ANALYTICAL REPORT

May 07, 2025

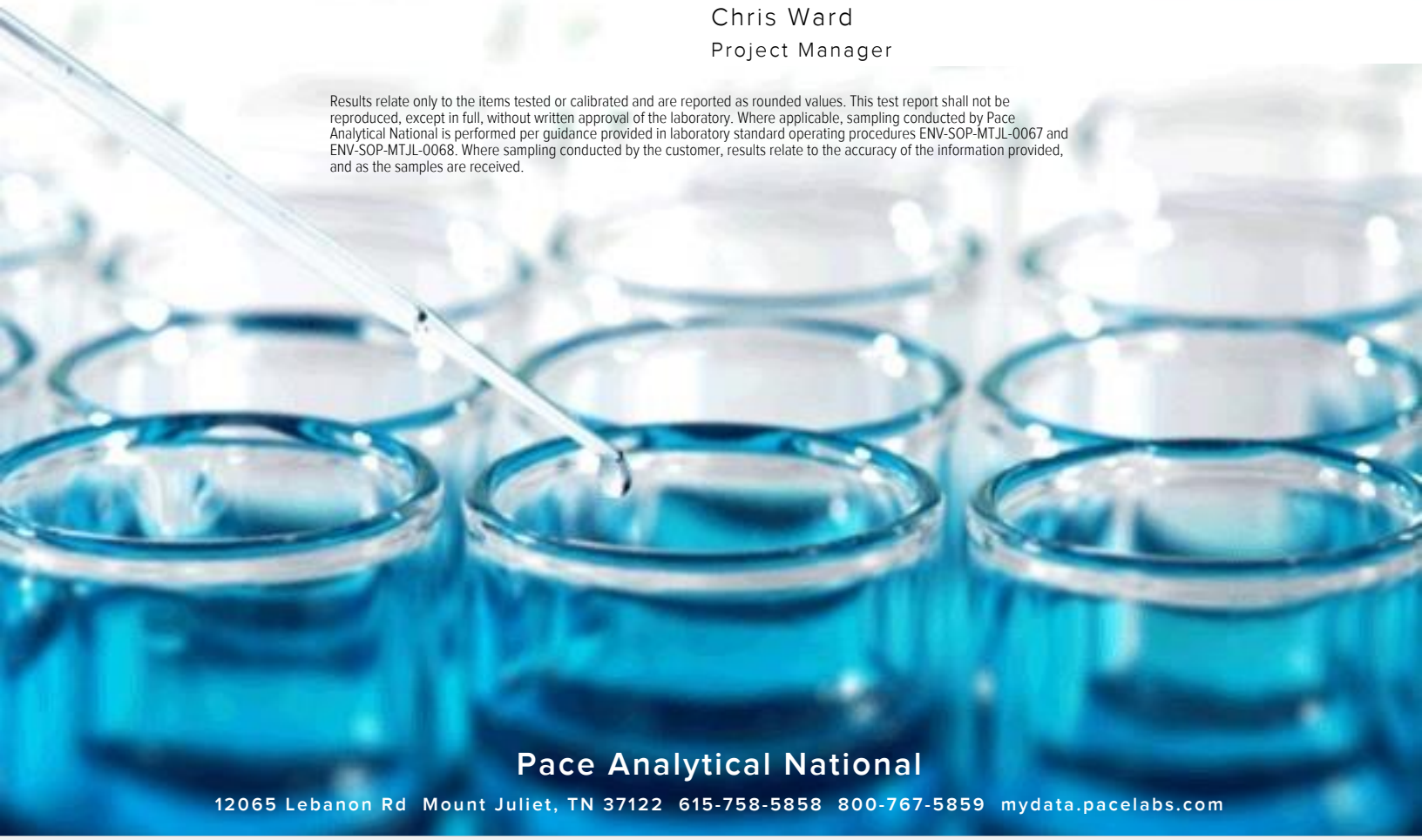
Scout Energy - Rangely, CO

Sample Delivery Group:	L1852369
Samples Received:	04/26/2025
Project Number:	
Description:	AC McLaughlin 14 Lateral Line Spill

Report To: Cody Christian
100 Chevron Road
Rangely, CO 81648

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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ACM14-SS3 L1852369-01 Solid

Collected by: BA | Collected date/time: 04/24/25 12:55 | Received date/time: 04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2504997	1	05/05/25 08:31	05/05/25 08:31	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2504521	1	05/02/25 08:58	05/04/25 18:52	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2507392	1	05/05/25 17:05	05/06/25 07:20	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2507398	1	05/05/25 17:06	05/06/25 11:25	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505046	1	05/03/25 16:23	05/04/25 09:58	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2504626	5	05/02/25 07:36	05/02/25 18:37	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2503669	1	04/30/25 08:36	04/30/25 14:22	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2503908	1	04/30/25 08:36	05/01/25 02:02	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2504887	5	05/02/25 06:19	05/02/25 15:57	KDB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2504880	1	05/02/25 10:13	05/02/25 23:29	VDR	Mt. Juliet, TN

ACM14-SS5 L1852369-02 Solid

Collected by: BA | Collected date/time: 04/24/25 13:05 | Received date/time: 04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2504997	1	05/05/25 08:32	05/05/25 08:32	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2504521	1	05/02/25 08:58	05/04/25 19:02	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2507392	1	05/05/25 17:05	05/06/25 07:20	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2507398	1	05/05/25 17:06	05/06/25 11:25	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505046	1	05/03/25 16:23	05/04/25 09:59	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2504626	5	05/02/25 07:36	05/02/25 18:41	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2503669	1	04/30/25 08:36	04/30/25 14:46	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2503908	1	04/30/25 08:36	05/01/25 02:23	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2504887	50	05/02/25 06:19	05/02/25 15:31	KDB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2504880	1	05/02/25 10:13	05/03/25 04:09	VDR	Mt. Juliet, TN

ACM14-SS6 L1852369-03 Solid

Collected by: BA | Collected date/time: 04/24/25 13:15 | Received date/time: 04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2504997	1	05/05/25 08:34	05/05/25 08:34	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2504521	1	05/02/25 08:58	05/04/25 19:55	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2507392	1	05/05/25 17:05	05/06/25 07:20	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2507398	1	05/05/25 17:06	05/06/25 11:25	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505046	1	05/03/25 16:23	05/04/25 10:01	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2504626	5	05/02/25 07:36	05/02/25 18:44	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2503669	1	04/30/25 08:36	04/30/25 15:09	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2503908	1	04/30/25 08:36	05/01/25 02:43	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2504887	10	05/02/25 06:19	05/02/25 17:55	KDB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2504880	1	05/02/25 10:13	05/03/25 03:34	VDR	Mt. Juliet, TN

ACM14-SS9 L1852369-04 Solid

Collected by: BA | Collected date/time: 04/24/25 13:25 | Received date/time: 04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2504997	1	05/05/25 08:36	05/05/25 08:36	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2504521	1	05/02/25 08:58	05/04/25 20:05	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2507392	1	05/05/25 17:05	05/06/25 07:20	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2507398	1	05/05/25 17:06	05/06/25 11:25	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505046	1	05/03/25 16:23	05/04/25 10:03	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2504626	5	05/02/25 07:36	05/02/25 18:47	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2503669	1	04/30/25 08:36	04/30/25 15:33	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2503908	1	04/30/25 08:36	05/01/25 03:04	ADM	Mt. Juliet, TN

ACM14-SS9 L1852369-04 Solid

Collected by: BA | Collected date/time: 04/24/25 13:25 | Received date/time: 04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2504887	10	05/02/25 06:19	05/02/25 18:08	KDB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2504880	1	05/02/25 10:13	05/03/25 03:52	VDR	Mt. Juliet, TN

ACM14-SS10 L1852369-05 Solid

Collected by: BA | Collected date/time: 04/24/25 13:35 | Received date/time: 04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2504997	1	05/05/25 08:37	05/05/25 08:37	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2504521	1	05/02/25 08:58	05/04/25 20:37	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2507392	1	05/05/25 17:05	05/06/25 07:20	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2507398	1	05/05/25 17:06	05/06/25 11:25	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505046	1	05/03/25 16:23	05/04/25 10:04	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2504626	5	05/02/25 07:36	05/02/25 18:50	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2503669	1	04/30/25 08:36	04/30/25 15:56	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2503908	1	04/30/25 08:36	05/01/25 03:25	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2504887	10	05/02/25 06:19	05/02/25 15:44	KDB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2504880	1	05/02/25 10:13	05/03/25 03:17	VDR	Mt. Juliet, TN

ACM14-SS11 L1852369-06 Solid

Collected by: BA | Collected date/time: 04/24/25 13:45 | Received date/time: 04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2504997	1	05/05/25 08:39	05/05/25 08:39	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2504521	1	05/02/25 08:58	05/04/25 20:47	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2507392	1	05/05/25 17:05	05/06/25 07:20	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2507398	1	05/05/25 17:06	05/06/25 11:25	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505046	1	05/03/25 16:23	05/04/25 10:09	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2504626	5	05/02/25 07:36	05/02/25 18:53	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2503669	1	04/30/25 08:36	04/30/25 16:20	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2503908	1	04/30/25 08:36	05/01/25 03:45	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2504887	1	05/02/25 06:19	05/02/25 12:40	KDB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2508081	1	05/06/25 17:11	05/07/25 12:38	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	19.3		1	05/05/2025 08:31	WG2504997

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/04/2025 18:52	WG2504521

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.86	T8	1	05/06/2025 07:20	WG2507392

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	3480	umhos/cm		10.0	1	05/06/2025 11:25	WG2507398

Sample Narrative:

L1852369-01 WG2507398: at 25C

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	1.38		0.0167	0.200	1	05/04/2025 09:58	WG2505046

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.21		0.100	1.00	5	05/02/2025 18:37	WG2504626
Barium	197		0.152	2.50	5	05/02/2025 18:37	WG2504626
Cadmium	0.253	J	0.0855	1.00	5	05/02/2025 18:37	WG2504626
Copper	11.2		0.132	5.00	5	05/02/2025 18:37	WG2504626
Lead	19.0		0.0990	2.00	5	05/02/2025 18:37	WG2504626
Nickel	13.1		0.197	2.50	5	05/02/2025 18:37	WG2504626
Selenium	0.799	J	0.180	2.50	5	05/02/2025 18:37	WG2504626
Silver	U		0.0865	0.500	5	05/02/2025 18:37	WG2504626
Zinc	59.9	B	0.740	25.0	5	05/02/2025 18:37	WG2504626

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	0.114		0.0217	0.100	1	04/30/2025 14:22	WG2503669
(S) a,a,a-Trifluorotoluene(FID)	*94.6*			*77.0-120*		*04/30/2025 14:22*	WG2503669

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	05/01/2025 02:02	WG2503908
Toluene	U		0.00130	0.00500	1	05/01/2025 02:02	WG2503908
Ethylbenzene	U		0.000737	0.00250	1	05/01/2025 02:02	WG2503908
Xylenes, Total	U		0.000880	0.00650	1	05/01/2025 02:02	WG2503908
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	05/01/2025 02:02	WG2503908

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	05/01/2025 02:02	WG2503908
(S) Toluene-d8	*112*			*75.0-131*		*05/01/2025 02:02*	WG2503908
(S) 4-Bromofluorobenzene	*79.4*			*67.0-138*		*05/01/2025 02:02*	WG2503908
(S) 1,2-Dichloroethane-d4	*76.9*			*70.0-130*		*05/01/2025 02:02*	WG2503908

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	49.6		8.05	20.0	5	05/02/2025 15:57	WG2504887
C28-C36 Motor Oil Range	109		1.37	20.0	5	05/02/2025 15:57	WG2504887
(S) o-Terphenyl	*52.9*			*18.0-148*		*05/02/2025 15:57*	WG2504887

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00162	0.00600	1	05/02/2025 23:29	WG2504880
Anthracene	U		0.00163	0.00600	1	05/02/2025 23:29	WG2504880
Benzo(a)anthracene	U		0.00200	0.00600	1	05/02/2025 23:29	WG2504880
Benzo(b)fluoranthene	U		0.00275	0.00600	1	05/02/2025 23:29	WG2504880
Benzo(k)fluoranthene	U		0.00213	0.00600	1	05/02/2025 23:29	WG2504880
Benzo(a)pyrene	U		0.00163	0.00600	1	05/02/2025 23:29	WG2504880
Chrysene	U		0.00206	0.00600	1	05/02/2025 23:29	WG2504880
Dibenz(a,h)anthracene	U		0.00201	0.00600	1	05/02/2025 23:29	WG2504880
Fluoranthene	U		0.00239	0.00600	1	05/02/2025 23:29	WG2504880
Fluorene	U		0.00180	0.00600	1	05/02/2025 23:29	WG2504880
Indeno(1,2,3-cd)pyrene	U		0.00234	0.00600	1	05/02/2025 23:29	WG2504880
1-Methylnaphthalene	U		0.00219	0.0200	1	05/02/2025 23:29	WG2504880
2-Methylnaphthalene	U		0.00571	0.0200	1	05/02/2025 23:29	WG2504880
Naphthalene	U		0.00579	0.0200	1	05/02/2025 23:29	WG2504880
Pyrene	U		0.00205	0.00600	1	05/02/2025 23:29	WG2504880
(S) p-Terphenyl-d14	*62.1*			*23.0-120*		*05/02/2025 23:29*	WG2504880
(S) Nitrobenzene-d5	*65.5*			*14.0-149*		*05/02/2025 23:29*	WG2504880
(S) 2-Fluorobiphenyl	*69.4*			*34.0-125*		*05/02/2025 23:29*	WG2504880

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.00		1	05/05/2025 08:32	WG2504997

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U	J6	0.379	1.00	1	05/04/2025 19:02	WG2504521

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.94	T8	1	05/06/2025 07:20	WG2507392

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	519	umhos/cm		10.0	1	05/06/2025 11:25	WG2507398

Sample Narrative:

L1852369-02 WG2507398: 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	0.925		0.0167	0.200	1	05/04/2025 09:59	WG2505046

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.28		0.100	1.00	5	05/02/2025 18:41	WG2504626
Barium	182		0.152	2.50	5	05/02/2025 18:41	WG2504626
Cadmium	0.238	J	0.0855	1.00	5	05/02/2025 18:41	WG2504626
Copper	11.5		0.132	5.00	5	05/02/2025 18:41	WG2504626
Lead	16.1		0.0990	2.00	5	05/02/2025 18:41	WG2504626
Nickel	14.9		0.197	2.50	5	05/02/2025 18:41	WG2504626
Selenium	0.914	J	0.180	2.50	5	05/02/2025 18:41	WG2504626
Silver	U		0.0865	0.500	5	05/02/2025 18:41	WG2504626
Zinc	81.8	B	0.740	25.0	5	05/02/2025 18:41	WG2504626

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	0.0919	J	0.0217	0.100	1	04/30/2025 14:46	WG2503669
(S) a,a,a-Trifluorotoluene(FID)	*92.1*			*77.0-120*		*04/30/2025 14:46*	WG2503669

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	05/01/2025 02:23	WG2503908
Toluene	U		0.00130	0.00500	1	05/01/2025 02:23	WG2503908
Ethylbenzene	U		0.000737	0.00250	1	05/01/2025 02:23	WG2503908
Xylenes, Total	U		0.000880	0.00650	1	05/01/2025 02:23	WG2503908
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	05/01/2025 02:23	WG2503908

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	05/01/2025 02:23	WG2503908
(S) Toluene-d8	*105*			*75.0-131*		*05/01/2025 02:23*	WG2503908
(S) 4-Bromofluorobenzene	*99.5*			*67.0-138*		*05/01/2025 02:23*	WG2503908
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*05/01/2025 02:23*	WG2503908

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	188	J	80.5	200	50	05/02/2025 15:31	WG2504887
C28-C36 Motor Oil Range	745		13.7	200	50	05/02/2025 15:31	WG2504887
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*05/02/2025 15:31*	WG2504887

Sample Narrative:

L1852369-02 WG2504887: Cannot run at lower dilution due to viscosity of extract

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00162	0.00600	1	05/03/2025 04:09	WG2504880
Anthracene	U		0.00163	0.00600	1	05/03/2025 04:09	WG2504880
Benzo(a)anthracene	U		0.00200	0.00600	1	05/03/2025 04:09	WG2504880
Benzo(b)fluoranthene	U		0.00275	0.00600	1	05/03/2025 04:09	WG2504880
Benzo(k)fluoranthene	U		0.00213	0.00600	1	05/03/2025 04:09	WG2504880
Benzo(a)pyrene	U		0.00163	0.00600	1	05/03/2025 04:09	WG2504880
Chrysene	0.0102	B	0.00206	0.00600	1	05/03/2025 04:09	WG2504880
Dibenz(a,h)anthracene	U		0.00201	0.00600	1	05/03/2025 04:09	WG2504880
Fluoranthene	U		0.00239	0.00600	1	05/03/2025 04:09	WG2504880
Fluorene	U		0.00180	0.00600	1	05/03/2025 04:09	WG2504880
Indeno(1,2,3-cd)pyrene	U		0.00234	0.00600	1	05/03/2025 04:09	WG2504880
1-Methylnaphthalene	U		0.00219	0.0200	1	05/03/2025 04:09	WG2504880
2-Methylnaphthalene	U		0.00571	0.0200	1	05/03/2025 04:09	WG2504880
Naphthalene	U		0.00579	0.0200	1	05/03/2025 04:09	WG2504880
Pyrene	U		0.00205	0.00600	1	05/03/2025 04:09	WG2504880
(S) p-Terphenyl-d14	*72.5*			*23.0-120*		*05/03/2025 04:09*	WG2504880
(S) Nitrobenzene-d5	*82.0*			*14.0-149*		*05/03/2025 04:09*	WG2504880
(S) 2-Fluorobiphenyl	*77.6*			*34.0-125*		*05/03/2025 04:09*	WG2504880

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	20.7		1	05/05/2025 08:34	WG2504997

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/04/2025 19:55	WG2504521

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.02	T8	1	05/06/2025 07:20	WG2507392

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	2480	umhos/cm		10.0	1	05/06/2025 11:25	WG2507398

Sample Narrative:

L1852369-03 WG2507398: at 25C

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	1.08		0.0167	0.200	1	05/04/2025 10:01	WG2505046

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.70		0.100	1.00	5	05/02/2025 18:44	WG2504626
Barium	151		0.152	2.50	5	05/02/2025 18:44	WG2504626
Cadmium	0.188	J	0.0855	1.00	5	05/02/2025 18:44	WG2504626
Copper	10.8		0.132	5.00	5	05/02/2025 18:44	WG2504626
Lead	14.5		0.0990	2.00	5	05/02/2025 18:44	WG2504626
Nickel	14.1		0.197	2.50	5	05/02/2025 18:44	WG2504626
Selenium	0.621	J	0.180	2.50	5	05/02/2025 18:44	WG2504626
Silver	U		0.0865	0.500	5	05/02/2025 18:44	WG2504626
Zinc	64.5	B	0.740	25.0	5	05/02/2025 18:44	WG2504626

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	0.123		0.0217	0.100	1	04/30/2025 15:09	WG2503669
(S) a,a,a-Trifluorotoluene(FID)	*95.3*			*77.0-120*		*04/30/2025 15:09*	WG2503669

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	05/01/2025 02:43	WG2503908
Toluene	U		0.00130	0.00500	1	05/01/2025 02:43	WG2503908
Ethylbenzene	U		0.000737	0.00250	1	05/01/2025 02:43	WG2503908
Xylenes, Total	U		0.000880	0.00650	1	05/01/2025 02:43	WG2503908
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	05/01/2025 02:43	WG2503908

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	05/01/2025 02:43	WG2503908
(S) Toluene-d8	*102*			*75.0-131*		*05/01/2025 02:43*	WG2503908
(S) 4-Bromofluorobenzene	*78.1*			*67.0-138*		*05/01/2025 02:43*	WG2503908
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*05/01/2025 02:43*	WG2503908

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	39.3	J	16.1	40.0	10	05/02/2025 17:55	WG2504887
C28-C36 Motor Oil Range	135		2.74	40.0	10	05/02/2025 17:55	WG2504887
(S) o-Terphenyl	*47.5*			*18.0-148*		*05/02/2025 17:55*	WG2504887

Sample Narrative:

L1852369-03 WG2504887: Dilution due to matrix impact during extraction procedure

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00162	0.00600	1	05/03/2025 03:34	WG2504880
Anthracene	U		0.00163	0.00600	1	05/03/2025 03:34	WG2504880
Benzo(a)anthracene	U		0.00200	0.00600	1	05/03/2025 03:34	WG2504880
Benzo(b)fluoranthene	U		0.00275	0.00600	1	05/03/2025 03:34	WG2504880
Benzo(k)fluoranthene	U		0.00213	0.00600	1	05/03/2025 03:34	WG2504880
Benzo(a)pyrene	U		0.00163	0.00600	1	05/03/2025 03:34	WG2504880
Chrysene	U		0.00206	0.00600	1	05/03/2025 03:34	WG2504880
Dibenz(a,h)anthracene	U		0.00201	0.00600	1	05/03/2025 03:34	WG2504880
Fluoranthene	U		0.00239	0.00600	1	05/03/2025 03:34	WG2504880
Fluorene	U		0.00180	0.00600	1	05/03/2025 03:34	WG2504880
Indeno(1,2,3-cd)pyrene	U		0.00234	0.00600	1	05/03/2025 03:34	WG2504880
1-Methylnaphthalene	U		0.00219	0.0200	1	05/03/2025 03:34	WG2504880
2-Methylnaphthalene	U		0.00571	0.0200	1	05/03/2025 03:34	WG2504880
Naphthalene	U		0.00579	0.0200	1	05/03/2025 03:34	WG2504880
Pyrene	U		0.00205	0.00600	1	05/03/2025 03:34	WG2504880
(S) p-Terphenyl-d14	*70.2*			*23.0-120*		*05/03/2025 03:34*	WG2504880
(S) Nitrobenzene-d5	*78.0*			*14.0-149*		*05/03/2025 03:34*	WG2504880
(S) 2-Fluorobiphenyl	*78.8*			*34.0-125*		*05/03/2025 03:34*	WG2504880

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	19.1		1	05/05/2025 08:36	WG2504997

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/04/2025 20:05	WG2504521

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.62	T8	1	05/06/2025 07:20	WG2507392

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	4660	umhos/cm		10.0	1	05/06/2025 11:25	WG2507398

Sample Narrative:

L1852369-04 WG2507398: at 25C

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	1.77		0.0167	0.200	1	05/04/2025 10:03	WG2505046

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.07		0.100	1.00	5	05/02/2025 18:47	WG2504626
Barium	126		0.152	2.50	5	05/02/2025 18:47	WG2504626
Cadmium	0.171	J	0.0855	1.00	5	05/02/2025 18:47	WG2504626
Copper	10.8		0.132	5.00	5	05/02/2025 18:47	WG2504626
Lead	15.1		0.0990	2.00	5	05/02/2025 18:47	WG2504626
Nickel	13.9		0.197	2.50	5	05/02/2025 18:47	WG2504626
Selenium	0.730	J	0.180	2.50	5	05/02/2025 18:47	WG2504626
Silver	U		0.0865	0.500	5	05/02/2025 18:47	WG2504626
Zinc	59.7	B	0.740	25.0	5	05/02/2025 18:47	WG2504626

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	0.190		0.0217	0.100	1	04/30/2025 15:33	WG2503669
(S) a,a,a-Trifluorotoluene(FID)	*93.5*			*77.0-120*		*04/30/2025 15:33*	WG2503669

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	05/01/2025 03:04	WG2503908
Toluene	U		0.00130	0.00500	1	05/01/2025 03:04	WG2503908
Ethylbenzene	U		0.000737	0.00250	1	05/01/2025 03:04	WG2503908
Xylenes, Total	U		0.000880	0.00650	1	05/01/2025 03:04	WG2503908
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	05/01/2025 03:04	WG2503908

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	05/01/2025 03:04	WG2503908
(S) Toluene-d8	*101*			*75.0-131*		*05/01/2025 03:04*	WG2503908
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*05/01/2025 03:04*	WG2503908
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*05/01/2025 03:04*	WG2503908

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	62.0		16.1	40.0	10	05/02/2025 18:08	WG2504887
C28-C36 Motor Oil Range	191		2.74	40.0	10	05/02/2025 18:08	WG2504887
(S) o-Terphenyl	*74.2*			*18.0-148*		*05/02/2025 18:08*	WG2504887

Sample Narrative:

L1852369-04 WG2504887: Dilution due to matrix impact during extraction procedure

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00162	0.00600	1	05/03/2025 03:52	WG2504880
Anthracene	U		0.00163	0.00600	1	05/03/2025 03:52	WG2504880
Benzo(a)anthracene	U		0.00200	0.00600	1	05/03/2025 03:52	WG2504880
Benzo(b)fluoranthene	U		0.00275	0.00600	1	05/03/2025 03:52	WG2504880
Benzo(k)fluoranthene	U		0.00213	0.00600	1	05/03/2025 03:52	WG2504880
Benzo(a)pyrene	U		0.00163	0.00600	1	05/03/2025 03:52	WG2504880
Chrysene	U		0.00206	0.00600	1	05/03/2025 03:52	WG2504880
Dibenz(a,h)anthracene	U		0.00201	0.00600	1	05/03/2025 03:52	WG2504880
Fluoranthene	U		0.00239	0.00600	1	05/03/2025 03:52	WG2504880
Fluorene	U		0.00180	0.00600	1	05/03/2025 03:52	WG2504880
Indeno(1,2,3-cd)pyrene	U		0.00234	0.00600	1	05/03/2025 03:52	WG2504880
1-Methylnaphthalene	U		0.00219	0.0200	1	05/03/2025 03:52	WG2504880
2-Methylnaphthalene	U		0.00571	0.0200	1	05/03/2025 03:52	WG2504880
Naphthalene	U		0.00579	0.0200	1	05/03/2025 03:52	WG2504880
Pyrene	U		0.00205	0.00600	1	05/03/2025 03:52	WG2504880
(S) p-Terphenyl-d14	*75.0*			*23.0-120*		*05/03/2025 03:52*	WG2504880
(S) Nitrobenzene-d5	*81.7*			*14.0-149*		*05/03/2025 03:52*	WG2504880
(S) 2-Fluorobiphenyl	*84.3*			*34.0-125*		*05/03/2025 03:52*	WG2504880

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.34		1	05/05/2025 08:37	WG2504997

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/04/2025 20:37	WG2504521

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.38	T8	1	05/06/2025 07:20	WG2507392

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	443	umhos/cm		10.0	1	05/06/2025 11:25	WG2507398

Sample Narrative:

L1852369-05 WG2507398: 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	0.665		0.0167	0.200	1	05/04/2025 10:04	WG2505046

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.29		0.100	1.00	5	05/02/2025 18:50	WG2504626
Barium	244		0.152	2.50	5	05/02/2025 18:50	WG2504626
Cadmium	0.254	J	0.0855	1.00	5	05/02/2025 18:50	WG2504626
Copper	11.7		0.132	5.00	5	05/02/2025 18:50	WG2504626
Lead	13.3		0.0990	2.00	5	05/02/2025 18:50	WG2504626
Nickel	14.5		0.197	2.50	5	05/02/2025 18:50	WG2504626
Selenium	0.722	J	0.180	2.50	5	05/02/2025 18:50	WG2504626
Silver	U		0.0865	0.500	5	05/02/2025 18:50	WG2504626
Zinc	85.5	B	0.740	25.0	5	05/02/2025 18:50	WG2504626

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	0.120		0.0217	0.100	1	04/30/2025 15:56	WG2503669
(S) a,a,a-Trifluorotoluene(FID)	*93.0*			*77.0-120*		*04/30/2025 15:56*	WG2503669

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	05/01/2025 03:25	WG2503908
Toluene	U		0.00130	0.00500	1	05/01/2025 03:25	WG2503908
Ethylbenzene	U		0.000737	0.00250	1	05/01/2025 03:25	WG2503908
Xylenes, Total	U		0.000880	0.00650	1	05/01/2025 03:25	WG2503908
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	05/01/2025 03:25	WG2503908

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	05/01/2025 03:25	WG2503908
(S) Toluene-d8	*106*			*75.0-131*		*05/01/2025 03:25*	WG2503908
(S) 4-Bromofluorobenzene	*97.9*			*67.0-138*		*05/01/2025 03:25*	WG2503908
(S) 1,2-Dichloroethane-d4	*120*			*70.0-130*		*05/01/2025 03:25*	WG2503908

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	43.5		16.1	40.0	10	05/02/2025 15:44	WG2504887
C28-C36 Motor Oil Range	149		2.74	40.0	10	05/02/2025 15:44	WG2504887
(S) o-Terphenyl	*57.3*			*18.0-148*		*05/02/2025 15:44*	WG2504887

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00162	0.00600	1	05/03/2025 03:17	WG2504880
Anthracene	U		0.00163	0.00600	1	05/03/2025 03:17	WG2504880
Benzo(a)anthracene	0.00404	B J	0.00200	0.00600	1	05/03/2025 03:17	WG2504880
Benzo(b)fluoranthene	0.00455	B J	0.00275	0.00600	1	05/03/2025 03:17	WG2504880
Benzo(k)fluoranthene	U		0.00213	0.00600	1	05/03/2025 03:17	WG2504880
Benzo(a)pyrene	0.00344	J	0.00163	0.00600	1	05/03/2025 03:17	WG2504880
Chrysene	0.00335	B J	0.00206	0.00600	1	05/03/2025 03:17	WG2504880
Dibenz(a,h)anthracene	U		0.00201	0.00600	1	05/03/2025 03:17	WG2504880
Fluoranthene	0.0100	B	0.00239	0.00600	1	05/03/2025 03:17	WG2504880
Fluorene	U		0.00180	0.00600	1	05/03/2025 03:17	WG2504880
Indeno(1,2,3-cd)pyrene	0.00318	B J	0.00234	0.00600	1	05/03/2025 03:17	WG2504880
1-Methylnaphthalene	U		0.00219	0.0200	1	05/03/2025 03:17	WG2504880
2-Methylnaphthalene	U		0.00571	0.0200	1	05/03/2025 03:17	WG2504880
Naphthalene	U		0.00579	0.0200	1	05/03/2025 03:17	WG2504880
Pyrene	0.00699		0.00205	0.00600	1	05/03/2025 03:17	WG2504880
(S) p-Terphenyl-d14	*70.0*			*23.0-120*		*05/03/2025 03:17*	WG2504880
(S) Nitrobenzene-d5	*77.5*			*14.0-149*		*05/03/2025 03:17*	WG2504880
(S) 2-Fluorobiphenyl	*78.1*			*34.0-125*		*05/03/2025 03:17*	WG2504880

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.757		1	05/05/2025 08:39	WG2504997

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/04/2025 20:47	WG2504521

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.55	T8	1	05/06/2025 07:20	WG2507392

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	1530	umhos/cm		10.0	1	05/06/2025 11:25	WG2507398

Sample Narrative:

L1852369-06 WG2507398: 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	0.634		0.0167	0.200	1	05/04/2025 10:09	WG2505046

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.45		0.100	1.00	5	05/02/2025 18:53	WG2504626
Barium	131		0.152	2.50	5	05/02/2025 18:53	WG2504626
Cadmium	0.213	J	0.0855	1.00	5	05/02/2025 18:53	WG2504626
Copper	12.7		0.132	5.00	5	05/02/2025 18:53	WG2504626
Lead	14.7		0.0990	2.00	5	05/02/2025 18:53	WG2504626
Nickel	17.1		0.197	2.50	5	05/02/2025 18:53	WG2504626
Selenium	0.984	J	0.180	2.50	5	05/02/2025 18:53	WG2504626
Silver	U		0.0865	0.500	5	05/02/2025 18:53	WG2504626
Zinc	72.0	B	0.740	25.0	5	05/02/2025 18:53	WG2504626

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	0.182		0.0217	0.100	1	04/30/2025 16:20	WG2503669
(S) a,a,a-Trifluorotoluene(FID)	*95.8*			*77.0-120*		*04/30/2025 16:20*	WG2503669

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	05/01/2025 03:45	WG2503908
Toluene	U		0.00130	0.00500	1	05/01/2025 03:45	WG2503908
Ethylbenzene	U		0.000737	0.00250	1	05/01/2025 03:45	WG2503908
Xylenes, Total	U		0.000880	0.00650	1	05/01/2025 03:45	WG2503908
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	05/01/2025 03:45	WG2503908

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	05/01/2025 03:45	WG2503908
(S) Toluene-d8	*104*			*75.0-131*		*05/01/2025 03:45*	WG2503908
(S) 4-Bromofluorobenzene	*97.2*			*67.0-138*		*05/01/2025 03:45*	WG2503908
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*05/01/2025 03:45*	WG2503908

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	3.40	J	1.61	4.00	1	05/02/2025 12:40	WG2504887
C28-C36 Motor Oil Range	8.09		0.274	4.00	1	05/02/2025 12:40	WG2504887
(S) o-Terphenyl	*62.4*			*18.0-148*		*05/02/2025 12:40*	WG2504887

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00162	0.00600	1	05/07/2025 12:38	WG2508081
Anthracene	0.00472	J	0.00163	0.00600	1	05/07/2025 12:38	WG2508081
Benzo(a)anthracene	0.0216		0.00200	0.00600	1	05/07/2025 12:38	WG2508081
Benzo(b)fluoranthene	0.0214		0.00275	0.00600	1	05/07/2025 12:38	WG2508081
Benzo(k)fluoranthene	0.00706		0.00213	0.00600	1	05/07/2025 12:38	WG2508081
Benzo(a)pyrene	0.00908		0.00163	0.00600	1	05/07/2025 12:38	WG2508081
Chrysene	0.0233		0.00206	0.00600	1	05/07/2025 12:38	WG2508081
Dibenz(a,h)anthracene	0.00264	J	0.00201	0.00600	1	05/07/2025 12:38	WG2508081
Fluoranthene	0.0687		0.00239	0.00600	1	05/07/2025 12:38	WG2508081
Fluorene	U		0.00180	0.00600	1	05/07/2025 12:38	WG2508081
Indeno(1,2,3-cd)pyrene	0.0103		0.00234	0.00600	1	05/07/2025 12:38	WG2508081
1-Methylnaphthalene	U		0.00219	0.0200	1	05/07/2025 12:38	WG2508081
2-Methylnaphthalene	U		0.00571	0.0200	1	05/07/2025 12:38	WG2508081
Naphthalene	U		0.00579	0.0200	1	05/07/2025 12:38	WG2508081
Pyrene	0.0427		0.00205	0.00600	1	05/07/2025 12:38	WG2508081
(S) p-Terphenyl-d14	*66.7*			*23.0-120*		*05/07/2025 12:38*	WG2508081
(S) Nitrobenzene-d5	*70.6*			*14.0-149*		*05/07/2025 12:38*	WG2508081
(S) 2-Fluorobiphenyl	*74.8*			*34.0-125*		*05/07/2025 12:38*	WG2508081

Method Blank (MB)

(MB) R4209638-1 05/04/25 18:31

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

L1852783-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1852783-02 05/04/25 21:29 • (DUP) R4209638-7 05/04/25 21:40

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

L1853074-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1853074-12 05/04/25 23:35 • (DUP) R4209638-8 05/04/25 23:46

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

Laboratory Control Sample (LCS)

(LCS) R4209638-2 05/04/25 18:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	9.95	99.5	80.0-120	

L1852369-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852369-02 05/04/25 19:02 • (MS) R4209638-3 05/04/25 19:13 • (MSD) R4209638-4 05/04/25 19:23

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Hexavalent Chromium	20.0	U	14.6	13.8	73.1	68.9	1	75.0-125	J6	J6	5.93	20

L1852369-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1852369-02 05/04/25 19:02 • (MS) R4209638-5 05/04/25 19:34

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	643	U	494	76.8	50	75.0-125	

L1852294-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1852294-05 05/06/25 07:20 • (DUP) R4210244-2 05/06/25 07:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.76	7.76	1	0.000		1

L1853074-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1853074-09 05/06/25 07:20 • (DUP) R4210244-3 05/06/25 07:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.00	7.99	1	0.125		1

Laboratory Control Sample (LCS)

(LCS) R4210244-1 05/06/25 07:20

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

Method Blank (MB)

(MB) R4210364-1 05/06/25 11:25

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

Sample Narrative:
BLANK: at 25C

L1852369-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1852369-01 05/06/25 11:25 • (DUP) R4210364-3 05/06/25 11:25

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	3480	3470	1	0.288		20

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

L1853074-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1853074-08 05/06/25 11:25 • (DUP) R4210364-4 05/06/25 11:25

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	285	285	1	0.211		20

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

Laboratory Control Sample (LCS)

(LCS) R4210364-2 05/06/25 11:25

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

Sample Narrative:
LCS: at 25C

Method Blank (MB)

(MB) R4209484-1 05/04/25 09:49

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

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

(LCS) R4209484-2 05/04/25 09:51 • (LCSD) R4209484-3 05/04/25 09:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.06	1.05	106	105	80.0-120			1.03	20

Method Blank (MB)

(MB) R4209152-8 05/02/25 19:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00
Barium	U		0.152	2.50
Cadmium	U		0.0855	1.00
Copper	U		0.133	5.00
Lead	U		0.0990	2.00
Nickel	0.950	J	0.197	2.50
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500
Zinc	13.5	J	0.740	25.0

Laboratory Control Sample (LCS)

(LCS) R4209152-3 05/02/25 18:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	91.6	91.6	80.0-120	
Barium	100	95.6	95.6	80.0-120	
Cadmium	100	93.4	93.4	80.0-120	
Copper	100	90.5	90.5	80.0-120	
Lead	100	89.4	89.4	80.0-120	
Nickel	100	93.2	93.2	80.0-120	
Selenium	100	89.0	89.0	80.0-120	
Silver	20.0	18.8	93.8	80.0-120	
Zinc	100	91.2	91.2	80.0-120	

L1852090-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852090-01 05/02/25 18:05 • (MS) R4209152-6 05/02/25 18:14 • (MSD) R4209152-7 05/02/25 18:18

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	99.9	1.01	92.5	98.6	91.5	97.6	5	75.0-125			6.43	20
Barium	99.9	5.21	99.6	106	94.4	100	5	75.0-125			5.90	20
Cadmium	99.9	0.953	93.8	101	92.9	99.7	5	75.0-125			7.05	20
Copper	99.9	2.05	91.1	96.0	89.0	94.0	5	75.0-125			5.27	20
Lead	99.9	2.22	89.4	96.4	87.2	94.2	5	75.0-125			7.51	20
Selenium	99.9	U	91.1	97.3	91.1	97.3	5	75.0-125			6.62	20
Silver	20.0	U	18.9	20.3	94.4	102	5	75.0-125			7.45	20

L1852090-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852090-01 05/02/25 20:08 • (MS) R4209171-5 05/02/25 20:18 • (MSD) R4209171-6 05/02/25 20:21

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nickel	99.9	0.545	93.9	99.4	93.4	98.8	5	75.0-125			5.62	20
Zinc	99.9	14.7	102	111	87.3	96.3	5	75.0-125			8.51	20

Method Blank (MB)

(MB) R4208047-3 04/30/25 12:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*98.2*			*77.0-120*

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

(LCS) R4208047-1 04/30/25 11:32 • (LCSD) R4208047-2 04/30/25 11:55

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	4.67	5.24	93.4	105	72.0-127			11.5	20
(S) a,a,a-Trifluorotoluene(FID)				*102*	*103*	*77.0-120*				

Method Blank (MB)

(MB) R4208065-3 04/30/25 21:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Xylenes, Total	U		0.000880	0.00650
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
(S) Toluene-d8	*100*			*75.0-131*
(S) 4-Bromofluorobenzene	*95.5*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*

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

(LCS) R4208065-1 04/30/25 19:54 • (LCSD) R4208065-2 04/30/25 20:15

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	0.121	0.123	96.8	98.4	70.0-123			1.64	20
Toluene	0.125	0.121	0.125	96.8	100	75.0-121			3.25	20
Ethylbenzene	0.125	0.115	0.121	92.0	96.8	74.0-126			5.08	20
Xylenes, Total	0.375	0.368	0.388	98.1	103	72.0-127			5.29	20
1,2,4-Trimethylbenzene	0.125	0.129	0.136	103	109	70.0-126			5.28	20
1,3,5-Trimethylbenzene	0.125	0.123	0.130	98.4	104	73.0-127			5.53	20
(S) Toluene-d8				*104*	*103*	*75.0-131*				
(S) 4-Bromofluorobenzene				*99.6*	*97.6*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*108*	*102*	*70.0-130*				

Method Blank (MB)

(MB) R4209097-1 05/02/25 10:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	*59.0*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R4209097-2 05/02/25 11:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	34.7	69.4	50.0-150	
(S) o-Terphenyl			*66.7*	*18.0-148*	

L1852203-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852203-04 05/02/25 14:12 • (MS) R4209097-3 05/02/25 14:25 • (MSD) R4209097-4 05/02/25 14:38

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	49.7	U	36.7	36.2	73.8	74.0	1	50.0-150			1.37	20
(S) o-Terphenyl					*67.8*	*68.4*		*18.0-148*				

Method Blank (MB)

(MB) R4209372-2 05/02/25 21:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00162	0.00600
Anthracene	U		0.00163	0.00600
Benzo(a)anthracene	0.00336	J	0.00200	0.00600
Benzo(b)fluoranthene	0.00904		0.00275	0.00600
Benzo(k)fluoranthene	0.00265	J	0.00213	0.00600
Benzo(a)pyrene	U		0.00163	0.00600
Chrysene	0.00558	J	0.00206	0.00600
Dibenz(a,h)anthracene	U		0.00201	0.00600
Fluoranthene	0.00242	J	0.00239	0.00600
Fluorene	U		0.00180	0.00600
Indeno(1,2,3-cd)pyrene	0.00294	J	0.00234	0.00600
1-Methylnaphthalene	U		0.00219	0.0200
2-Methylnaphthalene	U		0.00571	0.0200
Naphthalene	U		0.00579	0.0200
Pyrene	U		0.00205	0.00600
(S) p-Terphenyl-d14	*71.8*			*23.0-120*
(S) Nitrobenzene-d5	*75.7*			*14.0-149*
(S) 2-Fluorobiphenyl	*79.3*			*34.0-125*

Laboratory Control Sample (LCS)

(LCS) R4209372-1 05/02/25 21:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0800	0.0548	68.5	50.0-120	
Anthracene	0.0800	0.0611	76.4	50.0-126	
Benzo(a)anthracene	0.0800	0.0574	71.8	45.0-120	
Benzo(b)fluoranthene	0.0800	0.0525	65.6	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0513	64.1	49.0-125	
Benzo(a)pyrene	0.0800	0.0493	61.6	42.0-120	
Chrysene	0.0800	0.0585	73.1	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0558	69.8	47.0-125	
Fluoranthene	0.0800	0.0638	79.8	49.0-129	
Fluorene	0.0800	0.0608	76.0	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0550	68.8	46.0-125	
1-Methylnaphthalene	0.0800	0.0595	74.4	51.0-121	
2-Methylnaphthalene	0.0800	0.0576	72.0	50.0-120	
Naphthalene	0.0800	0.0554	69.3	50.0-120	
Pyrene	0.0800	0.0531	66.4	43.0-123	

Laboratory Control Sample (LCS)

(LCS) R4209372-1 05/02/25 21:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) p-Terphenyl-d14			*75.2*	*23.0-120*	
(S) Nitrobenzene-d5			*78.5*	*14.0-149*	
(S) 2-Fluorobiphenyl			*83.0*	*34.0-125*	

L1852370-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852370-02 05/03/25 02:07 • (MS) R4209372-3 05/03/25 02:24 • (MSD) R4209372-4 05/03/25 02:42

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	0.0776	U	0.0531	0.0576	68.4	74.2	1	14.0-127			8.13	27
Anthracene	0.0776	U	0.0574	0.0627	74.0	80.8	1	10.0-145			8.83	30
Benzo(a)anthracene	0.0776	U	0.0552	0.0603	71.1	77.7	1	10.0-139			8.83	30
Benzo(b)fluoranthene	0.0776	U	0.0503	0.0538	64.8	69.3	1	10.0-140			6.72	36
Benzo(k)fluoranthene	0.0776	U	0.0489	0.0524	63.0	67.5	1	10.0-137			6.91	31
Benzo(a)pyrene	0.0776	U	0.0529	0.0573	68.2	73.8	1	10.0-141			7.99	31
Chrysene	0.0776	U	0.0575	0.0613	74.1	79.0	1	10.0-145			6.40	30
Dibenz(a,h)anthracene	0.0776	U	0.0544	0.0578	70.1	74.5	1	10.0-132			6.06	31
Fluoranthene	0.0776	U	0.0605	0.0664	78.0	85.6	1	10.0-153			9.30	33
Fluorene	0.0776	U	0.0585	0.0640	75.4	82.5	1	11.0-130			8.98	29
Indeno(1,2,3-cd)pyrene	0.0776	U	0.0525	0.0575	67.7	74.1	1	10.0-137			9.09	32
1-Methylnaphthalene	0.0776	U	0.0580	0.0629	74.7	81.1	1	10.0-142			8.11	28
2-Methylnaphthalene	0.0776	U	0.0555	0.0590	71.5	76.0	1	10.0-137			6.11	28
Naphthalene	0.0776	U	0.0541	0.0575	69.7	74.1	1	10.0-135			6.09	27
Pyrene	0.0776	U	0.0515	0.0544	66.4	70.1	1	10.0-148			5.48	35
(S) p-Terphenyl-d14					*75.5*	*78.9*		*23.0-120*				
(S) Nitrobenzene-d5					*79.0*	*85.4*		*14.0-149*				
(S) 2-Fluorobiphenyl					*84.2*	*90.6*		*34.0-125*				

Method Blank (MB)

(MB) R4211202-2 05/07/25 10:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00162	0.00600
Anthracene	U		0.00163	0.00600
Benzo(a)anthracene	U		0.00200	0.00600
Benzo(b)fluoranthene	U		0.00275	0.00600
Benzo(k)fluoranthene	U		0.00213	0.00600
Benzo(a)pyrene	U		0.00163	0.00600
Chrysene	U		0.00206	0.00600
Dibenz(a,h)anthracene	U		0.00201	0.00600
Fluoranthene	U		0.00239	0.00600
Fluorene	U		0.00180	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00234	0.00600
1-Methylnaphthalene	U		0.00219	0.0200
2-Methylnaphthalene	U		0.00571	0.0200
Naphthalene	U		0.00579	0.0200
Pyrene	U		0.00205	0.00600
(S) p-Terphenyl-d14	*74.6*			*23.0-120*
(S) Nitrobenzene-d5	*77.8*			*14.0-149*
(S) 2-Fluorobiphenyl	*82.3*			*34.0-125*

Laboratory Control Sample (LCS)

(LCS) R4211202-1 05/07/25 10:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0800	0.0655	81.9	50.0-120	
Anthracene	0.0800	0.0740	92.5	50.0-126	
Benzo(a)anthracene	0.0800	0.0691	86.4	45.0-120	
Benzo(b)fluoranthene	0.0800	0.0631	78.9	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0642	80.3	49.0-125	
Benzo(a)pyrene	0.0800	0.0657	82.1	42.0-120	
Chrysene	0.0800	0.0714	89.3	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0692	86.5	47.0-125	
Fluoranthene	0.0800	0.0774	96.8	49.0-129	
Fluorene	0.0800	0.0744	93.0	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0672	84.0	46.0-125	
1-Methylnaphthalene	0.0800	0.0728	91.0	51.0-121	
2-Methylnaphthalene	0.0800	0.0697	87.1	50.0-120	
Naphthalene	0.0800	0.0662	82.8	50.0-120	
Pyrene	0.0800	0.0641	80.1	43.0-123	

Laboratory Control Sample (LCS)

(LCS) R4211202-1 05/07/25 10:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) p-Terphenyl-d14			*81.5*	*23.0-120*	
(S) Nitrobenzene-d5			*83.9*	*14.0-149*	
(S) 2-Fluorobiphenyl			*90.3*	*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.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
T8	Sample(s) received past/too close to holding time expiration.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Scout Energy Partners
100 Chevron Road
Rangely, CO 81648

Billing Information:
Same as left

Pres Chk

Report to: **Cody Christian**

Email To: **cody.christian@scoutep.com**

Project Description: **AC McLaughlin 14 Lateral Line Spill**

City/State Collected: **CO**

Phone: **1-970-902-0518**
Fax:

Client Project #

Lab Project #

Collected by (print): BA

Site/Facility ID #

P.O. #

Collected by (signature): BA

Immediately Packed on Ice N ___ Y X

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

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TABLE 915 GRO/DRO/ORO	TABLE 915 Metals	TABLE 915 VOCs	TABLE 915 pH, SPCON, SAR	TABLE 915 PAHs	Remarks	Sample # (lab only)
ACM14-SS3	Grab	SS	0-1'	4/24/2025	1255	4	X	X	X	X	X		-01
ACM14-SS5	Grab	SS	0-1'		1305	4	X	X	X	X	X		-02
ACM14-SS6	Grab	SS	0-1'		1315	4	X	X	X	X	X		-03
ACM14-SS9	Grab	SS	0-1'		1325	4	X	X	X	X	X		-04
ACM14-SS10	Grab	SS	0-1'		1335	4	X	X	X	X	X		-05
ACM14-SS11	Grab	SS	0-1'		1345	4	X	X	X	X	X		-06

Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation

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

L# 1852369
1079

Acctnum: **SCOENERCO**
Template:
Prelogin:
TSR:
PB:
Shipped Via:

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

Remarks:

pH _____ Temp _____
Flow _____ Other _____

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

Tracking # 7315 3202 9408

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
BA	4/24/2025	1700	4/25 1145	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
AA	4/25/25	1215		1.5+1.4=1.9 24
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
				4/26/25 0845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK