ANALYTICAL REPORT

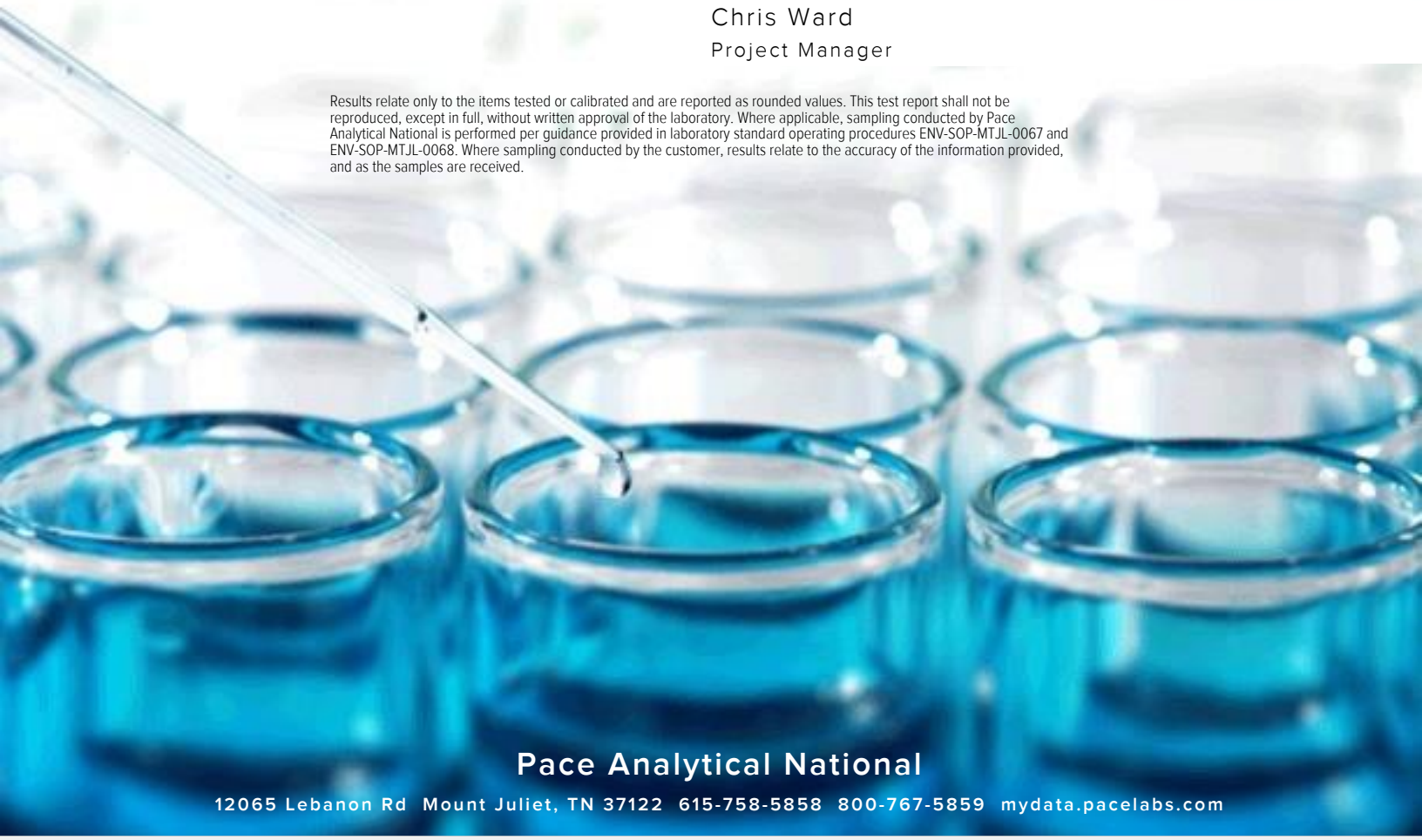
May 12, 2025

Chevron - CO

Sample Delivery Group:	L1853093
Samples Received:	04/30/2025
Project Number:	
Description:	Qc A 32-19
Report To:	Paul H. 2115 117th Avenue Greeley, CO 80631

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

TABLE OF CONTENTS

N WALL 6FT (2) L1853093-01

Collected by: Tucker Chopin | Collected date/time: 04/29/25 12:00 | Received date/time: 04/30/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2505008	1	05/08/25 12:17	05/08/25 12:17	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2504976	1	05/02/25 20:41	05/06/25 01:49	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2509391	1	05/07/25 14:39	05/07/25 19:00	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2509394	1	05/07/25 14:41	05/07/25 16:10	BRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505055	1	05/07/25 08:09	05/07/25 13:34	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2506407	5	05/07/25 08:16	05/08/25 18:03	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2506031	1	05/03/25 09:53	05/03/25 17:01	NCD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2506097	1	05/03/25 09:53	05/04/25 04:28	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2507142	1	05/06/25 07:01	05/06/25 17:58	NH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2505558	1	05/05/25 08:36	05/06/25 04:33	TKW	Mt. Juliet, TN

E WALL 6FT (2) L1853093-02

Collected by: Tucker Chopin | Collected date/time: 04/29/25 12:30 | Received date/time: 04/30/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2505008	1	05/08/25 12:19	05/08/25 12:19	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2504976	1	05/02/25 20:41	05/06/25 02:44	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2509391	1	05/07/25 14:39	05/07/25 19:00	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2509394	1	05/07/25 14:41	05/07/25 16:10	BRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505055	1	05/07/25 08:09	05/07/25 13:37	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2506407	5	05/07/25 08:16	05/08/25 18:06	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2506031	1	05/03/25 09:53	05/03/25 17:20	NCD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2506097	1	05/03/25 09:53	05/04/25 04:47	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2507142	1	05/06/25 07:01	05/06/25 13:49	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2505558	1	05/05/25 08:36	05/06/25 04:51	TKW	Mt. Juliet, TN

W WALL 6FT (2) L1853093-03

Collected by: Tucker Chopin | Collected date/time: 04/29/25 13:30 | Received date/time: 04/30/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2505008	1	05/08/25 12:22	05/08/25 12:22	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2504976	1	05/02/25 20:41	05/06/25 02:53	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2509391	1	05/07/25 14:39	05/07/25 19:00	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2509394	1	05/07/25 14:41	05/07/25 16:10	BRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505055	1	05/07/25 08:09	05/07/25 13:40	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2506407	5	05/07/25 08:16	05/08/25 18:10	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2506031	1	05/03/25 09:53	05/03/25 17:40	NCD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2506097	1	05/03/25 09:53	05/04/25 05:06	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2507142	1	05/06/25 07:01	05/06/25 14:46	SGB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2507142	5	05/06/25 07:01	05/06/25 19:23	NH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2505558	1	05/05/25 08:36	05/06/25 05:08	TKW	Mt. Juliet, TN

FLOOR 8FT L1853093-04

Collected by: Tucker Chopin | Collected date/time: 04/29/25 13:45 | Received date/time: 04/30/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2505008	1	05/08/25 12:25	05/08/25 12:25	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2505370	1	05/05/25 16:16	05/06/25 17:40	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2509391	1	05/07/25 14:39	05/07/25 19:00	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2509394	1	05/07/25 14:41	05/07/25 16:10	BRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505055	1	05/07/25 08:09	05/07/25 13:42	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2506407	5	05/07/25 08:16	05/08/25 18:13	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2506031	1	05/03/25 09:53	05/03/25 17:59	NCD	Mt. Juliet, TN

FLOOR 8FT L1853093-04

Collected by: Tucker Chopin | Collected date/time: 04/29/25 13:45 | Received date/time: 04/30/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2506097	1	05/03/25 09:53	05/04/25 05:25	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2507142	1	05/06/25 07:01	05/06/25 13:49	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2505558	1	05/05/25 08:36	05/06/25 05:25	TKW	Mt. Juliet, TN

S WALL 6FT L1853093-05

Collected by: Tucker Chopin | Collected date/time: 04/29/25 14:00 | Received date/time: 04/30/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2505008	1	05/08/25 12:28	05/08/25 12:28	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2505370	1	05/05/25 16:16	05/06/25 17:49	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2509391	1	05/07/25 14:39	05/07/25 19:00	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2509394	1	05/07/25 14:41	05/07/25 16:10	BRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505055	1	05/07/25 08:09	05/07/25 13:45	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2506407	5	05/07/25 08:16	05/08/25 18:16	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2506031	1	05/03/25 09:53	05/03/25 18:19	NCD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2506097	1	05/03/25 09:53	05/04/25 05:44	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2507142	10	05/06/25 07:01	05/06/25 19:23	NH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2505558	1	05/05/25 08:36	05/06/25 05:43	TKW	Mt. Juliet, TN

BKG 06 SURFACE L1853093-06

Collected by: Tucker Chopin | Collected date/time: 04/29/25 15:30 | Received date/time: 04/30/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2505008	1	05/08/25 12:30	05/08/25 12:30	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2505370	1	05/05/25 16:16	05/06/25 17:58	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2509391	1	05/07/25 14:39	05/07/25 19:00	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2509394	1	05/07/25 14:41	05/07/25 16:10	BRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505055	1	05/07/25 08:09	05/07/25 13:53	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2506407	5	05/07/25 08:16	05/08/25 18:19	JPD	Mt. Juliet, TN

BKG 07 SURFACE L1853093-07

Collected by: Tucker Chopin | Collected date/time: 04/29/25 15:35 | Received date/time: 04/30/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2505008	1	05/08/25 12:33	05/08/25 12:33	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2505370	1	05/05/25 16:16	05/06/25 18:07	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2509391	1	05/07/25 14:39	05/07/25 19:00	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2509394	1	05/07/25 14:41	05/07/25 16:10	BRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505055	1	05/07/25 08:09	05/07/25 13:56	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2506407	5	05/07/25 08:16	05/08/25 18:22	JPD	Mt. Juliet, TN

BKG 08 SURFACE L1853093-08

Collected by: Tucker Chopin | Collected date/time: 04/29/25 15:40 | Received date/time: 04/30/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2505008	1	05/08/25 12:41	05/08/25 12:41	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2505370	1	05/05/25 16:16	05/06/25 18:16	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2509391	1	05/07/25 14:39	05/07/25 19:00	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2509394	1	05/07/25 14:41	05/07/25 16:10	BRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505055	1	05/07/25 08:09	05/07/25 13:59	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2506405	5	05/07/25 16:57	05/08/25 05:14	JDB	Mt. Juliet, TN

BKG 09 SURFACE L1853093-09

Collected by: Tucker Chopin
Collected date/time: 04/29/25 15:45
Received date/time: 04/30/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2505011	1	05/07/25 20:27	05/07/25 20:27	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2505370	1	05/05/25 16:16	05/06/25 18:25	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2508848	1	05/07/25 08:15	05/07/25 15:30	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2508849	1	05/07/25 08:17	05/07/25 17:48	BRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505056	1	05/07/25 08:25	05/07/25 19:31	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2506407	5	05/07/25 08:16	05/08/25 18:25	JPD	Mt. Juliet, TN

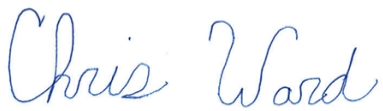
BKG 10 SURFACE L1853093-10

Collected by: Tucker Chopin
Collected date/time: 04/29/25 15:50
Received date/time: 04/30/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2505011	1	05/07/25 20:28	05/07/25 20:28	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2505370	1	05/05/25 16:16	05/06/25 18:52	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2508848	1	05/07/25 08:15	05/07/25 15:30	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2508849	1	05/07/25 08:17	05/07/25 17:48	BRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505056	1	05/07/25 08:25	05/07/25 19:34	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2506407	5	05/07/25 08:16	05/08/25 18:28	JPD	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward
Project Manager

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.30		1	05/08/2025 12:17	WG2505008

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/06/2025 01:49	WG2504976

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.18	T8	1	05/07/2025 19:00	WG2509391

Sample Narrative:
L1853093-01 WG2509391: 0

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	546	umhos/cm		10.0	1	05/07/2025 16:10	WG2509394

Sample Narrative:
L1853093-01 WG2509394: 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	0.255		0.0167	0.200	1	05/07/2025 13:34	WG2505055

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.18		0.100	1.00	5	05/08/2025 18:03	WG2506407
Barium	104		0.152	2.50	5	05/08/2025 18:03	WG2506407
Cadmium	0.106	J	0.0855	1.00	5	05/08/2025 18:03	WG2506407
Copper	6.28		0.132	5.00	5	05/08/2025 18:03	WG2506407
Lead	5.09		0.0990	2.00	5	05/08/2025 18:03	WG2506407
Nickel	15.6		0.197	2.50	5	05/08/2025 18:03	WG2506407
Selenium	0.268	J	0.180	2.50	5	05/08/2025 18:03	WG2506407
Silver	U		0.0865	0.500	5	05/08/2025 18:03	WG2506407
Zinc	26.1		0.740	25.0	5	05/08/2025 18:03	WG2506407

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	0.0386	J	0.0217	0.100	1	05/03/2025 17:01	WG2506031
(S) a,a,a-Trifluorotoluene(FID)	*88.5*			*77.0-120*		*05/03/2025 17:01*	WG2506031

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	05/04/2025 04:28	WG2506097
Toluene	U		0.00130	0.00500	1	05/04/2025 04:28	WG2506097
Ethylbenzene	U		0.000737	0.00250	1	05/04/2025 04:28	WG2506097
Xylenes, Total	0.00248	J	0.000880	0.00650	1	05/04/2025 04:28	WG2506097
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	05/04/2025 04:28	WG2506097
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	05/04/2025 04:28	WG2506097
(S) Toluene-d8	*142*	J1		*75.0-131*		*05/04/2025 04:28*	WG2506097
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*05/04/2025 04:28*	WG2506097
(S) 1,2-Dichloroethane-d4	*89.9*			*70.0-130*		*05/04/2025 04:28*	WG2506097

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	4.87		1.61	4.00	1	05/06/2025 17:58	WG2507142
C28-C36 Motor Oil Range	2.88	J	0.274	4.00	1	05/06/2025 17:58	WG2507142
(S) o-Terphenyl	*57.3*			*18.0-148*		*05/06/2025 17:58*	WG2507142

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00162	0.00600	1	05/06/2025 04:33	WG2505558
Anthracene	U		0.00163	0.00600	1	05/06/2025 04:33	WG2505558
Benzo(a)anthracene	U		0.00200	0.00600	1	05/06/2025 04:33	WG2505558
Benzo(b)fluoranthene	U		0.00275	0.00600	1	05/06/2025 04:33	WG2505558
Benzo(k)fluoranthene	U		0.00213	0.00600	1	05/06/2025 04:33	WG2505558
Benzo(a)pyrene	U		0.00163	0.00600	1	05/06/2025 04:33	WG2505558
Chrysene	U		0.00206	0.00600	1	05/06/2025 04:33	WG2505558
Dibenz(a,h)anthracene	U		0.00201	0.00600	1	05/06/2025 04:33	WG2505558
Fluoranthene	U		0.00239	0.00600	1	05/06/2025 04:33	WG2505558
Fluorene	U		0.00180	0.00600	1	05/06/2025 04:33	WG2505558
Indeno(1,2,3-cd)pyrene	U		0.00234	0.00600	1	05/06/2025 04:33	WG2505558
1-Methylnaphthalene	0.00706	J	0.00219	0.0200	1	05/06/2025 04:33	WG2505558
2-Methylnaphthalene	0.0143	J	0.00571	0.0200	1	05/06/2025 04:33	WG2505558
Naphthalene	U		0.00579	0.0200	1	05/06/2025 04:33	WG2505558
Pyrene	U		0.00205	0.00600	1	05/06/2025 04:33	WG2505558
(S) p-Terphenyl-d14	*81.4*			*23.0-120*		*05/06/2025 04:33*	WG2505558
(S) Nitrobenzene-d5	*94.6*			*14.0-149*		*05/06/2025 04:33*	WG2505558
(S) 2-Fluorobiphenyl	*83.9*			*34.0-125*		*05/06/2025 04:33*	WG2505558

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.933		1	05/08/2025 12:19	WG2505008

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/06/2025 02:44	WG2504976

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.03	T8	1	05/07/2025 19:00	WG2509391

Sample Narrative:
L1853093-02 WG2509391: 0

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	730	umhos/cm		10.0	1	05/07/2025 16:10	WG2509394

Sample Narrative:
L1853093-02 WG2509394: 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	0.266		0.0167	0.200	1	05/07/2025 13:37	WG2505055

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.96		0.100	1.00	5	05/08/2025 18:06	WG2506407
Barium	80.9		0.152	2.50	5	05/08/2025 18:06	WG2506407
Cadmium	0.0965	J	0.0855	1.00	5	05/08/2025 18:06	WG2506407
Copper	6.75		0.132	5.00	5	05/08/2025 18:06	WG2506407
Lead	4.76		0.0990	2.00	5	05/08/2025 18:06	WG2506407
Nickel	24.2		0.197	2.50	5	05/08/2025 18:06	WG2506407
Selenium	0.243	J	0.180	2.50	5	05/08/2025 18:06	WG2506407
Silver	U		0.0865	0.500	5	05/08/2025 18:06	WG2506407
Zinc	25.1		0.740	25.0	5	05/08/2025 18:06	WG2506407

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	U		0.0217	0.100	1	05/03/2025 17:20	WG2506031
(S) a,a,a-Trifluorotoluene(FID)	*88.9*			*77.0-120*		*05/03/2025 17:20*	WG2506031

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	05/04/2025 04:47	WG2506097
Toluene	U		0.00130	0.00500	1	05/04/2025 04:47	WG2506097
Ethylbenzene	U		0.000737	0.00250	1	05/04/2025 04:47	WG2506097
Xylenes, Total	U		0.000880	0.00650	1	05/04/2025 04:47	WG2506097
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	05/04/2025 04:47	WG2506097
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	05/04/2025 04:47	WG2506097
(S) Toluene-d8	*96.3*			*75.0-131*		*05/04/2025 04:47*	WG2506097
(S) 4-Bromofluorobenzene	*88.5*			*67.0-138*		*05/04/2025 04:47*	WG2506097
(S) 1,2-Dichloroethane-d4	*65.9*	J2		*70.0-130*		*05/04/2025 04:47*	WG2506097

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.60		1.61	4.00	1	05/06/2025 13:49	WG2507142
C28-C36 Motor Oil Range	7.43		0.274	4.00	1	05/06/2025 13:49	WG2507142
(S) o-Terphenyl	*55.7*			*18.0-148*		*05/06/2025 13:49*	WG2507142

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00162	0.00600	1	05/06/2025 04:51	WG2505558
Anthracene	U		0.00163	0.00600	1	05/06/2025 04:51	WG2505558
Benzo(a)anthracene	U		0.00200	0.00600	1	05/06/2025 04:51	WG2505558
Benzo(b)fluoranthene	U		0.00275	0.00600	1	05/06/2025 04:51	WG2505558
Benzo(k)fluoranthene	U		0.00213	0.00600	1	05/06/2025 04:51	WG2505558
Benzo(a)pyrene	U		0.00163	0.00600	1	05/06/2025 04:51	WG2505558
Chrysene	U		0.00206	0.00600	1	05/06/2025 04:51	WG2505558
Dibenz(a,h)anthracene	U		0.00201	0.00600	1	05/06/2025 04:51	WG2505558
Fluoranthene	U		0.00239	0.00600	1	05/06/2025 04:51	WG2505558
Fluorene	U		0.00180	0.00600	1	05/06/2025 04:51	WG2505558
Indeno(1,2,3-cd)pyrene	U		0.00234	0.00600	1	05/06/2025 04:51	WG2505558
1-Methylnaphthalene	U		0.00219	0.0200	1	05/06/2025 04:51	WG2505558
2-Methylnaphthalene	U		0.00571	0.0200	1	05/06/2025 04:51	WG2505558
Naphthalene	U		0.00579	0.0200	1	05/06/2025 04:51	WG2505558
Pyrene	U		0.00205	0.00600	1	05/06/2025 04:51	WG2505558
(S) p-Terphenyl-d14	*62.4*			*23.0-120*		*05/06/2025 04:51*	WG2505558
(S) Nitrobenzene-d5	*64.9*			*14.0-149*		*05/06/2025 04:51*	WG2505558
(S) 2-Fluorobiphenyl	*67.0*			*34.0-125*		*05/06/2025 04:51*	WG2505558

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.850		1	05/08/2025 12:22	WG2505008

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/06/2025 02:53	WG2504976

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.02	T8	1	05/07/2025 19:00	WG2509391

Sample Narrative:
L1853093-03 WG2509391: 0

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	961	umhos/cm		10.0	1	05/07/2025 16:10	WG2509394

Sample Narrative:
L1853093-03 WG2509394: 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	0.214		0.0167	0.200	1	05/07/2025 13:40	WG2505055

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.43		0.100	1.00	5	05/08/2025 18:10	WG2506407
Barium	105		0.152	2.50	5	05/08/2025 18:10	WG2506407
Cadmium	0.104	J	0.0855	1.00	5	05/08/2025 18:10	WG2506407
Copper	6.38		0.132	5.00	5	05/08/2025 18:10	WG2506407
Lead	5.56		0.0990	2.00	5	05/08/2025 18:10	WG2506407
Nickel	13.2		0.197	2.50	5	05/08/2025 18:10	WG2506407
Selenium	0.273	J	0.180	2.50	5	05/08/2025 18:10	WG2506407
Silver	U		0.0865	0.500	5	05/08/2025 18:10	WG2506407
Zinc	26.2		0.740	25.0	5	05/08/2025 18:10	WG2506407

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	U		0.0217	0.100	1	05/03/2025 17:40	WG2506031
(S) a,a,a-Trifluorotoluene(FID)	*87.9*			*77.0-120*		*05/03/2025 17:40*	WG2506031

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	05/04/2025 05:06	WG2506097
Toluene	U		0.00130	0.00500	1	05/04/2025 05:06	WG2506097
Ethylbenzene	U		0.000737	0.00250	1	05/04/2025 05:06	WG2506097
Xylenes, Total	U		0.000880	0.00650	1	05/04/2025 05:06	WG2506097
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	05/04/2025 05:06	WG2506097
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	05/04/2025 05:06	WG2506097
(S) Toluene-d8	*143*	J1		*75.0-131*		*05/04/2025 05:06*	WG2506097
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*05/04/2025 05:06*	WG2506097
(S) 1,2-Dichloroethane-d4	*91.9*			*70.0-130*		*05/04/2025 05:06*	WG2506097

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	227		1.61	4.00	1	05/06/2025 14:46	WG2507142
C28-C36 Motor Oil Range	182		1.37	20.0	5	05/06/2025 19:23	WG2507142
(S) o-Terphenyl	*47.2*			*18.0-148*		*05/06/2025 19:23*	WG2507142
(S) o-Terphenyl	*67.5*			*18.0-148*		*05/06/2025 14:46*	WG2507142

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00162	0.00600	1	05/06/2025 05:08	WG2505558
Anthracene	U		0.00163	0.00600	1	05/06/2025 05:08	WG2505558
Benzo(a)anthracene	U		0.00200	0.00600	1	05/06/2025 05:08	WG2505558
Benzo(b)fluoranthene	U		0.00275	0.00600	1	05/06/2025 05:08	WG2505558
Benzo(k)fluoranthene	U		0.00213	0.00600	1	05/06/2025 05:08	WG2505558
Benzo(a)pyrene	U		0.00163	0.00600	1	05/06/2025 05:08	WG2505558
Chrysene	U		0.00206	0.00600	1	05/06/2025 05:08	WG2505558
Dibenz(a,h)anthracene	U		0.00201	0.00600	1	05/06/2025 05:08	WG2505558
Fluoranthene	U		0.00239	0.00600	1	05/06/2025 05:08	WG2505558
Fluorene	U		0.00180	0.00600	1	05/06/2025 05:08	WG2505558
Indeno(1,2,3-cd)pyrene	U		0.00234	0.00600	1	05/06/2025 05:08	WG2505558
1-Methylnaphthalene	U		0.00219	0.0200	1	05/06/2025 05:08	WG2505558
2-Methylnaphthalene	U		0.00571	0.0200	1	05/06/2025 05:08	WG2505558
Naphthalene	U		0.00579	0.0200	1	05/06/2025 05:08	WG2505558
Pyrene	U		0.00205	0.00600	1	05/06/2025 05:08	WG2505558
(S) p-Terphenyl-d14	*79.8*			*23.0-120*		*05/06/2025 05:08*	WG2505558
(S) Nitrobenzene-d5	*85.4*			*14.0-149*		*05/06/2025 05:08*	WG2505558
(S) 2-Fluorobiphenyl	*87.3*			*34.0-125*		*05/06/2025 05:08*	WG2505558

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.20		1	05/08/2025 12:25	WG2505008

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/06/2025 17:40	WG2505370

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.05	T8	1	05/07/2025 19:00	WG2509391

Sample Narrative:

L1853093-04 WG2509391: 0

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	822	umhos/cm		10.0	1	05/07/2025 16:10	WG2509394

Sample Narrative:

L1853093-04 WG2509394: 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	0.267		0.0167	0.200	1	05/07/2025 13:42	WG2505055

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.00		0.100	1.00	5	05/08/2025 18:13	WG2506407
Barium	91.6		0.152	2.50	5	05/08/2025 18:13	WG2506407
Cadmium	0.0990	J	0.0855	1.00	5	05/08/2025 18:13	WG2506407
Copper	6.54		0.132	5.00	5	05/08/2025 18:13	WG2506407
Lead	5.04		0.0990	2.00	5	05/08/2025 18:13	WG2506407
Nickel	20.3		0.197	2.50	5	05/08/2025 18:13	WG2506407
Selenium	0.253	J	0.180	2.50	5	05/08/2025 18:13	WG2506407
Silver	U		0.0865	0.500	5	05/08/2025 18:13	WG2506407
Zinc	23.4	J	0.740	25.0	5	05/08/2025 18:13	WG2506407

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	U		0.0217	0.100	1	05/03/2025 17:59	WG2506031
(S) a,a,a-Trifluorotoluene(FID)	*87.1*			*77.0-120*		*05/03/2025 17:59*	WG2506031

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	05/04/2025 05:25	WG2506097
Toluene	U		0.00130	0.00500	1	05/04/2025 05:25	WG2506097
Ethylbenzene	U		0.000737	0.00250	1	05/04/2025 05:25	WG2506097
Xylenes, Total	U		0.000880	0.00650	1	05/04/2025 05:25	WG2506097
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	05/04/2025 05:25	WG2506097
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	05/04/2025 05:25	WG2506097
(S) Toluene-d8	*101*			*75.0-131*		*05/04/2025 05:25*	WG2506097
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*05/04/2025 05:25*	WG2506097
(S) 1,2-Dichloroethane-d4	*89.6*			*70.0-130*		*05/04/2025 05:25*	WG2506097

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	25.5		1.61	4.00	1	05/06/2025 13:49	WG2507142
C28-C36 Motor Oil Range	22.7		0.274	4.00	1	05/06/2025 13:49	WG2507142
(S) o-Terphenyl	*63.5*			*18.0-148*		*05/06/2025 13:49*	WG2507142

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00162	0.00600	1	05/06/2025 05:25	WG2505558
Anthracene	U		0.00163	0.00600	1	05/06/2025 05:25	WG2505558
Benzo(a)anthracene	U		0.00200	0.00600	1	05/06/2025 05:25	WG2505558
Benzo(b)fluoranthene	U		0.00275	0.00600	1	05/06/2025 05:25	WG2505558
Benzo(k)fluoranthene	U		0.00213	0.00600	1	05/06/2025 05:25	WG2505558
Benzo(a)pyrene	U		0.00163	0.00600	1	05/06/2025 05:25	WG2505558
Chrysene	U		0.00206	0.00600	1	05/06/2025 05:25	WG2505558
Dibenz(a,h)anthracene	U		0.00201	0.00600	1	05/06/2025 05:25	WG2505558
Fluoranthene	U		0.00239	0.00600	1	05/06/2025 05:25	WG2505558
Fluorene	U		0.00180	0.00600	1	05/06/2025 05:25	WG2505558
Indeno(1,2,3-cd)pyrene	U		0.00234	0.00600	1	05/06/2025 05:25	WG2505558
1-Methylnaphthalene	U		0.00219	0.0200	1	05/06/2025 05:25	WG2505558
2-Methylnaphthalene	U		0.00571	0.0200	1	05/06/2025 05:25	WG2505558
Naphthalene	U		0.00579	0.0200	1	05/06/2025 05:25	WG2505558
Pyrene	U		0.00205	0.00600	1	05/06/2025 05:25	WG2505558
(S) p-Terphenyl-d14	*68.7*			*23.0-120*		*05/06/2025 05:25*	WG2505558
(S) Nitrobenzene-d5	*80.1*			*14.0-149*		*05/06/2025 05:25*	WG2505558
(S) 2-Fluorobiphenyl	*76.3*			*34.0-125*		*05/06/2025 05:25*	WG2505558

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.846		1	05/08/2025 12:28	WG2505008

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/06/2025 17:49	WG2505370

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.02	T8	1	05/07/2025 19:00	WG2509391

Sample Narrative:

L1853093-05 WG2509391: 0

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	757	umhos/cm		10.0	1	05/07/2025 16:10	WG2509394

Sample Narrative:

L1853093-05 WG2509394: 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	0.235		0.0167	0.200	1	05/07/2025 13:45	WG2505055

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.04		0.100	1.00	5	05/08/2025 18:16	WG2506407
Barium	76.4		0.152	2.50	5	05/08/2025 18:16	WG2506407
Cadmium	U		0.0855	1.00	5	05/08/2025 18:16	WG2506407
Copper	5.17		0.132	5.00	5	05/08/2025 18:16	WG2506407
Lead	4.26		0.0990	2.00	5	05/08/2025 18:16	WG2506407
Nickel	7.30		0.197	2.50	5	05/08/2025 18:16	WG2506407
Selenium	0.235	J	0.180	2.50	5	05/08/2025 18:16	WG2506407
Silver	U		0.0865	0.500	5	05/08/2025 18:16	WG2506407
Zinc	21.2	J	0.740	25.0	5	05/08/2025 18:16	WG2506407

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	0.0217	J	0.0217	0.100	1	05/03/2025 18:19	WG2506031
(S) a,a,a-Trifluorotoluene(FID)	*84.1*			*77.0-120*		*05/03/2025 18:19*	WG2506031

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	J3	0.000467	0.00100	1	05/04/2025 05:44	WG2506097
Toluene	U	J5	0.00130	0.00500	1	05/04/2025 05:44	WG2506097
Ethylbenzene	U		0.000737	0.00250	1	05/04/2025 05:44	WG2506097
Xylenes, Total	U		0.000880	0.00650	1	05/04/2025 05:44	WG2506097
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	05/04/2025 05:44	WG2506097
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	05/04/2025 05:44	WG2506097
(S) Toluene-d8	*102*			*75.0-131*		*05/04/2025 05:44*	WG2506097
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*05/04/2025 05:44*	WG2506097
(S) 1,2-Dichloroethane-d4	*91.3*			*70.0-130*		*05/04/2025 05:44*	WG2506097

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	936		16.1	40.0	10	05/06/2025 19:23	WG2507142
C28-C36 Motor Oil Range	665		2.74	40.0	10	05/06/2025 19:23	WG2507142
(S) o-Terphenyl	*48.5*			*18.0-148*		*05/06/2025 19:23*	WG2507142

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00162	0.00600	1	05/06/2025 05:43	WG2505558
Anthracene	U		0.00163	0.00600	1	05/06/2025 05:43	WG2505558
Benzo(a)anthracene	U		0.00200	0.00600	1	05/06/2025 05:43	WG2505558
Benzo(b)fluoranthene	U		0.00275	0.00600	1	05/06/2025 05:43	WG2505558
Benzo(k)fluoranthene	U		0.00213	0.00600	1	05/06/2025 05:43	WG2505558
Benzo(a)pyrene	U		0.00163	0.00600	1	05/06/2025 05:43	WG2505558
Chrysene	U		0.00206	0.00600	1	05/06/2025 05:43	WG2505558
Dibenz(a,h)anthracene	U		0.00201	0.00600	1	05/06/2025 05:43	WG2505558
Fluoranthene	U		0.00239	0.00600	1	05/06/2025 05:43	WG2505558
Fluorene	U		0.00180	0.00600	1	05/06/2025 05:43	WG2505558
Indeno(1,2,3-cd)pyrene	U		0.00234	0.00600	1	05/06/2025 05:43	WG2505558
1-Methylnaphthalene	U		0.00219	0.0200	1	05/06/2025 05:43	WG2505558
2-Methylnaphthalene	U		0.00571	0.0200	1	05/06/2025 05:43	WG2505558
Naphthalene	U		0.00579	0.0200	1	05/06/2025 05:43	WG2505558
Pyrene	U		0.00205	0.00600	1	05/06/2025 05:43	WG2505558
(S) p-Terphenyl-d14	*82.3*			*23.0-120*		*05/06/2025 05:43*	WG2505558
(S) Nitrobenzene-d5	*91.6*			*14.0-149*		*05/06/2025 05:43*	WG2505558
(S) 2-Fluorobiphenyl	*91.8*			*34.0-125*		*05/06/2025 05:43*	WG2505558

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.25		1	05/08/2025 12:30	WG2505008

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/06/2025 17:58	WG2505370

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.97	T8	1	05/07/2025 19:00	WG2509391

Sample Narrative:

L1853093-06 WG2509391: 0

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	702	umhos/cm		10.0	1	05/07/2025 16:10	WG2509394

Sample Narrative:

L1853093-06 WG2509394: 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	1.10		0.0167	0.200	1	05/07/2025 13:53	WG2505055

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.70		0.100	1.00	5	05/08/2025 18:19	WG2506407
Barium	63.1		0.152	2.50	5	05/08/2025 18:19	WG2506407
Cadmium	0.162	J	0.0855	1.00	5	05/08/2025 18:19	WG2506407
Copper	10.4		0.132	5.00	5	05/08/2025 18:19	WG2506407
Lead	8.25		0.0990	2.00	5	05/08/2025 18:19	WG2506407
Nickel	5.84		0.197	2.50	5	05/08/2025 18:19	WG2506407
Selenium	0.362	J	0.180	2.50	5	05/08/2025 18:19	WG2506407
Silver	0.128	J	0.0865	0.500	5	05/08/2025 18:19	WG2506407
Zinc	53.5		0.740	25.0	5	05/08/2025 18:19	WG2506407

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.34		1	05/08/2025 12:33	WG2505008

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/06/2025 18:07	WG2505370

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.00	T8	1	05/07/2025 19:00	WG2509391

Sample Narrative:
L1853093-07 WG2509391: 0

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	377	umhos/cm		10.0	1	05/07/2025 16:10	WG2509394

Sample Narrative:
L1853093-07 WG2509394: 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	0.852		0.0167	0.200	1	05/07/2025 13:56	WG2505055

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.71		0.100	1.00	5	05/08/2025 18:22	WG2506407
Barium	57.4		0.152	2.50	5	05/08/2025 18:22	WG2506407
Cadmium	0.0997	J	0.0855	1.00	5	05/08/2025 18:22	WG2506407
Copper	5.67		0.132	5.00	5	05/08/2025 18:22	WG2506407
Lead	5.63		0.0990	2.00	5	05/08/2025 18:22	WG2506407
Nickel	4.95		0.197	2.50	5	05/08/2025 18:22	WG2506407
Selenium	0.273	J	0.180	2.50	5	05/08/2025 18:22	WG2506407
Silver	U		0.0865	0.500	5	05/08/2025 18:22	WG2506407
Zinc	28.0		0.740	25.0	5	05/08/2025 18:22	WG2506407

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.24		1	05/08/2025 12:41	WG2505008

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/06/2025 18:16	WG2505370

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.94	T8	1	05/07/2025 19:00	WG2509391

Sample Narrative:
L1853093-08 WG2509391: 0

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	359	umhos/cm		10.0	1	05/07/2025 16:10	WG2509394

Sample Narrative:
L1853093-08 WG2509394: 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	0.809		0.0167	0.200	1	05/07/2025 13:59	WG2505055

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.57		0.100	1.00	5	05/08/2025 05:14	WG2506405
Barium	66.7		0.152	2.50	5	05/08/2025 05:14	WG2506405
Cadmium	0.161	J	0.0855	1.00	5	05/08/2025 05:14	WG2506405
Copper	7.42		0.132	5.00	5	05/08/2025 05:14	WG2506405
Lead	6.30		0.0990	2.00	5	05/08/2025 05:14	WG2506405
Nickel	5.27		0.197	2.50	5	05/08/2025 05:14	WG2506405
Selenium	0.748	J	0.180	2.50	5	05/08/2025 05:14	WG2506405
Silver	U		0.0865	0.500	5	05/08/2025 05:14	WG2506405
Zinc	43.0		0.740	25.0	5	05/08/2025 05:14	WG2506405

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.69		1	05/07/2025 20:27	WG2505011

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/06/2025 18:25	WG2505370

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.03	T8	1	05/07/2025 15:30	WG2508848

Sample Narrative:

L1853093-09 WG2508848: 0

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	733	umhos/cm		10.0	1	05/07/2025 17:48	WG2508849

Sample Narrative:

L1853093-09 WG2508849: 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	0.703		0.0167	0.200	1	05/07/2025 19:31	WG2505056

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.53		0.100	1.00	5	05/08/2025 18:25	WG2506407
Barium	57.1		0.152	2.50	5	05/08/2025 18:25	WG2506407
Cadmium	0.0922	J	0.0855	1.00	5	05/08/2025 18:25	WG2506407
Copper	5.12		0.132	5.00	5	05/08/2025 18:25	WG2506407
Lead	4.69		0.0990	2.00	5	05/08/2025 18:25	WG2506407
Nickel	4.79		0.197	2.50	5	05/08/2025 18:25	WG2506407
Selenium	0.257	J	0.180	2.50	5	05/08/2025 18:25	WG2506407
Silver	U		0.0865	0.500	5	05/08/2025 18:25	WG2506407
Zinc	23.8	J	0.740	25.0	5	05/08/2025 18:25	WG2506407

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.39		1	05/07/2025 20:28	WG2505011

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/06/2025 18:52	WG2505370

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.61	T8	1	05/07/2025 15:30	WG2508848

Sample Narrative:
L1853093-10 WG2508848: 0

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	697	umhos/cm		10.0	1	05/07/2025 17:48	WG2508849

Sample Narrative:
L1853093-10 WG2508849: 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	1.12		0.0167	0.200	1	05/07/2025 19:34	WG2505056

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.10		0.100	1.00	5	05/08/2025 18:28	WG2506407
Barium	75.9		0.152	2.50	5	05/08/2025 18:28	WG2506407
Cadmium	0.134	J	0.0855	1.00	5	05/08/2025 18:28	WG2506407
Copper	8.29		0.132	5.00	5	05/08/2025 18:28	WG2506407
Lead	6.98		0.0990	2.00	5	05/08/2025 18:28	WG2506407
Nickel	5.02		0.197	2.50	5	05/08/2025 18:28	WG2506407
Selenium	0.234	J	0.180	2.50	5	05/08/2025 18:28	WG2506407
Silver	U		0.0865	0.500	5	05/08/2025 18:28	WG2506407
Zinc	41.0		0.740	25.0	5	05/08/2025 18:28	WG2506407

Method Blank (MB)

(MB) R4210246-1 05/06/25 00:29

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	U		0.379	1.00

L1853891-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1853891-11 05/06/25 03:02 • (DUP) R4210246-7 05/06/25 03:11

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

L1853891-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1853891-24 05/06/25 08:14 • (DUP) R4210246-8 05/06/25 08:23

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

Laboratory Control Sample (LCS)

(LCS) R4210246-2 05/06/25 00:37

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	8.26	82.6	80.0-120	

L1853087-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853087-01 05/06/25 00:46 • (MS) R4210246-3 05/06/25 00:55 • (MSD) R4210246-4 05/06/25 01:04

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	U	17.2	16.9	85.8	84.5	1	75.0-125			1.54	20

L1853087-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1853087-01 05/06/25 00:46 • (MS) R4210246-5 05/06/25 01:13

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	638	U	633	99.2	50	75.0-125	

Method Blank (MB)

(MB) R4210747-1 05/06/25 15:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexavalent Chromium	U		0.379	1.00

L1853090-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1853090-01 05/06/25 16:10 • (DUP) R4210747-3 05/06/25 16:19

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

L1853090-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1853090-10 05/06/25 17:22 • (DUP) R4210747-4 05/06/25 17:31

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	0.470	U	1	200	P1	20

Laboratory Control Sample (LCS)

(LCS) R4210747-2 05/06/25 15:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	10.1	101	80.0-120	

L1853095-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853095-03 05/06/25 19:19 • (MS) R4210747-5 05/06/25 19:28 • (MSD) R4210747-6 05/06/25 19:37

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 %
Hexavalent Chromium	20.0	U	17.0	18.4	85.0	92.0	1	75.0-125			7.87	20

L1853095-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1853095-03 05/06/25 19:19 • (MS) R4210747-7 05/06/25 19:46

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	646	U	612	94.7	50	75.0-125	

L1853093-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1853093-09 05/07/25 15:30 • (DUP) R4211335-2 05/07/25 15:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.03	8.04	1	0.124		1

Sample Narrative:

OS: 0

DUP: 0

Laboratory Control Sample (LCS)

(LCS) R4211335-1 05/07/25 15:30

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.97	99.7	99.0-101	

Sample Narrative:

LCS: 0

L1853081-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1853081-03 05/07/25 19:00 • (DUP) R4211370-2 05/07/25 19:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.13	8.10	1	0.370		1

Sample Narrative:

OS: 0

DUP: 0

L1853093-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1853093-08 05/07/25 19:00 • (DUP) R4211370-3 05/07/25 19:00

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

Sample Narrative:

OS: 0

DUP: 0

Laboratory Control Sample (LCS)

(LCS) R4211370-1 05/07/25 19:00

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

Sample Narrative:

LCS: 0

Method Blank (MB)

(MB) R4211329-1 05/07/25 17:48

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

L1853093-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1853093-10 05/07/25 17:48 • (DUP) R4211329-3 05/07/25 17:48

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	697	682	1	2.18		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4211329-2 05/07/25 17:48

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	1130	1150	102	85.0-115	

Sample Narrative:

LCS: at 25C

Method Blank (MB)

(MB) R4211284-1 05/07/25 16:10

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

L1853081-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1853081-06 05/07/25 16:10 • (DUP) R4211284-3 05/07/25 16:10

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	189	186	1	1.23		20

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

L1853093-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1853093-07 05/07/25 16:10 • (DUP) R4211284-4 05/07/25 16:10

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	377	376	1	0.266		20

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

Laboratory Control Sample (LCS)

(LCS) R4211284-2 05/07/25 16:10

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	1130	1160	102	85.0-115	

Sample Narrative:
LCS: at 25C

Method Blank (MB)

(MB) R4211560-1 05/07/25 12:47

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) R4211560-2 05/07/25 12:49 • (LCSD) R4211560-3 05/07/25 12:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.05	1.05	105	105	80.0-120			0.0321	20

Method Blank (MB)

(MB) R4211566-1 05/07/25 19:24

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) R4211566-2 05/07/25 19:26 • (LCSD) R4211566-3 05/07/25 19:29

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	1.08	1.08	108	108	80.0-120			0.473	20

Method Blank (MB)

(MB) R4211542-1 05/08/25 03:44

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

Laboratory Control Sample (LCS)

(LCS) R4211542-2 05/08/25 03:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	94.8	94.8	80.0-120	
Barium	100	94.3	94.3	80.0-120	
Cadmium	100	100	100	80.0-120	
Copper	100	94.4	94.4	80.0-120	
Lead	100	96.3	96.3	80.0-120	
Nickel	100	99.9	99.9	80.0-120	
Selenium	100	96.3	96.3	80.0-120	
Silver	20.0	19.9	99.4	80.0-120	
Zinc	100	94.0	94.0	80.0-120	

L1853907-25 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853907-25 05/08/25 03:51 • (MS) R4211542-5 05/08/25 04:01 • (MSD) R4211542-6 05/08/25 04:04

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	1.71	95.9	95.5	94.1	93.8	5	75.0-125			0.405	20
Barium	100	42.7	145	143	102	100	5	75.0-125			1.50	20
Cadmium	100	0.149	99.1	100	98.9	100	5	75.0-125			1.40	20
Copper	100	8.96	96.9	98.0	88.0	89.0	5	75.0-125			1.12	20
Lead	100	7.65	102	104	94.5	95.9	5	75.0-125			1.32	20
Nickel	100	5.56	102	101	96.4	95.4	5	75.0-125			0.994	20
Selenium	100	0.565	93.8	95.4	93.3	94.8	5	75.0-125			1.61	20
Silver	20.0	U	19.6	19.7	97.9	98.4	5	75.0-125			0.452	20
Zinc	100	22.6	113	116	90.6	93.9	5	75.0-125			2.89	20

QUALITY CONTROL SUMMARY

L1853093-01,02,03,04,05,06,07,09,10

Method Blank (MB)

(MB) R4211953-1 05/08/25 16:51

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

Laboratory Control Sample (LCS)

(LCS) R4211953-2 05/08/25 16:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	98.4	98.4	80.0-120	
Barium	100	96.8	96.8	80.0-120	
Cadmium	100	99.6	99.6	80.0-120	
Copper	100	102	102	80.0-120	
Lead	100	93.6	93.6	80.0-120	
Nickel	100	102	102	80.0-120	
Selenium	100	96.9	96.9	80.0-120	
Silver	20.0	20.1	100	80.0-120	
Zinc	100	97.4	97.4	80.0-120	

L1854500-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1854500-02 05/08/25 16:57 • (MS) R4211953-5 05/08/25 17:07 • (MSD) R4211953-6 05/08/25 17:10

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	2.66	87.8	104	85.1	102	5	75.0-125			17.1	20
Barium	100	426	489	614	63.3	188	5	75.0-125	V	J3 V	22.6	20
Cadmium	100	U	85.4	102	85.4	102	5	75.0-125			17.6	20
Copper	100	6.92	86.7	106	79.8	98.7	5	75.0-125			19.6	20
Lead	100	10.1	90.0	107	79.9	97.0	5	75.0-125			17.4	20
Nickel	100	27.9	109	130	80.9	102	5	75.0-125			17.9	20
Selenium	100	0.317	89.3	103	89.0	102	5	75.0-125			13.9	20
Silver	20.0	U	18.3	20.8	91.7	104	5	75.0-125			12.6	20
Zinc	100	55.9	129	157	72.9	101	5	75.0-125	J6		19.9	20

Method Blank (MB)

(MB) R4209623-2 05/03/25 12:52

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)	*99.2*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R4209623-1 05/03/25 11:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.00	5.27	105	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*100*	*77.0-120*	

Method Blank (MB)

(MB) R4210743-2 05/04/25 02:14

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	*107*			*75.0-131*
(S) 4-Bromofluorobenzene	*97.4*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*84.4*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4210743-1 05/04/25 00:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.127	102	70.0-123	
Toluene	0.125	0.125	100	75.0-121	
Ethylbenzene	0.125	0.145	116	74.0-126	
Xylenes, Total	0.375	0.442	118	72.0-127	
1,2,4-Trimethylbenzene	0.125	0.148	118	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.145	116	73.0-127	
(S) Toluene-d8			*97.8*	*75.0-131*	
(S) 4-Bromofluorobenzene			*70.3*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*96.4*	*70.0-130*	

L1853093-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853093-05 05/04/25 05:44 • (MS) R4210743-3 05/04/25 08:56 • (MSD) R4210743-4 05/04/25 09:15

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	U	0.138	0.0799	110	63.9	1	10.0-149		J3	53.3	37
Toluene	0.125	U	0.189	0.207	151	166	1	10.0-156		J5	9.09	38
Ethylbenzene	0.125	U	0.153	0.149	122	119	1	10.0-160			2.65	38
Xylenes, Total	0.375	U	0.449	0.436	120	116	1	10.0-160			2.94	38
1,2,4-Trimethylbenzene	0.125	U	0.144	0.148	115	118	1	10.0-160			2.74	36
1,3,5-Trimethylbenzene	0.125	U	0.146	0.152	117	122	1	10.0-160			4.03	38
(S) Toluene-d8					*140*	*145*		*75.0-131*	J1	J1		
(S) 4-Bromofluorobenzene					*97.5*	*98.7*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*85.9*	*66.0*		*70.0-130*		J2		

Method Blank (MB)

(MB) R4210618-1 05/06/25 12:21

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	*67.1*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R4210618-2 05/06/25 12:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	39.8	79.6	50.0-150	
(S) o-Terphenyl			*63.2*	*18.0-148*	

L1853090-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853090-08 05/06/25 12:21 • (MS) R4210618-3 05/06/25 12:35 • (MSD) R4210618-4 05/06/25 12:49

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 %
C10-C28 Diesel Range	47.7	307	1480	876	2460	1190	1	50.0-150	E V	E J3 V	51.3	20
(S) o-Terphenyl					*28.1*	*38.2*		*18.0-148*				

Method Blank (MB)

(MB) R4210188-2 05/05/25 20:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00162	0.00600
Anthracene	U		0.00163	0.00600
Benzo(a)anthracene	U		0.00200	0.00600
Benzo(b)fluoranthene	U		0.00275	0.00600
Benzo(k)fluoranthene	U		0.00213	0.00600
Benzo(a)pyrene	U		0.00163	0.00600
Chrysene	U		0.00206	0.00600
Dibenz(a,h)anthracene	U		0.00201	0.00600
Fluoranthene	U		0.00239	0.00600
Fluorene	U		0.00180	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00234	0.00600
1-Methylnaphthalene	U		0.00219	0.0200
2-Methylnaphthalene	U		0.00571	0.0200
Naphthalene	U		0.00579	0.0200
Pyrene	U		0.00205	0.00600
(S) p-Terphenyl-d14	*109*			*23.0-120*
(S) Nitrobenzene-d5	*107*			*14.0-149*
(S) 2-Fluorobiphenyl	*94.0*			*34.0-125*

Laboratory Control Sample (LCS)

(LCS) R4210188-1 05/05/25 20:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0800	0.0673	84.1	50.0-120	
Anthracene	0.0800	0.0719	89.9	50.0-126	
Benzo(a)anthracene	0.0800	0.0740	92.5	45.0-120	
Benzo(b)fluoranthene	0.0800	0.0739	92.4	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0780	97.5	49.0-125	
Benzo(a)pyrene	0.0800	0.0753	94.1	42.0-120	
Chrysene	0.0800	0.0749	93.6	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0793	99.1	47.0-125	
Fluoranthene	0.0800	0.0802	100	49.0-129	
Fluorene	0.0800	0.0718	89.8	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0740	92.5	46.0-125	
1-Methylnaphthalene	0.0800	0.0748	93.5	51.0-121	
2-Methylnaphthalene	0.0800	0.0723	90.4	50.0-120	
Naphthalene	0.0800	0.0716	89.5	50.0-120	
Pyrene	0.0800	0.0801	100	43.0-123	

Laboratory Control Sample (LCS)

(LCS) R4210188-1 05/05/25 20:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) p-Terphenyl-d14			*85.7*	*23.0-120*	
(S) Nitrobenzene-d5			*84.1*	*14.0-149*	
(S) 2-Fluorobiphenyl			*73.7*	*34.0-125*	

L1852928-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852928-05 05/06/25 05:01 • (MS) R4210188-3 05/06/25 05:19 • (MSD) R4210188-4 05/06/25 05:36

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	0.0788	U	0.0627	0.0613	79.6	78.6	1	14.0-127			2.26	27
Anthracene	0.0788	U	0.0655	0.0632	83.1	81.0	1	10.0-145			3.57	30
Benzo(a)anthracene	0.0788	U	0.0680	0.0664	86.3	85.1	1	10.0-139			2.38	30
Benzo(b)fluoranthene	0.0788	U	0.0681	0.0678	86.4	86.9	1	10.0-140			0.441	36
Benzo(k)fluoranthene	0.0788	U	0.0713	0.0710	90.5	91.0	1	10.0-137			0.422	31
Benzo(a)pyrene	0.0788	U	0.0713	0.0688	90.5	88.2	1	10.0-141			3.57	31
Chrysene	0.0788	U	0.0673	0.0675	85.4	86.5	1	10.0-145			0.297	30
Dibenz(a,h)anthracene	0.0788	U	0.0709	0.0708	90.0	90.8	1	10.0-132			0.141	31
Fluoranthene	0.0788	U	0.0758	0.0737	96.2	94.5	1	10.0-153			2.81	33
Fluorene	0.0788	U	0.0674	0.0650	85.5	83.3	1	11.0-130			3.63	29
Indeno(1,2,3-cd)pyrene	0.0788	U	0.0644	0.0634	81.7	81.3	1	10.0-137			1.56	32
1-Methylnaphthalene	0.0788	U	0.0700	0.0704	88.8	90.3	1	10.0-142			0.570	28
2-Methylnaphthalene	0.0788	U	0.0682	0.0668	86.5	85.6	1	10.0-137			2.07	28
Naphthalene	0.0788	U	0.0670	0.0667	85.0	85.5	1	10.0-135			0.449	27
Pyrene	0.0788	U	0.0744	0.0741	94.4	95.0	1	10.0-148			0.404	35
(S) p-Terphenyl-d14					*98.1*	*99.6*		*23.0-120*				
(S) Nitrobenzene-d5					*90.1*	*93.1*		*14.0-149*				
(S) 2-Fluorobiphenyl					*86.4*	*87.9*		*34.0-125*				

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
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
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.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

Company Name/Address:
Chevron - CO

2115 117th Avenue
Greeley, CO 80631

Billing Information:
Dan Peterson
2115 117th Avenue
Greeley, CO 80631

Pres Chk

Report to:
Paul H. 970-304-5000

Email To: danpeterson@chevron.com;paulh@frem
ason.davidson@chevron.com;chrisl@fremontenv.

Project Description: Qc A 32-19

City/State Collected: Alden CO

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #

Lab Project #
CHEGCO-FREMONT

Collected by (print): Tucker Chapin

Site/Facility ID #

P.O. #

Collected by (signature):

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

Quote #

Date Results Needed

Immediately Packed on Ice N ____ Y X

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BG Table 915-1 4ozClr-NoPres	Full Table 915-1 4ozClr-NoPres
N wall 6ft (2)		SS	6ft	4/29/25	1200	2		X
E wall 6ft (2)		SS	6ft		1236			X
W wall 6ft (2)			6ft		1330			X
Floor 8ft			8ft		1345			X
S wall 6ft			6ft		1400			X
BKG 06 Surface			0.5ft		1530		X	
BKG 07 Surface			0.5ft		1535		X	
BKG 08 Surface					1540		X	
BKG 09 Surface					1545		X	
BKG 10 Surface					1550		X	

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1653093
G070

Acctnum: **CHEGCO**
Template: **T268712**
Prelogin: **P1140480**
PM: **824 - Chris Ward**
PB:
Shipped Via: **FedEX Ground**

Remarks	Sample # (lab only)
	01
	02
	03
	04
	05
	06
	07
	08
	09
	10

* 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 #

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	4/29/25	1649			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
	4/29/25	1800		TEMP 2.0+0.4=2.4 20	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK
				4/30/25 800	