ANALYTICAL REPORT

November 01, 2024

Pace Analytical Services, LLC
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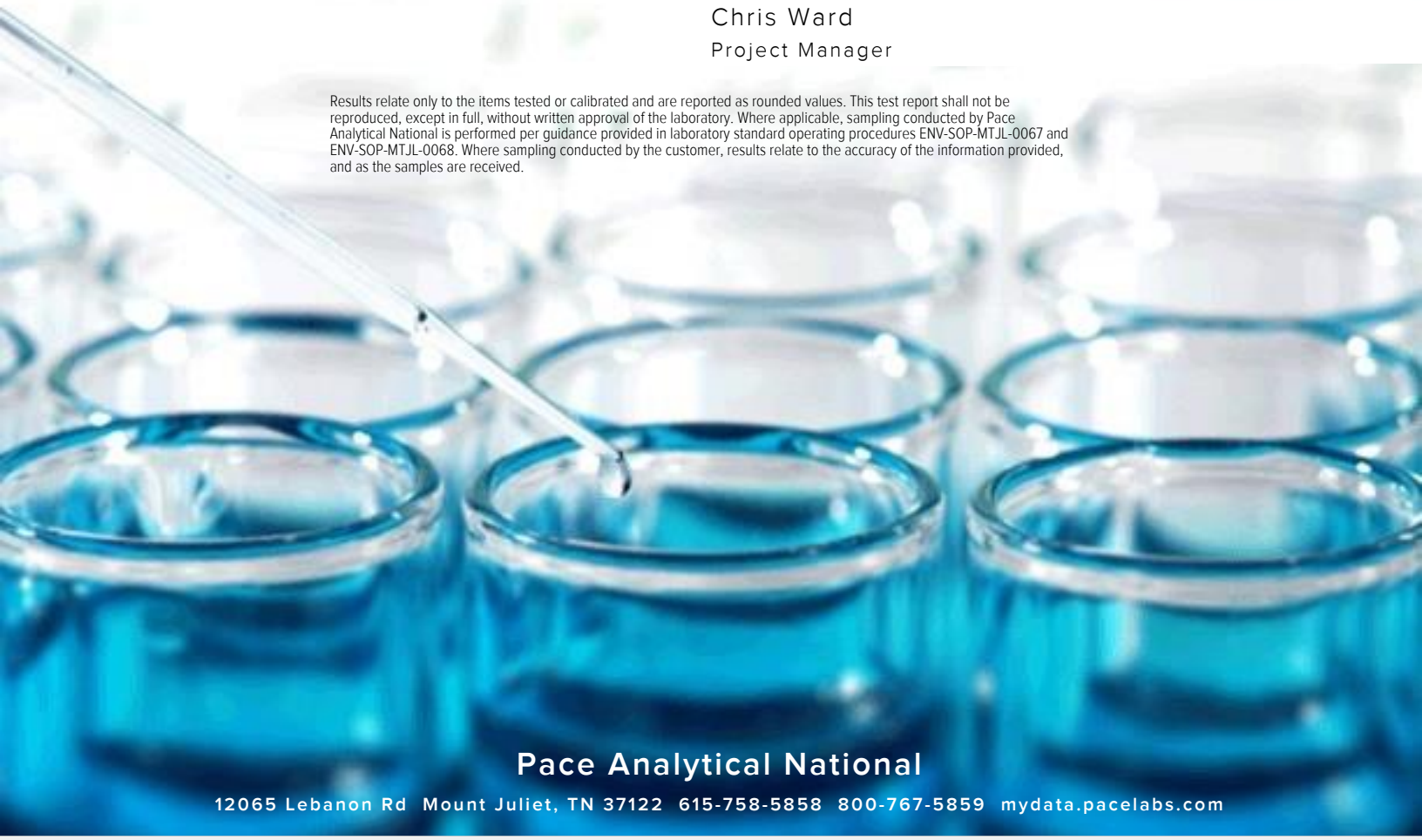
QB Energy

Sample Delivery Group:	L1789495
Samples Received:	10/16/2024
Project Number:	
Description:	Corral Creek 4508 Facility Decommissioning
Site:	CORRAL CREEK 4508
Report To:	Jake J. / Brett M. / Blair R. / Andy V. 143 Diamond Avenue Parachute, CO 81635

Entire Report Reviewed By:

Chris Ward
Project Manager



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

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20241015-M29 199-(FL-T-BASE02)@8 L1789495-01 Solid

Collected by: Trevor Lakin | Collected date/time: 10/15/24 13:23 | Received date/time: 10/16/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2385509	1	10/25/24 16:36	10/25/24 16:36	JTM	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2383311	1	10/22/24 13:56	10/23/24 05:54	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2389298	1	10/25/24 09:11	10/25/24 11:15	BRT	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2389303	1	10/25/24 09:12	10/25/24 15:30	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2385528	1	10/22/24 20:12	10/23/24 03:26	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2384321	5	10/22/24 08:25	10/22/24 17:38	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2386130	1.01	10/18/24 17:20	10/22/24 10:04	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2388642	1.01	10/18/24 17:20	10/25/24 03:55	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2389238	1	10/25/24 15:04	10/26/24 12:21	KDB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2388743	1	10/24/24 15:04	10/25/24 08:06	JCH	Mt. Juliet, TN

20241015-M29 199-(FL-T-SW02)@8 L1789495-02 Solid

Collected by: Trevor Lakin | Collected date/time: 10/15/24 13:26 | Received date/time: 10/16/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2385509	1	10/25/24 16:38	10/25/24 16:38	JTM	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2383311	1	10/22/24 13:56	10/23/24 06:05	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2389298	1	10/25/24 09:11	10/25/24 11:15	BRT	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2389303	1	10/25/24 09:12	10/25/24 15:30	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2385528	1	10/22/24 20:12	10/23/24 03:28	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2384865	5	10/18/24 10:54	10/18/24 21:54	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2386130	1	10/18/24 17:20	10/22/24 10:27	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2388642	1.01	10/18/24 17:20	10/25/24 04:14	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2389238	1	10/25/24 15:04	10/26/24 13:04	KDB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2388743	1	10/24/24 15:04	10/25/24 08:23	JCH	Mt. Juliet, TN

20241015-M29 199-(FL-T-EW02)@8 L1789495-03 Solid

Collected by: Trevor Lakin | Collected date/time: 10/15/24 13:28 | Received date/time: 10/16/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2385518	1	10/24/24 18:57	10/24/24 18:57	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2384027	1	10/20/24 17:02	10/21/24 13:34	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2388801	1	10/24/24 14:35	10/24/24 17:10	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2388813	1	10/24/24 14:37	10/24/24 15:07	KA	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2385532	1	10/22/24 20:14	10/23/24 08:26	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2384321	5	10/22/24 08:25	10/22/24 17:42	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2386130	1.01	10/18/24 17:20	10/22/24 10:56	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2388642	1	10/18/24 17:20	10/25/24 04:34	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2389238	1	10/25/24 15:04	10/26/24 12:35	KDB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2388743	1	10/24/24 15:04	10/25/24 08:41	JCH	Mt. Juliet, TN

20241015-M29 199-(FL-T-NW02)@8 L1789495-04 Solid

Collected by: Trevor Lakin | Collected date/time: 10/15/24 13:32 | Received date/time: 10/16/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2385518	1	10/24/24 18:59	10/24/24 18:59	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2384027	1	10/20/24 17:02	10/21/24 13:40	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2388801	1	10/24/24 14:35	10/24/24 17:10	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2388813	1	10/24/24 14:37	10/24/24 15:07	KA	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2385532	1	10/22/24 20:14	10/23/24 08:29	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2384321	5	10/22/24 08:25	10/22/24 17:45	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2386130	1	10/18/24 17:20	10/22/24 11:19	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2388642	1	10/18/24 17:20	10/25/24 04:54	ACG	Mt. Juliet, TN

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

SAMPLE SUMMARY

20241015-M29 199-(FL-T-NW02)@8 L1789495-04 Solid

Collected by: Trevor Lakin
Collected date/time: 10/15/24 13:32
Received date/time: 10/16/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2389238	1	10/25/24 15:04	10/26/24 12:49	KDB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2388743	1	10/24/24 15:04	10/25/24 08:59	JCH	Mt. Juliet, TN

20241015-M29 199-(FL-T-STOCK02) L1789495-05 Solid

Collected by: Trevor Lakin
Collected date/time: 10/15/24 13:35
Received date/time: 10/16/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2385518	1	10/24/24 19:00	10/24/24 19:00	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2384027	1	10/20/24 17:02	10/21/24 13:53	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2388801	1	10/24/24 14:35	10/24/24 17:10	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2388813	1	10/24/24 14:37	10/24/24 15:07	KA	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2391536	1	10/31/24 08:42	10/31/24 16:36	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2384321	5	10/22/24 08:25	10/22/24 17:55	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2386130	1.01	10/18/24 17:20	10/22/24 11:43	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2388642	1	10/18/24 17:20	10/25/24 05:14	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2389238	1	10/25/24 15:04	10/26/24 16:09	KDB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2388743	1	10/24/24 15:04	10/25/24 11:02	JCH	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	9.29		1	10/25/2024 16:36	WG2385509

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	10/23/2024 05:54	WG2383311

Wet Chemistry by Method 9045D

Analyte	Result pH	Qualifier	Dilution	Analysis date / time	Batch
pH	8.94	T8	1	10/25/2024 11:15	WG2389298

Sample Narrative:

L1789495-01 WG2389298: 8.94 at 20.3C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	719	umhos/cm		10.0	1	10/25/2024 15:30	WG2389303

Sample Narrative:

L1789495-01 WG2389303: at 25C

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.236		0.0167	0.200	1	10/23/2024 03:26	WG2385528

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.48		0.100	1.00	5	10/22/2024 17:38	WG2384321
Barium	200		0.152	2.50	5	10/22/2024 17:38	WG2384321
Cadmium	U		0.0855	1.00	5	10/22/2024 17:38	WG2384321
Copper	7.13		0.132	5.00	5	10/22/2024 17:38	WG2384321
Lead	10.7		0.0990	2.00	5	10/22/2024 17:38	WG2384321
Nickel	14.4		0.197	2.50	5	10/22/2024 17:38	WG2384321
Selenium	0.516	J	0.180	2.50	5	10/22/2024 17:38	WG2384321
Silver	U		0.0865	0.500	5	10/22/2024 17:38	WG2384321
Zinc	44.0		0.740	25.0	5	10/22/2024 17:38	WG2384321

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	0.0257	J	0.0219	0.101	1.01	10/22/2024 10:04	WG2386130
(S) a,a,a-Trifluorotoluene(FID)	*99.8*			*77.0-120*		*10/22/2024 10:04*	WG2386130

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	10/25/2024 03:55	WG2388642
Toluene	0.00237	B J	0.00131	0.00505	1.01	10/25/2024 03:55	WG2388642
Ethylbenzene	U		0.000744	0.00253	1.01	10/25/2024 03:55	WG2388642
Xylenes, Total	U		0.000889	0.00656	1.01	10/25/2024 03:55	WG2388642
1,2,4-Trimethylbenzene	U		0.00160	0.00505	1.01	10/25/2024 03:55	WG2388642
1,3,5-Trimethylbenzene	U		0.00202	0.00505	1.01	10/25/2024 03:55	WG2388642
(S) Toluene-d8	*101*			*75.0-131*		*10/25/2024 03:55*	WG2388642
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*10/25/2024 03:55*	WG2388642
(S) 1,2-Dichloroethane-d4	*90.4*			*70.0-130*		*10/25/2024 03:55*	WG2388642

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	3.50	J	1.61	4.00	1	10/26/2024 12:21	WG2389238
C28-C36 Motor Oil Range	4.77		0.274	4.00	1	10/26/2024 12:21	WG2389238
(S) o-Terphenyl	*52.7*			*18.0-148*		*10/26/2024 12:21*	WG2389238

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	10/25/2024 08:06	WG2388743
Anthracene	U		0.00230	0.00600	1	10/25/2024 08:06	WG2388743
Benzo(a)anthracene	U		0.00173	0.00600	1	10/25/2024 08:06	WG2388743
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/25/2024 08:06	WG2388743
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/25/2024 08:06	WG2388743
Benzo(a)pyrene	U		0.00179	0.00600	1	10/25/2024 08:06	WG2388743
Chrysene	U		0.00232	0.00600	1	10/25/2024 08:06	WG2388743
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/25/2024 08:06	WG2388743
Fluoranthene	U		0.00227	0.00600	1	10/25/2024 08:06	WG2388743
Fluorene	U		0.00205	0.00600	1	10/25/2024 08:06	WG2388743
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/25/2024 08:06	WG2388743
1-Methylnaphthalene	U		0.00449	0.0200	1	10/25/2024 08:06	WG2388743
2-Methylnaphthalene	U		0.00427	0.0200	1	10/25/2024 08:06	WG2388743
Naphthalene	U		0.00408	0.0200	1	10/25/2024 08:06	WG2388743
Pyrene	U		0.00200	0.00600	1	10/25/2024 08:06	WG2388743
(S) p-Terphenyl-d14	*72.0*			*23.0-120*		*10/25/2024 08:06*	WG2388743
(S) Nitrobenzene-d5	*40.2*			*14.0-149*		*10/25/2024 08:06*	WG2388743
(S) 2-Fluorobiphenyl	*59.0*			*34.0-125*		*10/25/2024 08:06*	WG2388743

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.14		1	10/25/2024 16:38	WG2385509

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	10/23/2024 06:05	WG2383311

Wet Chemistry by Method 9045D

Analyte	Result pH	Qualifier	Dilution	Analysis date / time	Batch
pH	8.86	T8	1	10/25/2024 11:15	WG2389298

Sample Narrative:

L1789495-02 WG2389298: 8.86 at 19.9C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	784	umhos/cm		10.0	1	10/25/2024 15:30	WG2389303

Sample Narrative:

L1789495-02 WG2389303: at 25C

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.320		0.0167	0.200	1	10/23/2024 03:28	WG2385528

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.88		0.100	1.00	5	10/18/2024 21:54	WG2384865
Barium	140		0.152	2.50	5	10/18/2024 21:54	WG2384865
Cadmium	0.0975	J	0.0855	1.00	5	10/18/2024 21:54	WG2384865
Copper	6.96		0.132	5.00	5	10/18/2024 21:54	WG2384865
Lead	8.95		0.0990	2.00	5	10/18/2024 21:54	WG2384865
Nickel	14.1		0.197	2.50	5	10/18/2024 21:54	WG2384865
Selenium	0.409	J	0.180	2.50	5	10/18/2024 21:54	WG2384865
Silver	U		0.0865	0.500	5	10/18/2024 21:54	WG2384865
Zinc	35.7		0.740	25.0	5	10/18/2024 21:54	WG2384865

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	0.0250	J	0.0217	0.100	1	10/22/2024 10:27	WG2386130
(S) a,a,a-Trifluorotoluene(FID)	*99.3*			*77.0-120*		*10/22/2024 10:27*	WG2386130

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	10/25/2024 04:14	WG2388642
Toluene	0.00230	B J	0.00131	0.00505	1.01	10/25/2024 04:14	WG2388642
Ethylbenzene	U		0.000744	0.00253	1.01	10/25/2024 04:14	WG2388642
Xylenes, Total	U		0.000889	0.00656	1.01	10/25/2024 04:14	WG2388642
1,2,4-Trimethylbenzene	U		0.00160	0.00505	1.01	10/25/2024 04:14	WG2388642
1,3,5-Trimethylbenzene	U		0.00202	0.00505	1.01	10/25/2024 04:14	WG2388642
(S) Toluene-d8	*101*			*75.0-131*		*10/25/2024 04:14*	WG2388642
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*10/25/2024 04:14*	WG2388642
(S) 1,2-Dichloroethane-d4	*93.1*			*70.0-130*		*10/25/2024 04:14*	WG2388642

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	2.61	J	1.61	4.00	1	10/26/2024 13:04	WG2389238
C28-C36 Motor Oil Range	4.59		0.274	4.00	1	10/26/2024 13:04	WG2389238
(S) o-Terphenyl	*81.7*			*18.0-148*		*10/26/2024 13:04*	WG2389238

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	10/25/2024 08:23	WG2388743
Anthracene	U		0.00230	0.00600	1	10/25/2024 08:23	WG2388743
Benzo(a)anthracene	U		0.00173	0.00600	1	10/25/2024 08:23	WG2388743
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/25/2024 08:23	WG2388743
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/25/2024 08:23	WG2388743
Benzo(a)pyrene	U		0.00179	0.00600	1	10/25/2024 08:23	WG2388743
Chrysene	U		0.00232	0.00600	1	10/25/2024 08:23	WG2388743
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/25/2024 08:23	WG2388743
Fluoranthene	U		0.00227	0.00600	1	10/25/2024 08:23	WG2388743
Fluorene	U		0.00205	0.00600	1	10/25/2024 08:23	WG2388743
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/25/2024 08:23	WG2388743
1-Methylnaphthalene	U		0.00449	0.0200	1	10/25/2024 08:23	WG2388743
2-Methylnaphthalene	U		0.00427	0.0200	1	10/25/2024 08:23	WG2388743
Naphthalene	U		0.00408	0.0200	1	10/25/2024 08:23	WG2388743
Pyrene	U		0.00200	0.00600	1	10/25/2024 08:23	WG2388743
(S) p-Terphenyl-d14	*76.5*			*23.0-120*		*10/25/2024 08:23*	WG2388743
(S) Nitrobenzene-d5	*45.6*			*14.0-149*		*10/25/2024 08:23*	WG2388743
(S) 2-Fluorobiphenyl	*65.8*			*34.0-125*		*10/25/2024 08:23*	WG2388743

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.75		1	10/24/2024 18:57	WG2385518

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	10/21/2024 13:34	WG2384027

Wet Chemistry by Method 9045D

Analyte	Result pH	Qualifier	Dilution	Analysis date / time	Batch
pH	9.41	T8	1	10/24/2024 17:10	WG2388801

Sample Narrative:

L1789495-03 WG2388801: 9.41 at 20.8C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	544	umhos/cm		10.0	1	10/24/2024 15:07	WG2388813

Sample Narrative:

L1789495-03 WG2388813: at 25C

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.219		0.0167	0.200	1	10/23/2024 08:26	WG2385532

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.56		0.100	1.00	5	10/22/2024 17:42	WG2384321
Barium	197		0.152	2.50	5	10/22/2024 17:42	WG2384321
Cadmium	0.216	J	0.0855	1.00	5	10/22/2024 17:42	WG2384321
Copper	9.83		0.132	5.00	5	10/22/2024 17:42	WG2384321
Lead	15.3		0.0990	2.00	5	10/22/2024 17:42	WG2384321
Nickel	18.2		0.197	2.50	5	10/22/2024 17:42	WG2384321
Selenium	0.412	J	0.180	2.50	5	10/22/2024 17:42	WG2384321
Silver	U		0.0865	0.500	5	10/22/2024 17:42	WG2384321
Zinc	44.1		0.740	25.0	5	10/22/2024 17:42	WG2384321

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	0.0326	J	0.0219	0.101	1.01	10/22/2024 10:56	WG2386130
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*77.0-120*		*10/22/2024 10:56*	WG2386130

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	10/25/2024 04:34	WG2388642
Toluene	0.00232	B J	0.00130	0.00500	1	10/25/2024 04:34	WG2388642
Ethylbenzene	U		0.000737	0.00250	1	10/25/2024 04:34	WG2388642
Xylenes, Total	U		0.000880	0.00650	1	10/25/2024 04:34	WG2388642
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	10/25/2024 04:34	WG2388642
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	10/25/2024 04:34	WG2388642
(S) Toluene-d8	*102*			*75.0-131*		*10/25/2024 04:34*	WG2388642
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/25/2024 04:34*	WG2388642
(S) 1,2-Dichloroethane-d4	*91.1*			*70.0-130*		*10/25/2024 04:34*	WG2388642

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	4.50		1.61	4.00	1	10/26/2024 12:35	WG2389238
C28-C36 Motor Oil Range	3.08	J	0.274	4.00	1	10/26/2024 12:35	WG2389238
(S) o-Terphenyl	*69.5*			*18.0-148*		*10/26/2024 12:35*	WG2389238

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	10/25/2024 08:41	WG2388743
Anthracene	U		0.00230	0.00600	1	10/25/2024 08:41	WG2388743
Benzo(a)anthracene	U		0.00173	0.00600	1	10/25/2024 08:41	WG2388743
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/25/2024 08:41	WG2388743
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/25/2024 08:41	WG2388743
Benzo(a)pyrene	U		0.00179	0.00600	1	10/25/2024 08:41	WG2388743
Chrysene	U		0.00232	0.00600	1	10/25/2024 08:41	WG2388743
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/25/2024 08:41	WG2388743
Fluoranthene	U		0.00227	0.00600	1	10/25/2024 08:41	WG2388743
Fluorene	U		0.00205	0.00600	1	10/25/2024 08:41	WG2388743
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/25/2024 08:41	WG2388743
1-Methylnaphthalene	U		0.00449	0.0200	1	10/25/2024 08:41	WG2388743
2-Methylnaphthalene	U		0.00427	0.0200	1	10/25/2024 08:41	WG2388743
Naphthalene	U		0.00408	0.0200	1	10/25/2024 08:41	WG2388743
Pyrene	U		0.00200	0.00600	1	10/25/2024 08:41	WG2388743
(S) p-Terphenyl-d14	*64.3*			*23.0-120*		*10/25/2024 08:41*	WG2388743
(S) Nitrobenzene-d5	*38.9*			*14.0-149*		*10/25/2024 08:41*	WG2388743
(S) 2-Fluorobiphenyl	*58.3*			*34.0-125*		*10/25/2024 08:41*	WG2388743

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	7.44		1	10/24/2024 18:59	WG2385518

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	10/21/2024 13:40	WG2384027

Wet Chemistry by Method 9045D

Analyte	Result pH	Qualifier	Dilution	Analysis date / time	Batch
pH	9.24	T8	1	10/24/2024 17:10	WG2388801

Sample Narrative:

L1789495-04 WG2388801: 9.24 at 20.7C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	393	umhos/cm		10.0	1	10/24/2024 15:07	WG2388813

Sample Narrative:

L1789495-04 WG2388813: at 25C

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.261		0.0167	0.200	1	10/23/2024 08:29	WG2385532

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.82		0.100	1.00	5	10/22/2024 17:45	WG2384321
Barium	168		0.152	2.50	5	10/22/2024 17:45	WG2384321
Cadmium	U		0.0855	1.00	5	10/22/2024 17:45	WG2384321
Copper	7.81		0.132	5.00	5	10/22/2024 17:45	WG2384321
Lead	12.0		0.0990	2.00	5	10/22/2024 17:45	WG2384321
Nickel	13.4		0.197	2.50	5	10/22/2024 17:45	WG2384321
Selenium	0.503	J	0.180	2.50	5	10/22/2024 17:45	WG2384321
Silver	U		0.0865	0.500	5	10/22/2024 17:45	WG2384321
Zinc	48.5		0.740	25.0	5	10/22/2024 17:45	WG2384321

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	0.0255	J	0.0217	0.100	1	10/22/2024 11:19	WG2386130
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*		*10/22/2024 11:19*	WG2386130

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	10/25/2024 04:54	WG2388642
Toluene	0.00188	B J	0.00130	0.00500	1	10/25/2024 04:54	WG2388642
Ethylbenzene	U		0.000737	0.00250	1	10/25/2024 04:54	WG2388642
Xylenes, Total	U		0.000880	0.00650	1	10/25/2024 04:54	WG2388642
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	10/25/2024 04:54	WG2388642
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	10/25/2024 04:54	WG2388642
(S) Toluene-d8	*101*			*75.0-131*		*10/25/2024 04:54*	WG2388642
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/25/2024 04:54*	WG2388642
(S) 1,2-Dichloroethane-d4	*87.9*			*70.0-130*		*10/25/2024 04:54*	WG2388642

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	24.1		1.61	4.00	1	10/26/2024 12:49	WG2389238
C28-C36 Motor Oil Range	3.30	J	0.274	4.00	1	10/26/2024 12:49	WG2389238
(S) o-Terphenyl	*64.4*			*18.0-148*		*10/26/2024 12:49*	WG2389238

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	10/25/2024 08:59	WG2388743
Anthracene	U		0.00230	0.00600	1	10/25/2024 08:59	WG2388743
Benzo(a)anthracene	U		0.00173	0.00600	1	10/25/2024 08:59	WG2388743
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/25/2024 08:59	WG2388743
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/25/2024 08:59	WG2388743
Benzo(a)pyrene	U		0.00179	0.00600	1	10/25/2024 08:59	WG2388743
Chrysene	U		0.00232	0.00600	1	10/25/2024 08:59	WG2388743
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/25/2024 08:59	WG2388743
Fluoranthene	U		0.00227	0.00600	1	10/25/2024 08:59	WG2388743
Fluorene	U		0.00205	0.00600	1	10/25/2024 08:59	WG2388743
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/25/2024 08:59	WG2388743
1-Methylnaphthalene	U		0.00449	0.0200	1	10/25/2024 08:59	WG2388743
2-Methylnaphthalene	U		0.00427	0.0200	1	10/25/2024 08:59	WG2388743
Naphthalene	U		0.00408	0.0200	1	10/25/2024 08:59	WG2388743
Pyrene	U		0.00200	0.00600	1	10/25/2024 08:59	WG2388743
(S) p-Terphenyl-d14	*70.5*			*23.0-120*		*10/25/2024 08:59*	WG2388743
(S) Nitrobenzene-d5	*45.8*			*14.0-149*		*10/25/2024 08:59*	WG2388743
(S) 2-Fluorobiphenyl	*62.7*			*34.0-125*		*10/25/2024 08:59*	WG2388743

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.18		1	10/24/2024 19:00	WG2385518

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.323	J	0.255	1.00	1	10/21/2024 13:53	WG2384027

Wet Chemistry by Method 9045D

Analyte	Result pH	Qualifier	Dilution	Analysis date / time	Batch
pH	8.75	T8	1	10/24/2024 17:10	WG2388801

Sample Narrative:

L1789495-05 WG2388801: 8.75 at 20.7C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	388	umhos/cm		10.0	1	10/24/2024 15:07	WG2388813

Sample Narrative:

L1789495-05 WG2388813: at 25C

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.506		0.0167	0.200	1	10/31/2024 16:36	WG2391536

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.41		0.100	1.00	5	10/22/2024 17:55	WG2384321
Barium	692		0.152	2.50	5	10/22/2024 17:55	WG2384321
Cadmium	0.0962	J	0.0855	1.00	5	10/22/2024 17:55	WG2384321
Copper	10.8		0.132	5.00	5	10/22/2024 17:55	WG2384321
Lead	16.6		0.0990	2.00	5	10/22/2024 17:55	WG2384321
Nickel	18.7		0.197	2.50	5	10/22/2024 17:55	WG2384321
Selenium	0.597	J	0.180	2.50	5	10/22/2024 17:55	WG2384321
Silver	U		0.0865	0.500	5	10/22/2024 17:55	WG2384321
Zinc	50.8		0.740	25.0	5	10/22/2024 17:55	WG2384321

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	0.0388	J	0.0219	0.101	1.01	10/22/2024 11:43	WG2386130
(S) a,a,a-Trifluorotoluene(FID)	*99.8*			*77.0-120*		*10/22/2024 11:43*	WG2386130

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	0.000750	J	0.000467	0.00100	1	10/25/2024 05:14	WG2388642
Toluene	0.00573	B	0.00130	0.00500	1	10/25/2024 05:14	WG2388642
Ethylbenzene	U		0.000737	0.00250	1	10/25/2024 05:14	WG2388642
Xylenes, Total	0.00767		0.000880	0.00650	1	10/25/2024 05:14	WG2388642
1,2,4-Trimethylbenzene	0.00288	J	0.00158	0.00500	1	10/25/2024 05:14	WG2388642
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	10/25/2024 05:14	WG2388642
(S) Toluene-d8	*101*			*75.0-131*		*10/25/2024 05:14*	WG2388642
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*10/25/2024 05:14*	WG2388642
(S) 1,2-Dichloroethane-d4	*92.5*			*70.0-130*		*10/25/2024 05:14*	WG2388642

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	46.8		1.61	4.00	1	10/26/2024 16:09	WG2389238
C28-C36 Motor Oil Range	73.6		0.274	4.00	1	10/26/2024 16:09	WG2389238
(S) o-Terphenyl	*47.8*			*18.0-148*		*10/26/2024 16:09*	WG2389238

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	10/25/2024 11:02	WG2388743
Anthracene	U		0.00230	0.00600	1	10/25/2024 11:02	WG2388743
Benzo(a)anthracene	U		0.00173	0.00600	1	10/25/2024 11:02	WG2388743
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/25/2024 11:02	WG2388743
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/25/2024 11:02	WG2388743
Benzo(a)pyrene	U		0.00179	0.00600	1	10/25/2024 11:02	WG2388743
Chrysene	U		0.00232	0.00600	1	10/25/2024 11:02	WG2388743
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/25/2024 11:02	WG2388743
Fluoranthene	U		0.00227	0.00600	1	10/25/2024 11:02	WG2388743
Fluorene	U		0.00205	0.00600	1	10/25/2024 11:02	WG2388743
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/25/2024 11:02	WG2388743
1-Methylnaphthalene	U		0.00449	0.0200	1	10/25/2024 11:02	WG2388743
2-Methylnaphthalene	U		0.00427	0.0200	1	10/25/2024 11:02	WG2388743
Naphthalene	U		0.00408	0.0200	1	10/25/2024 11:02	WG2388743
Pyrene	U		0.00200	0.00600	1	10/25/2024 11:02	WG2388743
(S) p-Terphenyl-d14	*71.9*			*23.0-120*		*10/25/2024 11:02*	WG2388743
(S) Nitrobenzene-d5	*45.0*			*14.0-149*		*10/25/2024 11:02*	WG2388743
(S) 2-Fluorobiphenyl	*64.1*			*34.0-125*		*10/25/2024 11:02*	WG2388743

Method Blank (MB)

(MB) R4136207-1 10/23/24 00:39

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

L1788585-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1788585-02 10/23/24 03:27 • (DUP) R4136207-7 10/23/24 03:38

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

L1788585-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1788585-06 10/23/24 04:20 • (DUP) R4136207-8 10/23/24 04:51

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	0.310	U	1	200	P1	20

Laboratory Control Sample (LCS)

(LCS) R4136207-2 10/23/24 00:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	9.90	99.0	80.0-120	

L1788475-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1788475-01 10/23/24 01:00 • (MS) R4136207-3 10/23/24 01:11 • (MSD) R4136207-4 10/23/24 01:21

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	6.75	23.3	23.5	82.6	83.8	1	75.0-125			1.02	20

L1788475-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1788475-01 10/23/24 01:00 • (MS) R4136207-5 10/23/24 01:32

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	636	6.75	482	75.7	50	75.0-125	

Method Blank (MB)

(MB) R4135539-1 10/21/24 10:51

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

L1789489-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1789489-01 10/21/24 11:06 • (DUP) R4135539-3 10/21/24 11:12

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

L1789495-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1789495-04 10/21/24 13:40 • (DUP) R4135539-8 10/21/24 13:47

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

Laboratory Control Sample (LCS)

(LCS) R4135539-2 10/21/24 11:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	10.2	102	80.0-120	

L1789489-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1789489-05 10/21/24 11:37 • (MS) R4135539-4 10/21/24 11:43 • (MSD) R4135539-5 10/21/24 11:49

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	16.5	17.5	82.5	87.4	1	75.0-125			5.70	20

L1789489-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1789489-05 10/21/24 11:37 • (MS) R4135539-6 10/21/24 12:08

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	651	U	720	111	50	75.0-125	

L1789495-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1789495-03 10/24/24 17:10 • (DUP) R4137327-2 10/24/24 17:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	pH	su		%		%
pH	9.41	9.44	1	0.318		1

Sample Narrative:

OS: 9.41 at 20.8C

DUP: 9.44 at 20.7C

L1789677-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1789677-08 10/24/24 17:10 • (DUP) R4137327-3 10/24/24 17:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.80	7.80	1	0.000		1

Sample Narrative:

OS: 7.8 at 20C

DUP: 7.8 at 20.2C

Laboratory Control Sample (LCS)

(LCS) R4137327-1 10/24/24 17:10

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.99	99.9	99.0-101	

Sample Narrative:

LCS: 9.99 at 19.2C

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

L1789493-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1789493-02 10/25/24 11:15 • (DUP) R4137645-2 10/25/24 11:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	pH	su		%		%
pH	9.35	9.34	1	0.107		1

Sample Narrative:

OS: 9.35 at 20.3C

DUP: 9.34 at 20.5C

Laboratory Control Sample (LCS)

(LCS) R4137645-1 10/25/24 11:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.94	99.4	99.0-101	

Sample Narrative:

LCS: 9.94 at 20.1C

Method Blank (MB)

(MB) R4137210-1 10/24/24 15:07

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

L1789570-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1789570-01 10/24/24 15:07 • (DUP) R4137210-3 10/24/24 15:07

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	17700	17700	1	0.000		20

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

L1789873-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1789873-03 10/24/24 15:07 • (DUP) R4137210-4 10/24/24 15:07

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	1230	1210	1	1.31		20

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

Laboratory Control Sample (LCS)

(LCS) R4137210-2 10/24/24 15:07

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	733	732	99.9	85.0-115	

Sample Narrative:
LCS: at 25C

Method Blank (MB)

(MB) R4137777-1 10/25/24 15:30

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

Sample Narrative:

BLANK: at 25C

L1789493-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1789493-04 10/25/24 15:30 • (DUP) R4137777-3 10/25/24 15:30

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	863	856	1	0.814		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4137777-2 10/25/24 15:30

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	733	751	102	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) R4136201-1 10/23/24 03:21

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) R4136201-2 10/23/24 03:23 • (LCSD) R4136201-3 10/23/24 03:25

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	0.992	1.01	99.2	101	80.0-120			1.50	20

Method Blank (MB)

(MB) R4136682-1 10/23/24 08:18

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) R4136682-2 10/23/24 08:21 • (LCSD) R4136682-3 10/23/24 08:24

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	1.01	1.03	101	103	80.0-120			1.77	20

Method Blank (MB)

(MB) R4140535-1 10/31/24 16:28

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) R4140535-2 10/31/24 16:31 • (LCSD) R4140535-3 10/31/24 16:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.07	1.06	107	106	80.0-120			1.13	20

QUALITY CONTROL SUMMARY

L1789495-01,03,04,05

Method Blank (MB)

(MB) R4136115-1 10/22/24 17:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00
Barium	U		0.152	2.50
Cadmium	U		0.0855	1.00
Copper	U		0.133	5.00
Lead	U		0.0990	2.00
Nickel	U		0.197	2.50
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500
Zinc	0.823	J	0.740	25.0

Laboratory Control Sample (LCS)

(LCS) R4136115-2 10/22/24 17:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	97.0	97.0	80.0-120	
Barium	100	93.6	93.6	80.0-120	
Cadmium	100	98.9	98.9	80.0-120	
Copper	100	97.7	97.7	80.0-120	
Lead	100	94.4	94.4	80.0-120	
Nickel	100	100	100	80.0-120	
Selenium	100	94.7	94.7	80.0-120	
Silver	20.0	19.0	95.1	80.0-120	
Zinc	100	98.0	98.0	80.0-120	

L1789702-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1789702-05 10/22/24 17:22 • (MS) R4136115-5 10/22/24 17:32 • (MSD) R4136115-6 10/22/24 17:35

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	10.6	95.6	98.1	85.0	87.5	5	75.0-125			2.58	20
Barium	100	353	431	449	77.5	95.6	5	75.0-125			4.11	20
Cadmium	100	0.106	88.7	90.7	88.5	90.6	5	75.0-125			2.25	20
Copper	100	13.6	94.8	97.7	81.2	84.1	5	75.0-125			3.02	20
Lead	100	22.1	104	106	81.6	83.6	5	75.0-125			1.92	20
Nickel	100	33.7	117	123	83.6	89.4	5	75.0-125			4.78	20
Selenium	100	1.48	86.7	89.5	85.2	88.1	5	75.0-125			3.18	20
Silver	20.0	U	17.1	17.5	85.7	87.6	5	75.0-125			2.22	20
Zinc	100	70.1	155	161	84.6	90.6	5	75.0-125			3.82	20

Method Blank (MB)

(MB) R4134833-1 10/18/24 21:48

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00
Barium	U		0.152	2.50
Cadmium	U		0.0855	1.00
Copper	0.219	J	0.133	5.00
Lead	U		0.0990	2.00
Nickel	U		0.197	2.50
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500
Zinc	U		0.740	25.0

Laboratory Control Sample (LCS)

(LCS) R4134833-2 10/18/24 21:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	95.6	95.6	80.0-120	
Barium	100	92.3	92.3	80.0-120	
Cadmium	100	97.0	97.0	80.0-120	
Copper	100	92.8	92.8	80.0-120	
Lead	100	92.2	92.2	80.0-120	
Nickel	100	98.7	98.7	80.0-120	
Selenium	100	91.4	91.4	80.0-120	
Silver	20.0	19.2	96.1	80.0-120	
Zinc	100	96.8	96.8	80.0-120	

L1789495-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1789495-02 10/18/24 21:54 • (MS) R4134833-5 10/18/24 22:03 • (MSD) R4134833-6 10/18/24 22:06

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 %
Arsenic	100	5.88	92.5	92.7	86.7	86.8	5	75.0-125			0.160	20
Barium	100	140	219	210	79.2	70.3	5	75.0-125		J6	4.13	20
Cadmium	100	0.0975	88.7	87.7	88.6	87.6	5	75.0-125			1.23	20
Copper	100	6.96	91.1	88.0	84.2	81.1	5	75.0-125			3.44	20
Lead	100	8.95	91.6	90.3	82.6	81.4	5	75.0-125			1.38	20
Nickel	100	14.1	103	100	89.3	85.9	5	75.0-125			3.37	20
Selenium	100	0.409	84.5	84.7	84.0	84.3	5	75.0-125			0.310	20
Silver	20.0	U	17.7	17.6	88.5	87.8	5	75.0-125			0.834	20
Zinc	100	35.7	121	119	85.1	83.5	5	75.0-125			1.36	20

Method Blank (MB)

(MB) R4136619-2 10/22/24 04:13

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)	*102*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R4136619-1 10/22/24 03:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.00	5.69	114	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*113*	*77.0-120*	

Method Blank (MB)

(MB) R4137669-3 10/24/24 23:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	0.00133	J	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	*100*			*75.0-131*
(S) 4-Bromofluorobenzene	*101*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*

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

(LCS) R4137669-1 10/24/24 21:27 • (LCSD) R4137669-2 10/24/24 21:47

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	0.138	0.140	110	112	70.0-123			1.44	20
Toluene	0.125	0.129	0.129	103	103	75.0-121			0.000	20
Ethylbenzene	0.125	0.127	0.125	102	100	74.0-126			1.59	20
Xylenes, Total	0.375	0.381	0.382	102	102	72.0-127			0.262	20
1,2,4-Trimethylbenzene	0.125	0.144	0.135	115	108	70.0-126			6.45	20
1,3,5-Trimethylbenzene	0.125	0.139	0.141	111	113	73.0-127			1.43	20
(S) Toluene-d8				*95.3*	*94.2*	*75.0-131*				
(S) 4-Bromofluorobenzene				*103*	*100*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*109*	*107*	*70.0-130*				

Method Blank (MB)

(MB) R4138087-1 10/26/24 10:27

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	*78.1*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R4138087-2 10/26/24 10:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	39.4	78.8	50.0-150	
(S) o-Terphenyl			*86.3*	*18.0-148*	

L1789197-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1789197-20 10/26/24 11:24 • (MS) R4138087-3 10/26/24 11:38 • (MSD) R4138087-4 10/26/24 11:52

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	U	40.7	35.1	81.4	70.2	1	50.0-150			14.8	20
(S) o-Terphenyl					*63.7*	*61.9*		*18.0-148*				

Method Blank (MB)

(MB) R4137629-2 10/25/24 01:57

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	*76.6*			*23.0-120*
(S) Nitrobenzene-d5	*56.7*			*14.0-149*
(S) 2-Fluorobiphenyl	*74.1*			*34.0-125*

Laboratory Control Sample (LCS)

(LCS) R4137629-1 10/25/24 01:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0800	0.0537	67.1	50.0-120	
Anthracene	0.0800	0.0546	68.3	50.0-126	
Benzo(a)anthracene	0.0800	0.0537	67.1	45.0-120	
Benzo(b)fluoranthene	0.0800	0.0474	59.3	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0520	65.0	49.0-125	
Benzo(a)pyrene	0.0800	0.0456	57.0	42.0-120	
Chrysene	0.0800	0.0561	70.1	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0528	66.0	47.0-125	
Fluoranthene	0.0800	0.0635	79.4	49.0-129	
Fluorene	0.0800	0.0587	73.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0460	57.5	46.0-125	
1-Methylnaphthalene	0.0800	0.0593	74.1	51.0-121	
2-Methylnaphthalene	0.0800	0.0554	69.3	50.0-120	
Naphthalene	0.0800	0.0520	65.0	50.0-120	
Pyrene	0.0800	0.0538	67.3	43.0-123	

Laboratory Control Sample (LCS)

(LCS) R4137629-1 10/25/24 01:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) p-Terphenyl-d14			*93.5*	*23.0-120*	
(S) Nitrobenzene-d5			*71.3*	*14.0-149*	
(S) 2-Fluorobiphenyl			*89.2*	*34.0-125*	

L1789495-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1789495-05 10/25/24 11:02 • (MS) R4137629-3 10/25/24 11:19 • (MSD) R4137629-4 10/25/24 11:37

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 %
Acenaphthene	0.0800	U	0.0497	0.0505	62.1	63.1	1	14.0-127			1.60	27
Anthracene	0.0800	U	0.0473	0.0478	59.1	59.8	1	10.0-145			1.05	30
Benzo(a)anthracene	0.0800	U	0.0476	0.0478	59.5	59.8	1	10.0-139			0.419	30
Benzo(b)fluoranthene	0.0800	U	0.0447	0.0439	55.9	54.9	1	10.0-140			1.81	36
Benzo(k)fluoranthene	0.0800	U	0.0563	0.0574	70.4	71.8	1	10.0-137			1.93	31
Benzo(a)pyrene	0.0800	U	0.0493	0.0487	61.6	60.9	1	10.0-141			1.22	31
Chrysene	0.0800	U	0.0535	0.0621	66.9	77.6	1	10.0-145			14.9	30
Dibenz(a,h)anthracene	0.0800	U	0.0487	0.0495	60.9	61.9	1	10.0-132			1.63	31
Fluoranthene	0.0800	U	0.0604	0.0598	75.5	74.8	1	10.0-153			0.998	33
Fluorene	0.0800	U	0.0538	0.0542	67.3	67.8	1	11.0-130			0.741	29
Indeno(1,2,3-cd)pyrene	0.0800	U	0.0421	0.0413	52.6	51.6	1	10.0-137			1.92	32
1-Methylnaphthalene	0.0800	U	0.0578	0.0601	72.3	75.1	1	10.0-142			3.90	28
2-Methylnaphthalene	0.0800	U	0.0517	0.0531	64.6	66.4	1	10.0-137			2.67	28
Naphthalene	0.0800	U	0.0507	0.0526	63.4	65.8	1	10.0-135			3.68	27
Pyrene	0.0800	U	0.0525	0.0533	65.6	66.6	1	10.0-148			1.51	35
(S) p-Terphenyl-d14					*81.5*	*83.2*		*23.0-120*				
(S) Nitrobenzene-d5					*58.2*	*58.6*		*14.0-149*				
(S) 2-Fluorobiphenyl					*72.2*	*75.1*		*34.0-125*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
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.

QB Energy Operating
143 Diamond Avenue
Parachute, CO 81635

Billing Information: SAME AS LEFT

Report to: Jake Janicek

Email To: jjanicek@qb-energy.com

Project Description: Corral Creek 4508 Facility Decommissioning

City/State Collected: Piceance Crk, CO

Please Circle: PT MT CT ET

Phone: (970) 778-2314

Client Project # –

Lab Project # –

Collected by (print): Trevor Lakin

Site/Facility ID # Corral Creek 4508

P.O. # –

Collected by (signature):

Quote # –

Immediately Packed on Ice N ____ Y ____ X

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

Date Results Needed: ~~Standard TAT~~

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	ECMC Table 915-1
0241015-MW199-(FL-T-BASE02)@8	Grab	SS	8Ft	10/15/24	13:23	4	X
0241015-MW199-(FL-T-SW02)@8					13:26	4	X
0241015-MW199-(FL-T-EW02)@8					13:28	4	X
0241015-MW199-(FL-T-NW02)@8					13:32	4	X
0241015-MW199-(FL-T-STOCK02)	Comp		–		13:35	4	X

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace Analytical® National Center for Testing & Innovation

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

SDG # L1758404
A033

Acctnum:
Template:
Prelogin:
PM:
PB:
Shipped Via:

Remarks	Sample # (lab only)
	01
	02
	03
	04
	05

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

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

Tracking # 773532026111

Sample Receipt Checklist

COC Seal Present/Intact:	__NP __Y __N
COC Signed/Accurate:	__Y __N
Bottles arrive intact:	__Y __N
Correct bottles used:	__Y __N
Sufficient volume sent:	__Y __N
If Applicable	
VOA Zero Headspace:	__Y __N
Preservation Correct/Checked:	__Y __N
RAD Screen <0.5 mR/hr:	__Y __N

	Date:	Time:		
Relinquished by: (Signature)	10/15/24	16:40	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by: (Signature)	10/15/24	1700	Received by: (Signature)	Temp: TCAG °C Bottles Received: 0.9+0.3=1.2 20
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Dejang	Date: 10.16.24 Time: 0900

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK