

**Scout Energy - Rangely, CO**

Sample Delivery Group: L1795606  
Samples Received: 11/05/2024  
Project Number:  
Description: Lateral Carney 21X-35 Spill

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

Entire Report Reviewed By:



Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

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# SAMPLE SUMMARY

## CT2135-SS1 L1795606-01 Solid

Collected by Spencer Rugland    Collected date/time 11/01/24 14:30    Received date/time 11/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2394624	1	11/06/24 18:33	11/07/24 05:20	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2401087	1	11/13/24 16:00	11/13/24 18:00	BRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2403552	1	11/18/24 12:51	11/19/24 11:24	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2399991	1.01	11/07/24 20:21	11/12/24 17:02	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2396256	200	11/06/24 08:05	11/07/24 00:59	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2396525	1	11/07/24 06:15	11/08/24 20:06	JRM	Mt. Juliet, TN



## CT2135-SS2 L1795606-02 Solid

Collected by Spencer Rugland    Collected date/time 11/01/24 14:50    Received date/time 11/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2398797	1	11/10/24 20:02	11/10/24 20:02	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2394624	1	11/06/24 18:33	11/07/24 05:38	EKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2398798	1	11/11/24 09:02	11/11/24 20:41	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2399991	1	11/07/24 20:21	11/12/24 17:21	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2396256	5	11/06/24 08:05	11/06/24 22:52	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2396525	1	11/07/24 06:15	11/08/24 17:28	JRM	Mt. Juliet, TN

## CT2135-SS3 L1795606-03 Solid

Collected by Spencer Rugland    Collected date/time 11/01/24 15:05    Received date/time 11/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2394624	1	11/06/24 18:33	11/07/24 05:51	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2401086	1	11/13/24 15:33	11/13/24 15:45	BRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2403552	1	11/18/24 12:51	11/19/24 11:26	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2399991	1	11/07/24 20:21	11/12/24 17:41	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2396311	1	11/06/24 11:25	11/07/24 13:15	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2396525	1	11/07/24 06:15	11/08/24 17:11	JRM	Mt. Juliet, TN

## CT2135-SS4 L1795606-04 Solid

Collected by Spencer Rugland    Collected date/time 11/01/24 15:25    Received date/time 11/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2394624	1	11/06/24 18:33	11/07/24 05:57	EKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2403552	1	11/18/24 12:51	11/19/24 11:27	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2399991	1	11/07/24 20:21	11/12/24 18:00	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2396311	1	11/06/24 11:25	11/07/24 13:02	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2396525	1	11/07/24 06:15	11/08/24 17:46	JRM	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

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	11/07/2024 05:20	<a href="#">WG2394624</a>

1 Cp

2 Tc

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	2670	umhos/cm		10.0	1	11/13/2024 18:00	<a href="#">WG2401087</a>

3 Ss

4 Cn

Sample Narrative:

L1795606-01 WG2401087: at 25C

5 Sr

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	1.52		0.0167	0.200	1	11/19/2024 11:24	<a href="#">WG2403552</a>

6 Qc

7 Gl

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		1.60	5.05	1.01	11/12/2024 17:02	<a href="#">WG2399991</a>
1,3,5-Trimethylbenzene	U		2.02	5.05	1.01	11/12/2024 17:02	<a href="#">WG2399991</a>
(S) Toluene-d8	108			75.0-131		11/12/2024 17:02	<a href="#">WG2399991</a>
(S) 4-Bromofluorobenzene	83.4			67.0-138		11/12/2024 17:02	<a href="#">WG2399991</a>
(S) 1,2-Dichloroethane-d4	78.3			70.0-130		11/12/2024 17:02	<a href="#">WG2399991</a>

8 Al

9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
C28-C36 Motor Oil Range	9310		54.8	800	200	11/07/2024 00:59	<a href="#">WG2396256</a>
(S) o-Terphenyl	0.000	J7		18.0-148		11/07/2024 00:59	<a href="#">WG2396256</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	0.0211		0.00449	0.0200	1	11/08/2024 20:06	<a href="#">WG2396525</a>
2-Methylnaphthalene	0.0225		0.00427	0.0200	1	11/08/2024 20:06	<a href="#">WG2396525</a>
(S) p-Terphenyl-d14	86.6			23.0-120		11/08/2024 20:06	<a href="#">WG2396525</a>
(S) Nitrobenzene-d5	96.9			14.0-149		11/08/2024 20:06	<a href="#">WG2396525</a>
(S) 2-Fluorobiphenyl	104			34.0-125		11/08/2024 20:06	<a href="#">WG2396525</a>

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.57		1	11/10/2024 20:02	WG2398797

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	11/07/2024 05:38	<a href="#">WG2394624</a>

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	1.58		0.0167	0.200	1	11/11/2024 20:41	<a href="#">WG2398798</a>

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

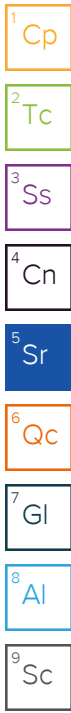
Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		1.58	5.00	1	11/12/2024 17:21	<a href="#">WG2399991</a>
1,3,5-Trimethylbenzene	U		2.00	5.00	1	11/12/2024 17:21	<a href="#">WG2399991</a>
(S) Toluene-d8	108			75.0-131		11/12/2024 17:21	<a href="#">WG2399991</a>
(S) 4-Bromofluorobenzene	85.4			67.0-138		11/12/2024 17:21	<a href="#">WG2399991</a>
(S) 1,2-Dichloroethane-d4	81.6			70.0-130		11/12/2024 17:21	<a href="#">WG2399991</a>

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	142		1.37	20.0	5	11/06/2024 22:52	<a href="#">WG2396256</a>
(S) o-Terphenyl	57.9			18.0-148		11/06/2024 22:52	<a href="#">WG2396256</a>

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.00449	0.0200	1	11/08/2024 17:28	<a href="#">WG2396525</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	11/08/2024 17:28	<a href="#">WG2396525</a>
(S) p-Terphenyl-d14	123	J1		23.0-120		11/08/2024 17:28	<a href="#">WG2396525</a>
(S) Nitrobenzene-d5	97.6			14.0-149		11/08/2024 17:28	<a href="#">WG2396525</a>
(S) 2-Fluorobiphenyl	116			34.0-125		11/08/2024 17:28	<a href="#">WG2396525</a>



Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Hexavalent Chromium	U		0.255	1.00	1	11/07/2024 05:51	<a href="#">WG2394624</a>

1 Cp

2 Tc

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis	Batch
pH	7.95	<u>T8</u>	1	11/13/2024 15:45	<a href="#">WG2401086</a>

3 Ss

4 Cn

Sample Narrative:

L1795606-03 WG2401086: 7.95 at 21.5C

5 Sr

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Hot Water Sol. Boron	0.853		0.0167	0.200	1	11/19/2024 11:26	<a href="#">WG2403552</a>

6 Qc

7 Gl

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
1,2,4-Trimethylbenzene	U		1.58	5.00	1	11/12/2024 17:41	<a href="#">WG2399991</a>
1,3,5-Trimethylbenzene	U		2.00	5.00	1	11/12/2024 17:41	<a href="#">WG2399991</a>
(S) Toluene-d8	108			75.0-131		11/12/2024 17:41	<a href="#">WG2399991</a>
(S) 4-Bromofluorobenzene	83.8			67.0-138		11/12/2024 17:41	<a href="#">WG2399991</a>
(S) 1,2-Dichloroethane-d4	83.7			70.0-130		11/12/2024 17:41	<a href="#">WG2399991</a>

8 Al

9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
C28-C36 Motor Oil Range	91.7		0.274	4.00	1	11/07/2024 13:15	<a href="#">WG2396311</a>
(S) o-Terphenyl	69.8			18.0-148		11/07/2024 13:15	<a href="#">WG2396311</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
1-Methylnaphthalene	0.0151	<u>J</u>	0.00449	0.0200	1	11/08/2024 17:11	<a href="#">WG2396525</a>
2-Methylnaphthalene	0.0358		0.00427	0.0200	1	11/08/2024 17:11	<a href="#">WG2396525</a>
(S) p-Terphenyl-d14	120			23.0-120		11/08/2024 17:11	<a href="#">WG2396525</a>
(S) Nitrobenzene-d5	106			14.0-149		11/08/2024 17:11	<a href="#">WG2396525</a>
(S) 2-Fluorobiphenyl	115			34.0-125		11/08/2024 17:11	<a href="#">WG2396525</a>

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Hexavalent Chromium	U		0.255	1.00	1	11/07/2024 05:57	<a href="#">WG2394624</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Hot Water Sol. Boron	0.776		0.0167	0.200	1	11/19/2024 11:27	<a href="#">WG2403552</a>

<sup>3</sup> Ss

<sup>4</sup> Cn

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
1,2,4-Trimethylbenzene	U		1.58	5.00	1	11/12/2024 18:00	<a href="#">WG2399991</a>
1,3,5-Trimethylbenzene	U		2.00	5.00	1	11/12/2024 18:00	<a href="#">WG2399991</a>
(S) Toluene-d8	107			75.0-131		11/12/2024 18:00	<a href="#">WG2399991</a>
(S) 4-Bromofluorobenzene	84.2			67.0-138		11/12/2024 18:00	<a href="#">WG2399991</a>
(S) 1,2-Dichloroethane-d4	84.0			70.0-130		11/12/2024 18:00	<a href="#">WG2399991</a>

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
C28-C36 Motor Oil Range	99.1		0.274	4.00	1	11/07/2024 13:02	<a href="#">WG2396311</a>
(S) o-Terphenyl	79.4			18.0-148		11/07/2024 13:02	<a href="#">WG2396311</a>

<sup>8</sup> Al

<sup>9</sup> Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
1-Methylnaphthalene	U		0.00449	0.0200	1	11/08/2024 17:46	<a href="#">WG2396525</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	11/08/2024 17:46	<a href="#">WG2396525</a>
(S) p-Terphenyl-d14	118			23.0-120		11/08/2024 17:46	<a href="#">WG2396525</a>
(S) Nitrobenzene-d5	98.5			14.0-149		11/08/2024 17:46	<a href="#">WG2396525</a>
(S) 2-Fluorobiphenyl	112			34.0-125		11/08/2024 17:46	<a href="#">WG2396525</a>

Method Blank (MB)

(MB) R4143269-1 11/07/24 03:08

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Hexavalent Chromium	U		0.255	1.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1795542-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1795542-01 11/07/24 04:55 • (DUP) R4143269-7 11/07/24 05:01

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

L1795606-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1795606-02 11/07/24 05:38 • (DUP) R4143269-8 11/07/24 05:44

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) R4143269-2 11/07/24 03:16

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Hexavalent Chromium	10.0	8.33	83.3	80.0-120	

L1794398-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1794398-19 11/07/24 03:22 • (MS) R4143269-4 11/07/24 03:35 • (MSD) R4143269-5 11/07/24 03:41

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	0.503	1.44	2.51	7.20	1	75.0-125	<u>J6</u>	<u>J3 J6</u>	96.4	20

L1794398-19 Original Sample (OS) • Matrix Spike (MS)

(OS) L1794398-19 11/07/24 03:22 • (MS) R4143269-9 11/07/24 03:47

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Hexavalent Chromium	648	U	463	71.5	50	75.0-125	<u>J6</u>

L1795606-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1795606-03 11/13/24 15:45 • (DUP) R4145587-2 11/13/24 15:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
pH	7.95	7.92	1	0.378		1

Sample Narrative:

OS: 7.95 at 21.5C

DUP: 7.92 at 21.5C

Laboratory Control Sample (LCS)

(LCS) R4145587-1 11/13/24 15:45

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

Sample Narrative:

LCS: 9.99 at 19.8C

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R4145688-1 11/13/24 18:00

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

L1797353-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1797353-01 11/13/24 18:00 • (DUP) R4145688-3 11/13/24 18:00

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Specific Conductance	967	961	1	0.622		20

Sample Narrative:

OS: at 25C  
DUP: at 25C

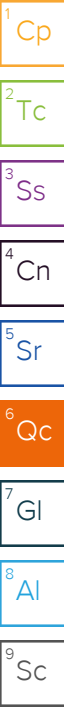
Laboratory Control Sample (LCS)

(LCS) R4145688-2 11/13/24 18:00

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	733	748	102	85.0-115	

Sample Narrative:

LCS: at 25C



Method Blank (MB)

(MB) R4144707-1 11/11/24 20:11

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) R4144707-2 11/11/24 20:13 • (LCSD) R4144707-3 11/11/24 20:15

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	1.02	1.02	102	102	80.0-120			0.212	20

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

Method Blank (MB)

(MB) R4147768-1 11/19/24 11:19

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) R4147768-2 11/19/24 11:21 • (LCSD) R4147768-3 11/19/24 11:22

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	1.05	1.08	105	108	80.0-120			2.10	20

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

Method Blank (MB)

(MB) R4145269-2 11/12/24 11:01

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
1,2,4-Trimethylbenzene	U		1.58	5.00
1,3,5-Trimethylbenzene	U		2.00	5.00
(S) Toluene-d8	108			75.0-131
(S) 4-Bromofluorobenzene	85.1			67.0-138
(S) 1,2-Dichloroethane-d4	85.2			70.0-130

Laboratory Control Sample (LCS)

(LCS) R4145269-1 11/12/24 09:42

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,4-Trimethylbenzene	125	106	84.8	70.0-126	
1,3,5-Trimethylbenzene	125	114	91.2	73.0-127	
(S) Toluene-d8			105	75.0-131	
(S) 4-Bromofluorobenzene			87.9	67.0-138	
(S) 1,2-Dichloroethane-d4			93.8	70.0-130	

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

Method Blank (MB)

(MB) R4143103-1 11/06/24 19:20

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>	75.1			18.0-148

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R4143361-1 11/07/24 12:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C28-C36 Motor Oil Range	U	<u>U</u>	0.274	4.00
(S) o-Terphenyl	71.5			18.0-148

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R4144584-2 11/08/24 10:42

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
(S) p-Terphenyl-d14	137	<u>J1</u>		23.0-120
(S) Nitrobenzene-d5	124			14.0-149
(S) 2-Fluorobiphenyl	131	<u>J1</u>		34.0-125

Laboratory Control Sample (LCS)

(LCS) R4144584-1 11/08/24 10:23

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
1-Methylnaphthalene	0.0800	0.0756	94.5	51.0-121	
2-Methylnaphthalene	0.0800	0.0743	92.9	50.0-120	
(S) p-Terphenyl-d14			134	23.0-120	<u>J1</u>
(S) Nitrobenzene-d5			125	14.0-149	
(S) 2-Fluorobiphenyl			132	34.0-125	<u>J1</u>

L1796000-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1796000-03 11/08/24 19:13 • (MS) R4146240-1 11/08/24 19:31 • (MSD) R4146240-2 11/08/24 19:48

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
1-Methylnaphthalene	0.0772	U	0.0743	0.0876	96.2	116	1	10.0-142			16.4	28
2-Methylnaphthalene	0.0772	U	0.0674	0.0912	87.3	121	1	10.0-137		<u>J3</u>	30.0	28
(S) p-Terphenyl-d14					129	135		23.0-120	<u>J1</u>	<u>J1</u>		
(S) Nitrobenzene-d5					118	123		14.0-149				
(S) 2-Fluorobiphenyl					129	136		34.0-125	<u>J1</u>	<u>J1</u>		

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

# 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.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

### Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
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.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
T8	Sample(s) received past/too close to holding time expiration.
U	Below Detectable Limits: Indicates that the analyte was not detected.

# ACCREDITATIONS & LOCATIONS

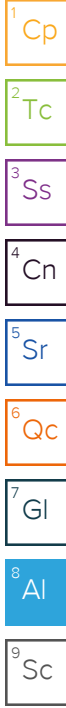
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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 <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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

Analysis / Container / Preservative

Chain of Custody Page \_\_\_ of \_\_\_

Pres  
Chk



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



Report to:  
**Chris Patterson**

Email To:  
**chris.patterson@scoutep.com**

Project Description:  
**Lateral Carney 21X-35 Spill**

City/State  
 Collected: **CO**

Phone: **1-970-501-5157**  
 Fax:

Client Project #

Lab Project #

Collected by (print):  
*Spencer England*

Site/Facility ID #

P.O. #

Collected by (signature):  
*S.R. England*

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	SpC	pH	SAR	Remarks	Sample # (lab only)
CT2135-SS1	Grab	SS	0-6"	11/01/24	1430	4	X	X	X	X	X	X				101
CT2135-SS2	Grab	SS	0-6"	11/01/24	1450	1	X	X	X	X	X			X		102
CT2135-SS3	Grab	SS	0-6"	11/01/24	1506	1	X	X	X	X	X		X			103
CT2135-SS4	Grab	SS	0-6"	11/01/24	1525	1	X	X	X	X	X					104

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

Remarks:

Samples returned via:

UPS  FedEx  Courier

Tracking #

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

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)  
*[Signature]*

Date: 11/04/24  
 Time: 1130

Received by: (Signature)  
*[Signature]*

Trip Blank Received: Yes  No   
 HCL/MeOH  
 TBR

Relinquished by: (Signature)  
*[Signature]*

Date: 11/4/24  
 Time: 1200

Received by: (Signature)  
*[Signature]*

Temp: °C  
 0-810.3-11  
 Bottles Received: 16

If preservation required by Login: Date/Time

Relinquished by: (Signature)  
*[Signature]*

Date: 11/5/24  
 Time: 0900

Received for lab by: (Signature)  
*Christopher Gallin*

Date: 11/5/24  
 Time: 0900

Hold:

Condition:  
 NCF / OK