348084
(S) 2-Fluorobiphenyl	*90.4*			*34.0-125*		*08/23/2024 01:14*	WG2348084

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	08/20/2024 13:36	WG2342644

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.68	T8	1	08/28/2024 18:30	WG2352171

Sample Narrative:

L1766141-07 WG2352171: 7.68 at 22.7C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2500		10.0	1	08/28/2024 15:30	WG2352160

Sample Narrative:

L1766141-07 WG2352160: at 25C

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

Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		1.60	5.05	1.01	08/17/2024 09:29	WG2344082
1,3,5-Trimethylbenzene	U		2.02	5.05	1.01	08/17/2024 09:29	WG2344082
(S) Toluene-d8	*97.2*			*75.0-131*		*08/17/2024 09:29*	WG2344082
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*08/17/2024 09:29*	WG2344082
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*08/17/2024 09:29*	WG2344082

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C28-C36 Motor Oil Range	8.53		0.274	4.00	1	08/23/2024 13:06	WG2348080
(S) o-Terphenyl	*47.0*			*18.0-148*		*08/23/2024 13:06*	WG2348080

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
1-Methylnaphthalene	U		0.00449	0.0200	1	08/23/2024 01:31	WG2348084
2-Methylnaphthalene	U		0.00427	0.0200	1	08/23/2024 01:31	WG2348084
(S) p-Terphenyl-d14	*88.5*			*23.0-120*		*08/23/2024 01:31*	WG2348084
(S) Nitrobenzene-d5	*85.5*			*14.0-149*		*08/23/2024 01:31*	WG2348084
(S) 2-Fluorobiphenyl	*87.4*			*34.0-125*		*08/23/2024 01:31*	WG2348084

Method Blank (MB)

(MB) R4109456-1 08/20/24 10:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexavalent Chromium	U		0.255	1.00

L1766121-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1766121-04 08/20/24 11:20 • (DUP) R4109456-3 08/20/24 11:26

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	U	U	1	0.000		20

L1766141-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1766141-04 08/20/24 12:58 • (DUP) R4109456-11 08/20/24 13:05

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4109456-2 08/20/24 11:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	8.85	88.5	80.0-120	

L1766132-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1766132-03 08/20/24 11:50 • (MS) R4109456-7 08/20/24 11:57 • (MSD) R4109456-8 08/20/24 12:15

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 %
Hexavalent Chromium	20.0	U	9.11	9.39	45.6	47.0	1	75.0-125	J6	J6	3.06	20

Sample Narrative:

MS: Matrix spike failure due to matrix interference.

MSD: Matrix spike failure due to matrix interference.

L1766132-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1766132-03 08/20/24 11:50 • (MS) R4109456-9 08/20/24 12:21

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	641	U	426	66.5	50	75.0-125	J6

Sample Narrative:

MS: Matrix spike failure due to matrix interference.

L1766145-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1766145-03 08/14/24 11:22 • (DUP) R4106573-2 08/14/24 11:22

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.91	7.88	1	0.380		1

Sample Narrative:

OS: 7.91 at 22.7C

DUP: 7.88 at 22.8C

Laboratory Control Sample (LCS)

(LCS) R4106573-1 08/14/24 11:22

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

L1766141-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1766141-04 08/28/24 18:30 • (DUP) R4113002-2 08/28/24 18:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.74	7.70	1	0.518		1

Sample Narrative:

OS: 7.74 at 23.3C

DUP: 7.7 at 22.7C

Laboratory Control Sample (LCS)

(LCS) R4113002-1 08/28/24 18:30

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.98	99.8	99.0-101	

Sample Narrative:

LCS: 9.98 at 23.2C

Method Blank (MB)

(MB) R4112952-1 08/28/24 15:30

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

L1766132-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1766132-01 08/28/24 15:30 • (DUP) R4112952-3 08/28/24 15:30

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	1520	1520	1	0.0658		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4112952-2 08/28/24 15:30

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	733	755	103	85.0-115	

Sample Narrative:

LCS: at 25C

Method Blank (MB)

(MB) R4107513-1 08/15/24 16:41

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) R4107513-2 08/15/24 16:44 • (LCSD) R4107513-3 08/15/24 16:46

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	1.05	1.04	105	104	80.0-120			0.568	20

Method Blank (MB)

(MB) R4116720-1 09/06/24 16:14

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) R4116720-2 09/06/24 16:42 • (LCSD) R4116720-3 09/06/24 16:44

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	1.07	1.06	107	106	80.0-120			0.630	20

Method Blank (MB)

(MB) R4108623-3 08/16/24 22:29

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
1,2,4-Trimethylbenzene	U		1.58	5.00
1,3,5-Trimethylbenzene	U		2.00	5.00
(S) Toluene-d8	*108*			*75.0-131*
(S) 4-Bromofluorobenzene	*94.7*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*93.3*			*70.0-130*

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

(LCS) R4108623-1 08/16/24 21:12 • (LCSD) R4108623-2 08/16/24 21:31

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCSD Result ug/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,2,4-Trimethylbenzene	125	144	135	115	108	70.0-126			6.45	20
1,3,5-Trimethylbenzene	125	139	129	111	103	73.0-127			7.46	20
(S) Toluene-d8				*106*	*104*	*75.0-131*				
(S) 4-Bromofluorobenzene				*95.3*	*95.7*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*102*	*106*	*70.0-130*				

L1765883-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1765883-01 08/17/24 04:22 • (MS) R4108623-4 08/17/24 05:20 • (MSD) R4108623-5 08/17/24 05:39

Analyte	Spike Amount ug/kg	Original Result ug/kg	MS Result ug/kg	MSD Result ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2,4-Trimethylbenzene	810	U	1350	1160	167	143	8	10.0-160	J5		15.1	36
1,3,5-Trimethylbenzene	810	U	1240	1100	153	136	8	10.0-160			12.0	38
(S) Toluene-d8					*105*	*103*		*75.0-131*				
(S) 4-Bromofluorobenzene					*97.6*	*94.8*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*103*	*102*		*70.0-130*				

Sample Narrative:

OS: Lowest possible dilution due to sample foaming.

Method Blank (MB)

(MB) R4109097-2 08/17/24 08:25

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
1,2,4-Trimethylbenzene	U		1.58	5.00
1,3,5-Trimethylbenzene	U		2.00	5.00
(S) Toluene-d8	*98.2*			*75.0-131*
(S) 4-Bromofluorobenzene	*106*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4109097-1 08/17/24 07:27

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,4-Trimethylbenzene	125	125	100	70.0-126	
1,3,5-Trimethylbenzene	125	110	88.0	73.0-127	
(S) Toluene-d8			*93.0*	*75.0-131*	
(S) 4-Bromofluorobenzene			*105*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*119*	*70.0-130*	

Method Blank (MB)

(MB) R4111116-1 08/23/24 15:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	*75.4*			*18.0-148*

Method Blank (MB)

(MB) R4110736-1 08/22/24 21:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	*85.3*			*18.0-148*

Method Blank (MB)

(MB) R4111343-2 08/22/24 16:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
(S) p-Terphenyl-d14	*91.1*			*23.0-120*
(S) Nitrobenzene-d5	*100*			*14.0-149*
(S) 2-Fluorobiphenyl	*84.5*			*34.0-125*

Laboratory Control Sample (LCS)

(LCS) R4111343-1 08/22/24 16:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
1-Methylnaphthalene	0.0800	0.0754	94.3	51.0-121	
2-Methylnaphthalene	0.0800	0.0716	89.5	50.0-120	
(S) p-Terphenyl-d14			*92.7*	*23.0-120*	
(S) Nitrobenzene-d5			*113*	*14.0-149*	
(S) 2-Fluorobiphenyl			*95.0*	*34.0-125*	

L1766008-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1766008-02 08/22/24 23:32 • (MS) R4111343-3 08/22/24 23:50 • (MSD) R4111343-4 08/23/24 00:08

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 %
1-Methylnaphthalene	0.0788	U	0.0602	0.0571	76.4	72.8	1	10.0-142			5.29	28
2-Methylnaphthalene	0.0788	U	0.0553	0.0528	70.2	67.3	1	10.0-137			4.63	28
(S) p-Terphenyl-d14					*78.3*	*83.0*		*23.0-120*				
(S) Nitrobenzene-d5					*89.5*	*93.0*		*14.0-149*				
(S) 2-Fluorobiphenyl					*76.2*	*81.5*		*34.0-125*				

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

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
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
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
T8	Sample(s) received past/too close to holding time expiration.

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	LAO000356
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: **AC McLaughlin 43 Spill**

City/State Collected: **CO**

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

Client Project #

Lab Project #

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature): SR

Immediately Packed on Ice N ___ Y X

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

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TPH-ORO	TMBs	1 and 2-methylnapthalene	HSB	SAR	Hex Chromium	EC	pH	Remarks	Sample # (lab only)
ACM43-SS1	Grab	SS	0-6"	8/8/24	1130	4	X	X	X	X		X				-01
ACM43-SS2	Grab	SS	0-6"	8/8/24	1200	4	X	X	X	X		X	X			-02
ACM43-SS3	Grab	SS	0-6"	8/8/24	1215	4	X	X	X	X	X	X		X		-03
ACM43-SS4	Grab	SS	0-6"	8/8/24	1230	4	X	X	X	X		X	X	X		-04
ACM43-SS5	Grab	SS	0-6"	8/8/24	1345	4	X	X	X	X		X	X	X		-05
ACM43-SS6	Grab	SS	0-6"	8/8/24	1400	4	X	X	X	X		X	X			-06
ACM43-SS7	Grab	SS	0-6"	8/8/24	1415	4	X	X	X			X	X	X		-07

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

L# L1726141
B085

Acctnum: SCOENERCO
Template:
Prelogin:
TSR:
PB:
Shipped Via:

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

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

Tracking # 7315 5203 0240

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

	Date:	Time:		
Relinquished by : (Signature)	8/9/24	1030	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR: 0
Relinquished by : (Signature)	8/9/24	1200	Received by: (Signature)	Temp: 0.1+0.3=0.4 °C Bottles Received: 29
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 08-10-24 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

LTLD0141

Tracking Numbers		Temperature
7315 3203 0250		3.4+03=3.7
7315 3203 0240		0.1 +0.3=0.4

Troy C.
Name

08-10-24
Date