

March 30, 2022

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Terra Energy Partners

Sample Delivery Group: L1474449
Samples Received: 03/23/2022
Project Number: TEP MCPERSON A
Description: Terra Energy Partners-McPerson A
Site: FLOWLINE
Report To: Mike Gardner
1058 County Road 215
Parachute, CO 81635

Entire Report Reviewed By:



Chris Ward
Project Manager

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Pace Analytical National

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

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¹ Cp

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⁸ Al

⁹ Sc

SAMPLE SUMMARY

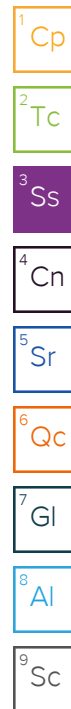
SL 1-TIE IN POINT L1474449-01 Solid

Collected by
Kris Rowe

Collected date/time
03/21/22 12:00

Received date/time
03/23/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1837455	1	03/26/22 14:18	03/26/22 14:18	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1839107	1	03/27/22 21:08	03/28/22 17:27	JER	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1838184	1	03/25/22 08:00	03/25/22 10:00	GI	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1839170	1	03/28/22 01:47	03/28/22 08:25	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1838397	1	03/28/22 16:49	03/29/22 01:24	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1839830	1	03/29/22 08:28	03/29/22 19:33	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1838399	5	03/28/22 09:04	03/28/22 18:47	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1837942	1	03/24/22 13:42	03/25/22 18:36	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1839104	1	03/24/22 13:42	03/28/22 18:11	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1839734	1	03/29/22 04:05	03/29/22 14:07	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1840014	1	03/29/22 17:02	03/30/22 02:22	AMG	Mt. Juliet, TN



SL 2-WEST SIDE OF FENCE L1474449-02 Solid

Collected by
Kris Rowe

Collected date/time
03/21/22 12:30

Received date/time
03/23/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1837455	1	03/26/22 14:21	03/26/22 14:21	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1839107	1	03/27/22 21:08	03/28/22 17:43	JER	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1838184	1	03/25/22 08:00	03/25/22 10:00	GI	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1839170	1	03/28/22 01:47	03/28/22 08:25	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1838397	1	03/28/22 16:49	03/29/22 01:27	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1839830	1	03/29/22 08:28	03/29/22 19:36	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1838399	5	03/28/22 09:04	03/28/22 18:51	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1837942	1	03/24/22 13:42	03/25/22 18:57	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1839104	1	03/24/22 13:42	03/28/22 18:30	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1839734	1	03/29/22 04:05	03/29/22 13:54	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1840014	1	03/29/22 17:02	03/30/22 01:29	AMG	Mt. Juliet, TN

SL 3-BKGD L1474449-03 Solid

Collected by
Kris Rowe

Collected date/time
03/21/22 13:00

Received date/time
03/23/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1837459	1	03/30/22 10:42	03/30/22 10:42	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1839107	1	03/27/22 21:08	03/28/22 17:48	JER	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1838184	1	03/25/22 08:00	03/25/22 10:00	GI	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1839170	1	03/28/22 01:47	03/28/22 08:25	ARD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1838401	5	03/27/22 18:09	03/28/22 14:38	SJM	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



SL 1-TIE IN POINT

Collected date/time: 03/21/22 12:00

SAMPLE RESULTS - 01

L1474449

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	10.3		1	03/26/2022 14:18	WG1837455

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	03/28/2022 17:27	WG1839107

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.78	T8	1	03/25/2022 10:00	WG1838184

Sample Narrative:

L1474449-01 WG1838184: 8.78 at 20.8C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1500		10.0	1	03/28/2022 08:25	WG1839170

Sample Narrative:

L1474449-01 WG1839170: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	212		0.0852	0.500	1	03/29/2022 01:24	WG1838397
Cadmium	0.404	J	0.0471	0.500	1	03/29/2022 01:24	WG1838397
Copper	12.2		0.400	2.00	1	03/29/2022 01:24	WG1838397
Lead	13.6		0.208	0.500	1	03/29/2022 01:24	WG1838397
Nickel	14.4		0.132	2.00	1	03/29/2022 01:24	WG1838397
Selenium	U		0.764	2.00	1	03/29/2022 01:24	WG1838397
Silver	U		0.127	1.00	1	03/29/2022 01:24	WG1838397
Zinc	56.8		0.832	5.00	1	03/29/2022 01:24	WG1838397

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

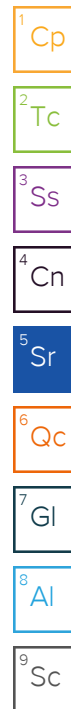
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.495		0.0167	0.200	1	03/29/2022 19:33	WG1839830

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.80		0.100	1.00	5	03/28/2022 18:47	WG1838399

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	0.0408	J	0.0217	0.100	1	03/25/2022 18:36	WG1837942
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	107			77.0-120		03/25/2022 18:36	WG1837942



SL 1-TIE IN POINT

Collected date/time: 03/21/22 12:00

SAMPLE RESULTS - 01

L1474449

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	03/28/2022 18:11	WG1839104
Toluene	U		0.00130	0.00500	1	03/28/2022 18:11	WG1839104
Ethylbenzene	U		0.000737	0.00250	1	03/28/2022 18:11	WG1839104
Xylenes, Total	U		0.000880	0.00650	1	03/28/2022 18:11	WG1839104
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	03/28/2022 18:11	WG1839104
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	03/28/2022 18:11	WG1839104
(S) Toluene-d8	114			75.0-131		03/28/2022 18:11	WG1839104
(S) 4-Bromofluorobenzene	95.1			67.0-138		03/28/2022 18:11	WG1839104
(S) 1,2-Dichloroethane-d4	102			70.0-130		03/28/2022 18:11	WG1839104

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	4.88		1.61	4.00	1	03/29/2022 14:07	WG1839734
C28-C36 Motor Oil Range	8.84		0.274	4.00	1	03/29/2022 14:07	WG1839734
(S) o-Terphenyl	62.3			18.0-148		03/29/2022 14:07	WG1839734

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
Anthracene	U		0.00230	0.00600	1	03/30/2022 02:22	WG1840014
Acenaphthene	U		0.00209	0.00600	1	03/30/2022 02:22	WG1840014
Acenaphthylene	U		0.00216	0.00600	1	03/30/2022 02:22	WG1840014
Benzo(a)anthracene	U		0.00173	0.00600	1	03/30/2022 02:22	WG1840014
Benzo(a)pyrene	U		0.00179	0.00600	1	03/30/2022 02:22	WG1840014
Benzo(b)fluoranthene	U		0.00153	0.00600	1	03/30/2022 02:22	WG1840014
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	03/30/2022 02:22	WG1840014
Benzo(k)fluoranthene	U		0.00215	0.00600	1	03/30/2022 02:22	WG1840014
Chrysene	U		0.00232	0.00600	1	03/30/2022 02:22	WG1840014
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	03/30/2022 02:22	WG1840014
Fluoranthene	U		0.00227	0.00600	1	03/30/2022 02:22	WG1840014
Fluorene	U		0.00205	0.00600	1	03/30/2022 02:22	WG1840014
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	03/30/2022 02:22	WG1840014
Naphthalene	U		0.00408	0.0200	1	03/30/2022 02:22	WG1840014
Phenanthrene	U		0.00231	0.00600	1	03/30/2022 02:22	WG1840014
Pyrene	U		0.00200	0.00600	1	03/30/2022 02:22	WG1840014
1-Methylnaphthalene	U		0.00449	0.0200	1	03/30/2022 02:22	WG1840014
2-Methylnaphthalene	U		0.00427	0.0200	1	03/30/2022 02:22	WG1840014
2-Chloronaphthalene	U		0.00466	0.0200	1	03/30/2022 02:22	WG1840014
(S) p-Terphenyl-d14	71.2			23.0-120		03/30/2022 02:22	WG1840014
(S) Nitrobenzene-d5	61.7			14.0-149		03/30/2022 02:22	WG1840014
(S) 2-Fluorobiphenyl	64.6			34.0-125		03/30/2022 02:22	WG1840014

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.550		1	03/26/2022 14:21	WG1837455

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	03/28/2022 17:43	WG1839107

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.63	T8	1	03/25/2022 10:00	WG1838184

Sample Narrative:

L1474449-02 WG1838184: 8.63 at 20.7C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	201		10.0	1	03/28/2022 08:25	WG1839170

Sample Narrative:

L1474449-02 WG1839170: at 25C

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	160		0.0852	0.500	1	03/29/2022 01:27	WG1838397
Cadmium	0.171	J	0.0471	0.500	1	03/29/2022 01:27	WG1838397
Copper	11.9		0.400	2.00	1	03/29/2022 01:27	WG1838397
Lead	12.1		0.208	0.500	1	03/29/2022 01:27	WG1838397
Nickel	15.0		0.132	2.00	1	03/29/2022 01:27	WG1838397
Selenium	U		0.764	2.00	1	03/29/2022 01:27	WG1838397
Silver	U		0.127	1.00	1	03/29/2022 01:27	WG1838397
Zinc	56.2		0.832	5.00	1	03/29/2022 01:27	WG1838397

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	0.273		0.0167	0.200	1	03/29/2022 19:36	WG1839830

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.14		0.100	1.00	5	03/28/2022 18:51	WG1838399

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	0.0471	J	0.0217	0.100	1	03/25/2022 18:57	WG1837942
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	107			77.0-120		03/25/2022 18:57	WG1837942

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

SL 2-WEST SIDE OF FENCE

SAMPLE RESULTS - 02

Collected date/time: 03/21/22 12:30

L1474449

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	03/28/2022 18:30	WG1839104
Toluene	U		0.00130	0.00500	1	03/28/2022 18:30	WG1839104
Ethylbenzene	U		0.000737	0.00250	1	03/28/2022 18:30	WG1839104
Xylenes, Total	0.000925	<u>J</u>	0.000880	0.00650	1	03/28/2022 18:30	WG1839104
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	03/28/2022 18:30	WG1839104
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	03/28/2022 18:30	WG1839104
(S) Toluene-d8	115			75.0-131		03/28/2022 18:30	WG1839104
(S) 4-Bromofluorobenzene	92.0			67.0-138		03/28/2022 18:30	WG1839104
(S) 1,2-Dichloroethane-d4	97.6			70.0-130		03/28/2022 18:30	WG1839104

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	2.02	<u>J</u>	1.61	4.00	1	03/29/2022 13:54	WG1839734
C28-C36 Motor Oil Range	2.71	<u>B J</u>	0.274	4.00	1	03/29/2022 13:54	WG1839734
(S) o-Terphenyl	55.8			18.0-148		03/29/2022 13:54	WG1839734

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
Anthracene	U		0.00230	0.00600	1	03/30/2022 01:29	WG1840014
Acenaphthene	U		0.00209	0.00600	1	03/30/2022 01:29	WG1840014
Acenaphthylene	U		0.00216	0.00600	1	03/30/2022 01:29	WG1840014
Benzo(a)anthracene	U		0.00173	0.00600	1	03/30/2022 01:29	WG1840014
Benzo(a)pyrene	U		0.00179	0.00600	1	03/30/2022 01:29	WG1840014
Benzo(b)fluoranthene	U		0.00153	0.00600	1	03/30/2022 01:29	WG1840014
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	03/30/2022 01:29	WG1840014
Benzo(k)fluoranthene	U		0.00215	0.00600	1	03/30/2022 01:29	WG1840014
Chrysene	U		0.00232	0.00600	1	03/30/2022 01:29	WG1840014
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	03/30/2022 01:29	WG1840014
Fluoranthene	U		0.00227	0.00600	1	03/30/2022 01:29	WG1840014
Fluorene	U		0.00205	0.00600	1	03/30/2022 01:29	WG1840014
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	03/30/2022 01:29	WG1840014
Naphthalene	U		0.00408	0.0200	1	03/30/2022 01:29	WG1840014
Phenanthrene	U		0.00231	0.00600	1	03/30/2022 01:29	WG1840014
Pyrene	U		0.00200	0.00600	1	03/30/2022 01:29	WG1840014
1-Methylnaphthalene	U		0.00449	0.0200	1	03/30/2022 01:29	WG1840014
2-Methylnaphthalene	U		0.00427	0.0200	1	03/30/2022 01:29	WG1840014
2-Chloronaphthalene	U		0.00466	0.0200	1	03/30/2022 01:29	WG1840014
(S) p-Terphenyl-d14	59.8			23.0-120		03/30/2022 01:29	WG1840014
(S) Nitrobenzene-d5	54.4			14.0-149		03/30/2022 01:29	WG1840014
(S) 2-Fluorobiphenyl	51.8			34.0-125		03/30/2022 01:29	WG1840014

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.858		1	03/30/2022 10:42	WG1837459

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	03/28/2022 17:48	WG1839107

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.60	T8	1	03/25/2022 10:00	WG1838184

Sample Narrative:

L1474449-03 WG1838184: 8.6 at 20.5C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	184		10.0	1	03/28/2022 08:25	WG1839170

Sample Narrative:

L1474449-03 WG1839170: at 25C

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.99		0.100	1.00	5	03/28/2022 14:38	WG1838401

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Method Blank (MB)

(MB) R3775144-1 03/28/22 16:41

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

L1474259-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1474259-01 03/28/22 16:51 • (DUP) R3775144-3 03/28/22 16:56

	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

L1474452-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1474452-01 03/28/22 19:11 • (DUP) R3775144-8 03/28/22 19:16

	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) R3775144-2 03/28/22 16:46

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	9.55	95.5	80.0-120	

L1474450-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1474450-01 03/28/22 17:53 • (MS) R3775144-4 03/28/22 17:59 • (MSD) R3775144-5 03/28/22 18:04

	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	0.557	19.4	20.6	94.1	100	1	75.0-125			6.27	20

L1474450-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1474450-01 03/28/22 17:53 • (MS) R3775144-6 03/28/22 18:09

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	673	0.557	708	105	50	75.0-125	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1474449-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1474449-01 03/25/22 10:00 • (DUP) R3773970-2 03/25/22 10:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	8.78	8.82	1	0.455		1

Sample Narrative:

OS: 8.78 at 20.8C

DUP: 8.82 at 20.8C



L1474450-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1474450-01 03/25/22 10:00 • (DUP) R3773970-3 03/25/22 10:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	pH	su		%		%
pH	11.6	11.6	1	0.258		1

Sample Narrative:

OS: 11.64 at 20.8C

DUP: 11.61 at 20.8C

Laboratory Control Sample (LCS)

(LCS) R3773970-1 03/25/22 10:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	su	%	%	
pH	10.0	9.95	99.5	99.0-101	

Sample Narrative:

LCS: 9.95 at 19.6C

Method Blank (MB)

(MB) R3774554-1 03/28/22 08:25

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

L1474761-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1474761-01 03/28/22 08:25 • (DUP) R3774554-3 03/28/22 08:25

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	4950	4920	1	0.608		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1474960-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1474960-05 03/28/22 08:25 • (DUP) R3774554-4 03/28/22 08:25

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	216	195	1	10.4		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3774554-2 03/28/22 08:25

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	268	270	101	85.0-115	

Sample Narrative:

LCS: at 25C



Method Blank (MB)

(MB) R3774962-1 03/29/22 01:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	U		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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3774962-2 03/29/22 01:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	104	104	80.0-120	
Cadmium	100	99.1	99.1	80.0-120	
Copper	100	99.1	99.1	80.0-120	
Lead	100	102	102	80.0-120	
Nickel	100	104	104	80.0-120	
Selenium	100	101	101	80.0-120	
Silver	20.0	19.5	97.7	80.0-120	
Zinc	100	99.4	99.4	80.0-120	

L1474430-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1474430-01 03/29/22 01:12 • (MS) R3774962-5 03/29/22 01:19 • (MSD) R3774962-6 03/29/22 01:22

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 %
Barium	100	55.9	169	170	113	114	1	75.0-125			1.04	20
Cadmium	100	U	106	108	106	108	1	75.0-125			1.95	20
Copper	100	10.1	115	119	105	109	1	75.0-125			3.09	20
Lead	100	U	108	110	108	110	1	75.0-125			1.86	20
Nickel	100	4.68	117	119	112	114	1	75.0-125			1.76	20
Selenium	100	5.28	115	117	110	112	1	75.0-125			1.81	20
Silver	20.0	U	19.9	20.4	99.6	102	1	75.0-125			2.25	20
Zinc	100	10.3	113	117	103	106	1	75.0-125			2.78	20

Method Blank (MB)

(MB) R3775423-1 03/29/22 19:13

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

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

(LCS) R3775423-2 03/29/22 19:16 • (LCSD) R3775423-3 03/29/22 19:19

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
Hot Water Sol. Boron	1.00	1.05	1.06	105	106	80.0-120			0.172	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3774881-1 03/28/22 18:03

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) R3774881-2 03/28/22 18:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	96.1	96.1	80.0-120	

L1474430-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1474430-01 03/28/22 18:10 • (MS) R3774881-5 03/28/22 18:20 • (MSD) R3774881-6 03/28/22 18:23

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	0.666	95.7	99.7	95.1	99.1	5	75.0-125			4.09	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3774800-1 03/28/22 13:34

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

Laboratory Control Sample (LCS)

(LCS) R3774800-2 03/28/22 13:38

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Arsenic	100	95.4	95.4	80.0-120	

L1474766-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1474766-03 03/28/22 13:41 • (MS) R3774800-5 03/28/22 13:52 • (MSD) R3774800-6 03/28/22 13:56

	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	%	%		%			%	%
Arsenic	100	3.64	92.8	85.7	89.1	82.1	5	75.0-125			7.94	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3774201-2 03/25/22 12:55

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)	109			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3774201-1 03/25/22 12:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.06	92.0	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			91.1	77.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3775470-3 03/28/22 17:52

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	114			75.0-131
(S) 4-Bromofluorobenzene	96.6			67.0-138
(S) 1,2-Dichloroethane-d4	102			70.0-130

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

(LCS) R3775470-1 03/28/22 16:34 • (LCSD) R3775470-2 03/28/22 16:53

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	0.0978	0.102	78.2	81.6	70.0-123			4.20	20
Toluene	0.125	0.111	0.117	88.8	93.6	75.0-121			5.26	20
Ethylbenzene	0.125	0.115	0.123	92.0	98.4	74.0-126			6.72	20
Xylenes, Total	0.375	0.344	0.365	91.7	97.3	72.0-127			5.92	20
1,2,4-Trimethylbenzene	0.125	0.0993	0.108	79.4	86.4	70.0-126			8.39	20
1,3,5-Trimethylbenzene	0.125	0.102	0.108	81.6	86.4	73.0-127			5.71	20
(S) Toluene-d8				108	112	75.0-131				
(S) 4-Bromofluorobenzene				96.4	97.6	67.0-138				
(S) 1,2-Dichloroethane-d4				103	103	70.0-130				

L1474761-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1474761-03 03/28/22 23:53 • (MS) R3775470-4 03/29/22 00:31 • (MSD) R3775470-5 03/29/22 00:50

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 %
Benzene	0.125	0.0378	0.301	0.291	211	203	1	10.0-149	J5	J5	3.38	37
Toluene	0.125	0.168	0.980	0.988	650	656	1	10.0-156	J5	J5	0.813	38
Ethylbenzene	0.125	0.0108	0.184	0.177	139	133	1	10.0-160			3.88	38
Xylenes, Total	0.375	0.207	1.23	1.17	273	257	1	10.0-160	J5	J5	5.00	38
1,2,4-Trimethylbenzene	0.125	0.0181	0.190	0.181	138	130	1	10.0-160			4.85	36
1,3,5-Trimethylbenzene	0.125	0.0185	0.192	0.186	139	134	1	10.0-160			3.17	38
(S) Toluene-d8					109	112		75.0-131				
(S) 4-Bromofluorobenzene					95.8	91.3		67.0-138				
(S) 1,2-Dichloroethane-d4					106	99.6		70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3775141-1 03/29/22 09:46

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	0.611	J	0.274	4.00
(S) o-Terphenyl	72.7			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3775141-2 03/29/22 10:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	33.5	67.0	50.0-150	
(S) o-Terphenyl			79.9	18.0-148	

L1474259-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1474259-03 03/29/22 15:12 • (MS) R3775387-1 03/29/22 15:24 • (MSD) R3775387-2 03/29/22 15:37

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	48.6	71.7	41.7	75.2	0.000	7.00	1	50.0-150	J6	J3 J6	57.3	20
(S) o-Terphenyl					43.7	53.9		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3775545-2 03/29/22 22:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	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
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	95.9			23.0-120
(S) Nitrobenzene-d5	77.5			14.0-149
(S) 2-Fluorobiphenyl	84.2			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3775545-1 03/29/22 21:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0618	77.3	50.0-126	
Acenaphthene	0.0800	0.0628	78.5	50.0-120	
Acenaphthylene	0.0800	0.0628	78.5	50.0-120	
Benzo(a)anthracene	0.0800	0.0660	82.5	45.0-120	
Benzo(a)pyrene	0.0800	0.0520	65.0	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0595	74.4	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0592	74.0	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0604	75.5	49.0-125	
Chrysene	0.0800	0.0649	81.1	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0594	74.3	47.0-125	
Fluoranthene	0.0800	0.0678	84.8	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3775545-1 03/29/22 21:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0627	78.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0646	80.7	46.0-125	
Naphthalene	0.0800	0.0578	72.3	50.0-120	
Phenanthrene	0.0800	0.0617	77.1	47.0-120	
Pyrene	0.0800	0.0708	88.5	43.0-123	
1-Methylnaphthalene	0.0800	0.0634	79.3	51.0-121	
2-Methylnaphthalene	0.0800	0.0645	80.6	50.0-120	
2-Chloronaphthalene	0.0800	0.0593	74.1	50.0-120	
(S) p-Terphenyl-d14			94.0	23.0-120	
(S) Nitrobenzene-d5			80.7	14.0-149	
(S) 2-Fluorobiphenyl			85.9	34.0-125	

L1474449-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1474449-01 03/30/22 02:22 • (MS) R3775545-3 03/30/22 02:40 • (MSD) R3775545-4 03/30/22 02:58

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 %
Anthracene	0.0800	U	0.0415	0.0320	51.9	40.0	1	10.0-145			25.9	30
Acenaphthene	0.0800	U	0.0440	0.0368	55.0	46.0	1	14.0-127			17.8	27
Acenaphthylene	0.0800	U	0.0420	0.0360	52.5	45.0	1	21.0-124			15.4	25
Benzo(a)anthracene	0.0800	U	0.0433	0.0341	54.1	42.6	1	10.0-139			23.8	30
Benzo(a)pyrene	0.0800	U	0.0485	0.0377	60.6	47.1	1	10.0-141			25.1	31
Benzo(b)fluoranthene	0.0800	U	0.0435	0.0321	54.4	40.1	1	10.0-140			30.2	36
Benzo(g,h,i)perylene	0.0800	U	0.0464	0.0364	58.0	45.5	1	10.0-140			24.2	33
Benzo(k)fluoranthene	0.0800	U	0.0454	0.0358	56.8	44.8	1	10.0-137			23.6	31
Chrysene	0.0800	U	0.0497	0.0396	62.1	49.5	1	10.0-145			22.6	30
Dibenz(a,h)anthracene	0.0800	U	0.0461	0.0366	57.6	45.8	1	10.0-132			23.0	31
Fluoranthene	0.0800	U	0.0443	0.0323	55.4	40.4	1	10.0-153			31.3	33
Fluorene	0.0800	U	0.0434	0.0344	54.3	43.0	1	11.0-130			23.1	29
Indeno(1,2,3-cd)pyrene	0.0800	U	0.0462	0.0352	57.8	44.0	1	10.0-137			27.0	32
Naphthalene	0.0800	U	0.0377	0.0388	47.1	48.5	1	10.0-135			2.88	27
Phenanthrene	0.0800	U	0.0431	0.0328	53.9	41.0	1	10.0-144			27.1	31
Pyrene	0.0800	U	0.0500	0.0365	62.5	45.6	1	10.0-148			31.2	35
1-Methylnaphthalene	0.0800	U	0.0420	0.0396	52.5	49.5	1	10.0-142			5.88	28
2-Methylnaphthalene	0.0800	U	0.0436	0.0410	54.5	51.3	1	10.0-137			6.15	28
2-Chloronaphthalene	0.0800	U	0.0435	0.0370	54.4	46.3	1	29.0-120			16.1	24
(S) p-Terphenyl-d14					74.7	74.0		23.0-120				
(S) Nitrobenzene-d5					66.2	64.7		14.0-149				
(S) 2-Fluorobiphenyl					71.6	69.9		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.
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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

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.



Client: HRL Compliance Solutions Inc. 2385 F 1/2 RD Grand Junction, CO 81505
Billing Info: Terra Energy Partners Attn: Tammi Gose 1058 County Road 215 Parachute, CO 81650 Acct #: TERENGPCO
Report To: Mike Gardner & Kris Rowe E-Mail: mgardner@terraep.com krowe@hrlcomp.com

Project Description: Terra Energy Partners - McPerson A City/State Collected: COLORADO
Phone: 970-243-3271 Client Project #: TEP McPerson A Lab Project #
Collected By: Kris Rowe Site/Facility ID: Flowline P.O. #
Collected By (Signature): Rush? (lab must be notified) Date Results Needed
Immediately Packed on Ice N Y X Same Day (200%) Next Day (100%) Two Day (50%) Three Day (25%)
Email? No X Yes Fax? X No Yes No. Of Cntrs

Table with 7 columns: Sample ID, Comp/Grab, Matrix*, Depth, Date, Time, No. Of Cntrs. Rows include SL 1 - Tie in Point, SL 2 - West Side of Fence, SL 3 - BKGD.

Table with 10 columns: Analysis / Container / Preservative, COGCC Table 915-1, SAR / EC / pH, Arsenic, Chromium (VI), and other analytes.

Page 1 of 1 Pace Analytical National Center for Testing & Innovation
12065 Lebanon Rd Mount Juliet, TN 37122
Ph: 615-758-5858 Ph: 800-767-5859 Fax: 615-758-5859
L# Table # Acct #: J129 Template: L1474449
Prelogin: PM: 824 - Chris Ward PB:
Shipped Via: FedEx Ground
Rem/Contaminant Sample #

Sample Receipt Checklist
COC Seal Present/Intact: Y N If Applicable
COC Signed/Accurate: Y N VOA Zero Headspace: Y N
Bottles arrive intact: Y N Pres. Correct/Check: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
RAD Screen <0.5 mR/hr: Y N

Remarks:
*Matrix SS-Soil GW-Groundwater WW-Waste Water DW-Drinking Water OT-Other
Relinquished by (Sign) Date: 3/22/22 Time: 1300 Relinquished by (Sign)
Relinquished by (Sign) Date: 3/22/22 Time: 1500 Relinquished by (Sign)
Relinquished by (Sign) Date: 3/25/22 Time: 0900 Received for lab by (Sign)
pH Temp Flow Other Hold #
Condition: (Lab Use)
COC Seal Intact Y N
pH Checked NCF: