

Caerus Oil and Gas

Sample Delivery Group: L1605390
Samples Received: 04/14/2023
Project Number:
Description: 9095

Report To: Brett M. , Jake J. , Blair R.
143 Diamond Avenue
Parachute, CO 81635

Entire Report Reviewed By:



Chris Ward
Project Manager

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¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

SAMPLE SUMMARY

20230413-OUSOURCE (18LOU-T) L1605390-01 GW

Collected by: Will Harmon
 Collected date/time: 04/13/23 09:05
 Received date/time: 04/14/23 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011 | WG2043683 | 1 | 04/18/23 15:44 | 04/18/23 15:44 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 353.2 | WG2041939 | 1 | 04/18/23 17:46 | 04/18/23 17:46 | AEC | Mt. Juliet, TN |
| Wet Chemistry by Method 365.4 | WG2043252 | 1 | 04/15/23 16:28 | 04/17/23 11:48 | CAT | Mt. Juliet, TN |
| Wet Chemistry by Method 9040C | WG2042447 | 1 | 04/18/23 14:32 | 04/18/23 14:32 | DB | Mt. Juliet, TN |
| Wet Chemistry by Method 9050A | WG2044673 | 1 | 04/20/23 15:53 | 04/20/23 15:53 | NTG | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2042418 | 10 | 04/15/23 02:31 | 04/15/23 02:31 | GEB | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2042418 | 100 | 04/15/23 07:34 | 04/15/23 07:34 | GEB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2042511 | 1 | 04/18/23 01:29 | 04/19/23 00:30 | ABL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2042511 | 20 | 04/18/23 01:29 | 04/19/23 14:00 | ABL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG2042511 | 5 | 04/18/23 01:29 | 04/19/23 13:57 | ABL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG2043016 | 50 | 04/17/23 17:42 | 04/17/23 17:42 | JTO | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2042982 | 50 | 04/17/23 06:36 | 04/17/23 06:36 | JCP | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2043988 | 1000 | 04/19/23 02:06 | 04/19/23 02:06 | JBE | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2042491 | 1 | 04/15/23 21:09 | 04/16/23 07:24 | MAA | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2042491 | 1 | 04/15/23 21:09 | 04/19/23 06:19 | MWS | 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

Wet Chemistry by Method 2320 B-2011

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | | date / time | |
| Alkalinity | 771 | | 8.45 | 20.0 | 1 | 04/18/2023 15:44 | WG2043683 |
| Alkalinity,Bicarbonate | 771 | | 8.45 | 20.0 | 1 | 04/18/2023 15:44 | WG2043683 |
| Alkalinity,Carbonate | U | | 8.45 | 20.0 | 1 | 04/18/2023 15:44 | WG2043683 |

Sample Narrative:

L1605390-01 WG2043683: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 353.2

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------------|--------|-----------|--------|-------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | | date / time | |
| Nitrate-Nitrite | U | | 0.0500 | 0.100 | 1 | 04/18/2023 17:46 | WG2041939 |

Wet Chemistry by Method 365.4

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|--------|-------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | | date / time | |
| Phosphorus,Total | 1.07 | | 0.0350 | 0.100 | 1 | 04/17/2023 11:48 | WG2043252 |

Wet Chemistry by Method 9040C

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---------|--------|--------------------|----------|------------------|---------------------------|
| | pH | | | date / time | |
| pH | 6.83 | T8 | 1 | 04/18/2023 14:32 | WG2042447 |

Sample Narrative:

L1605390-01 WG2042447: 6.83 at 19.8C

Wet Chemistry by Method 9050A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|----------|-----------|----------|----------|------------------|---------------------------|
| | umhos/cm | | umhos/cm | | date / time | |
| Specific Conductance | 44600 | | 10.0 | 1 | 04/20/2023 15:53 | WG2044673 |

Sample Narrative:

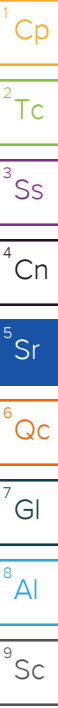
L1605390-01 WG2044673: at 25C

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|----------------|--------|-----------|-------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | | date / time | |
| Bromide | 130 | | 3.53 | 10.0 | 10 | 04/15/2023 02:31 | WG2042418 |
| Chloride | 16000 | | 37.9 | 100 | 100 | 04/15/2023 07:34 | WG2042418 |
| Fluoride | U | | 0.640 | 1.50 | 10 | 04/15/2023 02:31 | WG2042418 |
| Nitrate as (N) | U | | 0.480 | 1.00 | 10 | 04/15/2023 02:31 | WG2042418 |
| Nitrite as (N) | U | | 0.420 | 1.00 | 10 | 04/15/2023 02:31 | WG2042418 |
| Sulfate | U | | 5.94 | 50.0 | 10 | 04/15/2023 02:31 | WG2042418 |

Metals (ICP) by Method 6010B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------|--------|-----------|----------|--------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | | date / time | |
| Barium | 186 | | 0.00368 | 0.0250 | 5 | 04/19/2023 13:57 | WG2042511 |
| Boron | 5.60 | | 0.0200 | 0.200 | 1 | 04/19/2023 00:30 | WG2042511 |
| Calcium | 247 | | 0.0793 | 1.00 | 1 | 04/19/2023 00:30 | WG2042511 |
| Iron | 25.2 | | 0.0180 | 0.100 | 1 | 04/19/2023 00:30 | WG2042511 |
| Magnesium | 31.6 | | 0.0853 | 1.00 | 1 | 04/19/2023 00:30 | WG2042511 |
| Manganese | 0.471 | | 0.000934 | 0.0100 | 1 | 04/19/2023 00:30 | WG2042511 |
| Potassium | 73.3 | | 0.261 | 2.00 | 1 | 04/19/2023 00:30 | WG2042511 |



Metals (ICP) by Method 6010B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-----------|--------|-----------|---------|--------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | | date / time | |
| Selenium | U | | 0.00735 | 0.0100 | 1 | 04/19/2023 00:30 | WG2042511 |
| Sodium | 9580 | | 10.1 | 60.0 | 20 | 04/19/2023 14:00 | WG2042511 |
| Strontium | 34.0 | | 0.00320 | 0.0500 | 5 | 04/19/2023 13:57 | WG2042511 |

1 Cp

2 Tc

3 Ss

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

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|--------|-----------|------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | | date / time | |
| TPH (GC/FID) Low Fraction | 109 | | 1.57 | 5.00 | 50 | 04/17/2023 17:42 | WG2043016 |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 108 | | | 78.0-120 | | 04/17/2023 17:42 | WG2043016 |

4 Cn

5 Sr

6 Qc

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

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|----------------------------------|--------|-----------|---------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | | date / time | |
| Benzene | 8.73 | | 0.00471 | 0.0500 | 50 | 04/17/2023 06:36 | WG2042982 |
| Toluene | 17.2 | | 0.278 | 1.00 | 1000 | 04/19/2023 02:06 | WG2043988 |
| Ethylbenzene | 0.703 | | 0.00685 | 0.0500 | 50 | 04/17/2023 06:36 | WG2042982 |
| Xylenes, Total | 11.4 | | 0.00870 | 0.150 | 50 | 04/17/2023 06:36 | WG2042982 |
| Naphthalene | U | | 0.0500 | 0.250 | 50 | 04/17/2023 06:36 | WG2042982 |
| (S) <i>Toluene-d8</i> | 113 | | | 80.0-120 | | 04/17/2023 06:36 | WG2042982 |
| (S) <i>Toluene-d8</i> | 109 | | | 80.0-120 | | 04/19/2023 02:06 | WG2043988 |
| (S) <i>4-Bromofluorobenzene</i> | 114 | | | 77.0-126 | | 04/17/2023 06:36 | WG2042982 |
| (S) <i>4-Bromofluorobenzene</i> | 110 | | | 77.0-126 | | 04/19/2023 02:06 | WG2043988 |
| (S) <i>1,2-Dichloroethane-d4</i> | 108 | | | 70.0-130 | | 04/17/2023 06:36 | WG2042982 |
| (S) <i>1,2-Dichloroethane-d4</i> | 111 | | | 70.0-130 | | 04/19/2023 02:06 | WG2043988 |

7 Gl

8 Al

9 Sc

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

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------------------|--------|-----------|--------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | mg/l | | date / time | |
| C10-C28 Diesel Range | 9.65 | | 0.0222 | 0.100 | 1 | 04/16/2023 07:24 | WG2042491 |
| C28-C36 Motor Oil Range | 0.956 | | 0.0118 | 0.100 | 1 | 04/19/2023 06:19 | WG2042491 |
| (S) <i>o</i> -Terphenyl | 126 | | | 52.0-156 | | 04/16/2023 07:24 | WG2042491 |
| (S) <i>o</i> -Terphenyl | 129 | | | 52.0-156 | | 04/19/2023 06:19 | WG2042491 |

Sample Narrative:

L1605390-01 WG2042491: Surrogate failure due to matrix interference

Method Blank (MB)

(MB) R3914531-2 04/18/23 13:01

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------------------|-----------|--------------|--------|--------|
| Alkalinity | U | | 8.45 | 20.0 |
| Alkalinity,Bicarbonate | U | | 8.45 | 20.0 |
| Alkalinity,Carbonate | U | | 8.45 | 20.0 |

Sample Narrative:

BLANK: Endpoint pH 4.5

L1604571-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1604571-01 04/18/23 13:19 • (DUP) R3914531-3 04/18/23 13:25

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | 90.1 | 91.3 | 1 | 1.34 | | 20 |
| Alkalinity,Bicarbonate | 90.1 | 91.3 | 1 | 1.34 | | 20 |
| Alkalinity,Carbonate | U | U | 1 | 0.000 | | 20 |

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1605390-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1605390-01 04/18/23 15:44 • (DUP) R3914531-4 04/18/23 15:48

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | 771 | 770 | 1 | 0.0607 | | 20 |
| Alkalinity,Bicarbonate | 771 | 770 | 1 | 0.0607 | | 20 |
| Alkalinity,Carbonate | U | U | 1 | 0.000 | | 20 |

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5



Laboratory Control Sample (LCS)

(LCS) R3914531-1 04/18/23 12:53

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | <u>LCS Qualifier</u> |
|------------|----------------------|--------------------|---------------|------------------|----------------------|
| Alkalinity | 100 | 103 | 103 | 90.0-110 | |

Sample Narrative:

LCS: Endpoint pH 4.5

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3914579-1 04/18/23 17:19

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|-----------------|-----------|--------------|--------|--------|
| Nitrate-Nitrite | U | | 0.0500 | 0.100 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1604765-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1604765-01 04/18/23 17:26 • (DUP) R3914579-5 04/18/23 17:27

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|-----------------|-----------------|------------|----------|---------|---------------|----------------|
| Nitrate-Nitrite | 0.474 | 0.481 | 1 | 1.47 | | 20 |

L1605056-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1605056-01 04/18/23 18:02 • (DUP) R3914579-8 04/18/23 18:08

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|-----------------|-----------------|------------|----------|---------|---------------|----------------|
| Nitrate-Nitrite | 2.84 | 2.84 | 1 | 0.000 | | 20 |

Laboratory Control Sample (LCS)

(LCS) R3914579-2 04/18/23 17:20

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|-----------------|--------------|------------|----------|-------------|---------------|
| Nitrate-Nitrite | 2.50 | 2.51 | 100 | 90.0-110 | |

L1604543-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1604543-01 04/18/23 17:22 • (MS) R3914579-3 04/18/23 17:23 • (MSD) R3914579-4 04/18/23 17:24

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|-----------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Nitrate-Nitrite | 2.50 | 0.650 | 3.06 | 3.00 | 96.4 | 94.0 | 1 | 90.0-110 | | | 1.98 | 20 |

L1604778-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1604778-01 04/18/23 17:34 • (MS) R3914579-6 04/18/23 17:36

| Analyte | Spike Amount | Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier |
|-----------------|--------------|-----------------|-----------|---------|----------|-------------|--------------|
| Nitrate-Nitrite | 2.50 | 3.83 | 5.99 | 86.4 | 1 | 90.0-110 | <u>EJ6</u> |

Method Blank (MB)

(MB) R3913925-1 04/17/23 11:25

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------------|-----------|--------------|--------|--------|
| Phosphorus,Total | U | | 0.0350 | 0.100 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1604922-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1604922-01 04/17/23 11:27 • (DUP) R3913925-3 04/17/23 11:28

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------------|-----------------|------------|----------|---------|---------------|----------------|
| Phosphorus,Total | 0.522 | 0.511 | 1 | 2.13 | | 20 |

L1605331-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1605331-01 04/17/23 12:24 • (DUP) R3913925-8 04/17/23 12:25

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------------|-----------------|------------|----------|---------|---------------|----------------|
| Phosphorus,Total | 4.02 | 3.95 | 1 | 1.76 | | 20 |

Laboratory Control Sample (LCS)

(LCS) R3913925-2 04/17/23 11:26

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------------|--------------|------------|----------|-------------|---------------|
| Phosphorus,Total | 2.47 | 2.50 | 101 | 83.2-116 | |

L1604922-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1604922-01 04/17/23 11:27 • (MS) R3913925-4 04/17/23 11:30 • (MSD) R3913925-5 04/17/23 11:31

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| Phosphorus,Total | 2.50 | 0.522 | 2.97 | 2.96 | 97.9 | 97.5 | 1 | 90.0-110 | | | 0.337 | 20 |

L1605248-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1605248-08 04/18/23 14:32 • (DUP) R3914468-2 04/18/23 14:32

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
| su | su | | | % | | % |
| pH | 7.52 | 7.50 | 1 | 0.266 | | 1 |

Sample Narrative:

OS: 7.52 at 20.2C

DUP: 7.5 at 20.2C

L1605248-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1605248-10 04/18/23 14:32 • (DUP) R3914468-3 04/18/23 14:32

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
| su | su | | | % | | % |
| pH | 7.80 | 7.82 | 1 | 0.256 | | 1 |

Sample Narrative:

OS: 7.8 at 20.7C

DUP: 7.82 at 20.1C

Laboratory Control Sample (LCS)

(LCS) R3914468-1 04/18/23 14:32

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

Sample Narrative:

LCS: 10 at 19.3C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3915541-1 04/20/23 15:53

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------------|-----------|--------------|--------|--------|
| Specific Conductance | U | | 10.0 | 10.0 |

Sample Narrative:

BLANK: at 25C

L1605692-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1605692-01 04/20/23 15:53 • (DUP) R3915541-3 04/20/23 15:53

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------------------|-----------------|------------|----------|---------|---------------|----------------|
| Specific Conductance | 20200 | 20000 | 1 | 0.746 | | 20 |

Sample Narrative:

OS: at 25C
DUP: at 25C

L1605946-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1605946-01 04/20/23 15:53 • (DUP) R3915541-4 04/20/23 15:53

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------------------|-----------------|------------|----------|---------|---------------|----------------|
| Specific Conductance | 1730 | 1700 | 1 | 1.87 | | 20 |

Sample Narrative:

OS: at 25C
DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3915541-2 04/20/23 15:53

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------------------|--------------|------------|----------|-------------|---------------|
| Specific Conductance | 1120 | 1050 | 94.1 | 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) R3914303-1 04/14/23 22:57

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------|-----------|--------------|--------|--------|
| | mg/l | | mg/l | mg/l |
| Bromide | U | | 0.353 | 1.00 |
| Chloride | U | | 0.379 | 1.00 |
| Fluoride | U | | 0.0640 | 0.150 |
| Nitrate | U | | 0.0480 | 0.100 |
| Nitrite | U | | 0.0420 | 0.100 |
| Sulfate | U | | 0.594 | 5.00 |

L1605360-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1605360-01 04/15/23 01:28 • (DUP) R3914303-5 04/15/23 07:18

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
| | mg/l | mg/l | | % | | % |
| Bromide | 2.96 | 3.47 | 1 | 15.8 | P1 | 15 |
| Chloride | 106 | 107 | 1 | 0.938 | | 15 |
| Fluoride | U | U | 1 | 0.000 | | 15 |
| Nitrate | U | U | 1 | 0.000 | | 15 |
| Nitrite | U | U | 1 | 0.000 | | 15 |
| Sulfate | U | U | 1 | 0.000 | | 15 |

L1605431-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1605431-01 04/15/23 03:35 • (DUP) R3914303-6 04/15/23 09:09

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
| | mg/l | mg/l | | % | | % |
| Chloride | 115 | 116 | 1 | 1.07 | | 15 |
| Nitrate | U | U | 1 | 0.000 | | 15 |

Laboratory Control Sample (LCS)

(LCS) R3914303-2 04/14/23 23:13

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
| | mg/l | mg/l | % | % | |
| Bromide | 40.0 | 39.6 | 98.9 | 80.0-120 | |
| Chloride | 40.0 | 39.5 | 98.8 | 80.0-120 | |
| Fluoride | 8.00 | 7.64 | 95.6 | 80.0-120 | |
| Nitrate | 8.00 | 7.78 | 97.2 | 80.0-120 | |
| Nitrite | 8.00 | 8.20 | 102 | 80.0-120 | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3914303-2 04/14/23 23:13

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | <u>LCS Qualifier</u> |
|---------|----------------------|--------------------|---------------|------------------|----------------------|
| Sulfate | 40.0 | 39.4 | 98.6 | 80.0-120 | |

L1605291-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1605291-01 04/15/23 01:12 • (MS) R3914303-3 04/15/23 06:30 • (MSD) R3914303-4 04/15/23 06:46

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | <u>MS Qualifier</u> | <u>MSD Qualifier</u> | RPD % | RPD Limits % |
|----------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|---------------------|----------------------|----------|-----------------|
| Bromide | 50.0 | U | 39.7 | 38.8 | 79.4 | 77.6 | 1 | 80.0-120 | <u>J6</u> | <u>J6</u> | 2.29 | 15 |
| Chloride | 50.0 | 60.6 | 107 | 108 | 93.3 | 94.6 | 1 | 80.0-120 | | | 0.593 | 15 |
| Fluoride | 5.00 | 0.433 | 4.85 | 4.90 | 88.4 | 89.4 | 1 | 80.0-120 | | | 0.963 | 15 |
| Nitrate | 5.00 | 1.39 | 7.66 | 7.54 | 125 | 123 | 1 | 80.0-120 | <u>J5</u> | <u>J5</u> | 1.65 | 15 |
| Nitrite | 5.00 | 0.122 | 5.19 | 5.28 | 101 | 103 | 1 | 80.0-120 | | | 1.66 | 15 |
| Sulfate | 50.0 | 416 | 462 | 463 | 90.3 | 92.2 | 1 | 80.0-120 | <u>E</u> | <u>E</u> | 0.203 | 15 |

L1605431-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1605431-01 04/15/23 03:35 • (MS) R3914303-7 04/15/23 09:25

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MS Rec. % | Dilution | Rec. Limits % | <u>MS Qualifier</u> |
|----------|----------------------|-------------------------|-------------------|--------------|----------|------------------|---------------------|
| Chloride | 50.0 | 115 | 160 | 88.9 | 1 | 80.0-120 | |
| Nitrate | 5.00 | U | 5.10 | 102 | 1 | 80.0-120 | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3914703-1 04/18/23 23:14

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|-----------|-----------|--------------|----------|---------|
| | mg/l | | mg/l | mg/l |
| Barium | U | | 0.000736 | 0.00500 |
| Boron | U | | 0.0200 | 0.200 |
| Calcium | U | | 0.0793 | 1.00 |
| Iron | U | | 0.0180 | 0.100 |
| Magnesium | U | | 0.0853 | 1.00 |
| Manganese | U | | 0.000934 | 0.0100 |
| Potassium | U | | 0.261 | 2.00 |
| Selenium | U | | 0.00735 | 0.0100 |
| Sodium | U | | 0.504 | 3.00 |
| Strontium | U | | 0.000640 | 0.0100 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3914703-2 04/18/23 23:16

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|-----------|--------------|------------|----------|-------------|---------------|
| | mg/l | mg/l | % | % | |
| Barium | 1.00 | 0.967 | 96.7 | 80.0-120 | |
| Boron | 1.00 | 0.956 | 95.6 | 80.0-120 | |
| Calcium | 10.0 | 9.32 | 93.2 | 80.0-120 | |
| Iron | 10.0 | 9.46 | 94.6 | 80.0-120 | |
| Magnesium | 10.0 | 9.24 | 92.4 | 80.0-120 | |
| Manganese | 1.00 | 0.992 | 99.2 | 80.0-120 | |
| Potassium | 10.0 | 9.84 | 98.4 | 80.0-120 | |
| Selenium | 1.00 | 0.973 | 97.3 | 80.0-120 | |
| Sodium | 10.0 | 8.40 | 84.0 | 80.0-120 | |
| Strontium | 1.00 | 0.977 | 97.7 | 80.0-120 | |

L1605360-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1605360-01 04/18/23 23:19 • (MS) R3914703-4 04/18/23 23:24 • (MSD) R3914703-5 04/18/23 23:27

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|-----------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|--------|------------|
| | mg/l | mg/l | mg/l | mg/l | % | % | | % | | | % | % |
| Barium | 1.00 | 0.264 | 1.21 | 1.24 | 95.0 | 97.2 | 1 | 75.0-125 | | | 1.75 | 20 |
| Boron | 1.00 | U | 0.968 | 0.968 | 96.8 | 96.8 | 1 | 75.0-125 | | | 0.0222 | 20 |
| Calcium | 10.0 | 12.7 | 21.4 | 21.2 | 86.6 | 84.6 | 1 | 75.0-125 | | | 0.944 | 20 |
| Iron | 10.0 | 5.62 | 14.7 | 14.5 | 90.8 | 89.1 | 1 | 75.0-125 | | | 1.15 | 20 |
| Magnesium | 10.0 | 7.15 | 15.9 | 15.8 | 87.0 | 86.1 | 1 | 75.0-125 | | | 0.588 | 20 |
| Manganese | 1.00 | 0.0902 | 1.05 | 1.04 | 95.7 | 95.4 | 1 | 75.0-125 | | | 0.239 | 20 |
| Potassium | 10.0 | 2.78 | 12.3 | 12.3 | 95.5 | 95.1 | 1 | 75.0-125 | | | 0.359 | 20 |

L1605360-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1605360-01 04/18/23 23:19 • (MS) R3914703-4 04/18/23 23:24 • (MSD) R3914703-5 04/18/23 23:27

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|-----------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Selenium | 1.00 | U | 0.964 | 0.983 | 96.4 | 98.3 | 1 | 75.0-125 | | | 2.02 | 20 |
| Sodium | 10.0 | 51.3 | 58.7 | 58.7 | 74.3 | 74.1 | 1 | 75.0-125 | ⚡ | ⚡ | 0.0352 | 20 |
| Strontium | 1.00 | 0.0960 | 1.06 | 1.05 | 96.0 | 94.9 | 1 | 75.0-125 | | | 1.00 | 20 |

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

Method Blank (MB)

(MB) R3914582-2 04/17/23 11:10

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|-------------------|--------------|----------------|----------------|
| TPH (GC/FID) Low Fraction | U | | 0.0314 | 0.100 |
| ^(S) a,a,a-Trifluorotoluene(FID) | 114 | | | 78.0-120 |

Laboratory Control Sample (LCS)

(LCS) R3914582-1 04/17/23 10:14

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|----------------------|--------------------|---------------|------------------|---------------|
| TPH (GC/FID) Low Fraction | 5.50 | 5.68 | 103 | 72.0-127 | |
| ^(S) a,a,a-Trifluorotoluene(FID) | | | 113 | 78.0-120 | |

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3914395-2 04/17/23 01:31

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------------------------|-----------|--------------|-----------|----------|
| | mg/l | | mg/l | mg/l |
| Benzene | U | | 0.0000941 | 0.00100 |
| Ethylbenzene | U | | 0.000137 | 0.00100 |
| Xylenes, Total | U | | 0.000174 | 0.00300 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| (S) Toluene-d8 | 109 | | | 80.0-120 |
| (S) 4-Bromofluorobenzene | 108 | | | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 107 | | | 70.0-130 |

Laboratory Control Sample (LCS)

(LCS) R3914395-1 04/17/23 00:53

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------------------------|--------------|------------|----------|-------------|---------------|
| | mg/l | mg/l | % | % | |
| Benzene | 0.00500 | 0.00581 | 116 | 70.0-123 | |
| Ethylbenzene | 0.00500 | 0.00526 | 105 | 79.0-123 | |
| Xylenes, Total | 0.0150 | 0.0156 | 104 | 79.0-123 | |
| Naphthalene | 0.00500 | 0.00443 | 88.6 | 54.0-135 | |
| (S) Toluene-d8 | | | 108 | 80.0-120 | |
| (S) 4-Bromofluorobenzene | | | 104 | 77.0-126 | |
| (S) 1,2-Dichloroethane-d4 | | | 108 | 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) R3914785-3 04/18/23 19:37

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---------------------------|-------------------|--------------|----------------|----------------|
| Toluene | U | | 0.000278 | 0.00100 |
| (S) Toluene-d8 | 110 | | | 80.0-120 |
| (S) 4-Bromofluorobenzene | 106 | | | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 111 | | | 70.0-130 |

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

(LCS) R3914785-1 04/18/23 18:40 • (LCSD) R3914785-2 04/18/23 18:59

| 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 % |
|---------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Toluene | 0.00500 | 0.00559 | 0.00555 | 112 | 111 | 79.0-120 | | | 0.718 | 20 |
| (S) Toluene-d8 | | | | 108 | 106 | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | 106 | 113 | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 104 | 109 | 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) R3914464-1 04/16/23 03:07

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|-------------------------|-------------------|--------------|----------------|----------------|
| C10-C28 Diesel Range | 0.0361 | ↓ | 0.0222 | 0.100 |
| C28-C36 Motor Oil Range | U | | 0.0118 | 0.100 |
| (S) o-Terphenyl | 108 | | | 52.0-156 |

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

(LCS) R3914464-2 04/16/23 03:29 • (LCSD) R3914464-3 04/16/23 03:51

| 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 % |
|----------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| C10-C28 Diesel Range | 1.50 | 1.56 | 1.65 | 104 | 110 | 50.0-150 | | | 5.61 | 20 |
| (S) o-Terphenyl | | | | 97.0 | 103 | 52.0-156 | | | | |

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

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

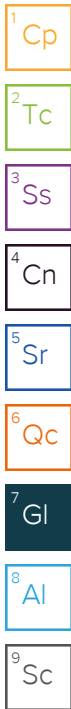
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

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

| Qualifier | Description |
|-----------|---|
| E | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| P1 | RPD value not applicable for sample concentrations less than 5 times the reporting limit. |
| T8 | Sample(s) received past/too close to holding time expiration. |
| V | The sample concentration is too high to evaluate accurate spike recoveries. |



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|-------------------------------|-------------|-----------------------------|------------------|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey-NELAP | TN002 |
| California | 2932 | New Mexico ¹ | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina ¹ | DW21704 |
| Georgia | NELAP | North Carolina ³ | 41 |
| Georgia ¹ | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio-VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | 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

Report to: **Blair Rollins**
 Project Description: **9095**
 City/State Collected: **Parachute, CO**
 Please Circle: **PT** **MT** **CT** **ET**

Email To: **JJanicek@caerusoilandgas.com; brollins@caerus**
 Client Project #
 Site/Facility ID #
 Lab Project #
 P.O. #
 Quote #

| | | | | | | | | | | | | | | | | | | | | |
|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Pres Chk | | | | | | | | | | | | | | | | | | | | |
|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

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

Phone: **970-285-2653**
 Collected by (print): **Will Harmon**
 Collected by (signature): *[Signature]*
 Immediately Packed on Ice N Y

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day
 Date Results Needed: **ASAP**

| | | | | | | | | | |
|----------------------------------|------------------------------|-------------------------|-----------------|--------------------|-----------------------------|------------------------|--------------------|--------------------|-----------------------------|
| ALK,ALKBI,ALKCA 250mlHDPE-NoPres | Br,Cl,F,SO4 250mlHDPE-NoPres | DRONMLVI 40mlAmb-HCl-BT | GRO 40mlAmb HCl | PT 250mlHDPE-H2SO4 | RA-226/228 1L-HDPE-Add-HNO3 | SPCON 250mlHDPE-NoPres | TDS 1L-HDPE NoPres | TSS 1L-HDPE NoPres | Total Metals 250mlHDPE-HNO3 |
|----------------------------------|------------------------------|-------------------------|-----------------|--------------------|-----------------------------|------------------------|--------------------|--------------------|-----------------------------|

SDG # **L605390**
 Table # **W12**
 Acctnum: **CAERUSPCO**
 Template: **T215555**
 Prelogin: **P974370**
 PM: **824 - Chris Ward**
 Shipped Via: **FedEX Ground**
 Remarks Sample # (lab only)

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | ALK,ALKBI,ALKCA 250mlHDPE-NoPres | Br,Cl,F,SO4 250mlHDPE-NoPres | DRONMLVI 40mlAmb-HCl-BT | GRO 40mlAmb HCl | PT 250mlHDPE-H2SO4 | RA-226/228 1L-HDPE-Add-HNO3 | SPCON 250mlHDPE-NoPres | TDS 1L-HDPE NoPres | TSS 1L-HDPE NoPres | Total Metals 250mlHDPE-HNO3 |
|------------------------------|-----------|----------|---------|---------|------|--------------|----------------------------------|------------------------------|-------------------------|-----------------|--------------------|-----------------------------|------------------------|--------------------|--------------------|-----------------------------|
| 20230413- Ousource (18Lou-7) | grab | GW | Surface | 4/13/23 | 0905 | 17 | X | X | X | X | X | X | X | X | X | X |
| | | GW | | | | 17 | X | X | X | X | X | X | X | X | X | X |
| | | GW | | | | 17 | X | X | X | X | X | X | X | X | X | X |
| | | GW | | | | 17 | X | X | X | X | X | X | X | X | X | X |
| | | GW | | | | 17 | X | X | X | X | X | X | X | X | X | X |
| | | GW | | | | 17 | X | X | X | X | X | X | X | X | X | X |
| | | GW | | | | 17 | X | X | X | X | X | X | X | X | X | X |
| | | GW | | | | 17 | X | X | X | X | X | X | X | X | X | X |
| | | GW | | | | 17 | X | X | X | X | X | X | X | X | X | X |
| | | GW | | | | 17 | X | X | X | X | X | X | X | X | X | X |

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

Remarks: **Metals - Ba,B,Ca,Fe,K,Mg,Mn,Na,Se,Sr**
 pH _____ Temp _____
 Flow _____ Other _____
 Samples returned via: UPS FedEx Courier
 Tracking #

Sample Receipt Checklist

| | | | |
|-------------------------------|-----------------------------|---------------------------------------|----------------------------|
| COC Seal Present/Intact: | <input type="checkbox"/> NP | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| COC Signed/Accurate: | <input type="checkbox"/> | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| Bottles arrive intact: | <input type="checkbox"/> | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| Correct bottles used: | <input type="checkbox"/> | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| Sufficient volume sent: | <input type="checkbox"/> | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| If Applicable | | | |
| VOA Zero Headspace: | <input type="checkbox"/> | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| Preservation Correct/Checked: | <input type="checkbox"/> | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| RAD Screen <0.5 mR/hr: | <input type="checkbox"/> | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |

Relinquished by: (Signature) *[Signature]*
 Date: **4/13/23**
 Time: **1500**

Received by: (Signature) *[Signature]*
 Date: **4/13/23**
 Time: **1530**

Received for lab by: (Signature) *[Signature]*
 Date: **4/14/23**
 Time: **0915**

Trip Blank Received: Yes / No
 HCL / MeOH TBR
 Temp: **4.9°C to 4.9°C**
 Bottles Received: **17**

If preservation required by Login: Date/Time
 Hold:
 Condition: **NCF / OK**

