

Legend

Background Sample

Soil Sample Location

Spill Origin

Spill Area

060120

Ft

1 inch = 60 ft

Project No: 021-205	Carney 35X34 10 Inch Valve Set Spill Diagram Scout Energy Partners NWNE / NENE, Section 34, T2N R102W, 6th PM Rio Blanco County, Colorado		330 Grand Avenue, Unit C Grand Junction, CO 81501 970-549-1015	Figure
Map By: NDB				
Date: 8/7/2023			100 Chevron Road Rangely, CO 81648 970-501-5157	1

Table 1
Carney 35X34 10 Inch Valve Set Spill
Soil Data Summary

SAMPLE SUMMARY	
Location Description	Carney 35X34
Sample Type	Soil

LABORATORY DATA SUMMARY												
Sample ID	CARNEY 35X34 BELOW PIPE	CAR35X34-SS1		CAR35X34-SS2	CAR35X34-SS3	CAR35X34-SS4	CAR 41Y34-BG1	CAR35X34-BG1	CAR35X34-BG2	COGCC TABLE 915-1 CONCENTRATION LEVELS		
Depth	2'	0-1'	0-1'	0-1'	0-1'	0-1'	0"-6"	0-1'	0-1'			
Sample Date	9/7/2022	10/6/2022	10/11/2022	10/6/2022	10/6/2022	10/6/2022	4/1/2020	10/6/2022	10/6/2022			
Analytical Parameters										Residential Soil Screening Level	Protection of Groundwater Screening Level	UNITS
TPH												
TPH (C6-C10)	0.161	0.112	NT	0.0744 J	0.140	0.135	NT	NT	NT	500		mg/kg
TPH (C10-C28)	<4.00	<4.00	NT	4.42	10.0	22.6	NT	NT	NT			
TPH (C28-C36)	4.97	3.90 J	NT	11.5	29.4	89.9	NT	NT	NT			
Volatile Organic Compounds												
1,2,4-Trimethylbenzene	<0.005	<0.005	NT	<0.005	<0.00505	<0.00505	NT	NT	NT	30	0.0081	mg/kg
1,3,5-Trimethylbenzene	<0.005	<0.005	NT	<0.005	<0.00505	<0.00505	NT	NT	NT	27	0.0087	mg/kg
Benzene	<0.001	<0.001	NT	<0.001	<0.00101	<0.00101	NT	NT	NT	1.2	0.0026	mg/kg
Toluene	<0.005	<0.005	NT	<0.005	<0.00505	<0.00505	NT	NT	NT	490	0.69	mg/kg
Ethylbenzene	<0.0025	<0.0025	NT	<0.0025	<0.00253	<0.00253	NT	NT	NT	5.8	0.78	mg/kg
Total Xylene	<0.0065	<0.0065	NT	<0.0065	<0.00656	<0.00656	NT	NT	NT	58	9.9	mg/kg
Metals												
Arsenic	7.07	5.43	NT	4.35	6.38	7.15	6.9	NT	NT	0.68	0.29	mg/kg
Barium	281	118	NT	92.4	130	254	160	NT	NT	15,000	82	mg/kg
Cadmium	0.516	0.345 J	NT	0.242 J	0.734	0.400 J	0.200	NT	NT	71	0.38	mg/kg
Chromium, Hexavalent	<1.00	<1.00	NT	<1.00	<1.00	<1.00	<0.98	NT	NT	0.3	0.00067	mg/kg
Copper	18.5	13.0	NT	8.52	13.6	16.0	13.0	NT	NT	3,100	46	mg/kg
Lead	20.1	14.7	NT	7.55	14.6	18.6	19.0	NT	NT	400	14	mg/kg
Nickel	24.6	17.3	NT	8.80	16.2	17.2	17	NT	NT	1,500	26	mg/kg
Selenium	2.06	1.04 J	NT	<2.00	<2.00	1.25 J	1.3	NT	NT	390	0.26	mg/kg
Silver	<1.00	<1.00	NT	<1.00	<1.00	<1.00	0.071	NT	NT	390	0.8	mg/kg
Zinc	85.4	61.8	NT	31.0	67.2	69.4	69	NT	NT	23,000	370	mg/kg
Soil Suitability for Reclamation												
Sodium Adsorption Ratio (SAR)	NT	1.89	0.583	2.90	10.1	3.38	0.39	0.529	0.101	<6	<6	ratio
Electrical Conductivity (EC)	8.720	3.780	NT	3.170	8.210	0.613	0.300	0.241	2.350	<4	<4	mmhos/cm
pH	8.16	7.81	NT	7.94	7.77	8.38	8.43	8.39	7.72	6 - 8.3	6 - 8.3	su
Boron, Hot Water Soluble	0.929	0.755	NT	0.335	1.59	0.903	NT	NT	NT	2	2	mg/l
Polynuclear Aromatic Hyrdrocarbons												
1-Methylnaphthalene	<0.0200	<0.0200	NT	<0.0200	<0.0200	<0.0200	NT	NT	NT	18	0.006	mg/kg
2-Methylnaphthalene	<0.0200	<0.0200	NT	<0.0200	<0.0200	<0.0200	NT	NT	NT	24	0.019	mg/kg
Acenaphthene	<0.00600	<0.00600	NT	<0.00600	<0.00600	<0.00600	NT	NT	NT	360	0.55	mg/kg
Anthracene	<0.00600	<0.00600	NT	<0.00600	<0.00600	<0.00600	NT	NT	NT	1,800	5.8	mg/kg
Benzo(a)anthracene	<0.00600	<0.00600	NT	<0.00600	<0.00175 J	<0.00600	NT	NT	NT	1.1	0.011	mg/kg
Benzo(a)pyrene	<0.00600	<0.00600	NT	<0.00600	<0.00600	<0.00600	NT	NT	NT	0.11	0.24	mg/kg
Benzo(b)fluoranthene	<0.00600	<0.00600	NT	<0.00600	0.00216 J	<0.00600	NT	NT	NT	1.1	0.3	mg/kg
Benzo(k)fluoranthene	<0.00600	<0.00600	NT	<0.00600	<0.00600	<0.00600	NT	NT	NT	11	2.9	mg/kg
Chrysene	<0.00600	<0.00600	NT	<0.00600	<0.00600	<0.00600	NT	NT	NT	110	9	mg/kg
Dibenzo(a,h)anthracene	<0.00600	<0.00600	NT	<0.00600	<0.00600	<0.00600	NT	NT	NT	0.11	0.096	mg/kg
Fluoranthene	<0.00600	<0.00600	NT	<0.00600	0.00441 J	<0.00600	NT	NT	NT	240	8.9	mg/kg
Fluorene	<0.00600	<0.00600	NT	<0.00600	<0.00600	<0.00600	NT	NT	NT	240	0.54	mg/kg
Indeno(1,2,3-cd)pyrene	<0.00600	<0.00600	NT	<0.00600	<0.00600	<0.00600	NT	NT	NT	1.1	0.98	mg/kg
Napthalene	<0.0200	0.0116 J	NT	<0.0200	<0.0200	<0.0200	NT	NT	NT	2	0.0038	mg/kg
Pyrene	<0.00600	<0.00600	NT	<0.00600	0.00351 J	<0.00600	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 COGCC Table 915-1 concentration levels but under BACKGROUND level.

Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.


Over COGCC Table 915-1 concentration levels

Scout Energy - Rangely, CO

Sample Delivery Group: L1536652
Samples Received: 09/16/2022
Project Number:
Description: Carney 35x34 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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¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

SAMPLE SUMMARY

CARNEY 35X34 BELOW PIPE L1536652-01 Solid

Collected by
Scout

Collected date/time
09/07/22 10:30

Received date/time
09/16/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG1929554	1	09/21/22 01:33	10/03/22 10:07	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1931177	1	09/23/22 14:00	09/23/22 16:00	SGB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1928750	1	09/24/22 10:39	09/24/22 12:20	NTG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1931568	1	09/24/22 09:11	09/27/22 21:12	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1928100	1	09/19/22 11:06	09/29/22 18:24	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1931573	5	09/24/22 09:13	09/25/22 20:06	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1927810	1	09/16/22 20:24	09/17/22 06:10	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1929036	1	09/16/22 20:24	09/20/22 18:18	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1928377	1	09/20/22 08:00	09/20/22 15:15	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1928120	1	09/19/22 08:00	09/19/22 20:04	JRM	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

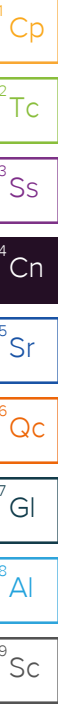
⁹Sc

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



CARNEY 35X34 BELOW PIPE

Collected date/time: 09/07/22 10:30

SAMPLE RESULTS - 01

L1536652

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	10/03/2022 10:07	WG1929554

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.16	T8	1	09/23/2022 16:00	WG1931177

Sample Narrative:

L1536652-01 WG1931177: 8.16 at 19.7C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	8720		10.0	1	09/24/2022 12:20	WG1928750

Sample Narrative:

L1536652-01 WG1928750: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	281		0.0852	0.500	1	09/27/2022 21:12	WG1931568
Cadmium	0.516		0.0471	0.500	1	09/27/2022 21:12	WG1931568
Copper	18.5		0.400	2.00	1	09/27/2022 21:12	WG1931568
Lead	20.1		0.208	0.500	1	09/27/2022 21:12	WG1931568
Nickel	24.6		0.132	2.00	1	09/27/2022 21:12	WG1931568
Selenium	2.06		0.764	2.00	1	09/27/2022 21:12	WG1931568
Silver	U		0.127	1.00	1	09/27/2022 21:12	WG1931568
Zinc	85.4		0.832	5.00	1	09/27/2022 21:12	WG1931568

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

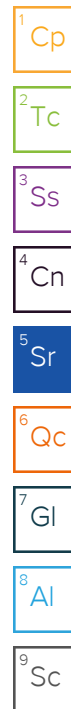
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.929		0.0167	0.200	1	09/29/2022 18:24	WG1928100

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.07		0.100	1.00	5	09/25/2022 20:06	WG1931573

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	0.161		0.0217	0.100	1	09/17/2022 06:10	WG1927810
(S) a,a,a-Trifluorotoluene(FID)	89.2			77.0-120		09/17/2022 06:10	WG1927810



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

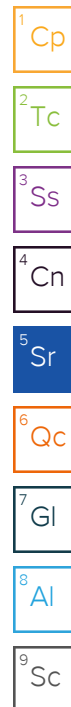
Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/20/2022 18:18	WG1929036
Toluene	U		0.00130	0.00500	1	09/20/2022 18:18	WG1929036
Ethylbenzene	U		0.000737	0.00250	1	09/20/2022 18:18	WG1929036
Xylenes, Total	U		0.000880	0.00650	1	09/20/2022 18:18	WG1929036
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/20/2022 18:18	WG1929036
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/20/2022 18:18	WG1929036
(S) Toluene-d8	107			75.0-131		09/20/2022 18:18	WG1929036
(S) 4-Bromofluorobenzene	94.1			67.0-138		09/20/2022 18:18	WG1929036
(S) 1,2-Dichloroethane-d4	105			70.0-130		09/20/2022 18:18	WG1929036

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	09/20/2022 15:15	WG1928377
C28-C36 Motor Oil Range	4.97		0.274	4.00	1	09/20/2022 15:15	WG1928377
(S) o-Terphenyl	60.1			18.0-148		09/20/2022 15:15	WG1928377

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	09/19/2022 20:04	WG1928120
Anthracene	U		0.00230	0.00600	1	09/19/2022 20:04	WG1928120
Benzo(a)anthracene	U		0.00173	0.00600	1	09/19/2022 20:04	WG1928120
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/19/2022 20:04	WG1928120
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/19/2022 20:04	WG1928120
Benzo(a)pyrene	U		0.00179	0.00600	1	09/19/2022 20:04	WG1928120
Chrysene	U		0.00232	0.00600	1	09/19/2022 20:04	WG1928120
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/19/2022 20:04	WG1928120
Fluoranthene	U		0.00227	0.00600	1	09/19/2022 20:04	WG1928120
Fluorene	U		0.00205	0.00600	1	09/19/2022 20:04	WG1928120
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/19/2022 20:04	WG1928120
1-Methylnaphthalene	U		0.00449	0.0200	1	09/19/2022 20:04	WG1928120
2-Methylnaphthalene	U		0.00427	0.0200	1	09/19/2022 20:04	WG1928120
Naphthalene	U		0.00408	0.0200	1	09/19/2022 20:04	WG1928120
Pyrene	U		0.00200	0.00600	1	09/19/2022 20:04	WG1928120
(S) p-Terphenyl-d14	82.2			23.0-120		09/19/2022 20:04	WG1928120
(S) Nitrobenzene-d5	85.0			14.0-149		09/19/2022 20:04	WG1928120
(S) 2-Fluorobiphenyl	82.8			34.0-125		09/19/2022 20:04	WG1928120



Method Blank (MB)

(MB) R3844012-1 10/03/22 07:04

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

L1534044-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1534044-10 10/03/22 08:49 • (DUP) R3844012-9 10/03/22 08:54

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

L1535006-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1535006-06 10/03/22 09:10 • (DUP) R3844012-10 10/03/22 09:15

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

Laboratory Control Sample (LCS)

(LCS) R3844012-2 10/03/22 07:10

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	9.75	97.5	80.0-120	

L1534044-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534044-09 10/03/22 08:13 • (MS) R3844012-6 10/03/22 08:34 • (MSD) R3844012-7 10/03/22 08:39

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	U	5.89	1.95	29.4	9.75	1	75.0-125	J6	J3 J6	100	20

Sample Narrative:

OS: Sample is a reducer.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1534044-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1534044-09 10/03/22 08:13 • (MS) R3844012-8 10/03/22 08:44

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Hexavalent Chromium	636	U	553	87.0	50	75.0-125	

Sample Narrative:

OS: Sample is a reducer.

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1536288-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1536288-02 09/23/22 16:00 • (DUP) R3840756-2 09/23/22 16:00

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

Sample Narrative:

OS: 7.7 at 20.6C

DUP: 7.74 at 20.4C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1536360-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1536360-02 09/23/22 16:00 • (DUP) R3840756-3 09/23/22 16:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	>13	>13	1	0.000		1

Sample Narrative:

OS: 13.15 at 26C

DUP: 13.17 at 25.6C

Laboratory Control Sample (LCS)

(LCS) R3840756-1 09/23/22 16:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	su	%	%	
pH	10.0	9.92	99.2	99.0-101	

Sample Narrative:

LCS: 9.92 at 21.2C

Method Blank (MB)

(MB) R3840953-1 09/24/22 12:20

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

L1536652-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1536652-01 09/24/22 12:20 • (DUP) R3840953-3 09/24/22 12:20

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	8720	8730	1	0.115		20

Sample Narrative:
OS: at 25C
DUP: at 25C

L1536693-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1536693-02 09/24/22 12:20 • (DUP) R3840953-4 09/24/22 12:20

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	1500	1500	1	0.134		20

Sample Narrative:
OS: at 25C
DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3840953-2 09/24/22 12:20

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	1120	1120	100	85.0-115	

Sample Narrative:
LCS: at 25C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3842089-1 09/27/22 20:49

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	0.0959	J	0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

Laboratory Control Sample (LCS)

(LCS) R3842089-2 09/27/22 20:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	95.6	95.6	80.0-120	
Cadmium	100	90.0	90.0	80.0-120	
Copper	100	90.7	90.7	80.0-120	
Lead	100	87.2	87.2	80.0-120	
Nickel	100	91.8	91.8	80.0-120	
Selenium	100	93.5	93.5	80.0-120	
Silver	20.0	17.3	86.7	80.0-120	
Zinc	100	86.9	86.9	80.0-120	

7
Gl

8
Al

9
Sc

L1538614-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1538614-01 09/27/22 20:55 • (MS) R3842089-5 09/27/22 21:03 • (MSD) R3842089-6 09/27/22 21:06

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 %
Barium	99.5	140	327	341	187	201	1	75.0-125	J5	J5	4.25	20
Cadmium	99.5	0.559	101	95.7	100	95.1	1	75.0-125			5.40	20
Copper	99.5	13.7	126	119	112	106	1	75.0-125			5.27	20
Lead	99.5	17.8	121	113	103	95.6	1	75.0-125			6.17	20
Nickel	99.5	14.2	125	120	111	105	1	75.0-125			4.51	20
Selenium	99.5	U	101	96.3	101	96.3	1	75.0-125			5.20	20
Silver	20.0	U	20.2	19.1	101	95.4	1	75.0-125			5.56	20
Zinc	99.5	50.7	164	155	113	104	1	75.0-125			5.96	20

Method Blank (MB)

(MB) R3843060-1 09/29/22 17:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	0.0182	⬇	0.0167	0.200

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

(LCS) R3843060-2 09/29/22 17:32 • (LCSD) R3843060-3 09/29/22 17:35

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	1.06	1.04	106	104	80.0-120			2.68	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3841112-1 09/25/22 19:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

¹Cp

²Tc

³Ss

Laboratory Control Sample (LCS)

(LCS) R3841112-2 09/25/22 19:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	83.7	83.7	80.0-120	

⁴Cn

⁵Sr

L1538614-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1538614-01 09/25/22 19:46 • (MS) R3841112-5 09/25/22 19:56 • (MSD) R3841112-6 09/25/22 19:59

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	99.5	4.26	94.0	89.1	89.7	84.9	5	75.0-125			5.29	20

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3839465-2 09/17/22 00:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	94.3			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3839465-1 09/16/22 23:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.78	105	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			107	77.0-120	

L1536654-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1536654-01 09/17/22 06:31 • (MS) R3839465-3 09/17/22 07:31 • (MSD) R3839465-4 09/17/22 07:51

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 %
TPH (GC/FID) Low Fraction	5.45	0.194	3.15	5.36	54.2	93.9	1	10.0-151		J3	51.9	28
(S) a,a,a-Trifluorotoluene(FID)					94.2	108		77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3839444-3 09/20/22 13:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL 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	97.4			67.0-138
(S) 1,2-Dichloroethane-d4	109			70.0-130

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

(LCS) R3839444-1 09/20/22 12:13 • (LCSD) R3839444-2 09/20/22 12:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.106	0.111	84.8	88.8	70.0-123			4.61	20
Toluene	0.125	0.107	0.111	85.6	88.8	75.0-121			3.67	20
Ethylbenzene	0.125	0.105	0.107	84.0	85.6	74.0-126			1.89	20
Xylenes, Total	0.375	0.313	0.325	83.5	86.7	72.0-127			3.76	20
1,2,4-Trimethylbenzene	0.125	0.0992	0.100	79.4	80.0	70.0-126			0.803	20
1,3,5-Trimethylbenzene	0.125	0.0992	0.102	79.4	81.6	73.0-127			2.78	20
(S) Toluene-d8				102	103	75.0-131				
(S) 4-Bromofluorobenzene				102	102	67.0-138				
(S) 1,2-Dichloroethane-d4				107	116	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3839480-1 09/20/22 14:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	73.0			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3839480-2 09/20/22 14:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	34.5	69.0	50.0-150	
(S) o-Terphenyl			74.6	18.0-148	

L1535606-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1535606-06 09/20/22 16:34 • (MS) R3839480-3 09/20/22 16:47 • (MSD) R3839480-4 09/20/22 17:00

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 %
C10-C28 Diesel Range	49.0	7.31	31.9	38.3	50.2	64.3	1	50.0-150			18.2	20
(S) o-Terphenyl					44.0	46.6		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3839018-2 09/19/22 13:46

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	80.2			23.0-120
(S) Nitrobenzene-d5	80.1			14.0-149
(S) 2-Fluorobiphenyl	78.5			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3839018-1 09/19/22 13:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0800	0.0645	80.6	50.0-120	
Anthracene	0.0800	0.0715	89.4	50.0-126	
Benzo(a)anthracene	0.0800	0.0735	91.9	45.0-120	
Benzo(b)fluoranthene	0.0800	0.0569	71.1	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0584	73.0	49.0-125	
Benzo(a)pyrene	0.0800	0.0628	78.5	42.0-120	
Chrysene	0.0800	0.0652	81.5	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0599	74.9	47.0-125	
Fluoranthene	0.0800	0.0683	85.4	49.0-129	
Fluorene	0.0800	0.0663	82.9	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0657	82.1	46.0-125	
1-Methylnaphthalene	0.0800	0.0658	82.3	51.0-121	
2-Methylnaphthalene	0.0800	0.0672	84.0	50.0-120	
Naphthalene	0.0800	0.0650	81.3	50.0-120	
Pyrene	0.0800	0.0655	81.9	43.0-123	

Laboratory Control Sample (LCS)

(LCS) R3839018-1 09/19/22 13:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
(S) p-Terphenyl-d14			97.2	23.0-120	
(S) Nitrobenzene-d5			114	14.0-149	
(S) 2-Fluorobiphenyl			99.8	34.0-125	

L1534599-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534599-02 09/19/22 17:24 • (MS) R3839018-3 09/19/22 17:44 • (MSD) R3839018-4 09/19/22 18:04

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acenaphthene	0.0784	U	0.0713	0.0652	90.9	82.3	1	14.0-127			8.94	27
Anthracene	0.0784	U	0.0820	0.0728	105	91.9	1	10.0-145			11.9	30
Benzo(a)anthracene	0.0784	U	0.0858	0.0773	109	97.6	1	10.0-139			10.4	30
Benzo(b)fluoranthene	0.0784	U	0.0709	0.0633	90.4	79.9	1	10.0-140			11.3	36
Benzo(k)fluoranthene	0.0784	U	0.0671	0.0614	85.6	77.5	1	10.0-137			8.87	31
Benzo(a)pyrene	0.0784	U	0.0802	0.0720	102	90.9	1	10.0-141			10.8	31
Chrysene	0.0784	U	0.0869	0.0748	111	94.4	1	10.0-145			15.0	30
Dibenz(a,h)anthracene	0.0784	U	0.0644	0.0604	82.1	76.3	1	10.0-132			6.41	31
Fluoranthene	0.0784	U	0.100	0.0831	128	105	1	10.0-153			18.5	33
Fluorene	0.0784	U	0.0708	0.0658	90.3	83.1	1	11.0-130			7.32	29
Indeno(1,2,3-cd)pyrene	0.0784	U	0.0710	0.0646	90.6	81.6	1	10.0-137			9.44	32
1-Methylnaphthalene	0.0784	U	0.0688	0.0637	87.8	80.4	1	10.0-142			7.70	28
2-Methylnaphthalene	0.0784	U	0.0709	0.0653	90.4	82.4	1	10.0-137			8.22	28
Naphthalene	0.0784	U	0.0702	0.0644	89.5	81.3	1	10.0-135			8.62	27
Pyrene	0.0784	U	0.0944	0.0815	120	103	1	10.0-148			14.7	35
(S) p-Terphenyl-d14					94.1	100		23.0-120				
(S) Nitrobenzene-d5					109	112		14.0-149				
(S) 2-Fluorobiphenyl					97.8	104		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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.

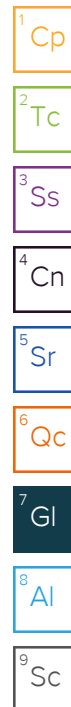
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.



ACCREDITATIONS & LOCATIONS

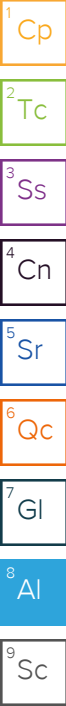
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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	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.



[illegible]

Scout Energy - Rangely, CO

Sample Delivery Group: L1544043
Samples Received: 10/07/2022
Project Number:
Description: Carney 35x34 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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¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

SAMPLE SUMMARY

CAR35X34-SS1 (0-1') L1544043-01 Solid

Collected by
Byron Abeyta

Collected date/time
10/06/22 11:00

Received date/time
10/07/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1940413	1	10/12/22 16:22	10/12/22 16:22	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1939661	1	10/11/22 17:49	10/13/22 01:08	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1939595	1	10/12/22 14:00	10/12/22 16:00	NTG	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1940643	1	10/11/22 09:40	10/11/22 15:00	NTG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1940019	1	10/10/22 16:12	10/11/22 00:07	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1939699	1	10/09/22 13:04	10/13/22 23:41	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1940024	5	10/11/22 14:07	10/11/22 17:59	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1939584	1	10/07/22 22:44	10/08/22 23:36	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1940218	1	10/07/22 22:44	10/10/22 13:29	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1939702	1	10/09/22 13:13	10/11/22 10:47	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1939706	1	10/10/22 04:48	10/10/22 17:48	JRM	Mt. Juliet, TN



CAR35X34-SS2 (0-1') L1544043-02 Solid

Collected by
Byron Abeyta

Collected date/time
10/06/22 10:50

Received date/time
10/07/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1940413	1	10/12/22 16:25	10/12/22 16:25	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1939661	1	10/11/22 17:49	10/13/22 01:13	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1939595	1	10/12/22 14:00	10/12/22 16:00	NTG	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1940643	1	10/11/22 09:40	10/11/22 15:00	NTG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1940019	1	10/10/22 16:12	10/11/22 00:10	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1939699	1	10/09/22 13:04	10/13/22 23:44	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1940024	5	10/11/22 14:07	10/11/22 18:03	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1939584	1	10/07/22 22:44	10/08/22 23:59	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1940218	1	10/07/22 22:44	10/10/22 13:48	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1939702	1	10/09/22 13:13	10/10/22 20:10	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1939706	1	10/10/22 04:48	10/10/22 19:32	JRM	Mt. Juliet, TN

CAR35X34-SS3 (0-1') L1544043-03 Solid

Collected by
Byron Abeyta

Collected date/time
10/06/22 11:15

Received date/time
10/07/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1940413	1	10/12/22 16:28	10/12/22 16:28	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1939661	1	10/11/22 17:49	10/13/22 01:18	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1939595	1	10/12/22 14:00	10/12/22 16:00	NTG	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1940643	1	10/11/22 09:40	10/11/22 15:00	NTG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1940019	1	10/10/22 16:12	10/11/22 00:13	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1939699	1	10/09/22 13:04	10/13/22 23:48	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1940024	5	10/11/22 14:07	10/11/22 18:06	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1939750	1	10/07/22 22:44	10/09/22 18:44	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1940218	1.01	10/07/22 22:44	10/10/22 14:07	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1939702	1	10/09/22 13:13	10/10/22 20:23	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1939706	1	10/10/22 04:48	10/10/22 18:05	JRM	Mt. Juliet, TN

CAR35X34-SS4 (0-1') L1544043-04 Solid

Collected by
Byron Abeyta

Collected date/time
10/06/22 11:30

Received date/time
10/07/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1940413	1	10/12/22 16:30	10/12/22 16:30	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1939670	1	10/11/22 16:14	10/12/22 16:26	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1939595	1	10/12/22 14:00	10/12/22 16:00	NTG	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1940643	1	10/11/22 09:40	10/11/22 15:00	NTG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1940019	1	10/10/22 16:12	10/11/22 00:22	CCE	Mt. Juliet, TN

SAMPLE SUMMARY

CAR35X34-SS4 (0-1') L1544043-04 Solid

Collected by
Byron Abeyta

Collected date/time
10/06/22 11:30

Received date/time
10/07/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1939699	1	10/09/22 13:04	10/13/22 23:50	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1940024	5	10/11/22 14:07	10/11/22 18:09	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1939750	1	10/07/22 22:44	10/09/22 19:37	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1940218	1.01	10/07/22 22:44	10/10/22 14:26	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1939702	1	10/09/22 13:13	10/11/22 11:21	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1939706	1	10/10/22 04:48	10/10/22 20:23	JRM	Mt. Juliet, TN

CAR35X34-BG1 (0-1') L1544043-05 Solid

Collected by
Byron Abeyta

Collected date/time
10/06/22 10:30

Received date/time
10/07/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1940413	1	10/12/22 16:33	10/12/22 16:33	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1939595	1	10/12/22 14:00	10/12/22 16:00	NTG	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1940643	1	10/11/22 09:40	10/11/22 15:00	NTG	Mt. Juliet, TN

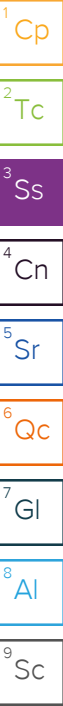
CAR35X34-BG2 (0-1') L1544043-06 Solid

Collected by
Byron Abeyta

Collected date/time
10/06/22 10:35

Received date/time
10/07/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1940413	1	10/12/22 16:36	10/12/22 16:36	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1939595	1	10/12/22 14:00	10/12/22 16:00	NTG	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1940643	1	10/11/22 09:40	10/11/22 15:00	NTG	Mt. Juliet, TN

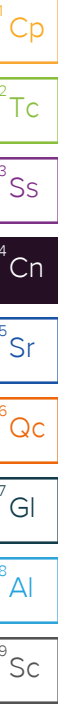


CASE NARRATIVE

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



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.89		1	10/12/2022 16:22	WG1940413

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	10/13/2022 01:08	WG1939661

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.81	T8	1	10/12/2022 16:00	WG1939595

Sample Narrative:

L1544043-01 WG1939595: 7.81 at 21.2C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	3780		10.0	1	10/11/2022 15:00	WG1940643

Sample Narrative:

L1544043-01 WG1940643: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	118		0.0852	0.500	1	10/11/2022 00:07	WG1940019
Cadmium	0.345	J	0.0471	0.500	1	10/11/2022 00:07	WG1940019
Copper	13.0		0.400	2.00	1	10/11/2022 00:07	WG1940019
Lead	14.7		0.208	0.500	1	10/11/2022 00:07	WG1940019
Nickel	17.3		0.132	2.00	1	10/11/2022 00:07	WG1940019
Selenium	1.04	J	0.764	2.00	1	10/11/2022 00:07	WG1940019
Silver	U		0.127	1.00	1	10/11/2022 00:07	WG1940019
Zinc	61.8		0.832	5.00	1	10/11/2022 00:07	WG1940019

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	0.755		0.0167	0.200	1	10/13/2022 23:41	WG1939699

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.43		0.100	1.00	5	10/11/2022 17:59	WG1940024

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	0.112		0.0217	0.100	1	10/08/2022 23:36	WG1939584
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	85.9			77.0-120		10/08/2022 23:36	WG1939584

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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	10/10/2022 13:29	WG1940218
Toluene	U		0.00130	0.00500	1	10/10/2022 13:29	WG1940218
Ethylbenzene	U		0.000737	0.00250	1	10/10/2022 13:29	WG1940218
Xylenes, Total	U		0.000880	0.00650	1	10/10/2022 13:29	WG1940218
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	10/10/2022 13:29	WG1940218
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	10/10/2022 13:29	WG1940218
(S) Toluene-d8	109			75.0-131		10/10/2022 13:29	WG1940218
(S) 4-Bromofluorobenzene	97.2			67.0-138		10/10/2022 13:29	WG1940218
(S) 1,2-Dichloroethane-d4	88.6			70.0-130		10/10/2022 13:29	WG1940218

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	10/11/2022 10:47	WG1939702
C28-C36 Motor Oil Range	3.90	B J	0.274	4.00	1	10/11/2022 10:47	WG1939702
(S) o-Terphenyl	33.9			18.0-148		10/11/2022 10:47	WG1939702

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	10/10/2022 17:48	WG1939706
Anthracene	U		0.00230	0.00600	1	10/10/2022 17:48	WG1939706
Benzo(a)anthracene	U		0.00173	0.00600	1	10/10/2022 17:48	WG1939706
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/10/2022 17:48	WG1939706
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/10/2022 17:48	WG1939706
Benzo(a)pyrene	U		0.00179	0.00600	1	10/10/2022 17:48	WG1939706
Chrysene	U		0.00232	0.00600	1	10/10/2022 17:48	WG1939706
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/10/2022 17:48	WG1939706
Fluoranthene	U		0.00227	0.00600	1	10/10/2022 17:48	WG1939706
Fluorene	U		0.00205	0.00600	1	10/10/2022 17:48	WG1939706
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/10/2022 17:48	WG1939706
1-Methylnaphthalene	U		0.00449	0.0200	1	10/10/2022 17:48	WG1939706
2-Methylnaphthalene	U		0.00427	0.0200	1	10/10/2022 17:48	WG1939706
Naphthalene	0.0116	J	0.00408	0.0200	1	10/10/2022 17:48	WG1939706
Pyrene	U		0.00200	0.00600	1	10/10/2022 17:48	WG1939706
(S) p-Terphenyl-d14	67.7			23.0-120		10/10/2022 17:48	WG1939706
(S) Nitrobenzene-d5	95.6			14.0-149		10/10/2022 17:48	WG1939706
(S) 2-Fluorobiphenyl	73.9			34.0-125		10/10/2022 17:48	WG1939706

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	2.90		1	10/12/2022 16:25	WG1940413

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	10/13/2022 01:13	WG1939661

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.94	T8	1	10/12/2022 16:00	WG1939595

Sample Narrative:

L1544043-02 WG1939595: 7.94 at 21.3C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	3170		10.0	1	10/11/2022 15:00	WG1940643

Sample Narrative:

L1544043-02 WG1940643: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	92.4		0.0852	0.500	1	10/11/2022 00:10	WG1940019
Cadmium	0.242	J	0.0471	0.500	1	10/11/2022 00:10	WG1940019
Copper	8.52		0.400	2.00	1	10/11/2022 00:10	WG1940019
Lead	7.55		0.208	0.500	1	10/11/2022 00:10	WG1940019
Nickel	8.80		0.132	2.00	1	10/11/2022 00:10	WG1940019
Selenium	U		0.764	2.00	1	10/11/2022 00:10	WG1940019
Silver	U		0.127	1.00	1	10/11/2022 00:10	WG1940019
Zinc	31.0		0.832	5.00	1	10/11/2022 00:10	WG1940019

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	0.335		0.0167	0.200	1	10/13/2022 23:44	WG1939699

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.35		0.100	1.00	5	10/11/2022 18:03	WG1940024

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	0.0744	J	0.0217	0.100	1	10/08/2022 23:59	WG1939584
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	86.9			77.0-120		10/08/2022 23:59	WG1939584

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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	10/10/2022 13:48	WG1940218
Toluene	U		0.00130	0.00500	1	10/10/2022 13:48	WG1940218
Ethylbenzene	U		0.000737	0.00250	1	10/10/2022 13:48	WG1940218
Xylenes, Total	U		0.000880	0.00650	1	10/10/2022 13:48	WG1940218
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	10/10/2022 13:48	WG1940218
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	10/10/2022 13:48	WG1940218
(S) Toluene-d8	111			75.0-131		10/10/2022 13:48	WG1940218
(S) 4-Bromofluorobenzene	98.7			67.0-138		10/10/2022 13:48	WG1940218
(S) 1,2-Dichloroethane-d4	92.9			70.0-130		10/10/2022 13:48	WG1940218

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	4.42		1.61	4.00	1	10/10/2022 20:10	WG1939702
C28-C36 Motor Oil Range	11.5		0.274	4.00	1	10/10/2022 20:10	WG1939702
(S) o-Terphenyl	70.1			18.0-148		10/10/2022 20:10	WG1939702

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	10/10/2022 19:32	WG1939706
Anthracene	U		0.00230	0.00600	1	10/10/2022 19:32	WG1939706
Benzo(a)anthracene	U		0.00173	0.00600	1	10/10/2022 19:32	WG1939706
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/10/2022 19:32	WG1939706
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/10/2022 19:32	WG1939706
Benzo(a)pyrene	U		0.00179	0.00600	1	10/10/2022 19:32	WG1939706
Chrysene	U		0.00232	0.00600	1	10/10/2022 19:32	WG1939706
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/10/2022 19:32	WG1939706
Fluoranthene	U		0.00227	0.00600	1	10/10/2022 19:32	WG1939706
Fluorene	U		0.00205	0.00600	1	10/10/2022 19:32	WG1939706
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/10/2022 19:32	WG1939706
1-Methylnaphthalene	U		0.00449	0.0200	1	10/10/2022 19:32	WG1939706
2-Methylnaphthalene	U		0.00427	0.0200	1	10/10/2022 19:32	WG1939706
Naphthalene	U		0.00408	0.0200	1	10/10/2022 19:32	WG1939706
Pyrene	U		0.00200	0.00600	1	10/10/2022 19:32	WG1939706
(S) p-Terphenyl-d14	91.6			23.0-120		10/10/2022 19:32	WG1939706
(S) Nitrobenzene-d5	101			14.0-149		10/10/2022 19:32	WG1939706
(S) 2-Fluorobiphenyl	97.6			34.0-125		10/10/2022 19:32	WG1939706

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	10.1		1	10/12/2022 16:28	WG1940413

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	10/13/2022 01:18	WG1939661

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.77	T8	1	10/12/2022 16:00	WG1939595

Sample Narrative:

L1544043-03 WG1939595: 7.77 at 21.2C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	8210		10.0	1	10/11/2022 15:00	WG1940643

Sample Narrative:

L1544043-03 WG1940643: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	130		0.0852	0.500	1	10/11/2022 00:13	WG1940019
Cadmium	0.734		0.0471	0.500	1	10/11/2022 00:13	WG1940019
Copper	13.6		0.400	2.00	1	10/11/2022 00:13	WG1940019
Lead	14.6		0.208	0.500	1	10/11/2022 00:13	WG1940019
Nickel	16.2		0.132	2.00	1	10/11/2022 00:13	WG1940019
Selenium	U		0.764	2.00	1	10/11/2022 00:13	WG1940019
Silver	U		0.127	1.00	1	10/11/2022 00:13	WG1940019
Zinc	67.2		0.832	5.00	1	10/11/2022 00:13	WG1940019

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	1.59		0.0167	0.200	1	10/13/2022 23:48	WG1939699

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.38		0.100	1.00	5	10/11/2022 18:06	WG1940024

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	0.140		0.0217	0.100	1	10/09/2022 18:44	WG1939750
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	86.3			77.0-120		10/09/2022 18:44	WG1939750

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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		0.000472	0.00101	1.01	10/10/2022 14:07	WG1940218
Toluene	U		0.00131	0.00505	1.01	10/10/2022 14:07	WG1940218
Ethylbenzene	U		0.000744	0.00253	1.01	10/10/2022 14:07	WG1940218
Xylenes, Total	U		0.000889	0.00656	1.01	10/10/2022 14:07	WG1940218
1,2,4-Trimethylbenzene	U		0.00160	0.00505	1.01	10/10/2022 14:07	WG1940218
1,3,5-Trimethylbenzene	U		0.00202	0.00505	1.01	10/10/2022 14:07	WG1940218
(S) Toluene-d8	109			75.0-131		10/10/2022 14:07	WG1940218
(S) 4-Bromofluorobenzene	98.2			67.0-138		10/10/2022 14:07	WG1940218
(S) 1,2-Dichloroethane-d4	82.0			70.0-130		10/10/2022 14:07	WG1940218

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	10.0		1.61	4.00	1	10/10/2022 20:23	WG1939702
C28-C36 Motor Oil Range	29.4		0.274	4.00	1	10/10/2022 20:23	WG1939702
(S) o-Terphenyl	66.6			18.0-148		10/10/2022 20:23	WG1939702

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	10/10/2022 18:05	WG1939706
Anthracene	U		0.00230	0.00600	1	10/10/2022 18:05	WG1939706
Benzo(a)anthracene	0.00175	U	0.00173	0.00600	1	10/10/2022 18:05	WG1939706
Benzo(b)fluoranthene	0.00216	U	0.00153	0.00600	1	10/10/2022 18:05	WG1939706
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/10/2022 18:05	WG1939706
Benzo(a)pyrene	U		0.00179	0.00600	1	10/10/2022 18:05	WG1939706
Chrysene	U		0.00232	0.00600	1	10/10/2022 18:05	WG1939706
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/10/2022 18:05	WG1939706
Fluoranthene	0.00441	U	0.00227	0.00600	1	10/10/2022 18:05	WG1939706
Fluorene	U		0.00205	0.00600	1	10/10/2022 18:05	WG1939706
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/10/2022 18:05	WG1939706
1-Methylnaphthalene	U		0.00449	0.0200	1	10/10/2022 18:05	WG1939706
2-Methylnaphthalene	U		0.00427	0.0200	1	10/10/2022 18:05	WG1939706
Naphthalene	U		0.00408	0.0200	1	10/10/2022 18:05	WG1939706
Pyrene	0.00351	U	0.00200	0.00600	1	10/10/2022 18:05	WG1939706
(S) p-Terphenyl-d14	80.0			23.0-120		10/10/2022 18:05	WG1939706
(S) Nitrobenzene-d5	87.2			14.0-149		10/10/2022 18:05	WG1939706
(S) 2-Fluorobiphenyl	85.2			34.0-125		10/10/2022 18:05	WG1939706

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	3.38		1	10/12/2022 16:30	WG1940413

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	10/12/2022 16:26	WG1939670

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.38	T8	1	10/12/2022 16:00	WG1939595

Sample Narrative:

L1544043-04 WG1939595: 8.38 at 21.1C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	613		10.0	1	10/11/2022 15:00	WG1940643

Sample Narrative:

L1544043-04 WG1940643: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	254		0.0852	0.500	1	10/11/2022 00:22	WG1940019
Cadmium	0.400	J	0.0471	0.500	1	10/11/2022 00:22	WG1940019
Copper	16.0		0.400	2.00	1	10/11/2022 00:22	WG1940019
Lead	18.6		0.208	0.500	1	10/11/2022 00:22	WG1940019
Nickel	17.2		0.132	2.00	1	10/11/2022 00:22	WG1940019
Selenium	1.25	J	0.764	2.00	1	10/11/2022 00:22	WG1940019
Silver	U		0.127	1.00	1	10/11/2022 00:22	WG1940019
Zinc	69.4		0.832	5.00	1	10/11/2022 00:22	WG1940019

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	0.903		0.0167	0.200	1	10/13/2022 23:50	WG1939699

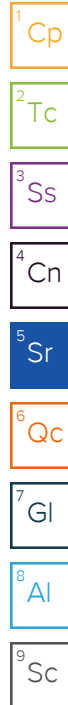
Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.15		0.100	1.00	5	10/11/2022 18:09	WG1940024

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	0.135		0.0217	0.100	1	10/09/2022 19:37	WG1939750
(S) a,a,a-Trifluorotoluene(FID)	168	J1		77.0-120		10/09/2022 19:37	WG1939750

Sample Narrative:



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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
L1544043-04 WG1939750: Surrogate failure due to matrix interference.							

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

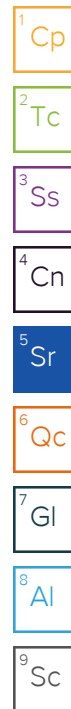
Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000472	0.00101	1.01	10/10/2022 14:26	WG1940218
Toluene	U		0.00131	0.00505	1.01	10/10/2022 14:26	WG1940218
Ethylbenzene	U		0.000744	0.00253	1.01	10/10/2022 14:26	WG1940218
Xylenes, Total	U		0.000889	0.00656	1.01	10/10/2022 14:26	WG1940218
1,2,4-Trimethylbenzene	U		0.00160	0.00505	1.01	10/10/2022 14:26	WG1940218
1,3,5-Trimethylbenzene	U		0.00202	0.00505	1.01	10/10/2022 14:26	WG1940218
(S) Toluene-d8	111			75.0-131		10/10/2022 14:26	WG1940218
(S) 4-Bromofluorobenzene	97.8			67.0-138		10/10/2022 14:26	WG1940218
(S) 1,2-Dichloroethane-d4	81.3			70.0-130		10/10/2022 14:26	WG1940218

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	22.6		1.61	4.00	1	10/11/2022 11:21	WG1939702
C28-C36 Motor Oil Range	89.9		0.274	4.00	1	10/11/2022 11:21	WG1939702
(S) o-Terphenyl	50.6			18.0-148		10/11/2022 11:21	WG1939702

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	10/10/2022 20:23	WG1939706
Anthracene	U		0.00230	0.00600	1	10/10/2022 20:23	WG1939706
Benzo(a)anthracene	U		0.00173	0.00600	1	10/10/2022 20:23	WG1939706
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/10/2022 20:23	WG1939706
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/10/2022 20:23	WG1939706
Benzo(a)pyrene	U		0.00179	0.00600	1	10/10/2022 20:23	WG1939706
Chrysene	U		0.00232	0.00600	1	10/10/2022 20:23	WG1939706
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/10/2022 20:23	WG1939706
Fluoranthene	U		0.00227	0.00600	1	10/10/2022 20:23	WG1939706
Fluorene	U		0.00205	0.00600	1	10/10/2022 20:23	WG1939706
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/10/2022 20:23	WG1939706
1-Methylnaphthalene	U		0.00449	0.0200	1	10/10/2022 20:23	WG1939706
2-Methylnaphthalene	U		0.00427	0.0200	1	10/10/2022 20:23	WG1939706
Naphthalene	U		0.00408	0.0200	1	10/10/2022 20:23	WG1939706
Pyrene	U		0.00200	0.00600	1	10/10/2022 20:23	WG1939706
(S) p-Terphenyl-d14	75.7			23.0-120		10/10/2022 20:23	WG1939706
(S) Nitrobenzene-d5	79.8			14.0-149		10/10/2022 20:23	WG1939706
(S) 2-Fluorobiphenyl	79.4			34.0-125		10/10/2022 20:23	WG1939706



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.529		1	10/12/2022 16:33	WG1940413

¹Cp

²Tc

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.39	T8	1	10/12/2022 16:00	WG1939595

³Ss

⁴Cn

Sample Narrative:
L1544043-05 WG1939595: 8.39 at 21C

⁵Sr

Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	241		10.0	1	10/11/2022 15:00	WG1940643

⁶Qc

⁷Gl

Sample Narrative:
L1544043-05 WG1940643: at 25C

⁸Al

⁹Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.101		1	10/12/2022 16:36	WG1940413

1
Cp

2
Tc

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.72	T8	1	10/12/2022 16:00	WG1939595

3
Ss

4
Cn

Sample Narrative:

L1544043-06 WG1939595: 7.72 at 21.6C

5
Sr

Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	2350		10.0	1	10/11/2022 15:00	WG1940643

6
Qc

7
Gl

Sample Narrative:

L1544043-06 WG1940643: at 25C

8
Al

9
Sc

Method Blank (MB)

(MB) R3851433-1 10/12/22 22:03

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

L1543554-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1543554-01 10/12/22 22:48 • (DUP) R3851433-3 10/12/22 22:55

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	1.39	1.43	1	3.17		20

L1543645-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1543645-06 10/13/22 00:36 • (DUP) R3851433-13 10/13/22 00:41

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

Laboratory Control Sample (LCS)

(LCS) R3851433-2 10/12/22 22:10

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	9.25	92.5	80.0-120	

L1543636-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1543636-01 10/12/22 23:06 • (MS) R3851433-12 10/12/22 23:26

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	636	U	554	87.2	50	75.0-125	

Sample Narrative:

OS: Sample is an oxidizer.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1543636-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1543636-01 10/12/22 23:06 • (MS) R3851433-6 10/12/22 23:11 • (MSD) R3851433-7 10/12/22 23:16

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	14.9	10.4	74.7	51.8	1	75.0-125	J6	J3 J6	36.3	20

Sample Narrative:

OS: Sample is an oxidizer.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3847374-1 10/12/22 01:39

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	0.343	⬇	0.255	1.00

L1541942-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1541942-01 10/12/22 02:31 • (DUP) R3847374-3 10/12/22 02:37

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

L1541969-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1541969-02 10/12/22 03:52 • (DUP) R3847374-4 10/12/22 03:57

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

Laboratory Control Sample (LCS)

(LCS) R3847374-2 10/12/22 01:58

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	11.1	111	80.0-120	

L1543807-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1543807-01 10/12/22 04:23 • (MS) R3847374-6 10/12/22 04:33 • (MSD) R3847374-7 10/12/22 04:38

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	U	18.9	19.1	94.7	95.7	1	75.0-125			1.08	20

L1543807-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1543807-01 10/12/22 04:23 • (MS) R3847374-8 10/12/22 04:44

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	648	U	737	114	50	75.0-125	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1543636-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1543636-01 10/12/22 16:00 • (DUP) R3847741-2 10/12/22 16:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	pH	su		%		%
pH	8.22	8.25	1	0.364		1

Sample Narrative:

OS: 8.22 at 21.6C
DUP: 8.25 at 21.5C

L1544043-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1544043-02 10/12/22 16:00 • (DUP) R3847741-3 10/12/22 16:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	7.94	7.95	1	0.126		1

Sample Narrative:

OS: 7.94 at 21.3C
DUP: 7.95 at 21.2C

Laboratory Control Sample (LCS)

(LCS) R3847741-1 10/12/22 16:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	su	%	%	
pH	10.0	9.90	99.0	99.0-101	

Sample Narrative:

LCS: 9.9 at 21.2C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3847163-1 10/11/22 15:00

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

L1541823-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1541823-06 10/11/22 15:00 • (DUP) R3847163-3 10/11/22 15:00

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	108	106	1	1.68		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1544043-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1544043-06 10/11/22 15:00 • (DUP) R3847163-4 10/11/22 15:00

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	2350	2350	1	0.341		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3847163-2 10/11/22 15:00

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	1120	1080	96.1	85.0-115	

Sample Narrative:

LCS: at 25C

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3846863-1 10/10/22 23:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	0.318	⌵	0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Laboratory Control Sample (LCS)

(LCS) R3846863-2 10/10/22 23:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	94.8	94.8	80.0-120	
Cadmium	100	96.7	96.7	80.0-120	
Copper	100	97.1	97.1	80.0-120	
Lead	100	90.4	90.4	80.0-120	
Nickel	100	95.2	95.2	80.0-120	
Selenium	100	90.1	90.1	80.0-120	
Silver	20.0	18.2	90.9	80.0-120	
Zinc	100	93.2	93.2	80.0-120	

L1543535-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1543535-01 10/10/22 23:19 • (MS) R3846863-5 10/10/22 23:28 • (MSD) R3846863-6 10/10/22 23:31

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 %
Barium	100	221	311	310	90.1	89.3	1	75.0-125			0.269	20
Cadmium	100	0.190	92.3	102	92.1	102	1	75.0-125			9.97	20
Copper	100	9.66	105	113	95.3	103	1	75.0-125			7.51	20
Lead	100	10.0	95.9	106	85.9	95.9	1	75.0-125			9.92	20
Nickel	100	11.7	104	112	92.0	101	1	75.0-125			8.12	20
Selenium	100	U	83.2	93.0	83.2	93.0	1	75.0-125			11.1	20
Silver	20.0	U	18.1	19.7	90.3	98.7	1	75.0-125			8.98	20
Zinc	100	33.8	120	127	86.1	93.5	1	75.0-125			5.95	20

Method Blank (MB)

(MB) R3848335-1 10/13/22 23:59

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) R3848335-2 10/14/22 00:01 • (LCSD) R3848335-3 10/14/22 00:04

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	0.989	0.980	98.9	98.0	80.0-120			0.862	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3847292-1 10/11/22 17:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3847292-2 10/11/22 17:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	106	106	80.0-120	

L1543535-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1543535-01 10/11/22 17:09 • (MS) R3847292-5 10/11/22 17:18 • (MSD) R3847292-6 10/11/22 17:22

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	2.48	89.2	109	86.8	106	5	75.0-125			19.7	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3847543-2 10/08/22 17:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	88.5			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3847543-1 10/08/22 15:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.87	88.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			98.6	77.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3847497-2 10/09/22 18:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	88.7			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3847497-1 10/09/22 17:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.58	83.3	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			96.0	77.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3847598-2 10/10/22 10:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL 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	111			75.0-131
(S) 4-Bromofluorobenzene	99.2			67.0-138
(S) 1,2-Dichloroethane-d4	79.1			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3847598-1 10/10/22 10:02

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.131	105	70.0-123	
Toluene	0.125	0.148	118	75.0-121	
Ethylbenzene	0.125	0.150	120	74.0-126	
Xylenes, Total	0.375	0.438	117	72.0-127	
1,2,4-Trimethylbenzene	0.125	0.153	122	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.125	100	73.0-127	
(S) Toluene-d8			109	75.0-131	
(S) 4-Bromofluorobenzene			101	67.0-138	
(S) 1,2-Dichloroethane-d4			92.8	70.0-130	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3847151-1 10/10/22 17:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	0.542	⬇	0.274	4.00
(S) o-Terphenyl	96.1			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3847151-2 10/10/22 17:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	42.9	85.8	50.0-150	
(S) o-Terphenyl			95.5	18.0-148	

L1543501-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1543501-19 10/10/22 17:28 • (MS) R3847151-3 10/10/22 17:41 • (MSD) R3847151-4 10/10/22 17:55

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 %
C10-C28 Diesel Range	50.0	127	179	172	104	90.0	5	50.0-150			3.99	20
(S) o-Terphenyl					72.4	63.8		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3847026-2 10/10/22 14:03

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	97.8			23.0-120
(S) Nitrobenzene-d5	103			14.0-149
(S) 2-Fluorobiphenyl	100			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3847026-1 10/10/22 13:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0800	0.0823	103	50.0-120	
Anthracene	0.0800	0.0816	102	50.0-126	
Benzo(a)anthracene	0.0800	0.0860	108	45.0-120	
Benzo(b)fluoranthene	0.0800	0.0776	97.0	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0765	95.6	49.0-125	
Benzo(a)pyrene	0.0800	0.0791	98.9	42.0-120	
Chrysene	0.0800	0.0846	106	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0779	97.4	47.0-125	
Fluoranthene	0.0800	0.0873	109	49.0-129	
Fluorene	0.0800	0.0859	107	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0835	104	46.0-125	
1-Methylnaphthalene	0.0800	0.0777	97.1	51.0-121	
2-Methylnaphthalene	0.0800	0.0808	101	50.0-120	
Naphthalene	0.0800	0.0764	95.5	50.0-120	
Pyrene	0.0800	0.0780	97.5	43.0-123	

Laboratory Control Sample (LCS)

(LCS) R3847026-1 10/10/22 13:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
(S) p-Terphenyl-d14			90.3	23.0-120	
(S) Nitrobenzene-d5			100	14.0-149	
(S) 2-Fluorobiphenyl			98.8	34.0-125	

L1544029-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1544029-07 10/10/22 18:40 • (MS) R3847026-3 10/10/22 18:57 • (MSD) R3847026-4 10/10/22 19:14

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acenaphthene	0.0752	U	0.0716	0.0725	95.2	95.4	1	14.0-127			1.25	27
Anthracene	0.0752	U	0.0678	0.0712	90.2	93.7	1	10.0-145			4.89	30
Benzo(a)anthracene	0.0752	U	0.0694	0.0721	92.3	94.9	1	10.0-139			3.82	30
Benzo(b)fluoranthene	0.0752	U	0.0658	0.0688	87.5	90.5	1	10.0-140			4.46	36
Benzo(k)fluoranthene	0.0752	U	0.0673	0.0672	89.5	88.4	1	10.0-137			0.149	31
Benzo(a)pyrene	0.0752	U	0.0726	0.0743	96.5	97.8	1	10.0-141			2.31	31
Chrysene	0.0752	U	0.0725	0.0743	96.4	97.8	1	10.0-145			2.45	30
Dibenz(a,h)anthracene	0.0752	U	0.0665	0.0688	88.4	90.5	1	10.0-132			3.40	31
Fluoranthene	0.0752	U	0.0730	0.0753	97.1	99.1	1	10.0-153			3.10	33
Fluorene	0.0752	U	0.0734	0.0751	97.6	98.8	1	11.0-130			2.29	29
Indeno(1,2,3-cd)pyrene	0.0752	U	0.0700	0.0714	93.1	93.9	1	10.0-137			1.98	32
1-Methylnaphthalene	0.0752	U	0.0681	0.0689	90.6	90.7	1	10.0-142			1.17	28
2-Methylnaphthalene	0.0752	U	0.0702	0.0721	93.4	94.9	1	10.0-137			2.67	28
Naphthalene	0.0752	U	0.0676	0.0684	89.9	90.0	1	10.0-135			1.18	27
Pyrene	0.0752	U	0.0688	0.0708	91.5	93.2	1	10.0-148			2.87	35
(S) p-Terphenyl-d14					88.1	88.1		23.0-120				
(S) Nitrobenzene-d5					97.1	95.7		14.0-149				
(S) 2-Fluorobiphenyl					95.2	93.7		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

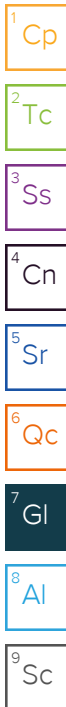
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
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.



ACCREDITATIONS & LOCATIONS

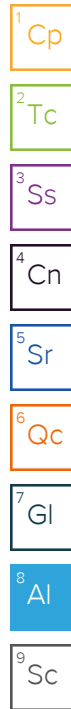
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122



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:				Pres Chk		Analysis / Container / Preservative								Chain of Custody Page ____ of ____	
				Same as left															
Report to: Chris Patterson				Email To: chris.patterson@scoutep.com														 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 	
Project Description: Carney 35x34 Spill				City/State Collected: CO															
Phone: 1-970-501-5157		Client Project #		Lab Project #															
Fax:																			
Collected by (print): Byron Abeyta		Site/Facility ID #		P.O. #														L# 1544043 F192 Acctnum: SCOENERCO Template: Prelogin: TSR: PB: Shipped Via:	
Collected by (signature): Byron Abeyta		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input checked="" type="checkbox"/> Three Day		Quote #															
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>				Date Results Needed															
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	EC/SAR/pH				
CAR35x34-SS1 (0-1')	Grab	SS	0-1'	10/6/22	1100	3	3	X	X	X	X	X	X	X	X		21		
CAR35x34-SS2 (0-1')	Grab	SS	0-1'	10/6/22	1050	3	3	X	X	X	X	X	X	X	X		22		
CAR35x34-SS3 (0-1')	Grab	SS	0-1'	10/6/22	1115	3	3	X	X	X	X	X	X	X	X		23		
CAR35x34-SS4 (0-1')	Grab	SS	0-1'	10/6/22	1130	3	3	X	X	X	X	X	X	X	X		24		
CAR35x34-BG1 (0-1')	Grab	SS	0-1'	10/6/22	1030	1	1								X		25		
CAR35x34-BG2 (0-1')	Grab	SS	0-1'	10/6/22	1035	1	1								X		26		
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: Please run for COGCC Protection of GW low level standards.				pH _____ Temp _____ Flow _____ Other _____				Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> NP Y N COC Signed/Accurate: <input checked="" type="checkbox"/> Y N Bottles arrive intact: <input checked="" type="checkbox"/> Y N Correct bottles used: <input checked="" type="checkbox"/> Y N Sufficient volume sent: <input checked="" type="checkbox"/> Y N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y N									
Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier		Tracking #																	
Relinquished by: (Signature) <i>Byron Abeyta</i>		Date: 10/6/22	Time: 1645	Received by: (Signature) <i>[Signature]</i>		Trip Blank Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> HCL / MeOH TBR													
Relinquished by: (Signature) <i>[Signature]</i>		Date: 10/6/22	Time: 1715	Received by: (Signature) <i>[Signature]</i>		Temp <i>25.7</i> °C Bottles Received: <i>14</i> <i>0.6+0.6=0.6</i>		If preservation required by Login: Date/Time											
Relinquished by: (Signature) <i>[Signature]</i>		Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>		Date: 10/6/22 Time: 900		Hold:		Condition: NCF / OK									

October 31, 2022

Scout Energy - Rangely, CO

Sample Delivery Group: L1545292
Samples Received: 10/12/2022
Project Number:
Description: Carney 35 X 34
Site: CARNEY 35X34
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 National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
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Gl: Glossary of Terms	6	
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		⁷ Al
		⁸ Sc

SAMPLE SUMMARY

CARNEY 35X34-SS1 (0-1) L1545292-01 Solid

Collected by
Entrada

Collected date/time
10/11/22 08:00

Received date/time
10/12/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1946269	1	10/29/22 01:45	10/29/22 01:45	ZSA	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Gl

⁷Al

⁸Sc

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



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.583		1	10/29/2022 01:45	WG1946269

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Gl

⁷Al

⁸Sc

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

SDG	Sample Delivery Group.
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.
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

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122



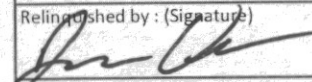
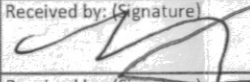
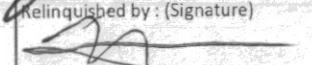

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	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.



Company Name/Address: Scout Energy Partners 13800 Manfort Dr, Suite 100 Dallas, TX 75240				Billing Information: Same as left				Analysis / Container / Preservative				Chain of Custody Page <u> </u> of <u> </u>			
Report to: Chris Patterson				Email To: chris.patterson@scoutep.com				<div style="text-align: center;">  Pace PEOPLE ADVANCING SCIENCE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf </div>				Pres Chk			
Project Description: Carney 35x34				City/State Collected: Rangely, CO		Please Circle: PT <input checked="" type="radio"/> MT <input type="radio"/> CT <input type="radio"/> ET <input type="radio"/>									
Phone: 970-620-3456		Client Project #		Lab Project #		No. of Cntrs									
Collected by (print): Entrada		Site/Facility ID # Carney 35x34		P.O. #		SAR									
Collected by (signature): Entrada		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Quote #											
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>				Date Results Needed STANDARD											
Sample ID				Comp/Grab	Matrix*	Depth	Date	Time							
Carney 35X34 -SS1 (0-1')				Grab	SS	0-1'	10/11/22	8:00	1	X					
 10/11/22															
<div style="display: flex; justify-content: space-between;"> <div> <p>* Matrix:</p> <p>SS - Soil AIR - Air F - Filter</p> <p>GW - Groundwater B - Bioassay</p> <p>WW - WasteWater</p> <p>DW - Drinking Water</p> <p>OT - Other</p> </div> <div> <p>Remarks:</p> <p>Samples returned via: <u> </u> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/></p> <p>Tracking # 5755 8085 0959</p> </div> <div> <p>pH <u> </u> Temp <u> </u></p> <p>Flow <u> </u> Other <u> </u></p> </div> </div>															
Relinquished by: (Signature) 				Date: 10/11/22		Time: 1545		Received by: (Signature) 		Trip Blank Received: Yes/No <input checked="" type="checkbox"/> HCL / MeOH TBR		Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Preservation Correct/Checked: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N			
Relinquished by: (Signature) 				Date: 10/11/22		Time: 1700		Received by: (Signature) 		Temp: °C Bottles Received: 1 3.0+0=3.0					
Relinquished by: (Signature)				Date:		Time:		Received for lab by: (Signature) Bar Patterson		Date: 10-17-22 Time: 09:15		Hold: <u> </u> Condition: <u> </u> NCF <input checked="" type="checkbox"/> OK <input type="checkbox"/>			



10-Apr-2020

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

Re: **Carney 41Y34 Spill**

Work Order: **20040274**

Dear Tim,

ALS Environmental received 5 samples on 03-Apr-2020 09:00 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 38.

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".

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: Carney 41Y34 Spill
Work Order: 20040274

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>
20040274-01	CAR41Y34-SS1	Soil		4/1/2020 09:30	4/3/2020 09:00	<input type="checkbox"/>
20040274-02	CAR41Y34-SS2	Soil		4/1/2020 09:45	4/3/2020 09:00	<input type="checkbox"/>
20040274-03	CAR41Y34-SS3	Soil		4/1/2020 10:00	4/3/2020 09:00	<input type="checkbox"/>
20040274-04	CAR41Y34-SS4	Soil		4/1/2020 10:15	4/3/2020 09:00	<input type="checkbox"/>
20040274-05	CAR41Y34-BG1	Soil		4/1/2020 10:30	4/3/2020 09:00	<input type="checkbox"/>

Client: Entrada Consulting Group**Project:** Carney 41Y34 Spill**Work Order:** 20040274**Case Narrative**

Batch 154361, Method HG_7471_S, Sample LCS-154361: The LCS recovery was above the upper control limit for Mercury. The sample results for this batch may be biased high.

<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
°C	Degrees Celcius
mg/Kg	Milligrams per Kilogram
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	

s.u. Standard Units

ALS Group, USA

Date: 10-Apr-20

Client: Entrada Consulting Group
Project: Carney 41Y34 Spill
Sample ID: CAR41Y34-SS1
Collection Date: 4/1/2020 09:30 AM

Work Order: 20040274
Lab ID: 20040274-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 4/7/20		Analyst: AK
DRO (C10-C28)	9.7	J	3.4	12	mg/Kg-dry	1	4/8/2020 07:16
Surr: 4-Terphenyl-d14	85.8			33-111	%REC	1	4/8/2020 07:16
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 4/6/20		Analyst: RM
GRO (C6-C10)	15		3.0	7.2	mg/Kg	1	4/8/2020 10:53
Surr: Toluene-d8	111			71-123	%REC	1	4/8/2020 10:53
MERCURY BY CVAA							
			Method: SW7471B		Prep: SW7471 / 4/8/20		Analyst: MAC
Mercury	0.027		0.014	0.020	mg/Kg-dry	1	4/9/2020 11:58
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 4/8/20		Analyst: STP
Arsenic	7.4		0.058	0.48	mg/Kg-dry	1	4/8/2020 21:56
Barium	210		4.4	4.8	mg/Kg-dry	10	4/9/2020 16:15
Cadmium	0.22		0.029	0.19	mg/Kg-dry	1	4/8/2020 21:56
Chromium	12		0.21	0.48	mg/Kg-dry	1	4/8/2020 21:56
Copper	13		0.48	0.48	mg/Kg-dry	1	4/8/2020 21:56
Lead	20		0.23	0.48	mg/Kg-dry	1	4/8/2020 21:56
Nickel	17		0.25	0.48	mg/Kg-dry	1	4/8/2020 21:56
Selenium	1.4		0.44	0.48	mg/Kg-dry	1	4/8/2020 21:56
Silver	0.083	J	0.064	0.48	mg/Kg-dry	1	4/8/2020 21:56
Zinc	71		0.94	0.96	mg/Kg-dry	1	4/8/2020 21:56
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 4/9/20		Analyst: STP
Calcium	470		2.5	5.0	mg/L	10	4/9/2020 16:39
Magnesium	44		0.50	2.0	mg/L	10	4/9/2020 16:39
Sodium	55		0.45	2.0	mg/L	10	4/9/2020 16:39
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/9/20		Analyst: STP
Sodium Adsorption Ratio	0.65		0.010	0.010	none	1	4/9/2020
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
			Method: SW846 8270D		Prep: SW3546 / 4/6/20		Analyst: EEW
Acenaphthene	U		0.00095	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Anthracene	U		0.0017	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Benzo(a)anthracene	U		0.0020	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Benzo(a)pyrene	U		0.0013	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Benzo(b)fluoranthene	U		0.0012	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Benzo(k)fluoranthene	U		0.0014	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Chrysene	U		0.0010	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Dibenzo(a,h)anthracene	U		0.0012	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Fluoranthene	U		0.00090	0.0049	mg/Kg-dry	1	4/7/2020 18:33

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

ALS Group, USA

Date: 10-Apr-20

Client: Entrada Consulting Group
Project: Carney 41Y34 Spill
Sample ID: CAR41Y34-SS1
Collection Date: 4/1/2020 09:30 AM

Work Order: 20040274
Lab ID: 20040274-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0016	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Indeno(1,2,3-cd)pyrene	U		0.0018	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Naphthalene	U		0.0021	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Pyrene	U		0.00081	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Surr: 2-Fluorobiphenyl	92.6			20-140	%REC	1	4/7/2020 18:33
Surr: 4-Terphenyl-d14	80.8			22-172	%REC	1	4/7/2020 18:33
Surr: Nitrobenzene-d5	73.5			28-140	%REC	1	4/7/2020 18:33
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 4/6/20		Analyst: SJB
Benzene	U		0.0074	0.043	mg/Kg-dry	1	4/6/2020 23:24
Ethylbenzene	U		0.0091	0.043	mg/Kg-dry	1	4/6/2020 23:24
m,p-Xylene	U		0.058	0.086	mg/Kg-dry	1	4/6/2020 23:24
o-Xylene	U		0.017	0.043	mg/Kg-dry	1	4/6/2020 23:24
Toluene	U		0.012	0.043	mg/Kg-dry	1	4/6/2020 23:24
Xylenes, Total	U		0.058	0.13	mg/Kg-dry	1	4/6/2020 23:24
Surr: 1,2-Dichloroethane-d4	94.4			70-130	%REC	1	4/6/2020 23:24
Surr: 4-Bromofluorobenzene	96.7			70-130	%REC	1	4/6/2020 23:24
Surr: Dibromofluoromethane	96.6			70-130	%REC	1	4/6/2020 23:24
Surr: Toluene-d8	96.0			70-130	%REC	1	4/6/2020 23:24
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/9/20		Analyst: QTN
Electrical Conductivity @ Saturation	3.2		0.011	0.10	mmhos/cm @25°	20	4/9/2020 16:05
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: JZB
Chromium, Trivalent	12		1.0	1.2	mg/Kg-dry	1	4/9/2020 13:03
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 4/7/20		Analyst: RZM
Chromium, Hexavalent	U		1.0	1.2	mg/Kg-dry	1	4/9/2020 12:03
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	17		0.10	0.10	% of sample	1	4/6/2020 11:25
PH			Method: SW9045D		Prep: EXTRACT / 4/3/20		Analyst: DVD
pH	7.96		0.10	0.100	s.u.	1	4/4/2020 08:59
Temperature	19.8		0.10	0.100	°C	1	4/4/2020 08:59

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

ALS Group, USA

Date: 10-Apr-20

Client: Entrada Consulting Group
Project: Carney 41Y34 Spill
Sample ID: CAR41Y34-SS2
Collection Date: 4/1/2020 09:45 AM

Work Order: 20040274
Lab ID: 20040274-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 4/7/20		Analyst: AK
DRO (C10-C28)	9.1	J	3.5	12	mg/Kg-dry	1	4/8/2020 07:55
Surr: 4-Terphenyl-d14	88.2			33-111	%REC	1	4/8/2020 07:55
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 4/6/20		Analyst: RM
GRO (C6-C10)	U		2.7	6.5	mg/Kg	1	4/8/2020 11:16
Surr: Toluene-d8	112			71-123	%REC	1	4/8/2020 11:16
MERCURY BY CVAA							
			Method: SW7471B		Prep: SW7471 / 4/8/20		Analyst: MAC
Mercury	0.032		0.013	0.019	mg/Kg-dry	1	4/9/2020 12:00
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 4/8/20		Analyst: STP
Arsenic	6.0		0.048	0.40	mg/Kg-dry	1	4/8/2020 22:05
Barium	260		3.7	4.0	mg/Kg-dry	10	4/9/2020 16:20
Cadmium	0.22		0.024	0.16	mg/Kg-dry	1	4/8/2020 22:05
Chromium	11		0.18	0.40	mg/Kg-dry	1	4/8/2020 22:05
Copper	14		0.40	0.40	mg/Kg-dry	1	4/8/2020 22:05
Lead	16		0.19	0.40	mg/Kg-dry	1	4/8/2020 22:05
Nickel	15		0.21	0.40	mg/Kg-dry	1	4/8/2020 22:05
Selenium	1.3		0.37	0.40	mg/Kg-dry	1	4/8/2020 22:05
Silver	0.16	J	0.053	0.40	mg/Kg-dry	1	4/8/2020 22:05
Zinc	60		0.79	0.80	mg/Kg-dry	1	4/8/2020 22:05
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 4/9/20		Analyst: STP
Calcium	34		2.5	5.0	mg/L	10	4/9/2020 16:40
Magnesium	6.5		0.50	2.0	mg/L	10	4/9/2020 16:40
Sodium	32		0.45	2.0	mg/L	10	4/9/2020 16:40
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/9/20		Analyst: STP
Sodium Adsorption Ratio	1.3		0.010	0.010	none	1	4/9/2020
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
			Method: SW846 8270D		Prep: SW3546 / 4/6/20		Analyst: EEW
Acenaphthene	U		0.00097	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Anthracene	U		0.0017	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Benzo(a)anthracene	U		0.0021	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Benzo(a)pyrene	U		0.0014	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Benzo(b)fluoranthene	U		0.0012	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Benzo(k)fluoranthene	U		0.0015	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Chrysene	U		0.0010	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Dibenzo(a,h)anthracene	U		0.0012	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Fluoranthene	U		0.00092	0.0050	mg/Kg-dry	1	4/7/2020 18:48

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

ALS Group, USA

Date: 10-Apr-20

Client: Entrada Consulting Group
Project: Carney 41Y34 Spill
Sample ID: CAR41Y34-SS2
Collection Date: 4/1/2020 09:45 AM

Work Order: 20040274
Lab ID: 20040274-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0017	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Indeno(1,2,3-cd)pyrene	U		0.0018	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Naphthalene	U		0.0022	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Pyrene	U		0.00083	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Surr: 2-Fluorobiphenyl	100			20-140	%REC	1	4/7/2020 18:48
Surr: 4-Terphenyl-d14	92.1			22-172	%REC	1	4/7/2020 18:48
Surr: Nitrobenzene-d5	82.8			28-140	%REC	1	4/7/2020 18:48
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 4/6/20		Analyst: SJB
Benzene	U		0.0067	0.039	mg/Kg-dry	1	4/6/2020 23:03
Ethylbenzene	U		0.0082	0.039	mg/Kg-dry	1	4/6/2020 23:03
m,p-Xylene	U		0.052	0.078	mg/Kg-dry	1	4/6/2020 23:03
o-Xylene	U		0.015	0.039	mg/Kg-dry	1	4/6/2020 23:03
Toluene	U		0.011	0.039	mg/Kg-dry	1	4/6/2020 23:03
Xylenes, Total	U		0.052	0.12	mg/Kg-dry	1	4/6/2020 23:03
Surr: 1,2-Dichloroethane-d4	97.6			70-130	%REC	1	4/6/2020 23:03
Surr: 4-Bromofluorobenzene	99.3			70-130	%REC	1	4/6/2020 23:03
Surr: Dibromofluoromethane	102			70-130	%REC	1	4/6/2020 23:03
Surr: Toluene-d8	97.7			70-130	%REC	1	4/6/2020 23:03
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/9/20		Analyst: QTN
Electrical Conductivity @ Saturation	0.36		0.011	0.10	mmhos/cm @25°	20	4/9/2020 16:05
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: JZB
Chromium, Trivalent	9.6		1.0	1.2	mg/Kg-dry	1	4/9/2020 13:03
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 4/7/20		Analyst: RZM
Chromium, Hexavalent	1.1	J	1.0	1.2	mg/Kg-dry	1	4/9/2020 12:03
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	19		0.10	0.10	% of sample	1	4/6/2020 11:25
PH			Method: SW9045D		Prep: EXTRACT / 4/3/20		Analyst: DVD
pH	8.29		0.10	0.100	s.u.	1	4/4/2020 08:59
Temperature	19.8		0.10	0.100	°C	1	4/4/2020 08:59

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

ALS Group, USA

Date: 10-Apr-20

Client: Entrada Consulting Group
Project: Carney 41Y34 Spill
Sample ID: CAR41Y34-SS3
Collection Date: 4/1/2020 10:00 AM

Work Order: 20040274
Lab ID: 20040274-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 4/7/20		Analyst: AK
DRO (C10-C28)	7.1	J	3.3	11	mg/Kg-dry	1	4/8/2020 08:34
Surr: 4-Terphenyl-d14	85.7			33-111	%REC	1	4/8/2020 08:34
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 4/6/20		Analyst: RM
GRO (C6-C10)	U		3.1	7.4	mg/Kg	1	4/8/2020 11:39
Surr: Toluene-d8	106			71-123	%REC	1	4/8/2020 11:39
MERCURY BY CVAA							
			Method: SW7471B		Prep: SW7471 / 4/8/20		Analyst: MAC
Mercury	0.016	J	0.013	0.018	mg/Kg-dry	1	4/9/2020 12:02
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 4/8/20		Analyst: STP
Arsenic	12		0.048	0.40	mg/Kg-dry	1	4/8/2020 22:11
Barium	270		3.7	4.0	mg/Kg-dry	10	4/9/2020 16:21
Cadmium	0.30		0.024	0.16	mg/Kg-dry	1	4/8/2020 22:11
Chromium	9.7		0.18	0.40	mg/Kg-dry	1	4/8/2020 22:11
Copper	14		0.40	0.40	mg/Kg-dry	1	4/8/2020 22:11
Lead	21		0.19	0.40	mg/Kg-dry	1	4/8/2020 22:11
Nickel	19		0.21	0.40	mg/Kg-dry	1	4/8/2020 22:11
Selenium	1.1		0.37	0.40	mg/Kg-dry	1	4/8/2020 22:11
Silver	0.060	J	0.053	0.40	mg/Kg-dry	1	4/8/2020 22:11
Zinc	81		0.79	0.81	mg/Kg-dry	1	4/8/2020 22:11
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 4/9/20		Analyst: STP
Calcium	32		2.5	5.0	mg/L	10	4/9/2020 16:42
Magnesium	7.7		0.50	2.0	mg/L	10	4/9/2020 16:42
Sodium	61		0.45	2.0	mg/L	10	4/9/2020 16:42
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/9/20		Analyst: STP
Sodium Adsorption Ratio	2.5		0.010	0.010	none	1	4/9/2020
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
			Method: SW846 8270D		Prep: SW3546 / 4/8/20		Analyst: EEW
Acenaphthene	U		0.00095	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Anthracene	U		0.0017	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Benzo(a)anthracene	U		0.0020	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Benzo(a)pyrene	U		0.0013	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Benzo(b)fluoranthene	U		0.0012	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Benzo(k)fluoranthene	U		0.0014	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Chrysene	U		0.0010	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Dibenzo(a,h)anthracene	U		0.0011	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Fluoranthene	U		0.00090	0.0049	mg/Kg-dry	1	4/8/2020 18:11

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

ALS Group, USA

Date: 10-Apr-20

Client: Entrada Consulting Group
Project: Carney 41Y34 Spill
Sample ID: CAR41Y34-SS3
Collection Date: 4/1/2020 10:00 AM

Work Order: 20040274
Lab ID: 20040274-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0016	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Indeno(1,2,3-cd)pyrene	U		0.0018	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Naphthalene	U		0.0021	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Pyrene	U		0.00081	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Surr: 2-Fluorobiphenyl	109			20-140	%REC	1	4/8/2020 18:11
Surr: 4-Terphenyl-d14	104			22-172	%REC	1	4/8/2020 18:11
Surr: Nitrobenzene-d5	90.9			28-140	%REC	1	4/8/2020 18:11
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 4/6/20		Analyst: SJB
Benzene	U		0.0076	0.044	mg/Kg-dry	1	4/6/2020 22:43
Ethylbenzene	U		0.0093	0.044	mg/Kg-dry	1	4/6/2020 22:43
m,p-Xylene	U		0.059	0.088	mg/Kg-dry	1	4/6/2020 22:43
o-Xylene	U		0.017	0.044	mg/Kg-dry	1	4/6/2020 22:43
Toluene	U		0.012	0.044	mg/Kg-dry	1	4/6/2020 22:43
Xylenes, Total	U		0.059	0.13	mg/Kg-dry	1	4/6/2020 22:43
Surr: 1,2-Dichloroethane-d4	97.0			70-130	%REC	1	4/6/2020 22:43
Surr: 4-Bromofluorobenzene	97.4			70-130	%REC	1	4/6/2020 22:43
Surr: Dibromofluoromethane	100			70-130	%REC	1	4/6/2020 22:43
Surr: Toluene-d8	95.7			70-130	%REC	1	4/6/2020 22:43
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/9/20		Analyst: QTN
Electrical Conductivity @ Saturation	0.45		0.011	0.10	mmhos/cm @25°	20	4/9/2020 16:05
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: JZB
Chromium, Trivalent	9.7		1.0	1.2	mg/Kg-dry	1	4/9/2020 13:03
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 4/7/20		Analyst: RZM
Chromium, Hexavalent	U		0.98	1.2	mg/Kg-dry	1	4/9/2020 12:03
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	16		0.10	0.10	% of sample	1	4/6/2020 11:25
PH			Method: SW9045D		Prep: EXTRACT / 4/3/20		Analyst: DVD
pH	8.37		0.10	0.100	s.u.	1	4/4/2020 08:59
Temperature	19.5		0.10	0.100	°C	1	4/4/2020 08:59

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

ALS Group, USA

Date: 10-Apr-20

Client: Entrada Consulting Group
Project: Carney 41Y34 Spill
Sample ID: CAR41Y34-SS4
Collection Date: 4/1/2020 10:15 AM

Work Order: 20040274
Lab ID: 20040274-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 4/7/20		Analyst: AK
DRO (C10-C28)	11	J	3.3	12	mg/Kg-dry	1	4/8/2020 09:12
Surr: 4-Terphenyl-d14	83.7			33-111	%REC	1	4/8/2020 09:12
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 4/6/20		Analyst: RM
GRO (C6-C10)	U		2.7	6.5	mg/Kg	1	4/8/2020 12:02
Surr: Toluene-d8	109			71-123	%REC	1	4/8/2020 12:02
MERCURY BY CVAA							
			Method: SW7471B		Prep: SW7471 / 4/10/20		Analyst: MAC
Mercury	0.024		0.013	0.018	mg/Kg-dry	1	4/10/2020 11:19
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 4/8/20		Analyst: STP
Arsenic	5.8		0.046	0.39	mg/Kg-dry	1	4/8/2020 22:13
Barium	300		3.5	3.9	mg/Kg-dry	10	4/9/2020 16:26
Cadmium	0.19		0.023	0.15	mg/Kg-dry	1	4/8/2020 22:13
Chromium	9.6		0.17	0.39	mg/Kg-dry	1	4/8/2020 22:13
Copper	9.7		0.39	0.39	mg/Kg-dry	1	4/8/2020 22:13
Lead	16		0.19	0.39	mg/Kg-dry	1	4/8/2020 22:13
Nickel	13		0.20	0.39	mg/Kg-dry	1	4/8/2020 22:13
Selenium	0.92		0.35	0.39	mg/Kg-dry	1	4/8/2020 22:13
Silver	0.066	J	0.051	0.39	mg/Kg-dry	1	4/8/2020 22:13
Zinc	54		0.76	0.77	mg/Kg-dry	1	4/8/2020 22:13
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 4/9/20		Analyst: STP
Calcium	50		2.5	5.0	mg/L	10	4/9/2020 16:44
Magnesium	9.9		0.50	2.0	mg/L	10	4/9/2020 16:44
Sodium	53		0.45	2.0	mg/L	10	4/9/2020 16:44
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/9/20		Analyst: STP
Sodium Adsorption Ratio	1.8		0.010	0.010	none	1	4/9/2020
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
			Method: SW846 8270D		Prep: SW3546 / 4/8/20		Analyst: EEW
Acenaphthene	U		0.00095	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Anthracene	U		0.0016	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Benzo(a)anthracene	U		0.0020	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Benzo(a)pyrene	U		0.0013	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Benzo(b)fluoranthene	U		0.0012	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Benzo(k)fluoranthene	U		0.0014	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Chrysene	U		0.0010	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Dibenzo(a,h)anthracene	U		0.0011	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Fluoranthene	U		0.00090	0.0049	mg/Kg-dry	1	4/8/2020 18:27

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

ALS Group, USA

Date: 10-Apr-20

Client: Entrada Consulting Group
Project: Carney 41Y34 Spill
Sample ID: CAR41Y34-SS4
Collection Date: 4/1/2020 10:15 AM

Work Order: 20040274
Lab ID: 20040274-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0016	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Indeno(1,2,3-cd)pyrene	U		0.0018	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Naphthalene	U		0.0021	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Pyrene	U		0.00081	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Surr: 2-Fluorobiphenyl	101			20-140	%REC	1	4/8/2020 18:27
Surr: 4-Terphenyl-d14	92.0			22-172	%REC	1	4/8/2020 18:27
Surr: Nitrobenzene-d5	77.7			28-140	%REC	1	4/8/2020 18:27
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 4/6/20		Analyst: SJB
Benzene	U		0.0067	0.039	mg/Kg-dry	1	4/6/2020 22:22
Ethylbenzene	U		0.0082	0.039	mg/Kg-dry	1	4/6/2020 22:22
m,p-Xylene	U		0.052	0.078	mg/Kg-dry	1	4/6/2020 22:22
o-Xylene	U		0.015	0.039	mg/Kg-dry	1	4/6/2020 22:22
Toluene	U		0.011	0.039	mg/Kg-dry	1	4/6/2020 22:22
Xylenes, Total	U		0.052	0.12	mg/Kg-dry	1	4/6/2020 22:22
Surr: 1,2-Dichloroethane-d4	96.3			70-130	%REC	1	4/6/2020 22:22
Surr: 4-Bromofluorobenzene	100			70-130	%REC	1	4/6/2020 22:22
Surr: Dibromofluoromethane	102			70-130	%REC	1	4/6/2020 22:22
Surr: Toluene-d8	97.1			70-130	%REC	1	4/6/2020 22:22
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/9/20		Analyst: QTN
Electrical Conductivity @ Saturation	0.51		0.011	0.10	mmhos/cm @25°	20	4/9/2020 16:05
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: JZB
Chromium, Trivalent	9.6		0.99	1.2	mg/Kg-dry	1	4/9/2020 13:03
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 4/7/20		Analyst: RZM
Chromium, Hexavalent	U		0.97	1.1	mg/Kg-dry	1	4/9/2020 12:03
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	15		0.10	0.10	% of sample	1	4/6/2020 11:25
PH			Method: SW9045D		Prep: EXTRACT / 4/3/20		Analyst: DVD
pH	7.82		0.10	0.100	s.u.	1	4/4/2020 08:59
Temperature	19.8		0.10	0.100	°C	1	4/4/2020 08:59

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

ALS Group, USA

Date: 10-Apr-20

Client: Entrada Consulting Group
Project: Carney 41Y34 Spill
Sample ID: CAR41Y34-BG1
Collection Date: 4/1/2020 10:30 AM

Work Order: 20040274
Lab ID: 20040274-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
Mercury	0.018	J	0.014	0.021	mg/Kg-dry	1	4/10/2020 11:25
Method: SW7471B Prep: SW7471 / 4/10/20 Analyst: MAC							
METALS BY ICP-MS							
Arsenic	6.9		0.050	0.41	mg/Kg-dry	1	4/8/2020 22:15
Barium	160		3.8	4.1	mg/Kg-dry	10	4/9/2020 16:28
Boron	11		1.6	1.7	mg/Kg-dry	1	4/8/2020 22:15
Cadmium	0.20		0.025	0.17	mg/Kg-dry	1	4/8/2020 22:15
Chromium	11		0.18	0.41	mg/Kg-dry	1	4/8/2020 22:15
Copper	13		0.41	0.41	mg/Kg-dry	1	4/8/2020 22:15
Lead	19		0.20	0.41	mg/Kg-dry	1	4/8/2020 22:15
Nickel	17		0.21	0.41	mg/Kg-dry	1	4/8/2020 22:15
Selenium	1.3		0.38	0.41	mg/Kg-dry	1	4/8/2020 22:15
Silver	0.071	J	0.055	0.41	mg/Kg-dry	1	4/8/2020 22:15
Zinc	69		0.81	0.83	mg/Kg-dry	1	4/8/2020 22:15
Method: SW6020B Prep: SW3050B / 4/8/20 Analyst: STP							
SOLUBLE CATIONS FOR SAR							
Calcium	43		2.5	5.0	mg/L	10	4/9/2020 16:45
Magnesium	6.6		0.50	2.0	mg/L	10	4/9/2020 16:45
Sodium	11		0.45	2.0	mg/L	10	4/9/2020 16:45
Method: SW6020B Prep: USDA Method 20B / 4/9/20 Analyst: STP							
SODIUM ADSORPTION RATIO							
Sodium Adsorption Ratio	0.39		0.010	0.010	none	1	4/9/2020
Method: USDA H60 METHOD 2 Prep: USDA Method 20B / 4/9/20 Analyst: STP							
ELECTRICAL CONDUCTIVITY (SAR)							
Electrical Conductivity @ Saturation	0.30		0.011	0.10	mmhos/cm @25°	20	4/9/2020 16:05
Method: USDA H60 METHOD 2 Prep: USDA Method 20B / 4/9/20 Analyst: QTN							
CHROMIUM, TRIVALENT							
Chromium, Trivalent	11		0.99	1.2	mg/Kg-dry	1	4/9/2020 13:03
Method: CALCULATION Analyst: JZB							
CHROMIUM, HEXAVALENT							
Chromium, Hexavalent	U		0.98	1.2	mg/Kg-dry	1	4/9/2020 12:03
Method: SW7196A Prep: SW3060A / 4/7/20 Analyst: RZM							
MOISTURE							
Moisture	14		0.10	0.10	% of sample	1	4/6/2020 11:25
Method: SW3550C Analyst: KTP							
PH							
pH	8.43		0.10	0.100	s.u.	1	4/5/2020 11:30
Temperature	20.0		0.10	0.100	°C	1	4/5/2020 11:30
Method: SW9045D Prep: EXTRACT / 4/4/20 Analyst: DVD							

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

Client: Entrada Consulting Group
Work Order: 20040274
Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154303** Instrument ID **GC8** Method: **SW8015D**

MBLK		Sample ID: DBLKS1-154303-154303				Units: mg/Kg		Analysis Date: 4/7/2020 08:16 PM		
Client ID:		Run ID: GC8_200407A				SeqNo: 6345509		Prep Date: 4/7/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	6.252	10								J
<i>Surr: 4-Terphenyl-d14</i>	2.772	0	3.33	0	83.2	33-111	0			

LCS		Sample ID: DLCSS1-154303-154303				Units: mg/Kg		Analysis Date: 4/7/2020 08:55 PM		
Client ID:		Run ID: GC8_200407A				SeqNo: 6345510		Prep Date: 4/7/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	343	10	333	0	103	80-121	0			
<i>Surr: 4-Terphenyl-d14</i>	2.514	0	3.33	0	75.5	33-111	0			

MS		Sample ID: 20040272-01A MS				Units: mg/Kg		Analysis Date: 4/7/2020 09:34 PM		
Client ID:		Run ID: GC8_200407A				SeqNo: 6345511		Prep Date: 4/7/2020		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	518.1	99	328.7	147.8	113	80-121	0			
<i>Surr: 4-Terphenyl-d14</i>	1.671	0	3.287	0	50.8	33-111	0			

MSD		Sample ID: 20040272-01A MSD				Units: mg/Kg		Analysis Date: 4/7/2020 10:13 PM		
Client ID:		Run ID: GC8_200407A				SeqNo: 6345512		Prep Date: 4/7/2020		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	503.8	99	330.5	147.8	108	80-121	518.1	2.79	30	
<i>Surr: 4-Terphenyl-d14</i>	1.858	0	3.305	0	56.2	33-111	1.671	10.6	30	

The following samples were analyzed in this batch:

20040274-01A	20040274-02A	20040274-03A
20040274-04A		

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154269** Instrument ID **GC10** Method: **SW8015D**

MBLK		Sample ID: MBLK-154269-154269				Units: µg/Kg-dry		Analysis Date: 4/8/2020 10:30 AM		
Client ID:		Run ID: GC10_200408A				SeqNo: 6348110		Prep Date: 4/6/2020		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								
Surr: Toluene-d8	5608	0	5000	0	112	71-123	0			

LCS		Sample ID: LCS-154269-154269				Units: µg/Kg-dry		Analysis Date: 4/8/2020 06:37 PM		
Client ID:		Run ID: GC10_200408A				SeqNo: 6348119		Prep Date: 4/6/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	265500	5,000	250000	0	106	71-123	0			
Surr: Toluene-d8	5088	0	5000	0	102	71-123	0			

MS		Sample ID: 20040275-01A MS				Units: µg/Kg-dry		Analysis Date: 4/8/2020 01:12 PM		
Client ID:		Run ID: GC10_200408A				SeqNo: 6348117		Prep Date: 4/6/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	601200	9,400	471600	0	127	71-123	0			S
Surr: Toluene-d8	10570	0	9432	0	112	71-123	0			

MSD		Sample ID: 20040275-01A MSD				Units: µg/Kg-dry		Analysis Date: 4/8/2020 01:35 PM		
Client ID:		Run ID: GC10_200408A				SeqNo: 6348118		Prep Date: 4/6/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	582100	9,900	495500	0	117	71-123	601200	3.24	30	
Surr: Toluene-d8	10540	0	9911	0	106	71-123	10570	0.244	30	

The following samples were analyzed in this batch:

20040274-01A	20040274-02A	20040274-03A
20040274-04A		

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154360** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-154360-154360				Units: mg/Kg		Analysis Date: 4/9/2020 07:24 AM		
Client ID:		Run ID: HG4_200409A				SeqNo: 6346610		Prep Date: 4/8/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.017

LCS		Sample ID: LCS-154360-154360				Units: mg/Kg		Analysis Date: 4/9/2020 07:26 AM		
Client ID:		Run ID: HG4_200409A				SeqNo: 6346611		Prep Date: 4/8/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1948 0.020 0.1635 0 119 80-120 0

MS		Sample ID: 20040274-03AMS				Units: mg/Kg		Analysis Date: 4/9/2020 12:04 PM		
Client ID: CAR41Y34-SS3		Run ID: HG4_200409A				SeqNo: 6347270		Prep Date: 4/8/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1547 0.016 0.1309 0.01374 108 75-125 0

MSD		Sample ID: 20040274-03AMSD				Units: mg/Kg		Analysis Date: 4/9/2020 12:06 PM		
Client ID: CAR41Y34-SS3		Run ID: HG4_200409A				SeqNo: 6347271		Prep Date: 4/8/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1656 0.016 0.1297 0.01374 117 75-125 0.1547 6.83 35

The following samples were analyzed in this batch:

20040274-01A	20040274-02A	20040274-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154361** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-154361-154361				Units: mg/Kg		Analysis Date: 4/9/2020 12:08 PM		
Client ID:		Run ID: HG4_200409A				SeqNo: 6347272		Prep Date: 4/8/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.019

LCS		Sample ID: LCS-154361-154361				Units: mg/Kg		Analysis Date: 4/9/2020 12:11 PM		
Client ID:		Run ID: HG4_200409A				SeqNo: 6347273		Prep Date: 4/8/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1847 0.017 0.1403 0 132 80-120 0 S

MS		Sample ID: 20040295-01AMS				Units: mg/Kg		Analysis Date: 4/9/2020 09:30 AM		
Client ID:		Run ID: HG4_200409A				SeqNo: 6346672		Prep Date: 4/8/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.2072 0.018 0.1539 0.0819 81.4 75-125 0

MSD		Sample ID: 20040295-01AMSD				Units: mg/Kg		Analysis Date: 4/9/2020 09:32 AM		
Client ID:		Run ID: HG4_200409A				SeqNo: 6346674		Prep Date: 4/8/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.2022 0.019 0.1542 0.0819 78 75-125 0.2072 2.48 35

The following samples were analyzed in this batch:

20040274-04A	20040274-05A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
Work Order: 20040274
Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154446** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-154446-154446				Units: mg/Kg		Analysis Date: 4/10/2020 11:14 AM		
Client ID:		Run ID: HG4_200410A				SeqNo: 6349553		Prep Date: 4/10/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.020

LCS		Sample ID: LCS-154446-154446				Units: mg/Kg		Analysis Date: 4/10/2020 11:16 AM		
Client ID:		Run ID: HG4_200410A				SeqNo: 6349554		Prep Date: 4/10/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1958 0.020 0.1665 0 118 80-120 0

MS		Sample ID: 20040274-04AMS				Units: mg/Kg		Analysis Date: 4/10/2020 11:21 AM		
Client ID: CAR41Y34-SS4		Run ID: HG4_200410A				SeqNo: 6349556		Prep Date: 4/10/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1584 0.016 0.137 0.02017 101 75-125 0

MSD		Sample ID: 20040274-04AMSD				Units: mg/Kg		Analysis Date: 4/10/2020 11:23 AM		
Client ID: CAR41Y34-SS4		Run ID: HG4_200410A				SeqNo: 6349557		Prep Date: 4/10/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1556 0.016 0.1357 0.02017 99.8 75-125 0.1584 1.82 35

The following samples were analyzed in this batch:

20040274-04A	20040274-05A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
Work Order: 20040274
Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154368** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK		Sample ID: MBLK-154368-154368				Units: mg/Kg		Analysis Date: 4/8/2020 08:29 PM		
Client ID:		Run ID: ICPMS3_200408B				SeqNo: 6346206		Prep Date: 4/8/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.20								
Barium	U	0.20								
Cadmium	U	0.078								
Chromium	U	0.20								
Copper	U	0.20								
Lead	U	0.20								
Nickel	U	0.20								
Selenium	U	0.20								
Silver	U	0.20								
Zinc	U	0.39								

LCS		Sample ID: LCS-154368-154368				Units: mg/Kg		Analysis Date: 4/8/2020 08:31 PM		
Client ID:		Run ID: ICPMS3_200408B				SeqNo: 6346207		Prep Date: 4/8/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.041	0.24	4.789	0	105	80-120	0			
Barium	5.198	0.24	4.789	0	109	80-120	0			
Cadmium	5.095	0.096	4.789	0	106	80-120	0			
Chromium	5.125	0.24	4.789	0	107	80-120	0			
Copper	5.162	0.24	4.789	0	108	80-120	0			
Lead	5.105	0.24	4.789	0	107	80-120	0			
Nickel	4.984	0.24	4.789	0	104	80-120	0			
Selenium	5.103	0.24	4.789	0	107	80-120	0			
Silver	5.194	0.24	4.789	0	108	80-120	0			
Zinc	5.146	0.48	4.789	0	107	80-120	0			

MS		Sample ID: 20040273-03AMS				Units: mg/Kg		Analysis Date: 4/8/2020 09:50 PM		
Client ID:		Run ID: ICPMS3_200408B				SeqNo: 6346251		Prep Date: 4/8/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.542	0.32	6.353	4.53	78.9	75-125	0			
Cadmium	5.091	0.13	6.353	0.1689	77.5	75-125	0			
Chromium	13.89	0.32	6.353	6.957	109	75-125	0			
Copper	10.7	0.32	6.353	6.118	72.2	75-125	0			S
Lead	14.49	0.32	6.353	8.211	98.9	75-125	0			
Nickel	12.43	0.32	6.353	7.193	82.4	75-125	0			
Selenium	5.579	0.32	6.353	0.3903	81.7	75-125	0			
Silver	4.734	0.32	6.353	0.03602	73.9	75-125	0			S
Zinc	32.76	0.64	6.353	26.62	96.6	75-125	0			O

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154368** Instrument ID **ICPMS3** Method: **SW6020B**

MS		Sample ID: 20040273-03AMS				Units: mg/Kg		Analysis Date: 4/9/2020 03:58 PM		
Client ID:		Run ID: ICPMS3_200409B				SeqNo: 6349279		Prep Date: 4/8/2020		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	165.6	3.2	6.353	149.3	256	75-125	0			SO

MSD		Sample ID: 20040273-03AMSD				Units: mg/Kg		Analysis Date: 4/8/2020 09:52 PM		
Client ID:		Run ID: ICPMS3_200408B				SeqNo: 6346252		Prep Date: 4/8/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.26	0.32	6.345	4.53	90.3	75-125	9.542	7.24	20	
Cadmium	5.459	0.13	6.345	0.1689	83.4	75-125	5.091	6.98	20	
Chromium	15.88	0.32	6.345	6.957	141	75-125	13.89	13.4	20	S
Copper	12.55	0.32	6.345	6.118	101	75-125	10.7	15.9	20	
Lead	17.1	0.32	6.345	8.211	140	75-125	14.49	16.5	20	S
Nickel	14.5	0.32	6.345	7.193	115	75-125	12.43	15.4	20	
Selenium	6.168	0.32	6.345	0.3903	91.1	75-125	5.579	10	20	
Silver	5.162	0.32	6.345	0.03602	80.8	75-125	4.734	8.65	20	
Zinc	40.28	0.63	6.345	26.62	215	75-125	32.76	20.6	20	SRO

MSD		Sample ID: 20040273-03AMSD				Units: mg/Kg		Analysis Date: 4/9/2020 04:00 PM		
Client ID:		Run ID: ICPMS3_200409B				SeqNo: 6349280		Prep Date: 4/8/2020		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	146.5	3.2	6.345	149.3	-44.7	75-125	165.6	12.3	20	SO

The following samples were analyzed in this batch:

20040274-01A

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154372** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK		Sample ID: MBLK-154372-154372				Units: mg/Kg		Analysis Date: 4/8/2020 10:01 PM		
Client ID:		Run ID: ICPMS3_200408B				SeqNo: 6346257		Prep Date: 4/8/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.22								
Boron	U	0.89								
Cadmium	U	0.089								
Chromium	U	0.22								
Copper	U	0.22								
Lead	U	0.22								
Nickel	U	0.22								
Selenium	U	0.22								
Silver	U	0.22								
Zinc	U	0.45								

MBLK		Sample ID: MBLK-154372-154372				Units: mg/Kg		Analysis Date: 4/9/2020 04:18 PM		
Client ID:		Run ID: ICPMS3_200409B				SeqNo: 6349291		Prep Date: 4/8/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	U	0.22								

LCS		Sample ID: LCS-154372-154372				Units: mg/Kg		Analysis Date: 4/8/2020 10:03 PM		
Client ID:		Run ID: ICPMS3_200408B				SeqNo: 6346258		Prep Date: 4/8/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.296	0.25	4.926	0	87.2	80-120	0			
Barium	4.354	0.25	4.926	0	88.4	80-120	0			
Boron	21.96	0.99	24.63	0	89.2	80-120	0			
Cadmium	4.415	0.099	4.926	0	89.6	80-120	0			
Chromium	4.615	0.25	4.926	0	93.7	80-120	0			
Copper	4.524	0.25	4.926	0	91.8	80-120	0			
Lead	4.383	0.25	4.926	0	89	80-120	0			
Nickel	4.337	0.25	4.926	0	88	80-120	0			
Selenium	4.42	0.25	4.926	0	89.7	80-120	0			
Silver	4.31	0.25	4.926	0	87.5	80-120	0			
Zinc	5.864	0.49	4.926	0	119	80-120	0			

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

Client: Entrada Consulting Group
Work Order: 20040274
Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154372** Instrument ID **ICPMS3** Method: **SW6020B**

MS				Sample ID: 20040295-01AMS			Units: mg/Kg		Analysis Date: 4/8/2020 10:46 PM	
Client ID:		Run ID: ICPMS3_200408B			SeqNo: 6346281		Prep Date: 4/8/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.768	0.32	6.452	1.918	106	75-125	0			
Barium	127	0.32	6.452	120.5	101	75-125	0			EO
Boron	43.9	1.3	32.26	11.08	102	75-125	0			
Cadmium	6.557	0.13	6.452	0.2231	98.2	75-125	0			
Chromium	27.48	0.32	6.452	21.37	94.7	75-125	0			
Lead	5.735	0.32	6.452	2.252	54	75-125	0			S
Nickel	11.39	0.32	6.452	5.161	96.6	75-125	0			
Selenium	9.173	0.32	6.452	1.825	114	75-125	0			
Silver	6.892	0.32	6.452	0.9044	92.8	75-125	0			

MS				Sample ID: 20040295-01AMS			Units: mg/Kg		Analysis Date: 4/9/2020 04:38 PM	
Client ID:		Run ID: ICPMS3_200409B			SeqNo: 6349303		Prep Date: 4/8/2020		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Zinc	168.7	6.5	6.452	161.6	110	75-125	0			O

MS				Sample ID: 20040295-01AMS			Units: mg/Kg		Analysis Date: 4/10/2020 02:48 PM	
Client ID:		Run ID: ICPMS3_200410B			SeqNo: 6350317		Prep Date: 4/8/2020		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	138.9	32	6.452	119.5	302	75-125	0			SO

MSD				Sample ID: 20040295-01AMSD			Units: mg/Kg		Analysis Date: 4/8/2020 10:47 PM	
Client ID:		Run ID: ICPMS3_200408B			SeqNo: 6346282		Prep Date: 4/8/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.96	0.32	6.418	1.918	110	75-125	8.768	2.16	20	
Barium	127.5	0.32	6.418	120.5	109	75-125	127	0.387	20	EO
Boron	44.95	1.3	32.09	11.08	106	75-125	43.9	2.38	20	
Cadmium	6.83	0.13	6.418	0.2231	103	75-125	6.557	4.09	20	
Chromium	27.7	0.32	6.418	21.37	98.6	75-125	27.48	0.795	20	
Lead	5.839	0.32	6.418	2.252	55.9	75-125	5.735	1.8	20	S
Nickel	11.51	0.32	6.418	5.161	98.9	75-125	11.39	0.977	20	
Selenium	9.853	0.32	6.418	1.825	125	75-125	9.173	7.15	20	S
Silver	7.077	0.32	6.418	0.9044	96.2	75-125	6.892	2.65	20	

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

Client: Entrada Consulting Group
Work Order: 20040274
Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154372** Instrument ID **ICPMS3** Method: **SW6020B**

MSD		Sample ID: 20040295-01AMSD				Units: mg/Kg		Analysis Date: 4/9/2020 04:40 PM			
Client ID:		Run ID: ICPMS3_200409B				SeqNo: 6349304		Prep Date: 4/8/2020		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Zinc	170.9	6.4	6.418	161.6	145	75-125	168.7	1.29	20	SO	

MSD		Sample ID: 20040295-01AMSD				Units: mg/Kg		Analysis Date: 4/10/2020 02:50 PM			
Client ID:		Run ID: ICPMS3_200410B				SeqNo: 6350318		Prep Date: 4/8/2020		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	133.1	32	6.418	119.5	212	75-125	138.9	4.31	20	SO	

The following samples were analyzed in this batch:

20040274-02A	20040274-03A	20040274-04A
20040274-05A		

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154416** Instrument ID **ICPMS4** Method: **SW6020B**

DUP		Sample ID: 20040273-01BDUP				Units: mg/L		Analysis Date: 4/9/2020 04:33 PM		
Client ID:		Run ID: ICPMS4_200409A				SeqNo: 6348311		Prep Date: 4/9/2020		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	37.93	5.0	0	0	0	0-0	48.39	24.2		
Magnesium	4.639	2.0	0	0	0	0-0	5.318	13.7		
Sodium	6.057	2.0	0	0	0	0-0	7.039	15		

The following samples were analyzed in this batch:

20040274-01B	20040274-02B	20040274-03B
20040274-04B	20040274-05B	

Batch ID: **154416** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP		Sample ID: 20040273-01BDUP				Units: none		Analysis Date: 4/9/2020		
Client ID:		Run ID: SAR_200409A				SeqNo: 6348389		Prep Date: 4/9/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.247	0.010	0	0	0		0.2564	3.71	50	

The following samples were analyzed in this batch:

20040274-01B	20040274-02B	20040274-03B
20040274-04B	20040274-05B	

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154266** Instrument ID **SVMS6** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-154266-154266				Units: µg/Kg		Analysis Date: 4/7/2020 12:51 PM		
Client ID:		Run ID: SVMS6_200407A				SeqNo: 6343661		Prep Date: 4/6/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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	1367	0	3333	0	41	20-140	0			
Surr: 4-Terphenyl-d14	3049	0	3333	0	91.5	22-172	0			
Surr: Nitrobenzene-d5	2394	0	3333	0	71.8	28-140	0			

LCS		Sample ID: SLCSS1-154266-154266				Units: µg/Kg		Analysis Date: 4/7/2020 01:06 PM		
Client ID:		Run ID: SVMS6_200407A				SeqNo: 6343662		Prep Date: 4/6/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	891.3	4.2	1333	0	66.9	40-140	0			
Anthracene	1031	4.2	1333	0	77.3	40-140	0			
Benzo(a)anthracene	995.4	4.2	1333	0	74.7	40-140	0			
Benzo(a)pyrene	955.4	4.2	1333	0	71.7	40-140	0			
Benzo(b)fluoranthene	940.1	4.2	1333	0	70.5	40-140	0			
Benzo(k)fluoranthene	934	4.2	1333	0	70.1	40-140	0			
Chrysene	997.3	4.2	1333	0	74.8	40-140	0			
Dibenzo(a,h)anthracene	976.1	4.2	1333	0	73.2	40-140	0			
Fluoranthene	1160	4.2	1333	0	87.1	40-140	0			
Fluorene	948.2	4.2	1333	0	71.1	40-140	0			
Indeno(1,2,3-cd)pyrene	968.6	4.2	1333	0	72.7	40-140	0			
Naphthalene	900.2	4.2	1333	0	67.5	40-140	0			
Pyrene	935.5	4.2	1333	0	70.2	40-140	0			
Surr: 2-Fluorobiphenyl	1209	0	3333	0	36.3	20-140	0			
Surr: 4-Terphenyl-d14	3011	0	3333	0	90.3	22-172	0			
Surr: Nitrobenzene-d5	1687	0	3333	0	50.6	28-140	0			

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154266** Instrument ID **SVMS6** Method: **SW846 8270D**

MS				Sample ID: 20040202-01B MS			Units: µg/Kg		Analysis Date: 4/7/2020 01:22 PM	
Client ID:				Run ID: SVMS6_200407A			SeqNo: 6343663		Prep Date: 4/6/2020	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	904.7	4.1	1314	0	68.9	40-140	0			
Anthracene	1024	4.1	1314	0	77.9	40-140	0			
Benzo(a)anthracene	953.7	4.1	1314	0	72.6	40-140	0			
Benzo(a)pyrene	933.1	4.1	1314	0	71	40-140	0			
Benzo(b)fluoranthene	943.8	4.1	1314	0	71.8	40-140	0			
Benzo(k)fluoranthene	912.1	4.1	1314	0	69.4	40-140	0			
Chrysene	958.4	4.1	1314	0	72.9	40-140	0			
Dibenzo(a,h)anthracene	914.2	4.1	1314	0	69.6	40-140	0			
Fluoranthene	1140	4.1	1314	0	86.8	40-140	0			
Fluorene	961.4	4.1	1314	0	73.2	40-140	0			
Indeno(1,2,3-cd)pyrene	937.7	4.1	1314	0	71.4	40-140	0			
Naphthalene	927.1	4.1	1314	0	70.6	40-140	0			
Pyrene	896.8	4.1	1314	0	68.3	40-140	0			
Surr: 2-Fluorobiphenyl	2637	0	3285	0	80.3	20-140	0			
Surr: 4-Terphenyl-d14	2823	0	3285	0	85.9	22-172	0			
Surr: Nitrobenzene-d5	2051	0	3285	0	62.4	28-140	0			

MSD				Sample ID: 20040202-01B MSD			Units: µg/Kg		Analysis Date: 4/7/2020 01:37 PM	
Client ID:				Run ID: SVMS6_200407A			SeqNo: 6343664		Prep Date: 4/6/2020	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	904.8	4.0	1276	0	70.9	40-140	904.7	0.0118	30	
Anthracene	1017	4.0	1276	0	79.7	40-140	1024	0.661	30	
Benzo(a)anthracene	955.5	4.0	1276	0	74.9	40-140	953.7	0.19	30	
Benzo(a)pyrene	935.3	4.0	1276	0	73.3	40-140	933.1	0.242	30	
Benzo(b)fluoranthene	954	4.0	1276	0	74.8	40-140	943.8	1.07	30	
Benzo(k)fluoranthene	911.2	4.0	1276	0	71.4	40-140	912.1	0.0992	30	
Chrysene	959.8	4.0	1276	0	75.2	40-140	958.4	0.148	30	
Dibenzo(a,h)anthracene	911.8	4.0	1276	0	71.4	40-140	914.2	0.263	30	
Fluoranthene	1132	4.0	1276	0	88.7	40-140	1140	0.775	30	
Fluorene	953	4.0	1276	0	74.7	40-140	961.4	0.879	30	
Indeno(1,2,3-cd)pyrene	906.4	4.0	1276	0	71	40-140	937.7	3.4	30	
Naphthalene	928.4	4.0	1276	0	72.7	40-140	927.1	0.138	30	
Pyrene	912.3	4.0	1276	0	71.5	40-140	896.8	1.71	30	
Surr: 2-Fluorobiphenyl	3014	0	3191	0	94.4	20-140	2637	13.4	0	
Surr: 4-Terphenyl-d14	2886	0	3191	0	90.4	22-172	2823	2.21	0	
Surr: Nitrobenzene-d5	2139	0	3191	0	67	28-140	2051	4.18	0	

The following samples were analyzed in this batch:

20040274-01A

20040274-02A

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154358** Instrument ID **SVMS6** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-154358-154358				Units: µg/Kg		Analysis Date: 4/8/2020 04:54 PM		
Client ID:		Run ID: SVMS6_200408A				SeqNo: 6346939		Prep Date: 4/8/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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								
<i>Surr: 2-Fluorobiphenyl</i>	3617	0	3333	0	109	20-140	0			
<i>Surr: 4-Terphenyl-d14</i>	3153	0	3333	0	94.6	22-172	0			
<i>Surr: Nitrobenzene-d5</i>	2887	0	3333	0	86.6	28-140	0			

LCS		Sample ID: SLCSS1-154358-154358				Units: µg/Kg		Analysis Date: 4/8/2020 05:09 PM		
Client ID:		Run ID: SVMS6_200408A				SeqNo: 6346940		Prep Date: 4/8/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1017	4.2	1333	0	76.3	40-140	0			
Anthracene	1093	4.2	1333	0	82	40-140	0			
Benzo(a)anthracene	1003	4.2	1333	0	75.3	40-140	0			
Benzo(a)pyrene	963.4	4.2	1333	0	72.3	40-140	0			
Benzo(b)fluoranthene	943.5	4.2	1333	0	70.8	40-140	0			
Benzo(k)fluoranthene	975.1	4.2	1333	0	73.2	40-140	0			
Chrysene	1016	4.2	1333	0	76.2	40-140	0			
Dibenzo(a,h)anthracene	974.3	4.2	1333	0	73.1	40-140	0			
Fluoranthene	1173	4.2	1333	0	88	40-140	0			
Fluorene	1070	4.2	1333	0	80.3	40-140	0			
Indeno(1,2,3-cd)pyrene	994.7	4.2	1333	0	74.6	40-140	0			
Naphthalene	1089	4.2	1333	0	81.7	40-140	0			
Pyrene	1022	4.2	1333	0	76.7	40-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	3538	0	3333	0	106	20-140	0			
<i>Surr: 4-Terphenyl-d14</i>	3134	0	3333	0	94	22-172	0			
<i>Surr: Nitrobenzene-d5</i>	2521	0	3333	0	75.6	28-140	0			

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154358** Instrument ID **SVMS6** Method: **SW846 8270D**

MS				Sample ID: 20040467-01A MS			Units: µg/Kg		Analysis Date: 4/8/2020 05:25 PM		
Client ID:		Run ID: SVMS6_200408A			SeqNo: 6346941		Prep Date: 4/8/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	927.1	4.1	1306	0	71	40-140	0				
Anthracene	1012	4.1	1306	0	77.5	40-140	0				
Benzo(a)anthracene	941	4.1	1306	0	72.1	40-140	0				
Benzo(a)pyrene	925.3	4.1	1306	0	70.9	40-140	0				
Benzo(b)fluoranthene	926.5	4.1	1306	0	71	40-140	0				
Benzo(k)fluoranthene	887.4	4.1	1306	0	68	40-140	0				
Chrysene	956.5	4.1	1306	0	73.3	40-140	0				
Dibenzo(a,h)anthracene	953.9	4.1	1306	0	73.1	40-140	0				
Fluoranthene	1074	4.1	1306	0	82.2	40-140	0				
Fluorene	971.2	4.1	1306	0	74.4	40-140	0				
Indeno(1,2,3-cd)pyrene	955.3	4.1	1306	0	73.2	40-140	0				
Naphthalene	1007	4.1	1306	0	77.1	40-140	0				
Pyrene	1007	4.1	1306	0	77.1	40-140	0				
Surr: 2-Fluorobiphenyl	3304	0	3265	0	101	20-140	0				
Surr: 4-Terphenyl-d14	3099	0	3265	0	94.9	22-172	0				
Surr: Nitrobenzene-d5	2431	0	3265	0	74.5	28-140	0				

MSD				Sample ID: 20040467-01A MSD			Units: µg/Kg		Analysis Date: 4/8/2020 05:40 PM		
Client ID:		Run ID: SVMS6_200408A			SeqNo: 6346942		Prep Date: 4/8/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	809.7	4.0	1266	0	64	40-140	927.1	13.5	30		
Anthracene	885.3	4.0	1266	0	69.9	40-140	1012	13.3	30		
Benzo(a)anthracene	818.1	4.0	1266	0	64.6	40-140	941	14	30		
Benzo(a)pyrene	806.5	4.0	1266	0	63.7	40-140	925.3	13.7	30		
Benzo(b)fluoranthene	807.1	4.0	1266	0	63.8	40-140	926.5	13.8	30		
Benzo(k)fluoranthene	764	4.0	1266	0	60.3	40-140	887.4	14.9	30		
Chrysene	828.6	4.0	1266	0	65.5	40-140	956.5	14.3	30		
Dibenzo(a,h)anthracene	827.1	4.0	1266	0	65.3	40-140	953.9	14.2	30		
Fluoranthene	940.9	4.0	1266	0	74.3	40-140	1074	13.2	30		
Fluorene	852.7	4.0	1266	0	67.4	40-140	971.2	13	30		
Indeno(1,2,3-cd)pyrene	834.5	4.0	1266	0	65.9	40-140	955.3	13.5	30		
Naphthalene	891.1	4.0	1266	0	70.4	40-140	1007	12.2	30		
Pyrene	841.1	4.0	1266	0	66.4	40-140	1007	18	30		
Surr: 2-Fluorobiphenyl	2928	0	3165	0	92.5	20-140	3304	12.1	0		
Surr: 4-Terphenyl-d14	2654	0	3165	0	83.8	22-172	3099	15.5	0		
Surr: Nitrobenzene-d5	2207	0	3165	0	69.7	28-140	2431	9.63	0		

The following samples were analyzed in this batch:

20040274-03A

20040274-04A

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154268** Instrument ID **VMS10** Method: **SW8260C**

MBLK				Sample ID: MBLK-154268-154268				Units: µg/Kg-dry		Analysis Date: 4/6/2020 05:56 PM	
Client ID:			Run ID: VMS10_200406A			SeqNo: 6342816		Prep Date: 4/6/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	U	30	0	0	0	0-0	0				
Ethylbenzene	U	30	0	0	0	0-0	0				
m,p-Xylene	U	60	0	0	0	0-0	0				
o-Xylene	U	30	0	0	0	0-0	0				
Toluene	U	30	0	0	0	0-0	0				
Xylenes, Total	U	90	0	0	0	0-0	0				
Surr: 1,2-Dichloroethane-d4	951	0	1000	0	95.1	70-130	0				
Surr: 4-Bromofluorobenzene	971.5	0	1000	0	97.2	70-130	0				
Surr: Dibromofluoromethane	985.5	0	1000	0	98.6	70-130	0				
Surr: Toluene-d8	940.5	0	1000	0	94	70-130	0				

LCS				Sample ID: LCS-154268-154268			Units: µg/Kg-dry		Analysis Date: 4/6/2020 04:55 PM		
Client ID:		Run ID: VMS10_200406A			SeqNo: 6342815		Prep Date: 4/6/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1062	30	1000	0	106	75-125	0				
Ethylbenzene	968	30	1000	0	96.8	75-125	0				
m,p-Xylene	1990	60	2000	0	99.5	80-125	0				
o-Xylene	996	30	1000	0	99.6	75-125	0				
Toluene	979.5	30	1000	0	98	70-125	0				
Xylenes, Total	2986	90	3000	0	99.5	75-125	0				
Surr: 1,2-Dichloroethane-d4	932.5	0	1000	0	93.2	70-130	0				
Surr: 4-Bromofluorobenzene	1030	0	1000	0	103	70-130	0				
Surr: Dibromofluoromethane	1014	0	1000	0	101	70-130	0				
Surr: Toluene-d8	1004	0	1000	0	100	70-130	0				

MS					Sample ID: 20040275-01A MS			Units: µg/Kg-dry		Analysis Date: 4/7/2020 12:25 PM	
Client ID:			Run ID: VMS10_200406A			SeqNo: 6342827		Prep Date: 4/6/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1902	57	1886	0	101	75-125	0				
Ethylbenzene	1709	57	1886	0	90.6	75-125	0				
m,p-Xylene	3460	110	3773	26.24	91	80-125	0				
o-Xylene	1750	57	1886	10.31	92.2	75-125	0				
Toluene	1700	57	1886	31.86	88.4	70-125	0				
Xylenes, Total	5209	170	5659	0	92	75-125	0				
Surr: 1,2-Dichloroethane-d4	1800	0	1886	0	95.4	70-130	0				
Surr: 4-Bromofluorobenzene	2037	0	1886	0	108	70-130	0				
Surr: Dibromofluoromethane	1884	0	1886	0	99.9	70-130	0				
Surr: Toluene-d8	1817	0	1886	0	96.3	70-130	0				

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154268** Instrument ID **VMS10** Method: **SW8260C**

MSD		Sample ID: 20040275-01A MSD				Units: µg/Kg-dry		Analysis Date: 4/7/2020 12:45 PM		
Client ID:		Run ID: VMS10_200406A				SeqNo: 6342829		Prep Date: 4/6/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1954	59	1982	0	98.6	75-125	1902	2.7	30	
Ethylbenzene	1726	59	1982	0	87.1	75-125	1709	1.01	30	
m,p-Xylene	3489	120	3964	26.24	87.3	80-125	3460	0.834	30	
o-Xylene	1801	59	1982	10.31	90.3	75-125	1750	2.88	30	
Toluene	1695	59	1982	31.86	83.9	70-125	1700	0.288	30	
Xylenes, Total	5289	180	5946	0	88.9	75-125	5209	1.53	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	1849	0	1982	0	93.3	70-130	1800	2.73	30	
<i>Surr: 4-Bromofluorobenzene</i>	2045	0	1982	0	103	70-130	2037	0.358	30	
<i>Surr: Dibromofluoromethane</i>	1980	0	1982	0	99.9	70-130	1884	4.95	30	
<i>Surr: Toluene-d8</i>	1906	0	1982	0	96.2	70-130	1817	4.8	30	

The following samples were analyzed in this batch:

20040274-01A	20040274-02A	20040274-03A
20040274-04A		

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

Client: Entrada Consulting Group
Work Order: 20040274
Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154226** Instrument ID **WETCHEM** Method: **SW9045D**

DUP		Sample ID: 20040243-01C DUP				Units: s.u.		Analysis Date: 4/4/2020 08:59 AM		
Client ID:		Run ID: WETCHEM_200404E				SeqNo: 6340300		Prep Date: 4/3/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.29	0.10	0	0	0	0-0	8.29	0	20	
Temperature	20.2	0.10	0	0	0		20	0.995		

DUP		Sample ID: 20040272-03A DUP				Units: s.u.		Analysis Date: 4/4/2020 08:59 AM		
Client ID:		Run ID: WETCHEM_200404E				SeqNo: 6340311		Prep Date: 4/3/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.5	0.10	0	0	0	0-0	7.68	2.37	20	
Temperature	19.8	0.10	0	0	0		19.7	0.506		

The following samples were analyzed in this batch:

20040274-01A	20040274-02A	20040274-03A
20040274-04A		

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154229** Instrument ID **WETCHEM** Method: **SW9045D**

LCS				Sample ID: LCS-154229-154229				Units: s.u.			Analysis Date: 4/5/2020 11:30 AM			
Client ID:				Run ID: WETCHEM_200405B				SeqNo: 6340320			Prep Date: 4/4/2020		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			

pH 3.97 0.10 4 0 99.2 90-110 0

DUP				Sample ID: 20040260-01A DUP				Units: s.u.			Analysis Date: 4/5/2020 11:30 AM			
Client ID:				Run ID: WETCHEM_200405B				SeqNo: 6340322			Prep Date: 4/4/2020		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			

pH 7.36 0.10 0 0 0 0-0 7.69 4.39 20

Temperature 20 0.10 0 0 0 19.8 1.01

DUP				Sample ID: 20040274-05A DUP				Units: s.u.		Analysis Date: 4/5/2020 11:30 AM			
Client ID: CAR41Y34-BG1				Run ID: WETCHEM_200405B				SeqNo: 6340325		Prep Date: 4/4/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			

pH 8.43 0.10 0 0 0 0-0 8.43 0 20

Temperature 19.9 0.10 0 0 0 20 0.501

The following samples were analyzed in this batch:

20040274-05A

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154378** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-154378-154378				Units: mg/Kg		Analysis Date: 4/9/2020 12:03 PM		
Client ID:		Run ID: WETCHEM_200409G				SeqNo: 6347082		Prep Date: 4/7/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent U 0.98

LCS		Sample ID: LCS-154378-154378				Units: mg/Kg		Analysis Date: 4/9/2020 12:03 PM		
Client ID:		Run ID: WETCHEM_200409G				SeqNo: 6347083		Prep Date: 4/7/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 5.465 0.99 4.95 0 110 80-120 0

MS		Sample ID: 20040273-01A MS				Units: mg/Kg		Analysis Date: 4/9/2020 12:03 PM		
Client ID:		Run ID: WETCHEM_200409G				SeqNo: 6347085		Prep Date: 4/7/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.039 0.98 4.902 0.7941 66.2 75-125 0 S

MS		Sample ID: 20040273-01A MSI				Units: mg/Kg		Analysis Date: 4/9/2020 12:03 PM		
Client ID:		Run ID: WETCHEM_200409G				SeqNo: 6347087		Prep Date: 4/7/2020		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2852 98 2997 0.7941 95.1 75-125 0

MSD		Sample ID: 20040273-01A MSD				Units: mg/Kg		Analysis Date: 4/9/2020 12:03 PM		
Client ID:		Run ID: WETCHEM_200409G				SeqNo: 6347086		Prep Date: 4/7/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 3.784 0.98 4.902 0.7941 61 75-125 4.039 6.52 20 S

The following samples were analyzed in this batch:

20040274-01A	20040274-02A	20040274-03A
20040274-04A	20040274-05A	

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

Client: Entrada Consulting Group
Work Order: 20040274
Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154416** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP		Sample ID: 20040273-01B DUP				Units: mmhos/cm @25°		Analysis Date: 4/9/2020 04:05 PM		
Client ID:		Run ID: WETCHEM_200409W				SeqNo: 6348165		Prep Date: 4/9/2020		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.4046	0.10	0	0	0		0.3994	1.29	50	

The following samples were analyzed in this batch:

20040274-01B	20040274-02B	20040274-03B
20040274-04B	20040274-05B	

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **R286106** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R286106				Units: % of sample		Analysis Date: 4/6/2020 11:25 AM		
Client ID:		Run ID: MOIST_200406B				SeqNo: 6342474		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-R286106					Units: % of sample		Analysis Date: 4/6/2020 11:25 AM		
Client ID:			Run ID: MOIST_200406B			SeqNo: 6342473		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: 20040273-01A DUP				Units: % of sample			Analysis Date: 4/6/2020 11:25 AM			
Client ID:				Run ID: MOIST_200406B				SeqNo: 6342460			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 6.2 0.10 0 0 0 0-0 5.95 4.12 10

DUP				Sample ID: 20040273-02A DUP				Units: % of sample			Analysis Date: 4/6/2020 11:25 AM												
Client ID:				Run ID: MOIST_200406B				SeqNo: 6342462			Prep Date:		DF: 1										
Analyte				Result		PQL		SPK Val		SPK Ref Value		%REC		Control Limit		RPD Ref Value		%RPD		RPD Limit		Qual	

Moisture 8.24 0.10 0 0 0 0-0 8.29 0.605 10

The following samples were analyzed in this batch:

20040274-01A	20040274-02A	20040274-03A
20040274-04A	20040274-05A	

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



Environmental

Chain of Custody Form

Page 1 of 1

COC ID: 123456

☐ Cincinnati, OH
+1 513 733 5336

☐ Everett, WA
+1 425 356 2600

☐ Fort Collins, CO
+1 970 490 1511

☒ Holland, MI
+1 616 399 6070

☐ Houston, TX
+1 281 530 5656

☐ Middletown, PA
+1 717 944 5541

☐ Salt Lake City, UT
+1 801 266 7700

☐ Spring City, PA
+1 610 948 4903

☐ York, PA
+1 717 505 5280

ALS Project Manager:

Work Order #:

70040274

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order		Project Name	Carney 41Y34 Spill	A TPH (GRO & DRO)											
Work Order		Project Number	018-066	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	tdobransky@entradainc.com	J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	CAR41Y34-SS1	4/1/20	830	Soil	8	2	X	X	X	X	X	X	X				
2	CAR41Y34-SS2	4/1/20	945	Soil	8	2	X	X	X	X	X	X	X				
3	CAR41Y34-SS3	4/1/20	1000	Soil	8	2	X	X	X	X	X	X	X				
4	CAR41Y34-SS4	4/1/20	1015	Soil	8	2	X	X	X	X	X	X	X				
5	CAR41Y34-BG1	4/1/20	1030	Soil	8	2				X	X	X	X				
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign Jason McLarty <i>[Signature]</i>		Shipment Method: FedEx		Required Turnaround Time: <input type="checkbox"/> STD 10 Wk Days <input checked="" type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour		Results Due Date:	
Relinquished by: <i>[Signature]</i>	Date: 4/2/20	Time: 1000	Received by: <i>[Signature]</i>		Notes: Chevron Pricing Applies - Per Bruce Schlatter		
Relinquished by: <i>[Signature]</i>	Date: 4-2-20	Time: 1015	Received by (Laboratory): <i>[Signature]</i>		Cooler Temp. 3.8°	QC Package: (Check Box Below)	
Logged by (Laboratory): <i>[Signature]</i>	Date: 4/3/20	Time: 1015	Checked by (Laboratory): <i>[Signature]</i>			<input checked="" type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Std QC + Raw Data <input type="checkbox"/> Level IV: SW846 CLP-Like	
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035					Other: <u>SEL</u>		

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

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Sample Receipt Checklist

Client Name: **ENTRADA**

Date/Time Received: **03-Apr-20 09:00**

Work Order: **20040274**

Received by: **KRW**

Checklist completed by **Keith Wierenga**

03-Apr-20

Reviewed by: **Chad Whelton**

03-Apr-20

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): **3.8/3.8 C** **SR2**

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: **4/3/2020 4:34:08 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: