ANALYTICAL REPORT

April 08, 2025

Pace Analytical Services, LLC
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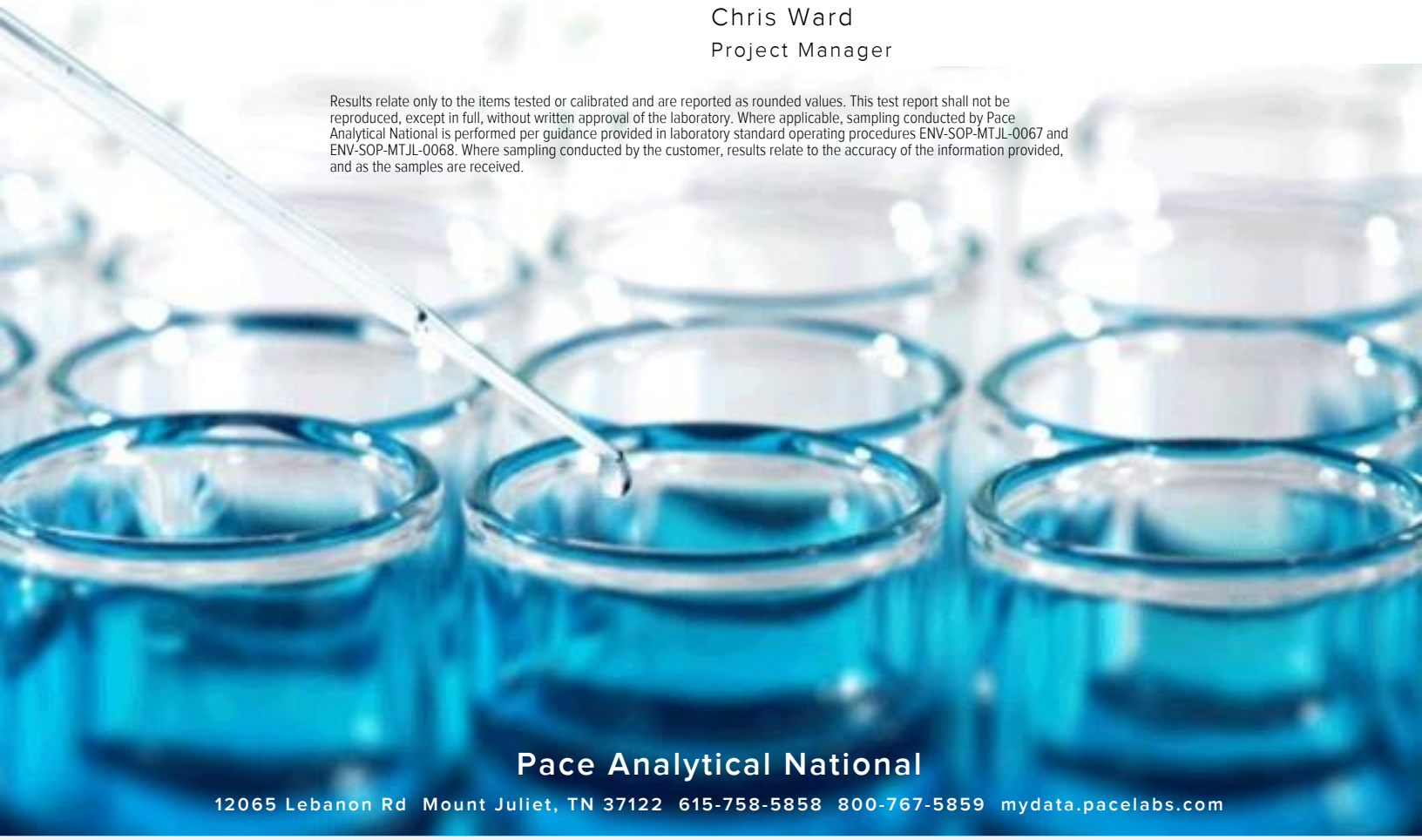
Sample Delivery Group:	L1841542
Samples Received:	03/29/2025
Project Number:	23735, 240023
Description:	Alcorn 61N69W 10NWNE

Report To: Sam Vogt / Jacob Evans
6855 W. 118th Ave
Broomfield, CO 80020

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager



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

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AST-B01 @ 3" L1841542-01 Solid

Collected by: Max Sherwin | Collected date/time: 03/28/25 09:50 | Received date/time: 03/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2480244	1	04/01/25 23:33	04/01/25 23:33	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2480783	1	04/01/25 16:01	04/01/25 23:36	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2481164	1	04/01/25 16:59	04/01/25 17:35	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2481168	1	04/01/25 17:04	04/01/25 22:20	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2480258	1	04/02/25 21:49	04/03/25 16:48	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2480880	5	04/02/25 06:44	04/02/25 22:41	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2484266	1	04/01/25 19:48	04/07/25 14:54	DSS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2481746	1	04/01/25 19:48	04/02/25 15:07	WHS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2482643	1	04/03/25 17:29	04/04/25 02:55	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2482630	1	04/04/25 09:32	04/04/25 22:33	KB	Mt. Juliet, TN

PWV-B01 @ 4' L1841542-02 Solid

Collected by: Max Sherwin | Collected date/time: 03/28/25 10:00 | Received date/time: 03/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2480244	1	04/01/25 23:34	04/01/25 23:34	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2480783	1	04/01/25 16:01	04/01/25 23:45	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2481164	1	04/01/25 16:59	04/01/25 17:35	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2481168	1	04/01/25 17:04	04/01/25 22:20	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2480258	1	04/02/25 21:49	04/03/25 16:50	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2480880	5	04/02/25 06:44	04/02/25 22:44	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2484266	1	04/01/25 19:48	04/07/25 15:18	DSS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2481780	1	04/01/25 19:48	04/02/25 13:07	WHS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2482643	1	04/03/25 17:29	04/04/25 03:08	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2482630	1	04/04/25 09:32	04/04/25 22:51	KB	Mt. Juliet, TN

PWV-N01 @ 3' L1841542-03 Solid

Collected by: Max Sherwin | Collected date/time: 03/28/25 10:05 | Received date/time: 03/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2480244	1	04/01/25 23:36	04/01/25 23:36	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2480783	1	04/01/25 16:01	04/01/25 23:54	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2481164	1	04/01/25 16:59	04/01/25 17:35	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2481168	1	04/01/25 17:04	04/01/25 22:20	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2480258	1	04/02/25 21:49	04/03/25 16:52	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2480880	5	04/02/25 06:44	04/02/25 22:48	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2484266	1	04/01/25 19:48	04/07/25 15:41	DSS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2481780	1	04/01/25 19:48	04/02/25 13:26	WHS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2482643	1	04/03/25 17:29	04/04/25 04:26	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2482630	1	04/04/25 09:32	04/04/25 23:08	KB	Mt. Juliet, TN

SEP-B01 @ 5' L1841542-04 Solid

Collected by: Max Sherwin | Collected date/time: 03/28/25 10:25 | Received date/time: 03/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2480247	1	04/04/25 03:08	04/04/25 03:08	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2480783	1	04/01/25 16:01	04/02/25 00:03	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2483028	1	04/04/25 05:30	04/04/25 08:14	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2483029	1	04/04/25 06:26	04/04/25 07:42	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2480255	5	04/02/25 21:43	04/03/25 18:14	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2480880	5	04/02/25 06:44	04/02/25 22:51	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2484671	1	04/01/25 19:48	04/07/25 17:37	DSS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2481780	1	04/01/25 19:48	04/02/25 13:46	WHS	Mt. Juliet, TN

SEP-B01 @ 5' L1841542-04 Solid

Collected by: Max Sherwin | Collected date/time: 03/28/25 10:25 | Received date/time: 03/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2482643	1	04/03/25 17:29	04/04/25 04:39	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2482630	1	04/04/25 09:32	04/04/25 23:26	KB	Mt. Juliet, TN

SEP-B02 @ 5' L1841542-05 Solid

Collected by: Max Sherwin | Collected date/time: 03/28/25 10:30 | Received date/time: 03/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2480250	1	04/04/25 12:59	04/04/25 12:59	JTM	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2480783	1	04/01/25 16:01	04/02/25 00:12	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2483061	1	04/04/25 07:42	04/04/25 09:30	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2483062	1	04/04/25 07:44	04/04/25 10:12	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2480255	1	04/02/25 21:43	04/03/25 18:12	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2480880	5	04/02/25 06:44	04/02/25 22:54	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2484671	1	04/01/25 19:48	04/07/25 18:00	DSS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2481780	1	04/01/25 19:48	04/02/25 14:06	WHS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2482643	1	04/03/25 17:29	04/04/25 04:00	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2482630	1	04/04/25 09:32	04/04/25 23:43	KB	Mt. Juliet, TN

SP-CS01 L1841542-06 Solid

Collected by: Max Sherwin | Collected date/time: 03/28/25 10:35 | Received date/time: 03/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2480244	1	04/01/25 23:38	04/01/25 23:38	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2480783	1	04/01/25 16:01	04/02/25 00:21	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2481164	1	04/01/25 16:59	04/01/25 17:35	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2481168	1	04/01/25 17:04	04/01/25 22:20	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2480261	1	04/02/25 21:35	04/03/25 10:34	BAG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2480880	5	04/02/25 06:44	04/02/25 22:58	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2484671	1	04/01/25 19:48	04/07/25 18:24	DSS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2481780	1	04/01/25 19:48	04/02/25 14:25	WHS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2482643	1	04/03/25 17:29	04/04/25 04:52	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2482630	1	04/04/25 09:32	04/05/25 00:01	KB	Mt. Juliet, TN

DL-B01 @ 4' L1841542-07 Solid

Collected by: Max Sherwin | Collected date/time: 03/28/25 10:40 | Received date/time: 03/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2480250	1	04/04/25 13:02	04/04/25 13:02	JTM	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2480783	1	04/01/25 16:01	04/02/25 00:30	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2483061	1	04/04/25 07:42	04/04/25 09:30	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2483062	1	04/04/25 07:44	04/04/25 10:12	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2480255	1	04/02/25 21:43	04/03/25 18:11	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2480880	5	04/02/25 06:44	04/02/25 23:01	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2484671	1	04/01/25 19:48	04/07/25 18:47	DSS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2481780	1	04/01/25 19:48	04/02/25 14:45	WHS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2482643	1	04/03/25 17:29	04/04/25 05:18	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2482630	1	04/04/25 09:32	04/05/25 00:19	KB	Mt. Juliet, TN

DL-B03 @ 4' L1841542-08 Solid

Collected by: Max Sherwin | Collected date/time: 03/28/25 10:50 | Received date/time: 03/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2480247	1	04/04/25 03:10	04/04/25 03:10	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2480783	1	04/01/25 16:01	04/02/25 00:39	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2483028	1	04/04/25 05:30	04/04/25 08:14	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2483029	1	04/04/25 06:26	04/04/25 07:42	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2480255	1	04/02/25 21:43	04/03/25 18:09	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2480883	5	04/02/25 06:46	04/03/25 01:42	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2484671	1	04/01/25 19:48	04/07/25 19:10	DSS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2481780	1	04/01/25 19:48	04/02/25 15:04	WHS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2482643	1	04/03/25 17:29	04/04/25 05:05	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2482630	1	04/04/25 09:32	04/05/25 00:36	KB	Mt. Juliet, TN

EL-B01 @ 4' L1841542-09 Solid

Collected by: Max Sherwin | Collected date/time: 03/28/25 10:55 | Received date/time: 03/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2480247	1	04/04/25 03:12	04/04/25 03:12	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2480783	1	04/01/25 16:01	04/02/25 01:05	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2483028	1	04/04/25 05:30	04/04/25 08:14	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2483029	1	04/04/25 06:26	04/04/25 07:42	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2480255	1	04/02/25 21:43	04/03/25 18:07	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2480880	5	04/02/25 06:44	04/02/25 23:11	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2484671	1	04/01/25 19:48	04/07/25 19:37	DSS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2481780	1	04/01/25 19:48	04/02/25 15:24	WHS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2482643	10	04/03/25 17:29	04/04/25 15:22	KDB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2482630	1	04/04/25 09:32	04/05/25 00:54	KB	Mt. Juliet, TN

EL-B02 @ 4' L1841542-10 Solid

Collected by: Max Sherwin | Collected date/time: 03/28/25 11:05 | Received date/time: 03/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2480244	1	04/01/25 23:40	04/01/25 23:40	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2480783	1	04/01/25 16:01	04/02/25 01:23	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2481164	1	04/01/25 16:59	04/01/25 17:35	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2481168	1	04/01/25 17:04	04/01/25 22:20	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2480258	1	04/02/25 21:49	04/03/25 16:54	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2480880	5	04/02/25 06:44	04/02/25 23:15	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2484834	1	04/01/25 19:48	04/07/25 18:10	NCD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2481780	1	04/01/25 19:48	04/02/25 15:44	WHS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2482643	1	04/03/25 17:29	04/04/25 03:34	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2482630	1	04/04/25 09:32	04/05/25 01:46	KB	Mt. Juliet, TN

SP-CS02 L1841542-11 Solid

Collected by: Max Sherwin | Collected date/time: 03/28/25 11:10 | Received date/time: 03/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2480247	1	04/04/25 03:13	04/04/25 03:13	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2480783	1	04/01/25 16:01	04/02/25 01:32	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2483028	1	04/04/25 05:30	04/04/25 08:14	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2483029	1	04/04/25 06:26	04/04/25 07:42	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2480255	1	04/02/25 21:43	04/03/25 18:04	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2480880	5	04/02/25 06:44	04/02/25 23:18	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2484834	1	04/01/25 19:48	04/07/25 18:35	NCD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2481780	1	04/01/25 19:48	04/02/25 16:03	WHS	Mt. Juliet, TN

SAMPLE SUMMARY

SP-CS02 L1841542-11 Solid

Collected by: Max Sherwin
Collected date/time: 03/28/25 11:10
Received date/time: 03/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2482643	1	04/03/25 17:29	04/04/25 04:13	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2482630	1	04/04/25 09:32	04/05/25 02:04	KB	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	2.23		1	04/01/2025 23:33	WG2480244

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.379	1.00	1	04/01/2025 23:36	WG2480783

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	9.61	T8	1	04/01/2025 17:35	WG2481164

Sample Narrative:

L1841542-01 WG2481164: 9.61 at 21.2C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	174	umhos/cm		10.0	1	04/01/2025 22:20	WG2481168

Sample Narrative:

L1841542-01 WG2481168: 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	0.0664	J	0.0167	0.200	1	04/03/2025 16:48	WG2480258

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.06		0.100	1.00	5	04/02/2025 22:41	WG2480880
Barium	49.1		0.152	2.50	5	04/02/2025 22:41	WG2480880
Cadmium	ND		0.0855	1.00	5	04/02/2025 22:41	WG2480880
Copper	13.5		0.132	5.00	5	04/02/2025 22:41	WG2480880
Lead	5.89		0.0990	2.00	5	04/02/2025 22:41	WG2480880
Nickel	12.2		0.197	2.50	5	04/02/2025 22:41	WG2480880
Selenium	0.233	J	0.180	2.50	5	04/02/2025 22:41	WG2480880
Silver	ND		0.0865	0.500	5	04/02/2025 22:41	WG2480880
Zinc	27.6		0.740	25.0	5	04/02/2025 22:41	WG2480880

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	0.0383	J	0.0217	0.100	1	04/07/2025 14:54	WG2484266
(S) a,a,a-Trifluorotoluene(FID)	*99.2*			*77.0-120*		*04/07/2025 14:54*	WG2484266

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	ND		0.000467	0.00100	1	04/02/2025 15:07	WG2481746
Toluene	0.00210	J	0.00130	0.00500	1	04/02/2025 15:07	WG2481746
Ethylbenzene	ND		0.000737	0.00250	1	04/02/2025 15:07	WG2481746
Xylenes, Total	ND		0.000880	0.00650	1	04/02/2025 15:07	WG2481746
1,2,4-Trimethylbenzene	ND		0.00158	0.00500	1	04/02/2025 15:07	WG2481746
1,3,5-Trimethylbenzene	ND		0.00200	0.00500	1	04/02/2025 15:07	WG2481746
(S) Toluene-d8	*98.6*			*75.0-131*		*04/02/2025 15:07*	WG2481746
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*04/02/2025 15:07*	WG2481746
(S) 1,2-Dichloroethane-d4	*91.9*			*70.0-130*		*04/02/2025 15:07*	WG2481746

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	ND		1.61	4.00	1	04/04/2025 02:55	WG2482643
C28-C36 Motor Oil Range	ND		0.274	4.00	1	04/04/2025 02:55	WG2482643
(S) o-Terphenyl	*82.0*			*18.0-148*		*04/04/2025 02:55*	WG2482643

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	ND		0.00162	0.00600	1	04/04/2025 22:33	WG2482630
Anthracene	ND		0.00163	0.00600	1	04/04/2025 22:33	WG2482630
Benzo(a)anthracene	ND		0.00200	0.00600	1	04/04/2025 22:33	WG2482630
Benzo(b)fluoranthene	ND		0.00275	0.00600	1	04/04/2025 22:33	WG2482630
Benzo(k)fluoranthene	ND		0.00213	0.00600	1	04/04/2025 22:33	WG2482630
Benzo(a)pyrene	ND		0.00163	0.00600	1	04/04/2025 22:33	WG2482630
Chrysene	ND		0.00206	0.00600	1	04/04/2025 22:33	WG2482630
Dibenz(a,h)anthracene	ND		0.00201	0.00600	1	04/04/2025 22:33	WG2482630
Fluoranthene	ND		0.00239	0.00600	1	04/04/2025 22:33	WG2482630
Fluorene	ND		0.00180	0.00600	1	04/04/2025 22:33	WG2482630
Indeno(1,2,3-cd)pyrene	ND		0.00234	0.00600	1	04/04/2025 22:33	WG2482630
1-Methylnaphthalene	ND		0.00219	0.0200	1	04/04/2025 22:33	WG2482630
2-Methylnaphthalene	ND		0.00571	0.0200	1	04/04/2025 22:33	WG2482630
Naphthalene	ND		0.00579	0.0200	1	04/04/2025 22:33	WG2482630
Pyrene	ND		0.00205	0.00600	1	04/04/2025 22:33	WG2482630
(S) p-Terphenyl-d14	*96.9*			*23.0-120*		*04/04/2025 22:33*	WG2482630
(S) Nitrobenzene-d5	*75.3*			*14.0-149*		*04/04/2025 22:33*	WG2482630
(S) 2-Fluorobiphenyl	*88.1*			*34.0-125*		*04/04/2025 22:33*	WG2482630

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.498		1	04/01/2025 23:34	WG2480244

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.379	1.00	1	04/01/2025 23:45	WG2480783

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.28	T8	1	04/01/2025 17:35	WG2481164

Sample Narrative:

L1841542-02 WG2481164: 8.28 at 21C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	293	umhos/cm		10.0	1	04/01/2025 22:20	WG2481168

Sample Narrative:

L1841542-02 WG2481168: 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	0.205		0.0167	0.200	1	04/03/2025 16:50	WG2480258

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.84		0.100	1.00	5	04/02/2025 22:44	WG2480880
Barium	172		0.152	2.50	5	04/02/2025 22:44	WG2480880
Cadmium	0.205	J	0.0855	1.00	5	04/02/2025 22:44	WG2480880
Copper	13.4		0.132	5.00	5	04/02/2025 22:44	WG2480880
Lead	11.5		0.0990	2.00	5	04/02/2025 22:44	WG2480880
Nickel	15.9		0.197	2.50	5	04/02/2025 22:44	WG2480880
Selenium	0.912	J	0.180	2.50	5	04/02/2025 22:44	WG2480880
Silver	ND		0.0865	0.500	5	04/02/2025 22:44	WG2480880
Zinc	50.4		0.740	25.0	5	04/02/2025 22:44	WG2480880

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	0.0555	J	0.0217	0.100	1	04/07/2025 15:18	WG2484266
(S) a,a,a-Trifluorotoluene(FID)	*97.5*			*77.0-120*		*04/07/2025 15:18*	WG2484266

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	ND		0.000467	0.00100	1	04/02/2025 13:07	WG2481780
Toluene	0.00228	J	0.00130	0.00500	1	04/02/2025 13:07	WG2481780
Ethylbenzene	ND		0.000737	0.00250	1	04/02/2025 13:07	WG2481780
Xylenes, Total	ND		0.000880	0.00650	1	04/02/2025 13:07	WG2481780
1,2,4-Trimethylbenzene	ND		0.00158	0.00500	1	04/02/2025 13:07	WG2481780
1,3,5-Trimethylbenzene	ND		0.00200	0.00500	1	04/02/2025 13:07	WG2481780
(S) Toluene-d8	*100*			*75.0-131*		*04/02/2025 13:07*	WG2481780
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*04/02/2025 13:07*	WG2481780
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*04/02/2025 13:07*	WG2481780

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	3.15	J	1.61	4.00	1	04/04/2025 03:08	WG2482643
C28-C36 Motor Oil Range	11.6		0.274	4.00	1	04/04/2025 03:08	WG2482643
(S) o-Terphenyl	*72.2*			*18.0-148*		*04/04/2025 03:08*	WG2482643

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	ND		0.00162	0.00600	1	04/04/2025 22:51	WG2482630
Anthracene	ND		0.00163	0.00600	1	04/04/2025 22:51	WG2482630
Benzo(a)anthracene	ND		0.00200	0.00600	1	04/04/2025 22:51	WG2482630
Benzo(b)fluoranthene	ND		0.00275	0.00600	1	04/04/2025 22:51	WG2482630
Benzo(k)fluoranthene	ND		0.00213	0.00600	1	04/04/2025 22:51	WG2482630
Benzo(a)pyrene	ND		0.00163	0.00600	1	04/04/2025 22:51	WG2482630
Chrysene	ND		0.00206	0.00600	1	04/04/2025 22:51	WG2482630
Dibenz(a,h)anthracene	ND		0.00201	0.00600	1	04/04/2025 22:51	WG2482630
Fluoranthene	ND		0.00239	0.00600	1	04/04/2025 22:51	WG2482630
Fluorene	ND		0.00180	0.00600	1	04/04/2025 22:51	WG2482630
Indeno(1,2,3-cd)pyrene	ND		0.00234	0.00600	1	04/04/2025 22:51	WG2482630
1-Methylnaphthalene	ND		0.00219	0.0200	1	04/04/2025 22:51	WG2482630
2-Methylnaphthalene	ND		0.00571	0.0200	1	04/04/2025 22:51	WG2482630
Naphthalene	ND		0.00579	0.0200	1	04/04/2025 22:51	WG2482630
Pyrene	ND		0.00205	0.00600	1	04/04/2025 22:51	WG2482630
(S) p-Terphenyl-d14	*95.9*			*23.0-120*		*04/04/2025 22:51*	WG2482630
(S) Nitrobenzene-d5	*80.2*			*14.0-149*		*04/04/2025 22:51*	WG2482630
(S) 2-Fluorobiphenyl	*90.6*			*34.0-125*		*04/04/2025 22:51*	WG2482630

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.0907		1	04/01/2025 23:36	WG2480244

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.379	1.00	1	04/01/2025 23:54	WG2480783

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.26	T8	1	04/01/2025 17:35	WG2481164

Sample Narrative:

L1841542-03 WG2481164: 8.26 at 21.5C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	167	umhos/cm		10.0	1	04/01/2025 22:20	WG2481168

Sample Narrative:

L1841542-03 WG2481168: 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	0.179	J	0.0167	0.200	1	04/03/2025 16:52	WG2480258

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.77		0.100	1.00	5	04/02/2025 22:48	WG2480880
Barium	103		0.152	2.50	5	04/02/2025 22:48	WG2480880
Cadmium	0.139	J	0.0855	1.00	5	04/02/2025 22:48	WG2480880
Copper	8.82		0.132	5.00	5	04/02/2025 22:48	WG2480880
Lead	8.20		0.0990	2.00	5	04/02/2025 22:48	WG2480880
Nickel	10.9		0.197	2.50	5	04/02/2025 22:48	WG2480880
Selenium	0.550	J	0.180	2.50	5	04/02/2025 22:48	WG2480880
Silver	ND		0.0865	0.500	5	04/02/2025 22:48	WG2480880
Zinc	35.4		0.740	25.0	5	04/02/2025 22:48	WG2480880

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0471	J	0.0217	0.100	1	04/07/2025 15:41	WG2484266
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*77.0-120*		*04/07/2025 15:41*	WG2484266

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	ND		0.000467	0.00100	1	04/02/2025 13:26	WG2481780
Toluene	0.00225	J	0.00130	0.00500	1	04/02/2025 13:26	WG2481780
Ethylbenzene	ND		0.000737	0.00250	1	04/02/2025 13:26	WG2481780
Xylenes, Total	ND		0.000880	0.00650	1	04/02/2025 13:26	WG2481780
1,2,4-Trimethylbenzene	ND		0.00158	0.00500	1	04/02/2025 13:26	WG2481780
1,3,5-Trimethylbenzene	ND		0.00200	0.00500	1	04/02/2025 13:26	WG2481780
(S) Toluene-d8	*96.0*			*75.0-131*		*04/02/2025 13:26*	WG2481780
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*04/02/2025 13:26*	WG2481780
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*04/02/2025 13:26*	WG2481780

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	4.92		1.61	4.00	1	04/04/2025 04:26	WG2482643
C28-C36 Motor Oil Range	8.50		0.274	4.00	1	04/04/2025 04:26	WG2482643
(S) o-Terphenyl	*73.2*			*18.0-148*		*04/04/2025 04:26*	WG2482643

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	ND		0.00162	0.00600	1	04/04/2025 23:08	WG2482630
Anthracene	ND		0.00163	0.00600	1	04/04/2025 23:08	WG2482630
Benzo(a)anthracene	ND		0.00200	0.00600	1	04/04/2025 23:08	WG2482630
Benzo(b)fluoranthene	ND		0.00275	0.00600	1	04/04/2025 23:08	WG2482630
Benzo(k)fluoranthene	ND		0.00213	0.00600	1	04/04/2025 23:08	WG2482630
Benzo(a)pyrene	ND		0.00163	0.00600	1	04/04/2025 23:08	WG2482630
Chrysene	0.00223	J	0.00206	0.00600	1	04/04/2025 23:08	WG2482630
Dibenz(a,h)anthracene	ND		0.00201	0.00600	1	04/04/2025 23:08	WG2482630
Fluoranthene	0.00344	J	0.00239	0.00600	1	04/04/2025 23:08	WG2482630
Fluorene	ND		0.00180	0.00600	1	04/04/2025 23:08	WG2482630
Indeno(1,2,3-cd)pyrene	ND		0.00234	0.00600	1	04/04/2025 23:08	WG2482630
1-Methylnaphthalene	ND		0.00219	0.0200	1	04/04/2025 23:08	WG2482630
2-Methylnaphthalene	ND		0.00571	0.0200	1	04/04/2025 23:08	WG2482630
Naphthalene	ND		0.00579	0.0200	1	04/04/2025 23:08	WG2482630
Pyrene	0.00342	J	0.00205	0.00600	1	04/04/2025 23:08	WG2482630
(S) p-Terphenyl-d14	*99.0*			*23.0-120*		*04/04/2025 23:08*	WG2482630
(S) Nitrobenzene-d5	*80.9*			*14.0-149*		*04/04/2025 23:08*	WG2482630
(S) 2-Fluorobiphenyl	*91.8*			*34.0-125*		*04/04/2025 23:08*	WG2482630

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.582		1	04/04/2025 03:08	WG2480247

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.379	1.00	1	04/02/2025 00:03	WG2480783

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.48	T8	1	04/04/2025 08:14	WG2483028

Sample Narrative:

L1841542-04 WG2483028: 8.48 at 23C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	1290	umhos/cm		10.0	1	04/04/2025 07:42	WG2483029

Sample Narrative:

L1841542-04 WG2483029: 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	0.899	J	0.0835	1.00	5	04/03/2025 18:14	WG2480255

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.63		0.100	1.00	5	04/02/2025 22:51	WG2480880
Barium	118		0.152	2.50	5	04/02/2025 22:51	WG2480880
Cadmium	0.177	J	0.0855	1.00	5	04/02/2025 22:51	WG2480880
Copper	10.9		0.132	5.00	5	04/02/2025 22:51	WG2480880
Lead	10.3		0.0990	2.00	5	04/02/2025 22:51	WG2480880
Nickel	12.2		0.197	2.50	5	04/02/2025 22:51	WG2480880
Selenium	0.669	J	0.180	2.50	5	04/02/2025 22:51	WG2480880
Silver	ND		0.0865	0.500	5	04/02/2025 22:51	WG2480880
Zinc	41.2		0.740	25.0	5	04/02/2025 22:51	WG2480880

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	0.0663	J	0.0217	0.100	1	04/07/2025 17:37	WG2484671
(S) a,a,a-Trifluorotoluene(FID)	*96.5*			*77.0-120*		*04/07/2025 17:37*	WG2484671

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	04/02/2025 13:46	WG2481780
Toluene	0.00463	J	0.00130	0.00500	1	04/02/2025 13:46	WG2481780
Ethylbenzene	ND		0.000737	0.00250	1	04/02/2025 13:46	WG2481780
Xylenes, Total	0.00653		0.000880	0.00650	1	04/02/2025 13:46	WG2481780
1,2,4-Trimethylbenzene	ND		0.00158	0.00500	1	04/02/2025 13:46	WG2481780
1,3,5-Trimethylbenzene	0.00395	J	0.00200	0.00500	1	04/02/2025 13:46	WG2481780
(S) Toluene-d8	*102*			*75.0-131*		*04/02/2025 13:46*	WG2481780
(S) 4-Bromofluorobenzene	*96.4*			*67.0-138*		*04/02/2025 13:46*	WG2481780
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*04/02/2025 13:46*	WG2481780

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	04/04/2025 04:39	WG2482643
C28-C36 Motor Oil Range	33.9		0.274	4.00	1	04/04/2025 04:39	WG2482643
(S) o-Terphenyl	*48.0*			*18.0-148*		*04/04/2025 04:39*	WG2482643

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	ND		0.00162	0.00600	1	04/04/2025 23:26	WG2482630
Anthracene	ND		0.00163	0.00600	1	04/04/2025 23:26	WG2482630
Benzo(a)anthracene	ND		0.00200	0.00600	1	04/04/2025 23:26	WG2482630
Benzo(b)fluoranthene	ND		0.00275	0.00600	1	04/04/2025 23:26	WG2482630
Benzo(k)fluoranthene	ND		0.00213	0.00600	1	04/04/2025 23:26	WG2482630
Benzo(a)pyrene	ND		0.00163	0.00600	1	04/04/2025 23:26	WG2482630
Chrysene	ND		0.00206	0.00600	1	04/04/2025 23:26	WG2482630
Dibenz(a,h)anthracene	ND		0.00201	0.00600	1	04/04/2025 23:26	WG2482630
Fluoranthene	ND		0.00239	0.00600	1	04/04/2025 23:26	WG2482630
Fluorene	ND		0.00180	0.00600	1	04/04/2025 23:26	WG2482630
Indeno(1,2,3-cd)pyrene	ND		0.00234	0.00600	1	04/04/2025 23:26	WG2482630
1-Methylnaphthalene	ND		0.00219	0.0200	1	04/04/2025 23:26	WG2482630
2-Methylnaphthalene	ND		0.00571	0.0200	1	04/04/2025 23:26	WG2482630
Naphthalene	ND		0.00579	0.0200	1	04/04/2025 23:26	WG2482630
Pyrene	ND		0.00205	0.00600	1	04/04/2025 23:26	WG2482630
(S) p-Terphenyl-d14	*87.2*			*23.0-120*		*04/04/2025 23:26*	WG2482630
(S) Nitrobenzene-d5	*73.6*			*14.0-149*		*04/04/2025 23:26*	WG2482630
(S) 2-Fluorobiphenyl	*83.9*			*34.0-125*		*04/04/2025 23:26*	WG2482630

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.06		1	04/04/2025 12:59	WG2480250

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.379	1.00	1	04/02/2025 00:12	WG2480783

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.47	T8	1	04/04/2025 09:30	WG2483061

Sample Narrative:

L1841542-05 WG2483061: 8.47 at 21.6C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	337	umhos/cm		10.0	1	04/04/2025 10:12	WG2483062

Sample Narrative:

L1841542-05 WG2483062: 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	0.385		0.0167	0.200	1	04/03/2025 18:12	WG2480255

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.10		0.100	1.00	5	04/02/2025 22:54	WG2480880
Barium	259		0.152	2.50	5	04/02/2025 22:54	WG2480880
Cadmium	0.171	J	0.0855	1.00	5	04/02/2025 22:54	WG2480880
Copper	12.3		0.132	5.00	5	04/02/2025 22:54	WG2480880
Lead	11.0		0.0990	2.00	5	04/02/2025 22:54	WG2480880
Nickel	15.1		0.197	2.50	5	04/02/2025 22:54	WG2480880
Selenium	0.753	J	0.180	2.50	5	04/02/2025 22:54	WG2480880
Silver	ND		0.0865	0.500	5	04/02/2025 22:54	WG2480880
Zinc	48.6		0.740	25.0	5	04/02/2025 22:54	WG2480880

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	0.0679	J	0.0217	0.100	1	04/07/2025 18:00	WG2484671
(S) a,a,a-Trifluorotoluene(FID)	*97.5*			*77.0-120*		*04/07/2025 18:00*	WG2484671

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	ND		0.000467	0.00100	1	04/02/2025 14:06	WG2481780
Toluene	0.00255	J	0.00130	0.00500	1	04/02/2025 14:06	WG2481780
Ethylbenzene	ND		0.000737	0.00250	1	04/02/2025 14:06	WG2481780
Xylenes, Total	ND		0.000880	0.00650	1	04/02/2025 14:06	WG2481780
1,2,4-Trimethylbenzene	ND		0.00158	0.00500	1	04/02/2025 14:06	WG2481780
1,3,5-Trimethylbenzene	ND		0.00200	0.00500	1	04/02/2025 14:06	WG2481780
(S) Toluene-d8	*99.7*			*75.0-131*		*04/02/2025 14:06*	WG2481780
(S) 4-Bromofluorobenzene	*93.8*			*67.0-138*		*04/02/2025 14:06*	WG2481780
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*04/02/2025 14:06*	WG2481780

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	7.12		1.61	4.00	1	04/04/2025 04:00	WG2482643
C28-C36 Motor Oil Range	11.5		0.274	4.00	1	04/04/2025 04:00	WG2482643
(S) o-Terphenyl	*82.3*			*18.0-148*		*04/04/2025 04:00*	WG2482643

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	ND		0.00162	0.00600	1	04/04/2025 23:43	WG2482630
Anthracene	ND		0.00163	0.00600	1	04/04/2025 23:43	WG2482630
Benzo(a)anthracene	ND		0.00200	0.00600	1	04/04/2025 23:43	WG2482630
Benzo(b)fluoranthene	ND		0.00275	0.00600	1	04/04/2025 23:43	WG2482630
Benzo(k)fluoranthene	ND		0.00213	0.00600	1	04/04/2025 23:43	WG2482630
Benzo(a)pyrene	ND		0.00163	0.00600	1	04/04/2025 23:43	WG2482630
Chrysene	ND		0.00206	0.00600	1	04/04/2025 23:43	WG2482630
Dibenz(a,h)anthracene	ND		0.00201	0.00600	1	04/04/2025 23:43	WG2482630
Fluoranthene	ND		0.00239	0.00600	1	04/04/2025 23:43	WG2482630
Fluorene	ND		0.00180	0.00600	1	04/04/2025 23:43	WG2482630
Indeno(1,2,3-cd)pyrene	ND		0.00234	0.00600	1	04/04/2025 23:43	WG2482630
1-Methylnaphthalene	ND		0.00219	0.0200	1	04/04/2025 23:43	WG2482630
2-Methylnaphthalene	ND		0.00571	0.0200	1	04/04/2025 23:43	WG2482630
Naphthalene	ND		0.00579	0.0200	1	04/04/2025 23:43	WG2482630
Pyrene	ND		0.00205	0.00600	1	04/04/2025 23:43	WG2482630
(S) p-Terphenyl-d14	*98.4*			*23.0-120*		*04/04/2025 23:43*	WG2482630
(S) Nitrobenzene-d5	*81.0*			*14.0-149*		*04/04/2025 23:43*	WG2482630
(S) 2-Fluorobiphenyl	*91.6*			*34.0-125*		*04/04/2025 23:43*	WG2482630

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.00		1	04/01/2025 23:38	WG2480244

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.379	1.00	1	04/02/2025 00:21	WG2480783

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.19	T8	1	04/01/2025 17:35	WG2481164

Sample Narrative:

L1841542-06 WG2481164: 8.19 at 21.6C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	241	umhos/cm		10.0	1	04/01/2025 22:20	WG2481168

Sample Narrative:

L1841542-06 WG2481168: 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	0.779		0.0167	0.200	1	04/03/2025 10:34	WG2480261

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.67		0.100	1.00	5	04/02/2025 22:58	WG2480880
Barium	97.8		0.152	2.50	5	04/02/2025 22:58	WG2480880
Cadmium	0.215	J	0.0855	1.00	5	04/02/2025 22:58	WG2480880
Copper	9.62		0.132	5.00	5	04/02/2025 22:58	WG2480880
Lead	8.53		0.0990	2.00	5	04/02/2025 22:58	WG2480880
Nickel	9.99		0.197	2.50	5	04/02/2025 22:58	WG2480880
Selenium	0.477	J	0.180	2.50	5	04/02/2025 22:58	WG2480880
Silver	ND		0.0865	0.500	5	04/02/2025 22:58	WG2480880
Zinc	34.7		0.740	25.0	5	04/02/2025 22:58	WG2480880

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	0.0425	J	0.0217	0.100	1	04/07/2025 18:24	WG2484671
(S) a,a,a-Trifluorotoluene(FID)	*98.3*			*77.0-120*		*04/07/2025 18:24*	WG2484671

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	ND		0.000467	0.00100	1	04/02/2025 14:25	WG2481780
Toluene	0.00260	J	0.00130	0.00500	1	04/02/2025 14:25	WG2481780
Ethylbenzene	ND		0.000737	0.00250	1	04/02/2025 14:25	WG2481780
Xylenes, Total	ND		0.000880	0.00650	1	04/02/2025 14:25	WG2481780
1,2,4-Trimethylbenzene	ND		0.00158	0.00500	1	04/02/2025 14:25	WG2481780
1,3,5-Trimethylbenzene	ND		0.00200	0.00500	1	04/02/2025 14:25	WG2481780
(S) Toluene-d8	*100*			*75.0-131*		*04/02/2025 14:25*	WG2481780
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*04/02/2025 14:25*	WG2481780
(S) 1,2-Dichloroethane-d4	*87.9*			*70.0-130*		*04/02/2025 14:25*	WG2481780

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	34.8		1.61	4.00	1	04/04/2025 04:52	WG2482643
C28-C36 Motor Oil Range	51.6		0.274	4.00	1	04/04/2025 04:52	WG2482643
(S) o-Terphenyl	*67.5*			*18.0-148*		*04/04/2025 04:52*	WG2482643

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	ND		0.00162	0.00600	1	04/05/2025 00:01	WG2482630
Anthracene	ND		0.00163	0.00600	1	04/05/2025 00:01	WG2482630
Benzo(a)anthracene	ND		0.00200	0.00600	1	04/05/2025 00:01	WG2482630
Benzo(b)fluoranthene	ND		0.00275	0.00600	1	04/05/2025 00:01	WG2482630
Benzo(k)fluoranthene	ND		0.00213	0.00600	1	04/05/2025 00:01	WG2482630
Benzo(a)pyrene	ND		0.00163	0.00600	1	04/05/2025 00:01	WG2482630
Chrysene	ND		0.00206	0.00600	1	04/05/2025 00:01	WG2482630
Dibenz(a,h)anthracene	ND		0.00201	0.00600	1	04/05/2025 00:01	WG2482630
Fluoranthene	ND		0.00239	0.00600	1	04/05/2025 00:01	WG2482630
Fluorene	ND		0.00180	0.00600	1	04/05/2025 00:01	WG2482630
Indeno(1,2,3-cd)pyrene	ND		0.00234	0.00600	1	04/05/2025 00:01	WG2482630
1-Methylnaphthalene	0.00295	J	0.00219	0.0200	1	04/05/2025 00:01	WG2482630
2-Methylnaphthalene	ND		0.00571	0.0200	1	04/05/2025 00:01	WG2482630
Naphthalene	ND		0.00579	0.0200	1	04/05/2025 00:01	WG2482630
Pyrene	0.00221	J	0.00205	0.00600	1	04/05/2025 00:01	WG2482630
(S) p-Terphenyl-d14	*99.4*			*23.0-120*		*04/05/2025 00:01*	WG2482630
(S) Nitrobenzene-d5	*85.9*			*14.0-149*		*04/05/2025 00:01*	WG2482630
(S) 2-Fluorobiphenyl	*94.9*			*34.0-125*		*04/05/2025 00:01*	WG2482630

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.206		1	04/04/2025 13:02	WG2480250

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.467	J	0.379	1.00	1	04/02/2025 00:30	WG2480783

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.96	T8	1	04/04/2025 09:30	WG2483061

Sample Narrative:

L1841542-07 WG2483061: 7.96 at 21.6C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	262	umhos/cm		10.0	1	04/04/2025 10:12	WG2483062

Sample Narrative:

L1841542-07 WG2483062: 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	0.217		0.0167	0.200	1	04/03/2025 18:11	WG2480255

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.27		0.100	1.00	5	04/02/2025 23:01	WG2480880
Barium	127		0.152	2.50	5	04/02/2025 23:01	WG2480880
Cadmium	0.259	J	0.0855	1.00	5	04/02/2025 23:01	WG2480880
Copper	12.0		0.132	5.00	5	04/02/2025 23:01	WG2480880
Lead	12.1		0.0990	2.00	5	04/02/2025 23:01	WG2480880
Nickel	13.8		0.197	2.50	5	04/02/2025 23:01	WG2480880
Selenium	0.711	J	0.180	2.50	5	04/02/2025 23:01	WG2480880
Silver	ND		0.0865	0.500	5	04/02/2025 23:01	WG2480880
Zinc	48.0		0.740	25.0	5	04/02/2025 23:01	WG2480880

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	0.127		0.0217	0.100	1	04/07/2025 18:47	WG2484671
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*77.0-120*		*04/07/2025 18:47*	WG2484671

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	ND		0.000467	0.00100	1	04/02/2025 14:45	WG2481780
Toluene	0.00202	J	0.00130	0.00500	1	04/02/2025 14:45	WG2481780
Ethylbenzene	ND		0.000737	0.00250	1	04/02/2025 14:45	WG2481780
Xylenes, Total	ND		0.000880	0.00650	1	04/02/2025 14:45	WG2481780
1,2,4-Trimethylbenzene	ND		0.00158	0.00500	1	04/02/2025 14:45	WG2481780
1,3,5-Trimethylbenzene	ND		0.00200	0.00500	1	04/02/2025 14:45	WG2481780
(S) Toluene-d8	*94.9*			*75.0-131*		*04/02/2025 14:45*	WG2481780
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*04/02/2025 14:45*	WG2481780
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*04/02/2025 14:45*	WG2481780

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	91.6		1.61	4.00	1	04/04/2025 05:18	WG2482643
C28-C36 Motor Oil Range	100		0.274	4.00	1	04/04/2025 05:18	WG2482643
(S) o-Terphenyl	*57.9*			*18.0-148*		*04/04/2025 05:18*	WG2482643

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	ND		0.00162	0.00600	1	04/05/2025 00:19	WG2482630
Anthracene	ND		0.00163	0.00600	1	04/05/2025 00:19	WG2482630
Benzo(a)anthracene	ND		0.00200	0.00600	1	04/05/2025 00:19	WG2482630
Benzo(b)fluoranthene	ND		0.00275	0.00600	1	04/05/2025 00:19	WG2482630
Benzo(k)fluoranthene	ND		0.00213	0.00600	1	04/05/2025 00:19	WG2482630
Benzo(a)pyrene	ND		0.00163	0.00600	1	04/05/2025 00:19	WG2482630
Chrysene	ND		0.00206	0.00600	1	04/05/2025 00:19	WG2482630
Dibenz(a,h)anthracene	ND		0.00201	0.00600	1	04/05/2025 00:19	WG2482630
Fluoranthene	ND		0.00239	0.00600	1	04/05/2025 00:19	WG2482630
Fluorene	0.00248	J	0.00180	0.00600	1	04/05/2025 00:19	WG2482630
Indeno(1,2,3-cd)pyrene	ND		0.00234	0.00600	1	04/05/2025 00:19	WG2482630
1-Methylnaphthalene	0.0102	J	0.00219	0.0200	1	04/05/2025 00:19	WG2482630
2-Methylnaphthalene	0.0124	J	0.00571	0.0200	1	04/05/2025 00:19	WG2482630
Naphthalene	ND		0.00579	0.0200	1	04/05/2025 00:19	WG2482630
Pyrene	0.00278	J	0.00205	0.00600	1	04/05/2025 00:19	WG2482630
(S) p-Terphenyl-d14	*93.8*			*23.0-120*		*04/05/2025 00:19*	WG2482630
(S) Nitrobenzene-d5	*92.4*			*14.0-149*		*04/05/2025 00:19*	WG2482630
(S) 2-Fluorobiphenyl	*90.1*			*34.0-125*		*04/05/2025 00:19*	WG2482630

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	4.45		1	04/04/2025 03:10	WG2480247

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.379	1.00	1	04/02/2025 00:39	WG2480783

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.50	T8	1	04/04/2025 08:14	WG2483028

Sample Narrative:

L1841542-08 WG2483028: 8.5 at 22.7C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	1080	umhos/cm		10.0	1	04/04/2025 07:42	WG2483029

Sample Narrative:

L1841542-08 WG2483029: 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	0.869		0.0167	0.200	1	04/03/2025 18:09	WG2480255

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.72		0.100	1.00	5	04/03/2025 01:42	WG2480883
Barium	130		0.152	2.50	5	04/03/2025 01:42	WG2480883
Cadmium	0.196	J	0.0855	1.00	5	04/03/2025 01:42	WG2480883
Copper	11.8		0.132	5.00	5	04/03/2025 01:42	WG2480883
Lead	11.1		0.0990	2.00	5	04/03/2025 01:42	WG2480883
Nickel	13.0		0.197	2.50	5	04/03/2025 01:42	WG2480883
Selenium	0.506	J	0.180	2.50	5	04/03/2025 01:42	WG2480883
Silver	ND		0.0865	0.500	5	04/03/2025 01:42	WG2480883
Zinc	45.3		0.740	25.0	5	04/03/2025 01:42	WG2480883

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	0.0737	J	0.0217	0.100	1	04/07/2025 19:10	WG2484671
(S) a,a,a-Trifluorotoluene(FID)	*96.7*			*77.0-120*		*04/07/2025 19:10*	WG2484671

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	ND		0.000467	0.00100	1	04/02/2025 15:04	WG2481780
Toluene	0.00270	J	0.00130	0.00500	1	04/02/2025 15:04	WG2481780
Ethylbenzene	ND		0.000737	0.00250	1	04/02/2025 15:04	WG2481780
Xylenes, Total	ND		0.000880	0.00650	1	04/02/2025 15:04	WG2481780
1,2,4-Trimethylbenzene	ND		0.00158	0.00500	1	04/02/2025 15:04	WG2481780
1,3,5-Trimethylbenzene	0.00225	J	0.00200	0.00500	1	04/02/2025 15:04	WG2481780
(S) Toluene-d8	*97.1*			*75.0-131*		*04/02/2025 15:04*	WG2481780
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*04/02/2025 15:04*	WG2481780
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*04/02/2025 15:04*	WG2481780

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	61.7		1.61	4.00	1	04/04/2025 05:05	WG2482643
C28-C36 Motor Oil Range	87.6		0.274	4.00	1	04/04/2025 05:05	WG2482643
(S) o-Terphenyl	*44.8*			*18.0-148*		*04/04/2025 05:05*	WG2482643

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	ND		0.00162	0.00600	1	04/05/2025 00:36	WG2482630
Anthracene	ND		0.00163	0.00600	1	04/05/2025 00:36	WG2482630
Benzo(a)anthracene	ND		0.00200	0.00600	1	04/05/2025 00:36	WG2482630
Benzo(b)fluoranthene	ND		0.00275	0.00600	1	04/05/2025 00:36	WG2482630
Benzo(k)fluoranthene	ND		0.00213	0.00600	1	04/05/2025 00:36	WG2482630
Benzo(a)pyrene	ND		0.00163	0.00600	1	04/05/2025 00:36	WG2482630
Chrysene	ND		0.00206	0.00600	1	04/05/2025 00:36	WG2482630
Dibenz(a,h)anthracene	ND		0.00201	0.00600	1	04/05/2025 00:36	WG2482630
Fluoranthene	ND		0.00239	0.00600	1	04/05/2025 00:36	WG2482630
Fluorene	ND		0.00180	0.00600	1	04/05/2025 00:36	WG2482630
Indeno(1,2,3-cd)pyrene	ND		0.00234	0.00600	1	04/05/2025 00:36	WG2482630
1-Methylnaphthalene	ND		0.00219	0.0200	1	04/05/2025 00:36	WG2482630
2-Methylnaphthalene	ND		0.00571	0.0200	1	04/05/2025 00:36	WG2482630
Naphthalene	ND		0.00579	0.0200	1	04/05/2025 00:36	WG2482630
Pyrene	ND		0.00205	0.00600	1	04/05/2025 00:36	WG2482630
(S) p-Terphenyl-d14	*87.8*			*23.0-120*		*04/05/2025 00:36*	WG2482630
(S) Nitrobenzene-d5	*75.2*			*14.0-149*		*04/05/2025 00:36*	WG2482630
(S) 2-Fluorobiphenyl	*84.1*			*34.0-125*		*04/05/2025 00:36*	WG2482630

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	9.11		1	04/04/2025 03:12	WG2480247

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.379	1.00	1	04/02/2025 01:05	WG2480783

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.02	T8	1	04/04/2025 08:14	WG2483028

Sample Narrative:

L1841542-09 WG2483028: 8.02 at 23C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	244	umhos/cm		10.0	1	04/04/2025 07:42	WG2483029

Sample Narrative:

L1841542-09 WG2483029: 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	04/03/2025 18:07	WG2480255

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.47		0.100	1.00	5	04/02/2025 23:11	WG2480880
Barium	112		0.152	2.50	5	04/02/2025 23:11	WG2480880
Cadmium	0.143	J	0.0855	1.00	5	04/02/2025 23:11	WG2480880
Copper	10.2		0.132	5.00	5	04/02/2025 23:11	WG2480880
Lead	11.3		0.0990	2.00	5	04/02/2025 23:11	WG2480880
Nickel	11.9		0.197	2.50	5	04/02/2025 23:11	WG2480880
Selenium	0.617	J	0.180	2.50	5	04/02/2025 23:11	WG2480880
Silver	ND		0.0865	0.500	5	04/02/2025 23:11	WG2480880
Zinc	41.7		0.740	25.0	5	04/02/2025 23:11	WG2480880

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	0.0925	J	0.0217	0.100	1	04/07/2025 19:37	WG2484671
(S) a,a,a-Trifluorotoluene(FID)	*98.0*			*77.0-120*		*04/07/2025 19:37*	WG2484671

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	ND		0.000467	0.00100	1	04/02/2025 15:24	WG2481780
Toluene	0.00225	J	0.00130	0.00500	1	04/02/2025 15:24	WG2481780
Ethylbenzene	ND		0.000737	0.00250	1	04/02/2025 15:24	WG2481780
Xylenes, Total	ND		0.000880	0.00650	1	04/02/2025 15:24	WG2481780
1,2,4-Trimethylbenzene	0.00160	J	0.00158	0.00500	1	04/02/2025 15:24	WG2481780
1,3,5-Trimethylbenzene	ND		0.00200	0.00500	1	04/02/2025 15:24	WG2481780
(S) Toluene-d8	*96.0*			*75.0-131*		*04/02/2025 15:24*	WG2481780
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*04/02/2025 15:24*	WG2481780
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*04/02/2025 15:24*	WG2481780

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	363		16.1	40.0	10	04/04/2025 15:22	WG2482643
C28-C36 Motor Oil Range	346		2.74	40.0	10	04/04/2025 15:22	WG2482643
(S) o-Terphenyl	*53.1*			*18.0-148*		*04/04/2025 15:22*	WG2482643

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	ND		0.00162	0.00600	1	04/05/2025 00:54	WG2482630
Anthracene	0.00308	J	0.00163	0.00600	1	04/05/2025 00:54	WG2482630
Benzo(a)anthracene	ND		0.00200	0.00600	1	04/05/2025 00:54	WG2482630
Benzo(b)fluoranthene	ND		0.00275	0.00600	1	04/05/2025 00:54	WG2482630
Benzo(k)fluoranthene	ND		0.00213	0.00600	1	04/05/2025 00:54	WG2482630
Benzo(a)pyrene	ND		0.00163	0.00600	1	04/05/2025 00:54	WG2482630
Chrysene	ND		0.00206	0.00600	1	04/05/2025 00:54	WG2482630
Dibenz(a,h)anthracene	ND		0.00201	0.00600	1	04/05/2025 00:54	WG2482630
Fluoranthene	ND		0.00239	0.00600	1	04/05/2025 00:54	WG2482630
Fluorene	0.00446	J	0.00180	0.00600	1	04/05/2025 00:54	WG2482630
Indeno(1,2,3-cd)pyrene	ND		0.00234	0.00600	1	04/05/2025 00:54	WG2482630
1-Methylnaphthalene	0.0140	J J3	0.00219	0.0200	1	04/05/2025 00:54	WG2482630
2-Methylnaphthalene	0.0206	J3 J5	0.00571	0.0200	1	04/05/2025 00:54	WG2482630
Naphthalene	ND		0.00579	0.0200	1	04/05/2025 00:54	WG2482630
Pyrene	0.00322	J	0.00205	0.00600	1	04/05/2025 00:54	WG2482630
(S) p-Terphenyl-d14	*88.0*			*23.0-120*		*04/05/2025 00:54*	WG2482630
(S) Nitrobenzene-d5	*91.7*			*14.0-149*		*04/05/2025 00:54*	WG2482630
(S) 2-Fluorobiphenyl	*84.6*			*34.0-125*		*04/05/2025 00:54*	WG2482630

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.451		1	04/01/2025 23:40	WG2480244

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.379	1.00	1	04/02/2025 01:23	WG2480783

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.28	T8	1	04/01/2025 17:35	WG2481164

Sample Narrative:

L1841542-10 WG2481164: 8.28 at 21.5C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	225	umhos/cm		10.0	1	04/01/2025 22:20	WG2481168

Sample Narrative:

L1841542-10 WG2481168: 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	0.164	J	0.0167	0.200	1	04/03/2025 16:54	WG2480258

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.44		0.100	1.00	5	04/02/2025 23:15	WG2480880
Barium	160		0.152	2.50	5	04/02/2025 23:15	WG2480880
Cadmium	0.235	J	0.0855	1.00	5	04/02/2025 23:15	WG2480880
Copper	13.4		0.132	5.00	5	04/02/2025 23:15	WG2480880
Lead	11.8		0.0990	2.00	5	04/02/2025 23:15	WG2480880
Nickel	15.9		0.197	2.50	5	04/02/2025 23:15	WG2480880
Selenium	0.822	J	0.180	2.50	5	04/02/2025 23:15	WG2480880
Silver	ND		0.0865	0.500	5	04/02/2025 23:15	WG2480880
Zinc	53.2		0.740	25.0	5	04/02/2025 23:15	WG2480880

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	0.0485	B J	0.0217	0.100	1	04/07/2025 18:10	WG2484834
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*77.0-120*		*04/07/2025 18:10*	WG2484834

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	ND		0.000467	0.00100	1	04/02/2025 15:44	WG2481780
Toluene	0.00238	J	0.00130	0.00500	1	04/02/2025 15:44	WG2481780
Ethylbenzene	ND		0.000737	0.00250	1	04/02/2025 15:44	WG2481780
Xylenes, Total	ND		0.000880	0.00650	1	04/02/2025 15:44	WG2481780
1,2,4-Trimethylbenzene	ND		0.00158	0.00500	1	04/02/2025 15:44	WG2481780
1,3,5-Trimethylbenzene	ND		0.00200	0.00500	1	04/02/2025 15:44	WG2481780
(S) Toluene-d8	*104*			*75.0-131*		*04/02/2025 15:44*	WG2481780
(S) 4-Bromofluorobenzene	*94.4*			*67.0-138*		*04/02/2025 15:44*	WG2481780
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*04/02/2025 15:44*	WG2481780

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	3.95	J	1.61	4.00	1	04/04/2025 03:34	WG2482643
C28-C36 Motor Oil Range	3.99	J	0.274	4.00	1	04/04/2025 03:34	WG2482643
(S) o-Terphenyl	*69.0*			*18.0-148*		*04/04/2025 03:34*	WG2482643

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	ND		0.00162	0.00600	1	04/05/2025 01:46	WG2482630
Anthracene	ND		0.00163	0.00600	1	04/05/2025 01:46	WG2482630
Benzo(a)anthracene	ND		0.00200	0.00600	1	04/05/2025 01:46	WG2482630
Benzo(b)fluoranthene	ND		0.00275	0.00600	1	04/05/2025 01:46	WG2482630
Benzo(k)fluoranthene	ND		0.00213	0.00600	1	04/05/2025 01:46	WG2482630
Benzo(a)pyrene	ND		0.00163	0.00600	1	04/05/2025 01:46	WG2482630
Chrysene	ND		0.00206	0.00600	1	04/05/2025 01:46	WG2482630
Dibenz(a,h)anthracene	ND		0.00201	0.00600	1	04/05/2025 01:46	WG2482630
Fluoranthene	ND		0.00239	0.00600	1	04/05/2025 01:46	WG2482630
Fluorene	ND		0.00180	0.00600	1	04/05/2025 01:46	WG2482630
Indeno(1,2,3-cd)pyrene	ND		0.00234	0.00600	1	04/05/2025 01:46	WG2482630
1-Methylnaphthalene	ND		0.00219	0.0200	1	04/05/2025 01:46	WG2482630
2-Methylnaphthalene	ND		0.00571	0.0200	1	04/05/2025 01:46	WG2482630
Naphthalene	ND		0.00579	0.0200	1	04/05/2025 01:46	WG2482630
Pyrene	ND		0.00205	0.00600	1	04/05/2025 01:46	WG2482630
(S) p-Terphenyl-d14	*92.6*			*23.0-120*		*04/05/2025 01:46*	WG2482630
(S) Nitrobenzene-d5	*81.9*			*14.0-149*		*04/05/2025 01:46*	WG2482630
(S) 2-Fluorobiphenyl	*87.9*			*34.0-125*		*04/05/2025 01:46*	WG2482630

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.303		1	04/04/2025 03:13	WG2480247

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.379	1.00	1	04/02/2025 01:32	WG2480783

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.03	T8	1	04/04/2025 08:14	WG2483028

Sample Narrative:

L1841542-11 WG2483028: 8.03 at 22.7C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	174	umhos/cm		10.0	1	04/04/2025 07:42	WG2483029

Sample Narrative:

L1841542-11 WG2483029: 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	0.147	J	0.0167	0.200	1	04/03/2025 18:04	WG2480255

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.56		0.100	1.00	5	04/02/2025 23:18	WG2480880
Barium	97.6		0.152	2.50	5	04/02/2025 23:18	WG2480880
Cadmium	0.132	J	0.0855	1.00	5	04/02/2025 23:18	WG2480880
Copper	9.48		0.132	5.00	5	04/02/2025 23:18	WG2480880
Lead	8.45		0.0990	2.00	5	04/02/2025 23:18	WG2480880
Nickel	10.2		0.197	2.50	5	04/02/2025 23:18	WG2480880
Selenium	0.565	J	0.180	2.50	5	04/02/2025 23:18	WG2480880
Silver	ND		0.0865	0.500	5	04/02/2025 23:18	WG2480880
Zinc	36.4		0.740	25.0	5	04/02/2025 23:18	WG2480880

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	0.0570	B J	0.0217	0.100	1	04/07/2025 18:35	WG2484834
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*04/07/2025 18:35*	WG2484834

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	ND		0.000467	0.00100	1	04/02/2025 16:03	WG2481780
Toluene	0.00238	J	0.00130	0.00500	1	04/02/2025 16:03	WG2481780
Ethylbenzene	ND		0.000737	0.00250	1	04/02/2025 16:03	WG2481780
Xylenes, Total	ND		0.000880	0.00650	1	04/02/2025 16:03	WG2481780
1,2,4-Trimethylbenzene	ND		0.00158	0.00500	1	04/02/2025 16:03	WG2481780
1,3,5-Trimethylbenzene	ND		0.00200	0.00500	1	04/02/2025 16:03	WG2481780
(S) Toluene-d8	*101*			*75.0-131*		*04/02/2025 16:03*	WG2481780
(S) 4-Bromofluorobenzene	*97.9*			*67.0-138*		*04/02/2025 16:03*	WG2481780
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*04/02/2025 16:03*	WG2481780

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	33.9		1.61	4.00	1	04/04/2025 04:13	WG2482643
C28-C36 Motor Oil Range	25.6		0.274	4.00	1	04/04/2025 04:13	WG2482643
(S) o-Terphenyl	*64.6*			*18.0-148*		*04/04/2025 04:13*	WG2482643

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	ND		0.00162	0.00600	1	04/05/2025 02:04	WG2482630
Anthracene	ND		0.00163	0.00600	1	04/05/2025 02:04	WG2482630
Benzo(a)anthracene	ND		0.00200	0.00600	1	04/05/2025 02:04	WG2482630
Benzo(b)fluoranthene	ND		0.00275	0.00600	1	04/05/2025 02:04	WG2482630
Benzo(k)fluoranthene	ND		0.00213	0.00600	1	04/05/2025 02:04	WG2482630
Benzo(a)pyrene	ND		0.00163	0.00600	1	04/05/2025 02:04	WG2482630
Chrysene	ND		0.00206	0.00600	1	04/05/2025 02:04	WG2482630
Dibenz(a,h)anthracene	ND		0.00201	0.00600	1	04/05/2025 02:04	WG2482630
Fluoranthene	ND		0.00239	0.00600	1	04/05/2025 02:04	WG2482630
Fluorene	0.00281	J	0.00180	0.00600	1	04/05/2025 02:04	WG2482630
Indeno(1,2,3-cd)pyrene	ND		0.00234	0.00600	1	04/05/2025 02:04	WG2482630
1-Methylnaphthalene	0.0134	J	0.00219	0.0200	1	04/05/2025 02:04	WG2482630
2-Methylnaphthalene	0.0289		0.00571	0.0200	1	04/05/2025 02:04	WG2482630
Naphthalene	ND		0.00579	0.0200	1	04/05/2025 02:04	WG2482630
Pyrene	ND		0.00205	0.00600	1	04/05/2025 02:04	WG2482630
(S) p-Terphenyl-d14	*98.7*			*23.0-120*		*04/05/2025 02:04*	WG2482630
(S) Nitrobenzene-d5	*90.9*			*14.0-149*		*04/05/2025 02:04*	WG2482630
(S) 2-Fluorobiphenyl	*95.0*			*34.0-125*		*04/05/2025 02:04*	WG2482630

Method Blank (MB)

(MB) R4194026-1 04/01/25 23:18

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

L1841542-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1841542-09 04/02/25 01:05 • (DUP) R4194026-3 04/02/25 01:14

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

L1841547-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1841547-03 04/02/25 01:50 • (DUP) R4194026-4 04/02/25 01:59

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

Laboratory Control Sample (LCS)

(LCS) R4194026-2 04/01/25 23:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	10.6	106	80.0-120	

L1841547-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1841547-09 04/02/25 03:11 • (MS) R4194026-5 04/02/25 03:20 • (MSD) R4194026-6 04/02/25 03:29

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	ND	3.97	11.9	19.9	59.3	1	75.0-125	J6	J3 J6	99.6	20

L1841547-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1841547-09 04/02/25 03:11 • (MS) R4194026-7 04/02/25 03:38

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	638	ND	26.1	4.09	50	75.0-125	J6

L1841046-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1841046-01 04/01/25 17:35 • (DUP) R4193908-2 04/01/25 17:35

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.42	8.40	1	0.238		1

Sample Narrative:

OS: 8.42 at 21.6C

DUP: 8.4 at 21.8C

L1841553-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1841553-03 04/01/25 17:35 • (DUP) R4193908-3 04/01/25 17:35

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.12	7.09	1	0.422		1

Sample Narrative:

OS: 7.12 at 21C

DUP: 7.09 at 21.3C

Laboratory Control Sample (LCS)

(LCS) R4193908-1 04/01/25 17:35

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.02 at 20C

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

L1841517-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1841517-01 04/04/25 08:14 • (DUP) R4195068-2 04/04/25 08:14

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.12	8.12	1	0.000		1

Sample Narrative:

OS: 8.12 at 22.9C

DUP: 8.12 at 22.5C

L1841553-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1841553-10 04/04/25 08:14 • (DUP) R4195068-3 04/04/25 08:14

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	6.85	6.85	1	0.000		1

Sample Narrative:

OS: 6.85 at 22.1C

DUP: 6.85 at 21.7C

Laboratory Control Sample (LCS)

(LCS) R4195068-1 04/04/25 08:14

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

Sample Narrative:

LCS: 9.98 at 20.3C

L1841517-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1841517-02 04/04/25 09:30 • (DUP) R4195095-2 04/04/25 09:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.28	8.25	1	0.363		1

Sample Narrative:

OS: 8.28 at 21.4C

DUP: 8.25 at 21.5C

L1841557-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1841557-01 04/04/25 09:30 • (DUP) R4195095-3 04/04/25 09:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.03	8.05	1	0.249		1

Sample Narrative:

OS: 8.03 at 21.3C

DUP: 8.05 at 21.1C

Laboratory Control Sample (LCS)

(LCS) R4195095-1 04/04/25 09:30

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.96	99.6	99.0-101	

Sample Narrative:

LCS: 9.96 at 20.6C

Method Blank (MB)

(MB) R4193966-1 04/01/25 22:20

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

Sample Narrative:
BLANK: at 25C

L1841046-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1841046-02 04/01/25 22:20 • (DUP) R4193966-3 04/01/25 22:20

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	239	239	1	0.209		20

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

L1841553-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1841553-01 04/01/25 22:20 • (DUP) R4193966-4 04/01/25 22:20

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	80.5	81.1	1	0.743		20

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

Laboratory Control Sample (LCS)

(LCS) R4193966-2 04/01/25 22:20

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	1130	1160	103	85.0-115	

Sample Narrative:
LCS: at 25C

Method Blank (MB)

(MB) R4195086-1 04/04/25 07:42

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

Sample Narrative:
BLANK: at 25C

L1841517-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1841517-03 04/04/25 07:42 • (DUP) R4195086-3 04/04/25 07:42

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	564	563	1	0.177		20

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

L1841553-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1841553-06 04/04/25 07:42 • (DUP) R4195086-4 04/04/25 07:42

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	56.8	52.9	1	7.11		20

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

Laboratory Control Sample (LCS)

(LCS) R4195086-2 04/04/25 07:42

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	1130	1140	101	85.0-115	

Sample Narrative:
LCS: at 25C

Method Blank (MB)

(MB) R4195123-1 04/04/25 10:12

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

Sample Narrative:
BLANK: at 25C

L1841539-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1841539-01 04/04/25 10:12 • (DUP) R4195123-3 04/04/25 10:12

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	461	461	1	0.000		20

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

L1841553-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1841553-11 04/04/25 10:12 • (DUP) R4195123-4 04/04/25 10:12

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	65.7	65.7	1	0.000		20

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

Laboratory Control Sample (LCS)

(LCS) R4195123-2 04/04/25 10:12

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	1130	1110	98.5	85.0-115	

Sample Narrative:
LCS: at 25C

Method Blank (MB)

(MB) R4194960-1 04/03/25 17:44

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

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

(LCS) R4194960-2 04/03/25 17:45 • (LCSD) R4194960-3 04/03/25 17:47

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	0.987	0.983	98.7	98.3	80.0-120			0.461	20

Method Blank (MB)

(MB) R4194949-1 04/03/25 16:19

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

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

(LCS) R4194949-2 04/03/25 16:20 • (LCSD) R4194949-3 04/03/25 16:22

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	1.02	101	102	80.0-120			0.578	20

Method Blank (MB)

(MB) R4194829-1 04/03/25 10:29

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

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

(LCS) R4194829-2 04/03/25 10:31 • (LCSD) R4194829-3 04/03/25 10:32

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	1.02	101	102	80.0-120			1.20	20

Method Blank (MB)

(MB) R4194493-1 04/02/25 21:51

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

Laboratory Control Sample (LCS)

(LCS) R4194493-2 04/02/25 21:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	97.2	97.2	80.0-120	
Barium	100	93.6	93.6	80.0-120	
Cadmium	100	102	102	80.0-120	
Copper	100	96.2	96.2	80.0-120	
Lead	100	94.5	94.5	80.0-120	
Nickel	100	99.9	99.9	80.0-120	
Selenium	100	96.5	96.5	80.0-120	
Silver	20.0	19.3	96.3	80.0-120	
Zinc	100	94.3	94.3	80.0-120	

L1841553-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1841553-03 04/02/25 21:58 • (MS) R4194493-5 04/02/25 22:08 • (MSD) R4194493-6 04/02/25 22:11

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	0.844	94.0	96.1	93.2	95.3	5	75.0-125			2.19	20
Barium	100	24.8	114	116	89.5	91.0	5	75.0-125			1.30	20
Cadmium	100	ND	97.4	100	97.4	100	5	75.0-125			3.02	20
Copper	100	1.85	95.7	99.4	93.9	97.6	5	75.0-125			3.77	20
Lead	100	2.54	92.9	94.9	90.3	92.4	5	75.0-125			2.17	20
Nickel	100	2.22	97.1	99.3	94.9	97.1	5	75.0-125			2.23	20
Selenium	100	0.291	94.4	94.1	94.1	93.8	5	75.0-125			0.277	20
Silver	20.0	ND	18.3	19.0	91.7	95.0	5	75.0-125			3.55	20
Zinc	100	6.61	98.1	102	91.5	95.1	5	75.0-125			3.63	20

Method Blank (MB)

(MB) R4194596-1 04/03/25 01:35

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

Laboratory Control Sample (LCS)

(LCS) R4194596-2 04/03/25 01:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	98.5	98.5	80.0-120	
Barium	100	95.3	95.3	80.0-120	
Cadmium	100	106	106	80.0-120	
Copper	100	102	102	80.0-120	
Lead	100	97.1	97.1	80.0-120	
Nickel	100	102	102	80.0-120	
Selenium	100	97.7	97.7	80.0-120	
Silver	20.0	19.7	98.4	80.0-120	
Zinc	100	97.7	97.7	80.0-120	

L1841542-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1841542-08 04/03/25 01:42 • (MS) R4194596-5 04/03/25 01:52 • (MSD) R4194596-6 04/03/25 01:55

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	4.72	90.1	92.2	85.3	87.5	5	75.0-125			2.34	20
Barium	100	130	219	236	89.7	106	5	75.0-125			7.20	20
Cadmium	100	0.196	90.3	95.2	90.1	95.0	5	75.0-125			5.33	20
Copper	100	11.8	93.3	98.9	81.5	87.1	5	75.0-125			5.87	20
Lead	100	11.1	95.1	100	84.0	89.2	5	75.0-125			5.38	20
Nickel	100	13.0	98.2	103	85.3	90.0	5	75.0-125			4.66	20
Selenium	100	0.506	84.9	88.5	84.4	88.0	5	75.0-125			4.10	20
Silver	20.0	ND	16.7	17.4	83.6	86.8	5	75.0-125			3.86	20
Zinc	100	45.3	128	135	82.6	89.3	5	75.0-125			5.09	20

Method Blank (MB)

(MB) R4196264-3 04/07/25 10:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	ND		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*98.6*			*77.0-120*

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

(LCS) R4196264-1 04/07/25 09:42 • (LCSD) R4196264-2 04/07/25 10:05

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 %
TPH (GC/FID) Low Fraction	5.00	5.86	5.09	117	102	72.0-127			14.1	20
(S) a,a,a-Trifluorotoluene(FID)				*115*	*111*	*77.0-120*				

Method Blank (MB)

(MB) R4196268-3 04/07/25 10:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	ND		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*98.6*			*77.0-120*

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

(LCS) R4196268-1 04/07/25 09:42 • (LCSD) R4196268-2 04/07/25 10:05

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 %
TPH (GC/FID) Low Fraction	5.00	5.86	5.09	117	102	72.0-127			14.1	20
(S) a,a,a-Trifluorotoluene(FID)				*115*	*111*	*77.0-120*				

Method Blank (MB)

(MB) R4196292-3 04/07/25 14:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0312	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-120*

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

(LCS) R4196292-1 04/07/25 13:12 • (LCSD) R4196292-2 04/07/25 13:35

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 %
TPH (GC/FID) Low Fraction	5.00	4.83	4.96	96.6	99.2	72.0-127			2.66	20
(S) a,a,a-Trifluorotoluene(FID)				*112*	*112*	*77.0-120*				

Method Blank (MB)

(MB) R4194911-3 04/02/25 11:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	ND		0.000467	0.00100
Toluene	ND		0.00130	0.00500
Ethylbenzene	ND		0.000737	0.00250
Xylenes, Total	ND		0.000880	0.00650
1,2,4-Trimethylbenzene	ND		0.00158	0.00500
1,3,5-Trimethylbenzene	ND		0.00200	0.00500
(S) Toluene-d8	*96.8*			*75.0-131*
(S) 4-Bromofluorobenzene	*107*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*

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

(LCS) R4194911-1 04/02/25 09:35 • (LCSD) R4194911-2 04/02/25 09:54

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	0.125	0.127	100	102	70.0-123			1.59	20
Toluene	0.125	0.121	0.123	96.8	98.4	75.0-121			1.64	20
Ethylbenzene	0.125	0.117	0.124	93.6	99.2	74.0-126			5.81	20
Xylenes, Total	0.375	0.360	0.368	96.0	98.1	72.0-127			2.20	20
1,2,4-Trimethylbenzene	0.125	0.122	0.123	97.6	98.4	70.0-126			0.816	20
1,3,5-Trimethylbenzene	0.125	0.117	0.122	93.6	97.6	73.0-127			4.18	20
(S) Toluene-d8				*99.6*	*97.8*	*75.0-131*				
(S) 4-Bromofluorobenzene				*103*	*100*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*97.9*	*96.0*	*70.0-130*				

Method Blank (MB)

(MB) R4195822-3 04/02/25 11:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	ND		0.000467	0.00100
Toluene	ND		0.00130	0.00500
Ethylbenzene	ND		0.000737	0.00250
Xylenes, Total	ND		0.000880	0.00650
1,2,4-Trimethylbenzene	ND		0.00158	0.00500
1,3,5-Trimethylbenzene	ND		0.00200	0.00500
(S) Toluene-d8	*99.2*			*75.0-131*
(S) 4-Bromofluorobenzene	*99.9*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*

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

(LCS) R4195822-1 04/02/25 09:43 • (LCSD) R4195822-2 04/02/25 10:03

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	0.131	0.123	105	98.4	70.0-123			6.30	20
Toluene	0.125	0.133	0.124	106	99.2	75.0-121			7.00	20
Ethylbenzene	0.125	0.132	0.122	106	97.6	74.0-126			7.87	20
Xylenes, Total	0.375	0.393	0.370	105	98.7	72.0-127			6.03	20
1,2,4-Trimethylbenzene	0.125	0.129	0.119	103	95.2	70.0-126			8.06	20
1,3,5-Trimethylbenzene	0.125	0.116	0.109	92.8	87.2	73.0-127			6.22	20
(S) Toluene-d8				*95.5*	*95.4*	*75.0-131*				
(S) 4-Bromofluorobenzene				*98.9*	*100*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*109*	*105*	*70.0-130*				

Method Blank (MB)

(MB) R4195138-1 04/04/25 00:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	ND		1.61	4.00
C28-C36 Motor Oil Range	ND		0.274	4.00
(S) o-Terphenyl	*70.4*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R4195138-2 04/04/25 00:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	36.5	73.0	50.0-150	
(S) o-Terphenyl			*69.4*	*18.0-148*	

L1840800-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1840800-01 04/04/25 05:58 • (MS) R4195138-3 04/04/25 06:11 • (MSD) R4195138-4 04/04/25 06:24

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	49.8	12.1	42.8	44.0	61.6	64.1	1	50.0-150			2.76	20
(S) o-Terphenyl					*62.8*	*63.0*		*18.0-148*				

Method Blank (MB)

(MB) R4196038-2 04/04/25 20:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	ND		0.00162	0.00600
Anthracene	ND		0.00163	0.00600
Benzo(a)anthracene	ND		0.00200	0.00600
Benzo(b)fluoranthene	ND		0.00275	0.00600
Benzo(k)fluoranthene	ND		0.00213	0.00600
Benzo(a)pyrene	ND		0.00163	0.00600
Chrysene	ND		0.00206	0.00600
Dibenz(a,h)anthracene	ND		0.00201	0.00600
Fluoranthene	ND		0.00239	0.00600
Fluorene	ND		0.00180	0.00600
Indeno(1,2,3-cd)pyrene	ND		0.00234	0.00600
1-Methylnaphthalene	ND		0.00219	0.0200
2-Methylnaphthalene	ND		0.00571	0.0200
Naphthalene	ND		0.00579	0.0200
Pyrene	ND		0.00205	0.00600
(S) p-Terphenyl-d14	*108*			*23.0-120*
(S) Nitrobenzene-d5	*89.0*			*14.0-149*
(S) 2-Fluorobiphenyl	*99.3*			*34.0-125*

Laboratory Control Sample (LCS)

(LCS) R4196038-1 04/04/25 19:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0800	0.0767	95.9	50.0-120	
Anthracene	0.0800	0.0821	103	50.0-126	
Benzo(a)anthracene	0.0800	0.0807	101	45.0-120	
Benzo(b)fluoranthene	0.0800	0.0935	117	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0897	112	49.0-125	
Benzo(a)pyrene	0.0800	0.0714	89.3	42.0-120	
Chrysene	0.0800	0.0892	112	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0964	121	47.0-125	
Fluoranthene	0.0800	0.0926	116	49.0-129	
Fluorene	0.0800	0.0835	104	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0890	111	46.0-125	
1-Methylnaphthalene	0.0800	0.0842	105	51.0-121	
2-Methylnaphthalene	0.0800	0.0827	103	50.0-120	
Naphthalene	0.0800	0.0800	100	50.0-120	
Pyrene	0.0800	0.0922	115	43.0-123	

Laboratory Control Sample (LCS)

(LCS) R4196038-1 04/04/25 19:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) p-Terphenyl-d14			*112*	*23.0-120*	
(S) Nitrobenzene-d5			*86.5*	*14.0-149*	
(S) 2-Fluorobiphenyl			*98.1*	*34.0-125*	

L1841542-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1841542-09 04/05/25 00:54 • (MS) R4196038-3 04/05/25 01:11 • (MSD) R4196038-4 04/05/25 01:29

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	0.0780	ND	0.0668	0.0649	85.6	82.4	1	14.0-127			2.89	27
Anthracene	0.0780	0.00308	0.0688	0.0695	84.3	84.3	1	10.0-145			1.01	30
Benzo(a)anthracene	0.0780	ND	0.0699	0.0694	89.6	88.1	1	10.0-139			0.718	30
Benzo(b)fluoranthene	0.0780	ND	0.0737	0.0700	94.5	88.8	1	10.0-140			5.15	36
Benzo(k)fluoranthene	0.0780	ND	0.0711	0.0703	91.2	89.2	1	10.0-137			1.13	31
Benzo(a)pyrene	0.0780	ND	0.0704	0.0696	90.3	88.3	1	10.0-141			1.14	31
Chrysene	0.0780	ND	0.0786	0.0744	101	94.4	1	10.0-145			5.49	30
Dibenz(a,h)anthracene	0.0780	ND	0.0746	0.0723	95.6	91.8	1	10.0-132			3.13	31
Fluoranthene	0.0780	ND	0.0748	0.0758	95.9	96.2	1	10.0-153			1.33	33
Fluorene	0.0780	0.00446	0.0833	0.0707	101	84.1	1	11.0-130			16.4	29
Indeno(1,2,3-cd)pyrene	0.0780	ND	0.0712	0.0722	91.3	91.6	1	10.0-137			1.39	32
1-Methylnaphthalene	0.0780	0.0140	0.111	0.0741	124	76.3	1	10.0-142		J3	39.9	28
2-Methylnaphthalene	0.0780	0.0206	0.132	0.0739	143	67.6	1	10.0-137	J5	J3	56.4	28
Naphthalene	0.0780	ND	0.0815	0.0693	104	87.9	1	10.0-135			16.2	27
Pyrene	0.0780	0.00322	0.0750	0.0725	92.0	87.9	1	10.0-148			3.39	35
(S) p-Terphenyl-d14					*80.6*	*81.9*		*23.0-120*				
(S) Nitrobenzene-d5					*121*	*81.6*		*14.0-149*				
(S) 2-Fluorobiphenyl					*81.3*	*83.3*		*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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

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

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

Company Name/Address:
Civitas/Tasman - CO
6855 W. 118th Ave
Broomfield, CO 80020

Billing Information:
Accounts Payable
650 Southgate Dr.
Windsor, CO 80550

Pres Chk

Project Manager:
Sam Vogt / Jacob Evans

Email: **svogt@tasman-geo.com; jevans@civitasresources.com**

Project Name: Alcorn 6INCOW 10NWNE

Please Circle: PT (MT) CT ET

Phone: **610-405-9078**

Lab Project #:

AFE# or C/C: 23735, 240023 ~~MS24508~~

Collected by (print): Max Sherwin

Site/Facility ID #:

Billing Code #: 8523.196

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___Same Day ___Five Day
___Next Day ___5 Day (Rad Only)
___Two Day ___10 Day (Rad Only)
___Three Day

Quote #

Date Results Needed: STD

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	# of Containers	Full TABLE915 8ozClr-NoPres	Background TABLE915 8ozClr-NoPres	V8260 (GW TABLE915) 40mL Amb-HCl	Chloride, Sulfate 125mL HDPE-NoPres	TDS 1L-HDPE-NoPres	Remarks	Sample # (lab only)
AST-B01@3'	Grab	SS	3'	3/28/2025	950	2	X						-01
PWV-B01@4'			4'		1000								-02
PWV-N01@3'			3'		1005								-03
SEP-B01@5'			5'		1025								-04
SEP-B02@5'			5'		1030								-05
SP-CS01	Comp		—		1035								-06
DL-B01@4'	Grab		4'		1040								-07
DL-B03@4'			4'		1050								-08
EL-B01@4'			4'		1055								-09
EL-B02@4'			4'		1105								-10

Chain of Custody Page 1 of 2

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 # L1841542
F203

Acctnum: **CIVTASBCO**
Template: **T250702**
Prelogin: **P1068185**
PM: **824 - Chris Ward**
PB:
Shipped Via: **FedEX Ground**

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

Remarks:
pH, EC, SAR by saturated paste preparation method
Boron by hot water soluble preparation method
Table 915-1 Metals - As, Ba, Cd, Cu, Pb, Ni, Se, Ag, Zn, Cr VI

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)
	3/28/2025	1515	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	3/28/25	1800	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			CRODELO

Trip Blank Received: Yes (No)
HCL / MeoH
TBR

Temp: °C Bottles Received: 22

Date: 03.29.25 Time: 0800

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

PNDO

Company Name/Address:
Civitas/Tasman - CO
6855 W. 118th Ave
Broomfield, CO 80020

Billing Information:
Accounts Payable
650 Southgate Dr.
Windsor, CO 80550

Pres Chk

Project Manager:
Sam Vogt / Jacob Evans

Email: **svogt@tasman-geo.com; jevans@civitasresources.com**

Project Name: Alcorn COINC09W IONIWNE

Please Circle: PT (MT) CT ET

Phone: **610-405-9078**

Lab Project #:

AFE# or C/C: 23735, 24~~00~~23 MS ~~35408~~

Collected by (print): Max Sherwin

Site/Facility ID #:

Billing Code #: 8523.196

Collected by (signature):

Immediately Packed on Ice N___ Y✓

Rush? (Lab MUST Be Notified)
___Same Day ___Five Day
___Next Day ___5 Day (Rad Only)
___Two Day ___10 Day (Rad Only)
___Three Day

Quote #

Date Results Needed: STD

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	# of Containers	Full TABLE915 8ozClr-NoPres	Background TABLE915 8ozClr-NoPres	V8260 (GW TABLE915) 40mL Amb-HCl	Chloride, Sulfate 125mL HDPE-NoPres	TDS 1L-HDPE-NoPres	Remarks	Sample # (lab only)
SP-CS02	Comp	SS	-	3/28/2025	1110	2	X						-11

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

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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 # L841542

Table #

Acctnum: **CIVTASBCO**
Template: **T250702**
Prelogin: **P1068185**
PM: **824 - Chris Ward**
PB:

Shipped Via: **FedEX Ground**

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

Remarks:
pH, EC, SAR by saturated paste preparation method
Boron by hot water soluble preparation method
Table 915-1 Metals - As, Ba, Cd, Cu, Pb, Ni, Se, Ag, Zn, Cr VI

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	
	3/28/2025	1515			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 22	If preservation required by Login: Date/Time
	3/28/25	1800			
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: / Condition: NCF / (OK)
				03.29.25 0900	

PMDO

Multiple Parcel Form

L# LR841542

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
SWA	TLA9	1.3	0.4	1.7	(Yes) / No / Not Present
SWA	TLA9	1.5	0.4	1.9	(Yes) / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

CRobero
Name

03.29.25
Date