

Scout Energy - Rangely, CO

Sample Delivery Group: L1851642
Samples Received: 04/25/2025
Project Number:
Description: MC Hagood A8 Spill

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

Entire Report Reviewed By:



Chris Ward
Project Manager

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Pace Analytical National

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

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SAMPLE SUMMARY

HA8-SS1 L1851642-01 Solid

Collected by BA Collected date/time 04/23/25 12:35 Received date/time 04/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2504966	1	05/03/25 12:43	05/03/25 12:43	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2501326	1	04/30/25 15:38	05/01/25 17:48	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2505934	1	05/03/25 10:06	05/03/25 15:50	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505024	1	05/02/25 12:01	05/03/25 11:40	RLS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2503089	1	04/29/25 08:52	04/30/25 06:45	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2503689	1	05/01/25 11:18	05/01/25 23:29	KDB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2502756	1	04/30/25 07:28	04/30/25 17:26	MBE	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

HA8-SS2 L1851642-02 Solid

Collected by BA Collected date/time 04/23/25 12:40 Received date/time 04/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2504966	1	05/03/25 12:44	05/03/25 12:44	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2501326	1	04/30/25 15:38	05/01/25 17:57	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2505934	1	05/03/25 10:06	05/03/25 15:50	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505024	5	05/02/25 12:01	05/03/25 11:42	RLS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2503089	1	04/29/25 08:52	04/30/25 06:25	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2503689	10	05/01/25 11:18	05/02/25 00:27	KDB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2502756	1	04/30/25 07:28	04/30/25 21:36	MBE	Mt. Juliet, TN

HA8-SS3 L1851642-03 Solid

Collected by BA Collected date/time 04/23/25 12:45 Received date/time 04/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2504966	1	05/03/25 12:46	05/03/25 12:46	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2501326	1	04/30/25 15:38	05/01/25 18:07	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2505934	1	05/03/25 10:06	05/03/25 15:50	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505024	1	05/02/25 12:01	05/03/25 11:43	RLS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2503089	1	04/29/25 08:52	04/30/25 06:05	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2503689	10	05/01/25 11:18	05/02/25 00:12	KDB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2502756	1	04/30/25 07:28	04/30/25 21:18	MBE	Mt. Juliet, TN

HA8-SS4 L1851642-04 Solid

Collected by BA Collected date/time 04/23/25 12:50 Received date/time 04/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2504966	1	05/03/25 12:48	05/03/25 12:48	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2501326	1	04/30/25 15:38	05/01/25 18:16	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2505934	1	05/03/25 10:06	05/03/25 15:50	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505024	1	05/02/25 12:01	05/03/25 11:48	RLS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2503089	1	04/29/25 08:52	04/30/25 05:45	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2503689	1	05/01/25 11:18	05/01/25 22:17	KDB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2502756	1	04/30/25 07:28	04/30/25 17:44	MBE	Mt. Juliet, TN

HA8-BG2 L1851642-05 Solid

Collected by BA Collected date/time 04/23/25 13:00 Received date/time 04/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2504966	1	05/03/25 12:49	05/03/25 12:49	RLS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2505934	1	05/03/25 10:06	05/03/25 15:50	KRB	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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.20		1	05/03/2025 12:43	WG2504966

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	05/01/2025 17:48	WG2501326

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	559	umhos/cm		10.0	1	05/03/2025 15:50	WG2505934

Sample Narrative:

L1851642-01 WG2505934: 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	0.620		0.0167	0.200	1	05/03/2025 11:40	WG2505024

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

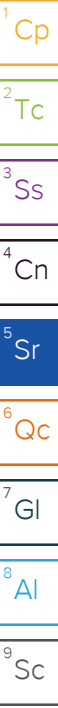
Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		1.58	5.00	1	04/30/2025 06:45	WG2503089
1,3,5-Trimethylbenzene	U		2.00	5.00	1	04/30/2025 06:45	WG2503089
(S) Toluene-d8	97.1			75.0-131		04/30/2025 06:45	WG2503089
(S) 4-Bromofluorobenzene	90.7			67.0-138		04/30/2025 06:45	WG2503089
(S) 1,2-Dichloroethane-d4	84.7			70.0-130		04/30/2025 06:45	WG2503089

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C28-C36 Motor Oil Range	9.74		0.274	4.00	1	05/01/2025 23:29	WG2503689
(S) o-Terphenyl	44.3			18.0-148		05/01/2025 23:29	WG2503689

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
1-Methylnaphthalene	U		0.00219	0.0200	1	04/30/2025 17:26	WG2502756
2-Methylnaphthalene	U		0.00571	0.0200	1	04/30/2025 17:26	WG2502756
(S) p-Terphenyl-d14	72.1			23.0-120		04/30/2025 17:26	WG2502756
(S) Nitrobenzene-d5	90.4			14.0-149		04/30/2025 17:26	WG2502756
(S) 2-Fluorobiphenyl	75.4			34.0-125		04/30/2025 17:26	WG2502756



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.54		1	05/03/2025 12:44	WG2504966

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	05/01/2025 17:57	WG2501326

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	564	umhos/cm		10.0	1	05/03/2025 15:50	WG2505934

Sample Narrative:

L1851642-02 WG2505934: at 25C

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	1.12		0.0835	1.00	5	05/03/2025 11:42	WG2505024

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

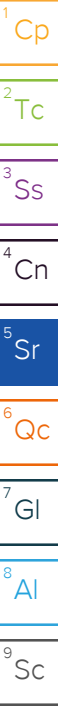
Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		1.58	5.00	1	04/30/2025 06:25	WG2503089
1,3,5-Trimethylbenzene	U		2.00	5.00	1	04/30/2025 06:25	WG2503089
(S) Toluene-d8	95.0			75.0-131		04/30/2025 06:25	WG2503089
(S) 4-Bromofluorobenzene	96.4			67.0-138		04/30/2025 06:25	WG2503089
(S) 1,2-Dichloroethane-d4	82.4			70.0-130		04/30/2025 06:25	WG2503089

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C28-C36 Motor Oil Range	262		2.74	40.0	10	05/02/2025 00:27	WG2503689
(S) o-Terphenyl	49.1			18.0-148		05/02/2025 00:27	WG2503689

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
1-Methylnaphthalene	U		0.00219	0.0200	1	04/30/2025 21:36	WG2502756
2-Methylnaphthalene	U		0.00571	0.0200	1	04/30/2025 21:36	WG2502756
(S) p-Terphenyl-d14	64.2			23.0-120		04/30/2025 21:36	WG2502756
(S) Nitrobenzene-d5	93.5			14.0-149		04/30/2025 21:36	WG2502756
(S) 2-Fluorobiphenyl	75.5			34.0-125		04/30/2025 21:36	WG2502756



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	13.4		1	05/03/2025 12:46	WG2504966

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	05/01/2025 18:07	WG2501326

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	1700	umhos/cm		10.0	1	05/03/2025 15:50	WG2505934

Sample Narrative:

L1851642-03 WG2505934: 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	1.32		0.0167	0.200	1	05/03/2025 11:43	WG2505024

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

Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		1.58	5.00	1	04/30/2025 06:05	WG2503089
1,3,5-Trimethylbenzene	U		2.00	5.00	1	04/30/2025 06:05	WG2503089
(S) Toluene-d8	95.5			75.0-131		04/30/2025 06:05	WG2503089
(S) 4-Bromofluorobenzene	98.2			67.0-138		04/30/2025 06:05	WG2503089
(S) 1,2-Dichloroethane-d4	84.7			70.0-130		04/30/2025 06:05	WG2503089

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C28-C36 Motor Oil Range	149		2.74	40.0	10	05/02/2025 00:12	WG2503689
(S) o-Terphenyl	55.6			18.0-148		05/02/2025 00:12	WG2503689

Sample Narrative:

L1851642-03 WG2503689: Dilution due to matrix.

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
1-Methylnaphthalene	U		0.00219	0.0200	1	04/30/2025 21:18	WG2502756
2-Methylnaphthalene	U		0.00571	0.0200	1	04/30/2025 21:18	WG2502756
(S) p-Terphenyl-d14	63.0			23.0-120		04/30/2025 21:18	WG2502756
(S) Nitrobenzene-d5	99.4			14.0-149		04/30/2025 21:18	WG2502756
(S) 2-Fluorobiphenyl	79.0			34.0-125		04/30/2025 21:18	WG2502756

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.772		1	05/03/2025 12:48	WG2504966

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	05/01/2025 18:16	WG2501326

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	427	umhos/cm		10.0	1	05/03/2025 15:50	WG2505934

Sample Narrative:

L1851642-04 WG2505934: 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	0.495		0.0167	0.200	1	05/03/2025 11:48	WG2505024

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

Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		1.58	5.00	1	04/30/2025 05:45	WG2503089
1,3,5-Trimethylbenzene	U		2.00	5.00	1	04/30/2025 05:45	WG2503089
(S) Toluene-d8	95.3			75.0-131		04/30/2025 05:45	WG2503089
(S) 4-Bromofluorobenzene	98.8			67.0-138		04/30/2025 05:45	WG2503089
(S) 1,2-Dichloroethane-d4	88.7			70.0-130		04/30/2025 05:45	WG2503089

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C28-C36 Motor Oil Range	16.8		0.274	4.00	1	05/01/2025 22:17	WG2503689
(S) o-Terphenyl	41.4			18.0-148		05/01/2025 22:17	WG2503689

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
1-Methylnaphthalene	U		0.00219	0.0200	1	04/30/2025 17:44	WG2502756
2-Methylnaphthalene	U		0.00571	0.0200	1	04/30/2025 17:44	WG2502756
(S) p-Terphenyl-d14	69.6			23.0-120		04/30/2025 17:44	WG2502756
(S) Nitrobenzene-d5	90.0			14.0-149		04/30/2025 17:44	WG2502756
(S) 2-Fluorobiphenyl	80.6			34.0-125		04/30/2025 17:44	WG2502756

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	17.0		1	05/03/2025 12:49	WG2504966

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	12200	umhos/cm		10.0	1	05/03/2025 15:50	WG2505934

Sample Narrative:

L1851642-05 WG2505934: at 25C

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

Method Blank (MB)

(MB) R4208759-1 05/01/25 15:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Hexavalent Chromium	U		0.379	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1851354-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1851354-02 05/01/25 15:52 • (DUP) R4208759-3 05/01/25 16:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Hexavalent Chromium	U	U	1	0.000		20

L1851359-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1851359-02 05/01/25 16:21 • (DUP) R4208759-4 05/01/25 16:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4208759-2 05/01/25 15:23

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

L1851645-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1851645-04 05/01/25 19:14 • (MS) R4208759-5 05/01/25 19:24 • (MSD) R4208759-6 05/01/25 19:34

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Hexavalent Chromium	20.0	U	14.1	18.2	70.3	91.0	1	75.0-125	J6	J3	25.7	20

L1851645-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1851645-04 05/01/25 19:14 • (MS) R4208759-7 05/01/25 19:43

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Hexavalent Chromium	654	U	682	104	50	75.0-125	

Method Blank (MB)

(MB) R4209374-1 05/03/25 15:50

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

L1851636-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1851636-02 05/03/25 15:50 • (DUP) R4209374-3 05/03/25 15:50

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Specific Conductance	3860	3870	1	0.259		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1851890-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1851890-01 05/03/25 15:50 • (DUP) R4209374-4 05/03/25 15:50

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Specific Conductance	212	212	1	0.189		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4209374-2 05/03/25 15:50

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4209334-1 05/03/25 11:28

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

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

(LCS) R4209334-2 05/03/25 11:30 • (LCSD) R4209334-3 05/03/25 11:31

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	1.04	1.06	104	106	80.0-120			1.74	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4208306-2 04/29/25 22:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/kg		ug/kg	ug/kg
1,2,4-Trimethylbenzene	U		1.58	5.00
1,3,5-Trimethylbenzene	U		2.00	5.00
(S) Toluene-d8	95.9			75.0-131
(S) 4-Bromofluorobenzene	98.8			67.0-138
(S) 1,2-Dichloroethane-d4	85.3			70.0-130

Laboratory Control Sample (LCS)

(LCS) R4208306-1 04/29/25 21:04

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/kg	ug/kg	%	%	
1,2,4-Trimethylbenzene	125	106	84.8	70.0-126	
1,3,5-Trimethylbenzene	125	107	85.6	73.0-127	
(S) Toluene-d8			94.4	75.0-131	
(S) 4-Bromofluorobenzene			99.6	67.0-138	
(S) 1,2-Dichloroethane-d4			88.2	70.0-130	

L1851642-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1851642-01 04/30/25 06:45 • (MS) R4208306-3 04/30/25 07:05 • (MSD) R4208306-4 04/30/25 07:24

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/kg	ug/kg	ug/kg	ug/kg	%	%		%			%	%
1,2,4-Trimethylbenzene	125	U	85.2	91.6	68.2	73.3	1	10.0-160			7.24	36
1,3,5-Trimethylbenzene	125	U	83.2	92.5	66.6	74.0	1	10.0-160			10.6	38
(S) Toluene-d8					94.7	95.9		75.0-131				
(S) 4-Bromofluorobenzene					92.3	90.9		67.0-138				
(S) 1,2-Dichloroethane-d4					87.1	87.1		70.0-130				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4208619-1 05/01/25 22:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C28-C36 Motor Oil Range	U		0.274	4.00
<i>(S) o-Terphenyl</i>	58.7			18.0-148

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R4207916-2 04/30/25 15:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
1-Methylnaphthalene	U		0.00219	0.0200
2-Methylnaphthalene	U		0.00571	0.0200
<i>(S) p-Terphenyl-d14</i>	81.4			23.0-120
<i>(S) Nitrobenzene-d5</i>	107			14.0-149
<i>(S) 2-Fluorobiphenyl</i>	95.9			34.0-125

Laboratory Control Sample (LCS)

(LCS) R4207916-1 04/30/25 14:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
1-Methylnaphthalene	0.0800	0.0638	79.8	51.0-121	
2-Methylnaphthalene	0.0800	0.0617	77.1	50.0-120	
<i>(S) p-Terphenyl-d14</i>			76.1	23.0-120	
<i>(S) Nitrobenzene-d5</i>			96.9	14.0-149	
<i>(S) 2-Fluorobiphenyl</i>			90.0	34.0-125	

L1851481-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1851481-18 04/30/25 18:55 • (MS) R4207916-3 04/30/25 19:13 • (MSD) R4207916-4 04/30/25 19:31

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 %
1-Methylnaphthalene	0.0788	U	0.0547	0.0580	69.4	73.2	1	10.0-142			5.86	28
2-Methylnaphthalene	0.0788	U	0.0536	0.0561	68.0	70.8	1	10.0-137			4.56	28
<i>(S) p-Terphenyl-d14</i>					61.6	63.9		23.0-120				
<i>(S) Nitrobenzene-d5</i>					92.6	94.6		14.0-149				
<i>(S) 2-Fluorobiphenyl</i>					75.5	77.8		34.0-125				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

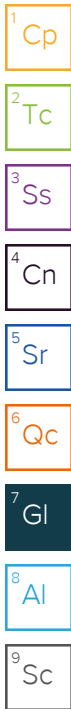
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
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
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.



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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Scout Energy Partners
100 Chevron Road
Rangely, CO 81648

Billing Information:

Same as left

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page of



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

L# L1851042
 Table # **K043**

Accnum: **SCOENERCO**

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Remarks Sample # (lab only)

Report to:

Cody Christian

Email To:

cody.christian@scoutep.com

Project

Description: **MC Hagood A8 Spill**

City/State

Collected: **CO**

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

Client Project #

Lab Project #

Fax:

Collected by (print):

BA

Site/Facility ID #

P.O. #

Collected by (signature):

BA

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

Immediately

Packed on Ice N Y

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TPH-ORO	TMBs	1 and 2-methylnaphthalene	HSB	Hex Chromium	SAR	EC	Remarks	Sample # (lab only)
HA8-SS1	Grab	SS	0-6"	4/23/25	1235	3	X	X	X	X	X	X	X		01
HA8-SS2	Grab	SS	0-6"		1240	3	X	X	X	X	X	X	X		02
HA8-SS3	Grab	SS	0-6"		1245	3	X	X	X	X	X	X	X		03
HA8-SS4	Grab	SS	0-6"		1250	3	X	X	X	X	X	X	X		04
HA8-BG2	Grab	SS	0-6"		1300	2						X	X		05

* Matrix:

SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

UPS FedEx Courier

Tracking #

MV/H

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)

BA

Date:

4/23/25

Time:

1700

Received by: (Signature)

[Signature]

Trip Blank Received: Yes / No

HCL / MeOH
TBR

Relinquished by: (Signature)

[Signature]

Date:

4/24/25

Time:

1200

Received by: (Signature)

[Signature]

Temp: °C Bottles Received:

MV/H 19

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

4/25/25

Time:

0900

Received for lab by: (Signature)

[Signature]

Date:

4/25/25

Time:

0900

Hold:

Condition:

NCF / OK

