

Caerus Oil and Gas

Sample Delivery Group: L1757520
Samples Received: 07/17/2024
Project Number:
Description: J14-496 238-14 Flowline Release
Site: J14-496
Report To: Jake J. / Brett M. / Blair R. / Andy V.
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

20240715-ELU J14 496-(23B-14-POR)@4 L1757520-01 Solid

Collected by Olivia Floyd
Collected date/time 07/15/24 10:15
Received date/time 07/17/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|-----------------------|
| Wet Chemistry by Method 7199 | WG2325683 | 1 | 07/26/24 00:08 | 07/26/24 14:48 | EKB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG2328388 | 1 | 07/21/24 21:44 | 07/23/24 17:27 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2327819 | 1 | 07/21/24 21:44 | 07/23/24 05:19 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2329372 | 1 | 07/24/24 17:19 | 07/24/24 22:53 | JAS | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2329372 | 5 | 07/24/24 17:19 | 07/25/24 01:46 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2328846 | 1 | 07/24/24 11:36 | 07/24/24 21:48 | MKM | Mt. Juliet, TN |
| Subcontracted Analyses | WG2325486 | 1 | 08/13/24 00:00 | 08/13/24 00:00 | - | Minneapolis, MN 55414 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

20240715-ELU J14 496-(23B-14-BASE)@3 L1757520-02 Solid

Collected by Olivia Floyd
Collected date/time 07/15/24 10:40
Received date/time 07/17/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|-----------------------|
| Wet Chemistry by Method 7199 | WG2325683 | 1 | 07/26/24 00:08 | 07/26/24 14:57 | EKB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG2328388 | 1 | 07/21/24 21:44 | 07/23/24 17:49 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2327819 | 1 | 07/21/24 21:44 | 07/23/24 05:38 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2329372 | 1 | 07/24/24 17:19 | 07/24/24 22:28 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2328846 | 1 | 07/24/24 11:36 | 07/24/24 22:05 | MKM | Mt. Juliet, TN |
| Subcontracted Analyses | WG2325486 | 1 | 08/13/24 00:00 | 08/13/24 00:00 | - | Minneapolis, MN 55414 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

20240715-ELU J14 496-(23B-14-NW)@4 L1757520-03 Solid

Collected by Olivia Floyd
Collected date/time 07/15/24 10:05
Received date/time 07/17/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|-----------------------|
| Wet Chemistry by Method 7199 | WG2325683 | 1 | 07/26/24 00:08 | 07/26/24 15:06 | EKB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG2328388 | 1 | 07/21/24 21:44 | 07/23/24 18:16 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2327819 | 1.01 | 07/21/24 21:44 | 07/23/24 05:57 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2329372 | 1 | 07/24/24 17:19 | 07/24/24 22:40 | JAS | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2329372 | 5 | 07/24/24 17:19 | 07/25/24 01:34 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2328846 | 1 | 07/24/24 11:36 | 07/24/24 21:13 | MKM | Mt. Juliet, TN |
| Subcontracted Analyses | WG2325486 | 1 | 08/13/24 00:00 | 08/13/24 00:00 | - | Minneapolis, MN 55414 |

20240715-ELU J14 496-(23B-14-SW)@2 L1757520-04 Solid

Collected by Olivia Floyd
Collected date/time 07/15/24 10:35
Received date/time 07/17/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|-----------------------|
| Wet Chemistry by Method 7199 | WG2325683 | 1 | 07/26/24 00:08 | 07/26/24 15:32 | EKB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG2328388 | 1 | 07/21/24 21:44 | 07/23/24 18:48 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2327819 | 1 | 07/21/24 21:44 | 07/23/24 06:16 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2329372 | 1 | 07/24/24 17:19 | 07/25/24 00:07 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2328846 | 1 | 07/24/24 11:36 | 07/24/24 22:57 | MKM | Mt. Juliet, TN |
| Subcontracted Analyses | WG2325486 | 1 | 08/13/24 00:00 | 08/13/24 00:00 | - | Minneapolis, MN 55414 |

20240715-ELU J14 496-(23B-14-EW)@3.5 L1757520-05 Solid

Collected by Olivia Floyd
Collected date/time 07/15/24 10:20
Received date/time 07/17/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 7199 | WG2325683 | 1 | 07/26/24 00:08 | 07/26/24 15:41 | EKB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG2328388 | 1 | 07/21/24 21:44 | 07/23/24 19:09 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2327819 | 1 | 07/21/24 21:44 | 07/23/24 06:35 | ACG | Mt. Juliet, TN |

SAMPLE SUMMARY

| 20240715-ELU J14 496-(23B-14-EW)@3.5 L1757520-05 Solid | | | | Collected by Olivia Floyd | Collected date/time 07/15/24 10:20 | Received date/time 07/17/24 09:00 |
|---|-----------|----------|--------------------------|------------------------------|---------------------------------------|--------------------------------------|
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2329372 | 5 | 07/24/24 17:19 | 07/24/24 23:42 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2328846 | 1 | 07/24/24 11:36 | 07/24/24 23:48 | MKM | Mt. Juliet, TN |
| Subcontracted Analyses | WG2325486 | 1 | 08/13/24 00:00 | 08/13/24 00:00 | - | Minneapolis, MN 55414 |

| 20240715-ELU J14 496-(23B-14-WW)@2.5 L1757520-06 Solid | | | | Collected by Olivia Floyd | Collected date/time 07/15/24 10:30 | Received date/time 07/17/24 09:00 |
|---|-----------|----------|--------------------------|------------------------------|---------------------------------------|--------------------------------------|
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Wet Chemistry by Method 7199 | WG2326501 | 1 | 07/26/24 00:14 | 07/26/24 11:37 | EKB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG2328388 | 1 | 07/21/24 21:44 | 07/23/24 19:30 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2327819 | 1 | 07/21/24 21:44 | 07/23/24 06:54 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2329372 | 1 | 07/24/24 17:19 | 07/24/24 22:03 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2328846 | 1 | 07/24/24 11:36 | 07/24/24 21:31 | MKM | Mt. Juliet, TN |
| Subcontracted Analyses | WG2325486 | 1 | 08/13/24 00:00 | 08/13/24 00:00 | - | Minneapolis, MN 55414 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Project Narrative

L1757520 -01, -02, -03, -04, -05, -06 contains subout data that is included after the chain of custody.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| Hexavalent Chromium | 0.292 | J | 0.255 | 1.00 | 1 | 07/26/2024 14:48 | WG2325683 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| TPH (GC/FID) Low Fraction | 0.149 | B | 0.0217 | 0.100 | 1 | 07/23/2024 17:27 | WG2328388 |
| (S) a,a,a-Trifluorotoluene(FID) | 102 | | | 77.0-120 | | 07/23/2024 17:27 | WG2328388 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| Benzene | 0.000825 | J | 0.000467 | 0.00100 | 1 | 07/23/2024 05:19 | WG2327819 |
| Toluene | 0.00423 | J | 0.00130 | 0.00500 | 1 | 07/23/2024 05:19 | WG2327819 |
| Ethylbenzene | 0.00100 | J | 0.000737 | 0.00250 | 1 | 07/23/2024 05:19 | WG2327819 |
| Xylenes, Total | 0.0132 | | 0.000880 | 0.00650 | 1 | 07/23/2024 05:19 | WG2327819 |
| 1,2,4-Trimethylbenzene | 0.00510 | | 0.00158 | 0.00500 | 1 | 07/23/2024 05:19 | WG2327819 |
| 1,3,5-Trimethylbenzene | 0.00807 | | 0.00200 | 0.00500 | 1 | 07/23/2024 05:19 | WG2327819 |
| (S) Toluene-d8 | 104 | | | 75.0-131 | | 07/23/2024 05:19 | WG2327819 |
| (S) 4-Bromofluorobenzene | 105 | | | 67.0-138 | | 07/23/2024 05:19 | WG2327819 |
| (S) 1,2-Dichloroethane-d4 | 91.4 | | | 70.0-130 | | 07/23/2024 05:19 | WG2327819 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| C10-C28 Diesel Range | 248 | | 1.61 | 4.00 | 1 | 07/24/2024 22:53 | WG2329372 |
| C28-C36 Motor Oil Range | 392 | | 1.37 | 20.0 | 5 | 07/25/2024 01:46 | WG2329372 |
| (S) o-Terphenyl | 51.6 | | | 18.0-148 | | 07/24/2024 22:53 | WG2329372 |
| (S) o-Terphenyl | 52.5 | | | 18.0-148 | | 07/25/2024 01:46 | WG2329372 |

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 |
|------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 07/24/2024 21:48 | WG2328846 |
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 07/24/2024 21:48 | WG2328846 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 07/24/2024 21:48 | WG2328846 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 07/24/2024 21:48 | WG2328846 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 07/24/2024 21:48 | WG2328846 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 07/24/2024 21:48 | WG2328846 |
| Chrysene | U | | 0.00232 | 0.00600 | 1 | 07/24/2024 21:48 | WG2328846 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 07/24/2024 21:48 | WG2328846 |
| Fluoranthene | U | | 0.00227 | 0.00600 | 1 | 07/24/2024 21:48 | WG2328846 |
| Fluorene | U | | 0.00205 | 0.00600 | 1 | 07/24/2024 21:48 | WG2328846 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 07/24/2024 21:48 | WG2328846 |
| 1-Methylnaphthalene | 0.0218 | | 0.00449 | 0.0200 | 1 | 07/24/2024 21:48 | WG2328846 |
| 2-Methylnaphthalene | 0.0503 | | 0.00427 | 0.0200 | 1 | 07/24/2024 21:48 | WG2328846 |
| Naphthalene | 0.0137 | J | 0.00408 | 0.0200 | 1 | 07/24/2024 21:48 | WG2328846 |
| Pyrene | U | | 0.00200 | 0.00600 | 1 | 07/24/2024 21:48 | WG2328846 |
| (S) p-Terphenyl-d14 | 72.1 | | | 23.0-120 | | 07/24/2024 21:48 | WG2328846 |
| (S) Nitrobenzene-d5 | 88.4 | | | 14.0-149 | | 07/24/2024 21:48 | WG2328846 |
| (S) 2-Fluorobiphenyl | 71.1 | | | 34.0-125 | | 07/24/2024 21:48 | WG2328846 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| Hexavalent Chromium | 0.317 | J | 0.255 | 1.00 | 1 | 07/26/2024 14:57 | WG2325683 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| TPH (GC/FID) Low Fraction | U | | 0.0217 | 0.100 | 1 | 07/23/2024 17:49 | WG2328388 |
| (S) a,a,a-Trifluorotoluene(FID) | 100 | | | 77.0-120 | | 07/23/2024 17:49 | WG2328388 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| Benzene | U | | 0.000467 | 0.00100 | 1 | 07/23/2024 05:38 | WG2327819 |
| Toluene | U | | 0.00130 | 0.00500 | 1 | 07/23/2024 05:38 | WG2327819 |
| Ethylbenzene | U | | 0.000737 | 0.00250 | 1 | 07/23/2024 05:38 | WG2327819 |
| Xylenes, Total | 0.00468 | J | 0.000880 | 0.00650 | 1 | 07/23/2024 05:38 | WG2327819 |
| 1,2,4-Trimethylbenzene | 0.00228 | J | 0.00158 | 0.00500 | 1 | 07/23/2024 05:38 | WG2327819 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 | 1 | 07/23/2024 05:38 | WG2327819 |
| (S) Toluene-d8 | 104 | | | 75.0-131 | | 07/23/2024 05:38 | WG2327819 |
| (S) 4-Bromofluorobenzene | 104 | | | 67.0-138 | | 07/23/2024 05:38 | WG2327819 |
| (S) 1,2-Dichloroethane-d4 | 89.5 | | | 70.0-130 | | 07/23/2024 05:38 | WG2327819 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| C10-C28 Diesel Range | 10.4 | | 1.61 | 4.00 | 1 | 07/24/2024 22:28 | WG2329372 |
| C28-C36 Motor Oil Range | 22.6 | | 0.274 | 4.00 | 1 | 07/24/2024 22:28 | WG2329372 |
| (S) o-Terphenyl | 63.9 | | | 18.0-148 | | 07/24/2024 22:28 | WG2329372 |

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 |
|------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 07/24/2024 22:05 | WG2328846 |
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 07/24/2024 22:05 | WG2328846 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 07/24/2024 22:05 | WG2328846 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 07/24/2024 22:05 | WG2328846 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 07/24/2024 22:05 | WG2328846 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 07/24/2024 22:05 | WG2328846 |
| Chrysene | U | | 0.00232 | 0.00600 | 1 | 07/24/2024 22:05 | WG2328846 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 07/24/2024 22:05 | WG2328846 |
| Fluoranthene | U | | 0.00227 | 0.00600 | 1 | 07/24/2024 22:05 | WG2328846 |
| Fluorene | U | | 0.00205 | 0.00600 | 1 | 07/24/2024 22:05 | WG2328846 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 07/24/2024 22:05 | WG2328846 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 | 1 | 07/24/2024 22:05 | WG2328846 |
| 2-Methylnaphthalene | 0.00560 | J | 0.00427 | 0.0200 | 1 | 07/24/2024 22:05 | WG2328846 |
| Naphthalene | U | | 0.00408 | 0.0200 | 1 | 07/24/2024 22:05 | WG2328846 |
| Pyrene | U | | 0.00200 | 0.00600 | 1 | 07/24/2024 22:05 | WG2328846 |
| (S) p-Terphenyl-d14 | 53.0 | | | 23.0-120 | | 07/24/2024 22:05 | WG2328846 |
| (S) Nitrobenzene-d5 | 61.7 | | | 14.0-149 | | 07/24/2024 22:05 | WG2328846 |
| (S) 2-Fluorobiphenyl | 56.6 | | | 34.0-125 | | 07/24/2024 22:05 | WG2328846 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| Hexavalent Chromium | 0.764 | J | 0.255 | 1.00 | 1 | 07/26/2024 15:06 | WG2325683 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| TPH (GC/FID) Low Fraction | 1.39 | | 0.0217 | 0.100 | 1 | 07/23/2024 18:16 | WG2328388 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.9 | | | 77.0-120 | | 07/23/2024 18:16 | WG2328388 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| Benzene | 0.00659 | | 0.000472 | 0.00101 | 1.01 | 07/23/2024 05:57 | WG2327819 |
| Toluene | 0.00603 | | 0.00131 | 0.00505 | 1.01 | 07/23/2024 05:57 | WG2327819 |
| Ethylbenzene | 0.00237 | J | 0.000744 | 0.00253 | 1.01 | 07/23/2024 05:57 | WG2327819 |
| Xylenes, Total | 0.0695 | | 0.000889 | 0.00656 | 1.01 | 07/23/2024 05:57 | WG2327819 |
| 1,2,4-Trimethylbenzene | 0.0564 | | 0.00160 | 0.00505 | 1.01 | 07/23/2024 05:57 | WG2327819 |
| 1,3,5-Trimethylbenzene | 0.772 | | 0.00202 | 0.00505 | 1.01 | 07/23/2024 05:57 | WG2327819 |
| (S) Toluene-d8 | 103 | | | 75.0-131 | | 07/23/2024 05:57 | WG2327819 |
| (S) 4-Bromofluorobenzene | 113 | | | 67.0-138 | | 07/23/2024 05:57 | WG2327819 |
| (S) 1,2-Dichloroethane-d4 | 91.3 | | | 70.0-130 | | 07/23/2024 05:57 | WG2327819 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| C10-C28 Diesel Range | 261 | | 1.61 | 4.00 | 1 | 07/24/2024 22:40 | WG2329372 |
| C28-C36 Motor Oil Range | 330 | | 1.37 | 20.0 | 5 | 07/25/2024 01:34 | WG2329372 |
| (S) o-Terphenyl | 49.7 | | | 18.0-148 | | 07/24/2024 22:40 | WG2329372 |
| (S) o-Terphenyl | 58.7 | | | 18.0-148 | | 07/25/2024 01:34 | WG2329372 |

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 |
|------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 07/24/2024 21:13 | WG2328846 |
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 07/24/2024 21:13 | WG2328846 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 07/24/2024 21:13 | WG2328846 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 07/24/2024 21:13 | WG2328846 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 07/24/2024 21:13 | WG2328846 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 07/24/2024 21:13 | WG2328846 |
| Chrysene | 0.00716 | | 0.00232 | 0.00600 | 1 | 07/24/2024 21:13 | WG2328846 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 07/24/2024 21:13 | WG2328846 |
| Fluoranthene | 0.00328 | J | 0.00227 | 0.00600 | 1 | 07/24/2024 21:13 | WG2328846 |
| Fluorene | U | | 0.00205 | 0.00600 | 1 | 07/24/2024 21:13 | WG2328846 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 07/24/2024 21:13 | WG2328846 |
| 1-Methylnaphthalene | 0.113 | | 0.00449 | 0.0200 | 1 | 07/24/2024 21:13 | WG2328846 |
| 2-Methylnaphthalene | 0.149 | | 0.00427 | 0.0200 | 1 | 07/24/2024 21:13 | WG2328846 |
| Naphthalene | 0.0425 | | 0.00408 | 0.0200 | 1 | 07/24/2024 21:13 | WG2328846 |
| Pyrene | 0.0159 | | 0.00200 | 0.00600 | 1 | 07/24/2024 21:13 | WG2328846 |
| (S) p-Terphenyl-d14 | 72.2 | | | 23.0-120 | | 07/24/2024 21:13 | WG2328846 |
| (S) Nitrobenzene-d5 | 132 | | | 14.0-149 | | 07/24/2024 21:13 | WG2328846 |
| (S) 2-Fluorobiphenyl | 80.4 | | | 34.0-125 | | 07/24/2024 21:13 | WG2328846 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| Hexavalent Chromium | 0.395 | J | 0.255 | 1.00 | 1 | 07/26/2024 15:32 | WG2325683 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| TPH (GC/FID) Low Fraction | 0.0506 | B J | 0.0217 | 0.100 | 1 | 07/23/2024 18:48 | WG2328388 |
| (S) a,a,a-Trifluorotoluene(FID) | 102 | | | 77.0-120 | | 07/23/2024 18:48 | WG2328388 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| Benzene | U | | 0.000467 | 0.00100 | 1 | 07/23/2024 06:16 | WG2327819 |
| Toluene | U | | 0.00130 | 0.00500 | 1 | 07/23/2024 06:16 | WG2327819 |
| Ethylbenzene | U | | 0.000737 | 0.00250 | 1 | 07/23/2024 06:16 | WG2327819 |
| Xylenes, Total | 0.00222 | J | 0.000880 | 0.00650 | 1 | 07/23/2024 06:16 | WG2327819 |
| 1,2,4-Trimethylbenzene | 0.00197 | J | 0.00158 | 0.00500 | 1 | 07/23/2024 06:16 | WG2327819 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 | 1 | 07/23/2024 06:16 | WG2327819 |
| (S) Toluene-d8 | 104 | | | 75.0-131 | | 07/23/2024 06:16 | WG2327819 |
| (S) 4-Bromofluorobenzene | 104 | | | 67.0-138 | | 07/23/2024 06:16 | WG2327819 |
| (S) 1,2-Dichloroethane-d4 | 90.9 | | | 70.0-130 | | 07/23/2024 06:16 | WG2327819 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| C10-C28 Diesel Range | 6.71 | | 1.61 | 4.00 | 1 | 07/25/2024 00:07 | WG2329372 |
| C28-C36 Motor Oil Range | 18.8 | | 0.274 | 4.00 | 1 | 07/25/2024 00:07 | WG2329372 |
| (S) o-Terphenyl | 71.1 | | | 18.0-148 | | 07/25/2024 00:07 | WG2329372 |

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 |
|------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 07/24/2024 22:57 | WG2328846 |
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 07/24/2024 22:57 | WG2328846 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 07/24/2024 22:57 | WG2328846 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 07/24/2024 22:57 | WG2328846 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 07/24/2024 22:57 | WG2328846 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 07/24/2024 22:57 | WG2328846 |
| Chrysene | U | | 0.00232 | 0.00600 | 1 | 07/24/2024 22:57 | WG2328846 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 07/24/2024 22:57 | WG2328846 |
| Fluoranthene | U | | 0.00227 | 0.00600 | 1 | 07/24/2024 22:57 | WG2328846 |
| Fluorene | U | | 0.00205 | 0.00600 | 1 | 07/24/2024 22:57 | WG2328846 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 07/24/2024 22:57 | WG2328846 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 | 1 | 07/24/2024 22:57 | WG2328846 |
| 2-Methylnaphthalene | 0.00831 | J | 0.00427 | 0.0200 | 1 | 07/24/2024 22:57 | WG2328846 |
| Naphthalene | U | | 0.00408 | 0.0200 | 1 | 07/24/2024 22:57 | WG2328846 |
| Pyrene | U | | 0.00200 | 0.00600 | 1 | 07/24/2024 22:57 | WG2328846 |
| (S) p-Terphenyl-d14 | 57.5 | | | 23.0-120 | | 07/24/2024 22:57 | WG2328846 |
| (S) Nitrobenzene-d5 | 64.3 | | | 14.0-149 | | 07/24/2024 22:57 | WG2328846 |
| (S) 2-Fluorobiphenyl | 60.8 | | | 34.0-125 | | 07/24/2024 22:57 | WG2328846 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| Hexavalent Chromium | 0.968 | J | 0.255 | 1.00 | 1 | 07/26/2024 15:41 | WG2325683 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| TPH (GC/FID) Low Fraction | 0.727 | | 0.0217 | 0.100 | 1 | 07/23/2024 19:09 | WG2328388 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.3 | | | 77.0-120 | | 07/23/2024 19:09 | WG2328388 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| Benzene | 0.00140 | | 0.000467 | 0.00100 | 1 | 07/23/2024 06:35 | WG2327819 |
| Toluene | 0.00270 | J | 0.00130 | 0.00500 | 1 | 07/23/2024 06:35 | WG2327819 |
| Ethylbenzene | 0.00160 | J | 0.000737 | 0.00250 | 1 | 07/23/2024 06:35 | WG2327819 |
| Xylenes, Total | 0.0200 | | 0.000880 | 0.00650 | 1 | 07/23/2024 06:35 | WG2327819 |
| 1,2,4-Trimethylbenzene | 0.00765 | | 0.00158 | 0.00500 | 1 | 07/23/2024 06:35 | WG2327819 |
| 1,3,5-Trimethylbenzene | 0.0151 | | 0.00200 | 0.00500 | 1 | 07/23/2024 06:35 | WG2327819 |
| (S) Toluene-d8 | 105 | | | 75.0-131 | | 07/23/2024 06:35 | WG2327819 |
| (S) 4-Bromofluorobenzene | 105 | | | 67.0-138 | | 07/23/2024 06:35 | WG2327819 |
| (S) 1,2-Dichloroethane-d4 | 92.1 | | | 70.0-130 | | 07/23/2024 06:35 | WG2327819 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| C10-C28 Diesel Range | 371 | | 8.05 | 20.0 | 5 | 07/24/2024 23:42 | WG2329372 |
| C28-C36 Motor Oil Range | 680 | | 1.37 | 20.0 | 5 | 07/24/2024 23:42 | WG2329372 |
| (S) o-Terphenyl | 69.0 | | | 18.0-148 | | 07/24/2024 23:42 | WG2329372 |

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 |
|------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 07/24/2024 23:48 | WG2328846 |
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 07/24/2024 23:48 | WG2328846 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 07/24/2024 23:48 | WG2328846 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 07/24/2024 23:48 | WG2328846 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 07/24/2024 23:48 | WG2328846 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 07/24/2024 23:48 | WG2328846 |
| Chrysene | U | | 0.00232 | 0.00600 | 1 | 07/24/2024 23:48 | WG2328846 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 07/24/2024 23:48 | WG2328846 |
| Fluoranthene | U | | 0.00227 | 0.00600 | 1 | 07/24/2024 23:48 | WG2328846 |
| Fluorene | U | | 0.00205 | 0.00600 | 1 | 07/24/2024 23:48 | WG2328846 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 07/24/2024 23:48 | WG2328846 |
| 1-Methylnaphthalene | 0.238 | | 0.00449 | 0.0200 | 1 | 07/24/2024 23:48 | WG2328846 |
| 2-Methylnaphthalene | 0.700 | | 0.00427 | 0.0200 | 1 | 07/24/2024 23:48 | WG2328846 |
| Naphthalene | 0.225 | | 0.00408 | 0.0200 | 1 | 07/24/2024 23:48 | WG2328846 |
| Pyrene | 0.0187 | | 0.00200 | 0.00600 | 1 | 07/24/2024 23:48 | WG2328846 |
| (S) p-Terphenyl-d14 | 68.7 | | | 23.0-120 | | 07/24/2024 23:48 | WG2328846 |
| (S) Nitrobenzene-d5 | 84.9 | | | 14.0-149 | | 07/24/2024 23:48 | WG2328846 |
| (S) 2-Fluorobiphenyl | 76.0 | | | 34.0-125 | | 07/24/2024 23:48 | WG2328846 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| Hexavalent Chromium | 0.456 | J | 0.255 | 1.00 | 1 | 07/26/2024 11:37 | WG2326501 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| TPH (GC/FID) Low Fraction | 0.0458 | B J | 0.0217 | 0.100 | 1 | 07/23/2024 19:30 | WG2328388 |
| (S) a,a,a-Trifluorotoluene(FID) | 103 | | | 77.0-120 | | 07/23/2024 19:30 | WG2328388 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| Benzene | U | | 0.000467 | 0.00100 | 1 | 07/23/2024 06:54 | WG2327819 |
| Toluene | U | | 0.00130 | 0.00500 | 1 | 07/23/2024 06:54 | WG2327819 |
| Ethylbenzene | U | | 0.000737 | 0.00250 | 1 | 07/23/2024 06:54 | WG2327819 |
| Xylenes, Total | 0.00393 | J | 0.000880 | 0.00650 | 1 | 07/23/2024 06:54 | WG2327819 |
| 1,2,4-Trimethylbenzene | 0.00228 | J | 0.00158 | 0.00500 | 1 | 07/23/2024 06:54 | WG2327819 |
| 1,3,5-Trimethylbenzene | 0.00210 | J | 0.00200 | 0.00500 | 1 | 07/23/2024 06:54 | WG2327819 |
| (S) Toluene-d8 | 104 | | | 75.0-131 | | 07/23/2024 06:54 | WG2327819 |
| (S) 4-Bromofluorobenzene | 105 | | | 67.0-138 | | 07/23/2024 06:54 | WG2327819 |
| (S) 1,2-Dichloroethane-d4 | 86.9 | | | 70.0-130 | | 07/23/2024 06:54 | WG2327819 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| C10-C28 Diesel Range | 29.7 | | 1.61 | 4.00 | 1 | 07/24/2024 22:03 | WG2329372 |
| C28-C36 Motor Oil Range | 41.1 | | 0.274 | 4.00 | 1 | 07/24/2024 22:03 | WG2329372 |
| (S) o-Terphenyl | 58.6 | | | 18.0-148 | | 07/24/2024 22:03 | WG2329372 |

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 |
|------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|-----------|
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 07/24/2024 21:31 | WG2328846 |
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 07/24/2024 21:31 | WG2328846 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 07/24/2024 21:31 | WG2328846 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 07/24/2024 21:31 | WG2328846 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 07/24/2024 21:31 | WG2328846 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 07/24/2024 21:31 | WG2328846 |
| Chrysene | U | | 0.00232 | 0.00600 | 1 | 07/24/2024 21:31 | WG2328846 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 07/24/2024 21:31 | WG2328846 |
| Fluoranthene | U | | 0.00227 | 0.00600 | 1 | 07/24/2024 21:31 | WG2328846 |
| Fluorene | 0.0295 | | 0.00205 | 0.00600 | 1 | 07/24/2024 21:31 | WG2328846 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 07/24/2024 21:31 | WG2328846 |
| 1-Methylnaphthalene | 0.0396 | | 0.00449 | 0.0200 | 1 | 07/24/2024 21:31 | WG2328846 |
| 2-Methylnaphthalene | 0.113 | | 0.00427 | 0.0200 | 1 | 07/24/2024 21:31 | WG2328846 |
| Naphthalene | 0.0207 | | 0.00408 | 0.0200 | 1 | 07/24/2024 21:31 | WG2328846 |
| Pyrene | U | | 0.00200 | 0.00600 | 1 | 07/24/2024 21:31 | WG2328846 |
| (S) p-Terphenyl-d14 | 63.7 | | | 23.0-120 | | 07/24/2024 21:31 | WG2328846 |
| (S) Nitrobenzene-d5 | 74.9 | | | 14.0-149 | | 07/24/2024 21:31 | WG2328846 |
| (S) 2-Fluorobiphenyl | 67.5 | | | 34.0-125 | | 07/24/2024 21:31 | WG2328846 |

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

Method Blank (MB)

(MB) R4099034-1 07/26/24 10:13

| | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------------------|-----------|--------------|--------|--------|
| Analyte | mg/kg | | mg/kg | mg/kg |
| Hexavalent Chromium | U | | 0.255 | 1.00 |

L1757465-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1757465-07 07/26/24 12:53 • (DUP) R4099034-11 07/26/24 13:01

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

L1757476-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1757476-03 07/26/24 13:46 • (DUP) R4099034-12 07/26/24 13:55

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

Laboratory Control Sample (LCS)

(LCS) R4099034-2 07/26/24 10:21

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------------------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/kg | mg/kg | % | % | |
| Hexavalent Chromium | 10.0 | 9.12 | 91.2 | 80.0-120 | |

L1757465-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1757465-05 07/26/24 11:06 • (MS) R4099034-3 07/26/24 11:15 • (MSD) R4099034-4 07/26/24 11:24

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Hexavalent Chromium | 20.0 | U | 18.8 | 17.9 | 94.2 | 89.6 | 1 | 75.0-125 | | | 5.01 | 20 |

L1757465-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1757465-06 07/26/24 12:08 • (MS) R4099034-7 07/26/24 12:17 • (MSD) R4099034-8 07/26/24 12:26

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Hexavalent Chromium | 20.0 | U | 19.2 | 18.3 | 95.9 | 91.4 | 1 | 75.0-125 | | | 4.77 | 20 |



L1757465-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1757465-05 07/26/24 11:06 • (MS) R4099034-5 07/26/24 11:33

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MS Rec. % | Dilution | Rec. Limits % | <u>MS Qualifier</u> |
|---------------------|-----------------------|--------------------------|--------------------|--------------|----------|------------------|---------------------|
| Hexavalent Chromium | 651 | U | 574 | 88.1 | 50 | 75.0-125 | |

L1757465-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1757465-06 07/26/24 12:08 • (MS) R4099034-9 07/26/24 12:35

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MS Rec. % | Dilution | Rec. Limits % | <u>MS Qualifier</u> |
|---------------------|-----------------------|--------------------------|--------------------|--------------|----------|------------------|---------------------|
| Hexavalent Chromium | 646 | U | 561 | 86.9 | 50 | 75.0-125 | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4098969-1 07/26/24 10:57

| | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------------------|-----------|--------------|--------|--------|
| Analyte | mg/kg | | mg/kg | mg/kg |
| Hexavalent Chromium | U | | 0.255 | 1.00 |

L1757476-26 Original Sample (OS) • Duplicate (DUP)

(OS) L1757476-26 07/26/24 11:24 • (DUP) R4098969-3 07/26/24 11:30

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------------------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/kg | mg/kg | | % | | % |
| Hexavalent Chromium | 0.313 | 0.373 | 1 | 17.5 | ⌵ | 20 |

L1757601-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1757601-04 07/26/24 12:14 • (DUP) R4098969-4 07/26/24 12:20

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------------------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/kg | mg/kg | | % | | % |
| Hexavalent Chromium | 0.283 | U | 1 | 200 | P1 | 20 |

Laboratory Control Sample (LCS)

(LCS) R4098969-2 07/26/24 11:06

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------------------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/kg | mg/kg | % | % | |
| Hexavalent Chromium | 10.0 | 10.1 | 101 | 80.0-120 | |

L1757987-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1757987-01 07/26/24 12:38 • (MS) R4098969-5 07/26/24 12:45 • (MSD) R4098969-6 07/26/24 12:51

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Hexavalent Chromium | 20.0 | U | 19.9 | 19.1 | 99.6 | 95.7 | 1 | 75.0-125 | | | 4.02 | 20 |

L1757987-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1757987-05 07/26/24 13:40 • (MS) R4098969-9 07/26/24 13:46 • (MSD) R4098969-10 07/26/24 13:53

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|--------|------------|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Hexavalent Chromium | 20.0 | U | 20.1 | 20.1 | 100 | 100 | 1 | 75.0-125 | | | 0.0966 | 20 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1757987-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1757987-01 07/26/24 12:38 • (MS) R4098969-7 07/26/24 12:57

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MS Rec. % | Dilution | Rec. Limits % | <u>MS Qualifier</u> |
|---------------------|-----------------------|--------------------------|--------------------|--------------|----------|------------------|---------------------|
| Hexavalent Chromium | 654 | U | 565 | 86.4 | 50 | 75.0-125 | |

L1757987-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1757987-05 07/26/24 13:40 • (MS) R4098969-11 07/26/24 13:59

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MS Rec. % | Dilution | Rec. Limits % | <u>MS Qualifier</u> |
|---------------------|-----------------------|--------------------------|--------------------|--------------|----------|------------------|---------------------|
| Hexavalent Chromium | 633 | U | 555 | 87.7 | 50 | 75.0-125 | |

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R4097952-2 07/23/24 11:47

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| TPH (GC/FID) Low Fraction | 0.0280 | ⬇ | 0.0217 | 0.100 |
| (S) a,a,a-Trifluorotoluene(FID) | 112 | | | 77.0-120 |

Laboratory Control Sample (LCS)

(LCS) R4097952-1 07/23/24 11:03

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| TPH (GC/FID) Low Fraction | 5.00 | 5.45 | 109 | 72.0-127 | |
| (S) a,a,a-Trifluorotoluene(FID) | | | 112 | 77.0-120 | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4097675-3 07/22/24 22:08

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Benzene | U | | 0.000467 | 0.00100 |
| Toluene | U | | 0.00130 | 0.00500 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| (S) Toluene-d8 | 104 | | | 75.0-131 |
| (S) 4-Bromofluorobenzene | 101 | | | 67.0-138 |
| (S) 1,2-Dichloroethane-d4 | 91.8 | | | 70.0-130 |

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

(LCS) R4097675-1 07/22/24 20:33 • (LCSD) R4097675-2 07/22/24 20:52

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene | 0.125 | 0.113 | 0.117 | 90.4 | 93.6 | 70.0-123 | | | 3.48 | 20 |
| Toluene | 0.125 | 0.109 | 0.114 | 87.2 | 91.2 | 75.0-121 | | | 4.48 | 20 |
| Ethylbenzene | 0.125 | 0.116 | 0.118 | 92.8 | 94.4 | 74.0-126 | | | 1.71 | 20 |
| Xylenes, Total | 0.375 | 0.356 | 0.370 | 94.9 | 98.7 | 72.0-127 | | | 3.86 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.119 | 0.121 | 95.2 | 96.8 | 70.0-126 | | | 1.67 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.120 | 0.122 | 96.0 | 97.6 | 73.0-127 | | | 1.65 | 20 |
| (S) Toluene-d8 | | | | 101 | 103 | 75.0-131 | | | | |
| (S) 4-Bromofluorobenzene | | | | 103 | 102 | 67.0-138 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 97.9 | 97.4 | 70.0-130 | | | | |

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

Method Blank (MB)

(MB) R4098178-1 07/24/24 22:03

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|-------------------------|--------------------|--------------|-----------------|-----------------|
| C10-C28 Diesel Range | U | | 1.61 | 4.00 |
| C28-C36 Motor Oil Range | U | | 0.274 | 4.00 |
| (S) o-Terphenyl | 80.2 | | | 18.0-148 |

Method Blank (MB)

(MB) R4098331-3 07/25/24 10:41

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|-------------------------|--------------------|--------------|-----------------|-----------------|
| C10-C28 Diesel Range | U | | 1.61 | 4.00 |
| C28-C36 Motor Oil Range | U | | 0.274 | 4.00 |
| (S) o-Terphenyl | 80.5 | | | 18.0-148 |

Laboratory Control Sample (LCS)

(LCS) R4098178-2 07/24/24 22:15

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| C10-C28 Diesel Range | 50.0 | 38.5 | 77.0 | 50.0-150 | |
| (S) o-Terphenyl | | | 79.9 | 18.0-148 | |

L1758007-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1758007-06 07/25/24 10:02 • (MS) R4098331-1 07/25/24 10:15 • (MSD) R4098331-2 07/25/24 10:28

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|----------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| C10-C28 Diesel Range | 48.9 | U | 26.9 | 24.2 | 55.0 | 50.1 | 1 | 50.0-150 | | | 10.6 | 20 |
| (S) o-Terphenyl | | | | | 52.9 | 47.8 | | 18.0-148 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4098111-2 07/24/24 18:38

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|------------------------|--------------------|--------------|-----------------|-----------------|
| Acenaphthene | U | | 0.00209 | 0.00600 |
| Anthracene | U | | 0.00230 | 0.00600 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 |
| Chrysene | U | | 0.00232 | 0.00600 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 |
| Fluoranthene | U | | 0.00227 | 0.00600 |
| Fluorene | U | | 0.00205 | 0.00600 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 |
| 2-Methylnaphthalene | U | | 0.00427 | 0.0200 |
| Naphthalene | U | | 0.00408 | 0.0200 |
| Pyrene | U | | 0.00200 | 0.00600 |
| (S) p-Terphenyl-d14 | 106 | | | 23.0-120 |
| (S) Nitrobenzene-d5 | 84.8 | | | 14.0-149 |
| (S) 2-Fluorobiphenyl | 97.7 | | | 34.0-125 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4098111-1 07/24/24 18:04

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Acenaphthene | 0.0800 | 0.0769 | 96.1 | 50.0-120 | |
| Anthracene | 0.0800 | 0.0808 | 101 | 50.0-126 | |
| Benzo(a)anthracene | 0.0800 | 0.0804 | 101 | 45.0-120 | |
| Benzo(b)fluoranthene | 0.0800 | 0.0945 | 118 | 42.0-121 | |
| Benzo(k)fluoranthene | 0.0800 | 0.0864 | 108 | 49.0-125 | |
| Benzo(a)pyrene | 0.0800 | 0.0764 | 95.5 | 42.0-120 | |
| Chrysene | 0.0800 | 0.0889 | 111 | 49.0-122 | |
| Dibenz(a,h)anthracene | 0.0800 | 0.0836 | 105 | 47.0-125 | |
| Fluoranthene | 0.0800 | 0.0867 | 108 | 49.0-129 | |
| Fluorene | 0.0800 | 0.0867 | 108 | 49.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.0800 | 0.0793 | 99.1 | 46.0-125 | |
| 1-Methylnaphthalene | 0.0800 | 0.0812 | 102 | 51.0-121 | |
| 2-Methylnaphthalene | 0.0800 | 0.0787 | 98.4 | 50.0-120 | |
| Naphthalene | 0.0800 | 0.0773 | 96.6 | 50.0-120 | |
| Pyrene | 0.0800 | 0.0884 | 111 | 43.0-123 | |

Laboratory Control Sample (LCS)

(LCS) R4098111-1 07/24/24 18:04

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | <u>LCS Qualifier</u> |
|----------------------|-----------------------|---------------------|---------------|------------------|----------------------|
| (S) p-Terphenyl-d14 | | | 95.1 | 23.0-120 | |
| (S) Nitrobenzene-d5 | | | 88.8 | 14.0-149 | |
| (S) 2-Fluorobiphenyl | | | 95.2 | 34.0-125 | |

L1757520-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1757520-04 07/24/24 22:57 • (MS) R4098111-3 07/24/24 23:14 • (MSD) R4098111-4 07/24/24 23:31

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | <u>MS Qualifier</u> | <u>MSD Qualifier</u> | RPD % | RPD Limits % |
|------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|---------------------|----------------------|----------|-----------------|
| Acenaphthene | 0.0764 | U | 0.0632 | 0.0660 | 82.7 | 85.9 | 1 | 14.0-127 | | | 4.33 | 27 |
| Anthracene | 0.0764 | U | 0.0691 | 0.0713 | 90.4 | 92.8 | 1 | 10.0-145 | | | 3.13 | 30 |
| Benzo(a)anthracene | 0.0764 | U | 0.0704 | 0.0711 | 92.1 | 92.6 | 1 | 10.0-139 | | | 0.989 | 30 |
| Benzo(b)fluoranthene | 0.0764 | U | 0.0753 | 0.0761 | 98.6 | 99.1 | 1 | 10.0-140 | | | 1.06 | 36 |
| Benzo(k)fluoranthene | 0.0764 | U | 0.0706 | 0.0721 | 92.4 | 93.9 | 1 | 10.0-137 | | | 2.10 | 31 |
| Benzo(a)pyrene | 0.0764 | U | 0.0717 | 0.0722 | 93.8 | 94.0 | 1 | 10.0-141 | | | 0.695 | 31 |
| Chrysene | 0.0764 | U | 0.0745 | 0.0762 | 97.5 | 99.2 | 1 | 10.0-145 | | | 2.26 | 30 |
| Dibenz(a,h)anthracene | 0.0764 | U | 0.0734 | 0.0754 | 96.1 | 98.2 | 1 | 10.0-132 | | | 2.69 | 31 |
| Fluoranthene | 0.0764 | U | 0.0731 | 0.0749 | 95.7 | 97.5 | 1 | 10.0-153 | | | 2.43 | 33 |
| Fluorene | 0.0764 | U | 0.0713 | 0.0749 | 93.3 | 97.5 | 1 | 11.0-130 | | | 4.92 | 29 |
| Indeno(1,2,3-cd)pyrene | 0.0764 | U | 0.0718 | 0.0719 | 94.0 | 93.6 | 1 | 10.0-137 | | | 0.139 | 32 |
| 1-Methylnaphthalene | 0.0764 | U | 0.0703 | 0.0727 | 92.0 | 94.7 | 1 | 10.0-142 | | | 3.36 | 28 |
| 2-Methylnaphthalene | 0.0764 | 0.00831 | 0.0745 | 0.0739 | 86.6 | 85.4 | 1 | 10.0-137 | | | 0.809 | 28 |
| Naphthalene | 0.0764 | U | 0.0644 | 0.0677 | 84.3 | 88.2 | 1 | 10.0-135 | | | 5.00 | 27 |
| Pyrene | 0.0764 | U | 0.0713 | 0.0730 | 93.3 | 95.1 | 1 | 10.0-148 | | | 2.36 | 35 |
| (S) p-Terphenyl-d14 | | | | | 83.3 | 80.8 | | 23.0-120 | | | | |
| (S) Nitrobenzene-d5 | | | | | 84.4 | 83.1 | | 14.0-149 | | | | |
| (S) 2-Fluorobiphenyl | | | | | 84.0 | 83.4 | | 34.0-125 | | | | |

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

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

| | |
|----|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| P1 | RPD value not applicable for sample concentrations less than 5 times the reporting limit. |

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

ACCREDITATIONS & LOCATIONS

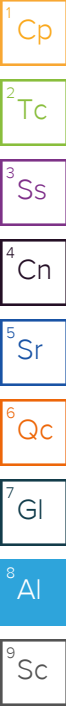
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|--------------------------------|-------------|-----------------------------|------------------|
| 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.





August 09, 2024

Client Services
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122

RE: Project: L1757520 WG2325486
Pace Project No.: 10700597

Dear Client Services:

Enclosed are the analytical results for sample(s) received by the laboratory on July 19, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Yeng Ozawa
yeng.ozawa@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Jimmy Huckaba, Pace Analytical National Center for
Testing & Innovation



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



CERTIFICATIONS

Project: L1757520 WG2325486

Pace Project No.: 10700597

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

DoD Certification via A2LA #: 2926.01

EPA Region 8 Tribal Water Systems+Wyoming DW
Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

GMP+ Certification #: GMP050884

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

ISO/IEC 17025 Certification via A2LA #: 2926.01

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Vermont Certification #: VT-027053137

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification via A2LA #: 2926.01

USDA Permit #: P330-19-00208

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: L1757520 WG2325486

Pace Project No.: 10700597

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|--------------------------------|--------|----------------|----------------|
| 10700597001 | 20240715-ELU J14 496-(23B-14-P | Solid | 07/15/24 10:15 | 07/19/24 10:10 |
| 10700597002 | 20240715-ELU J14 496-(23B-14-B | Solid | 07/15/24 10:40 | 07/19/24 10:10 |
| 10700597003 | 20240715-ELU J14 496-(23B-14-N | Solid | 07/15/24 10:05 | 07/19/24 10:10 |
| 10700597004 | 20240715-ELU J14 496-(23B-14-S | Solid | 07/15/24 10:35 | 07/19/24 10:10 |
| 10700597005 | 20240715-ELU J14 496-(23B-14-E | Solid | 07/15/24 10:20 | 07/19/24 10:10 |
| 10700597006 | 20240715-ELU J14 496-(23B-14-W | Solid | 07/15/24 10:30 | 07/19/24 10:10 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: L1757520 WG2325486

Pace Project No.: 10700597

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------------------------|------------------|----------|-------------------|------------|
| 10700597001 | 20240715-ELU J14 496-(23B-14-P | WREP 125, S-7.10 | DM | 1 | PASI-M |
| | | WREP 125 S-1.6 | DM | 4 | PASI-M |
| | | EPA 6020B | NN2 | 9 | PASI-M |
| | | ASTM D2974 | JDL | 1 | PASI-M |
| | | WREP 125 S-1.20 | SMB | 1 | PASI-M |
| | | WREP 125 S-1.10 | MER | 1 | PASI-M |
| 10700597002 | 20240715-ELU J14 496-(23B-14-B | WREP 125, S-7.10 | DM | 1 | PASI-M |
| | | WREP 125 S-1.6 | DM | 4 | PASI-M |
| | | EPA 6020B | NN2 | 9 | PASI-M |
| | | ASTM D2974 | JDL | 1 | PASI-M |
| | | WREP 125 S-1.20 | SMB | 1 | PASI-M |
| | | WREP 125 S-1.10 | MER | 1 | PASI-M |
| 10700597003 | 20240715-ELU J14 496-(23B-14-N | WREP 125, S-7.10 | DM | 1 | PASI-M |
| | | WREP 125 S-1.6 | DM | 4 | PASI-M |
| | | EPA 6020B | NN2 | 9 | PASI-M |
| | | ASTM D2974 | JDL | 1 | PASI-M |
| | | WREP 125 S-1.20 | SMB | 1 | PASI-M |
| | | WREP 125 S-1.10 | MER | 1 | PASI-M |
| 10700597004 | 20240715-ELU J14 496-(23B-14-S | WREP 125, S-7.10 | DM | 1 | PASI-M |
| | | WREP 125 S-1.6 | DM | 4 | PASI-M |
| | | EPA 6020B | NN2 | 9 | PASI-M |
| | | ASTM D2974 | JDL | 1 | PASI-M |
| | | WREP 125 S-1.20 | SMB | 1 | PASI-M |
| | | WREP 125 S-1.10 | MER | 1 | PASI-M |
| 10700597005 | 20240715-ELU J14 496-(23B-14-E | WREP 125, S-7.10 | DM | 1 | PASI-M |
| | | WREP 125 S-1.6 | DM | 4 | PASI-M |
| | | EPA 6020B | NN2 | 9 | PASI-M |
| | | ASTM D2974 | JDL | 1 | PASI-M |
| | | WREP 125 S-1.20 | SMB | 1 | PASI-M |
| | | WREP 125 S-1.10 | MER | 1 | PASI-M |
| 10700597006 | 20240715-ELU J14 496-(23B-14-W | WREP 125, S-7.10 | DM | 1 | PASI-M |
| | | WREP 125 S-1.6 | DM | 4 | PASI-M |
| | | EPA 6020B | NN2 | 9 | PASI-M |
| | | ASTM D2974 | JDL | 1 | PASI-M |
| | | WREP 125 S-1.20 | SMB | 1 | PASI-M |
| | | WREP 125 S-1.10 | MER | 1 | PASI-M |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: L1757520 WG2325486

Pace Project No.: 10700597

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|--------|-----------|--------|----------|-------------------|------------|
|--------|-----------|--------|----------|-------------------|------------|

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L1757520 WG2325486

Pace Project No.: 10700597

Sample: 20240715-ELU J14 496-
(23B-14-P) **Lab ID:** 10700597001 **Collected:** 07/15/24 10:15 **Received:** 07/19/24 10:10 **Matrix:** Solid**Results reported on a "wet-weight" basis**

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|------------|--------------|-----|----------------|----------------|-----------|------|
| Hot Water Soluble Boron | | | | | | | | |
| Analytical Method: WREP 125, S-7.10 Preparation Method: N/A | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Boron | 1.1 | mg/kg | 0.30 | 1 | 07/30/24 11:25 | 07/30/24 14:54 | 7440-42-8 | N2 |
| Sodium Adsorption Ratio, SAR | | | | | | | | |
| Analytical Method: WREP 125 S-1.6 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Calcium saturated paste | 16.8 | meq/L | 0.25 | 10 | | 08/08/24 11:34 | 7440-70-2 | N2 |
| Magnesium saturated paste | 7.2 | meq/L | 0.41 | 10 | | 08/08/24 11:34 | 7439-95-4 | N2 |
| Sodium Adsorption Ratio | 15.5 | | | 10 | | 08/08/24 11:34 | | N2 |
| Sodium saturated paste | 53.9 | meq/L | 0.44 | 10 | | 08/08/24 11:34 | 7440-23-5 | N2 |
| 6020B MET ICPMS | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3050B | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Arsenic | 4.3 | mg/kg | 0.46 | 20 | 07/22/24 15:49 | 07/23/24 21:50 | 7440-38-2 | |
| Barium | 1760 | mg/kg | 2.8 | 200 | 07/22/24 15:49 | 07/24/24 10:05 | 7440-39-3 | |
| Cadmium | 0.24 | mg/kg | 0.074 | 20 | 07/22/24 15:49 | 07/23/24 21:50 | 7440-43-9 | |
| Copper | 19.5 | mg/kg | 0.93 | 20 | 07/22/24 15:49 | 07/23/24 21:50 | 7440-50-8 | |
| Lead | 11.4 | mg/kg | 0.46 | 20 | 07/22/24 15:49 | 07/23/24 21:50 | 7439-92-1 | |
| Nickel | 14.1 | mg/kg | 0.46 | 20 | 07/22/24 15:49 | 07/23/24 21:50 | 7440-02-0 | |
| Selenium | ND | mg/kg | 0.46 | 20 | 07/22/24 15:49 | 07/23/24 21:50 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.46 | 20 | 07/22/24 15:49 | 07/23/24 21:50 | 7440-22-4 | |
| Zinc | 54.4 | mg/kg | 4.6 | 20 | 07/22/24 15:49 | 07/23/24 21:50 | 7440-66-6 | |
| Dry Weight / %M by ASTM D2974 | | | | | | | | |
| Analytical Method: ASTM D2974 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Percent Moisture | 6.4 | % | 0.10 | 1 | | 07/23/24 11:25 | | N2 |
| Saturated Paste Elect. Cond. | | | | | | | | |
| Analytical Method: WREP 125 S-1.20 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Specific Conductance | 8300 | umhos/cm | 5.0 | 1 | | 08/08/24 14:38 | | N2 |
| Saturated Paste pH | | | | | | | | |
| Analytical Method: WREP 125 S-1.10 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| pH at 25 Degrees C | 7.30 | Std. Units | 0.100 | 1 | | 08/07/24 15:04 | | N2 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L1757520 WG2325486

Pace Project No.: 10700597

Sample: 20240715-ELU J14 496-
(23B-14-B) **Lab ID:** 10700597002 Collected: 07/15/24 10:40 Received: 07/19/24 10:10 Matrix: Solid**Results reported on a "wet-weight" basis**

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|------------|--------------|-----|----------------|----------------|-----------|------|
| Hot Water Soluble Boron | | | | | | | | |
| Analytical Method: WREP 125, S-7.10 Preparation Method: N/A | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Boron | ND | mg/kg | 0.30 | 1 | 07/30/24 11:25 | 07/30/24 14:55 | 7440-42-8 | N2 |
| Sodium Adsorption Ratio, SAR | | | | | | | | |
| Analytical Method: WREP 125 S-1.6 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Calcium saturated paste | 2.2 | meq/L | 0.25 | 10 | | 08/08/24 11:39 | 7440-70-2 | N2 |
| Magnesium saturated paste | 1.3 | meq/L | 0.41 | 10 | | 08/08/24 11:39 | 7439-95-4 | N2 |
| Sodium Adsorption Ratio | 4.0 | | | 10 | | 08/08/24 11:39 | | N2 |
| Sodium saturated paste | 5.3 | meq/L | 0.44 | 10 | | 08/08/24 11:39 | 7440-23-5 | N2 |
| 6020B MET ICPMS | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3050B | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Arsenic | 3.6 | mg/kg | 0.48 | 20 | 07/22/24 15:49 | 07/23/24 22:09 | 7440-38-2 | |
| Barium | 522 | mg/kg | 1.4 | 100 | 07/22/24 15:49 | 07/24/24 10:25 | 7440-39-3 | |
| Cadmium | 0.10 | mg/kg | 0.077 | 20 | 07/22/24 15:49 | 07/23/24 22:09 | 7440-43-9 | |
| Copper | 8.8 | mg/kg | 0.96 | 20 | 07/22/24 15:49 | 07/23/24 22:09 | 7440-50-8 | |
| Lead | 6.5 | mg/kg | 0.48 | 20 | 07/22/24 15:49 | 07/23/24 22:09 | 7439-92-1 | |
| Nickel | 12.5 | mg/kg | 0.48 | 20 | 07/22/24 15:49 | 07/23/24 22:09 | 7440-02-0 | |
| Selenium | ND | mg/kg | 0.48 | 20 | 07/22/24 15:49 | 07/23/24 22:09 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.48 | 20 | 07/22/24 15:49 | 07/23/24 22:09 | 7440-22-4 | |
| Zinc | 32.3 | mg/kg | 4.8 | 20 | 07/22/24 15:49 | 07/23/24 22:09 | 7440-66-6 | |
| Dry Weight / %M by ASTM D2974 | | | | | | | | |
| Analytical Method: ASTM D2974 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Percent Moisture | 26.5 | % | 0.10 | 1 | | 07/23/24 11:25 | | N2 |
| Saturated Paste Elect. Cond. | | | | | | | | |
| Analytical Method: WREP 125 S-1.20 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Specific Conductance | 885 | umhos/cm | 5.0 | 1 | | 08/08/24 14:40 | | N2 |
| Saturated Paste pH | | | | | | | | |
| Analytical Method: WREP 125 S-1.10 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| pH at 25 Degrees C | 8.08 | Std. Units | 0.100 | 1 | | 08/07/24 15:05 | | N2 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L1757520 WG2325486

Pace Project No.: 10700597

Sample: 20240715-ELU J14 496-
(23B-14-N) **Lab ID:** 10700597003 Collected: 07/15/24 10:05 Received: 07/19/24 10:10 Matrix: Solid**Results reported on a "wet-weight" basis**

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|------------|--------------|-----|----------------|----------------|-----------|------|
| Hot Water Soluble Boron | | | | | | | | |
| Analytical Method: WREP 125, S-7.10 Preparation Method: N/A | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Boron | 1.6 | mg/kg | 0.30 | 1 | 07/30/24 11:25 | 07/30/24 14:57 | 7440-42-8 | N2 |
| Sodium Adsorption Ratio, SAR | | | | | | | | |
| Analytical Method: WREP 125 S-1.6 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Calcium saturated paste | 65.3 | meq/L | 0.50 | 20 | | 08/08/24 11:50 | 7440-70-2 | N2 |
| Magnesium saturated paste | 23.1 | meq/L | 0.82 | 20 | | 08/08/24 11:50 | 7439-95-4 | N2 |
| Sodium Adsorption Ratio | 20.5 | | | 20 | | 08/08/24 11:50 | | N2 |
| Sodium saturated paste | 136 | meq/L | 0.87 | 20 | | 08/08/24 11:50 | 7440-23-5 | N2 |
| 6020B MET ICPMS | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3050B | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Arsenic | 3.9 | mg/kg | 0.47 | 20 | 07/22/24 15:49 | 07/23/24 21:47 | 7440-38-2 | |
| Barium | 8610 | mg/kg | 7.1 | 500 | 07/22/24 15:49 | 07/24/24 10:02 | 7440-39-3 | |
| Cadmium | 0.16 | mg/kg | 0.075 | 20 | 07/22/24 15:49 | 07/23/24 21:47 | 7440-43-9 | |
| Copper | 57.2 | mg/kg | 0.94 | 20 | 07/22/24 15:49 | 07/23/24 21:47 | 7440-50-8 | |
| Lead | 9.5 | mg/kg | 0.47 | 20 | 07/22/24 15:49 | 07/23/24 21:47 | 7439-92-1 | |
| Nickel | 16.1 | mg/kg | 0.47 | 20 | 07/22/24 15:49 | 07/23/24 21:47 | 7440-02-0 | |
| Selenium | ND | mg/kg | 0.47 | 20 | 07/22/24 15:49 | 07/23/24 21:47 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.47 | 20 | 07/22/24 15:49 | 07/23/24 21:47 | 7440-22-4 | |
| Zinc | 127 | mg/kg | 4.7 | 20 | 07/22/24 15:49 | 07/23/24 21:47 | 7440-66-6 | |
| Dry Weight / %M by ASTM D2974 | | | | | | | | |
| Analytical Method: ASTM D2974 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Percent Moisture | 19.5 | % | 0.10 | 1 | | 07/23/24 11:25 | | N2 |
| Saturated Paste Elect. Cond. | | | | | | | | |
| Analytical Method: WREP 125 S-1.20 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Specific Conductance | 21800 | umhos/cm | 5.0 | 1 | | 08/08/24 14:41 | | N2 |
| Saturated Paste pH | | | | | | | | |
| Analytical Method: WREP 125 S-1.10 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| pH at 25 Degrees C | 7.57 | Std. Units | 0.100 | 1 | | 08/07/24 15:06 | | N2 |

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ANALYTICAL RESULTS

Project: L1757520 WG2325486

Pace Project No.: 10700597

Sample: 20240715-ELU J14 496-
(23B-14-S) **Lab ID:** 10700597004 Collected: 07/15/24 10:35 Received: 07/19/24 10:10 Matrix: Solid**Results reported on a "wet-weight" basis**

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|------------|--------------|-----|----------------|----------------|-----------|------|
| Hot Water Soluble Boron | | | | | | | | |
| Analytical Method: WREP 125, S-7.10 Preparation Method: N/A | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Boron | ND | mg/kg | 0.30 | 1 | 07/30/24 11:25 | 07/30/24 15:04 | 7440-42-8 | N2 |
| Sodium Adsorption Ratio, SAR | | | | | | | | |
| Analytical Method: WREP 125 S-1.6 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Calcium saturated paste | 3.6 | meq/L | 0.25 | 10 | | 08/08/24 11:42 | 7440-70-2 | N2 |
| Magnesium saturated paste | 1.8 | meq/L | 0.41 | 10 | | 08/08/24 11:42 | 7439-95-4 | N2 |
| Sodium Adsorption Ratio | 2.9 | | | 10 | | 08/08/24 11:42 | | N2 |
| Sodium saturated paste | 4.9 | meq/L | 0.44 | 10 | | 08/08/24 11:42 | 7440-23-5 | N2 |
| 6020B MET ICPMS | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3050B | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Arsenic | 2.9 | mg/kg | 0.46 | 20 | 07/22/24 15:49 | 07/23/24 22:06 | 7440-38-2 | |
| Barium | 384 | mg/kg | 1.4 | 100 | 07/22/24 15:49 | 07/24/24 10:22 | 7440-39-3 | |
| Cadmium | 0.11 | mg/kg | 0.074 | 20 | 07/22/24 15:49 | 07/23/24 22:06 | 7440-43-9 | |
| Copper | 8.4 | mg/kg | 0.93 | 20 | 07/22/24 15:49 | 07/23/24 22:06 | 7440-50-8 | |
| Lead | 6.0 | mg/kg | 0.46 | 20 | 07/22/24 15:49 | 07/23/24 22:06 | 7439-92-1 | |
| Nickel | 11.1 | mg/kg | 0.46 | 20 | 07/22/24 15:49 | 07/23/24 22:06 | 7440-02-0 | |
| Selenium | ND | mg/kg | 0.46 | 20 | 07/22/24 15:49 | 07/23/24 22:06 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.46 | 20 | 07/22/24 15:49 | 07/23/24 22:06 | 7440-22-4 | |
| Zinc | 31.2 | mg/kg | 4.6 | 20 | 07/22/24 15:49 | 07/23/24 22:06 | 7440-66-6 | |
| Dry Weight / %M by ASTM D2974 | | | | | | | | |
| Analytical Method: ASTM D2974 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Percent Moisture | 32.3 | % | 0.10 | 1 | | 07/23/24 11:25 | | N2 |
| Saturated Paste Elect. Cond. | | | | | | | | |
| Analytical Method: WREP 125 S-1.20 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Specific Conductance | 1050 | umhos/cm | 5.0 | 1 | | 08/08/24 14:43 | | N2 |
| Saturated Paste pH | | | | | | | | |
| Analytical Method: WREP 125 S-1.10 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| pH at 25 Degrees C | 8.06 | Std. Units | 0.100 | 1 | | 08/07/24 15:08 | | N2 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L1757520 WG2325486

Pace Project No.: 10700597

Sample: 20240715-ELU J14 496-
(23B-14-E) **Lab ID:** 10700597005 Collected: 07/15/24 10:20 Received: 07/19/24 10:10 Matrix: Solid**Results reported on a "wet-weight" basis**

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|------------|--------------|-----|----------------|----------------|-----------|------|
| Hot Water Soluble Boron | | | | | | | | |
| Analytical Method: WREP 125, S-7.10 Preparation Method: N/A | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Boron | 0.46 | mg/kg | 0.30 | 1 | 07/30/24 11:25 | 07/30/24 15:05 | 7440-42-8 | N2 |
| Sodium Adsorption Ratio, SAR | | | | | | | | |
| Analytical Method: WREP 125 S-1.6 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Calcium saturated paste | 19.2 | meq/L | 0.25 | 10 | | 08/08/24 11:44 | 7440-70-2 | N2 |
| Magnesium saturated paste | 6.4 | meq/L | 0.41 | 10 | | 08/08/24 11:44 | 7439-95-4 | N2 |
| Sodium Adsorption Ratio | 3.9 | | | 10 | | 08/08/24 11:44 | | N2 |
| Sodium saturated paste | 13.9 | meq/L | 0.44 | 10 | | 08/08/24 11:44 | 7440-23-5 | N2 |
| 6020B MET ICPMS | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3050B | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Arsenic | 4.0 | mg/kg | 0.46 | 20 | 07/22/24 15:49 | 07/23/24 21:53 | 7440-38-2 | |
| Barium | 7910 | mg/kg | 7.0 | 500 | 07/22/24 15:49 | 07/24/24 10:15 | 7440-39-3 | |
| Cadmium | 0.23 | mg/kg | 0.074 | 20 | 07/22/24 15:49 | 07/23/24 21:53 | 7440-43-9 | |
| Copper | 50.2 | mg/kg | 0.93 | 20 | 07/22/24 15:49 | 07/23/24 21:53 | 7440-50-8 | |
| Lead | 9.9 | mg/kg | 0.46 | 20 | 07/22/24 15:49 | 07/23/24 21:53 | 7439-92-1 | |
| Nickel | 17.6 | mg/kg | 0.46 | 20 | 07/22/24 15:49 | 07/23/24 21:53 | 7440-02-0 | |
| Selenium | ND | mg/kg | 0.46 | 20 | 07/22/24 15:49 | 07/23/24 21:53 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.46 | 20 | 07/22/24 15:49 | 07/23/24 21:53 | 7440-22-4 | |
| Zinc | 133 | mg/kg | 4.6 | 20 | 07/22/24 15:49 | 07/23/24 21:53 | 7440-66-6 | |
| Dry Weight / %M by ASTM D2974 | | | | | | | | |
| Analytical Method: ASTM D2974 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Percent Moisture | 19.0 | % | 0.10 | 1 | | 07/23/24 11:26 | | N2 |
| Saturated Paste Elect. Cond. | | | | | | | | |
| Analytical Method: WREP 125 S-1.20 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Specific Conductance | 4260 | umhos/cm | 5.0 | 1 | | 08/08/24 14:43 | | N2 |
| Saturated Paste pH | | | | | | | | |
| Analytical Method: WREP 125 S-1.10 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| pH at 25 Degrees C | 7.70 | Std. Units | 0.100 | 1 | | 08/07/24 15:09 | | N2 |

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ANALYTICAL RESULTS

Project: L1757520 WG2325486

Pace Project No.: 10700597

Sample: 20240715-ELU J14 496-
(23B-14-W) **Lab ID:** 10700597006 Collected: 07/15/24 10:30 Received: 07/19/24 10:10 Matrix: Solid**Results reported on a "wet-weight" basis**

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|------------|--------------|-----|----------------|----------------|-----------|------|
| Hot Water Soluble Boron | | | | | | | | |
| Analytical Method: WREP 125, S-7.10 Preparation Method: N/A | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Boron | 0.40 | mg/kg | 0.30 | 1 | 07/30/24 11:25 | 07/30/24 15:07 | 7440-42-8 | N2 |
| Sodium Adsorption Ratio, SAR | | | | | | | | |
| Analytical Method: WREP 125 S-1.6 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Calcium saturated paste | 13.9 | meq/L | 0.25 | 10 | | 08/08/24 11:46 | 7440-70-2 | N2 |
| Magnesium saturated paste | 7.7 | meq/L | 0.41 | 10 | | 08/08/24 11:46 | 7439-95-4 | N2 |
| Sodium Adsorption Ratio | 4.7 | | | 10 | | 08/08/24 11:46 | | N2 |
| Sodium saturated paste | 15.4 | meq/L | 0.44 | 10 | | 08/08/24 11:46 | 7440-23-5 | N2 |
| 6020B MET ICPMS | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3050B | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Arsenic | 4.7 | mg/kg | 0.48 | 20 | 07/22/24 15:49 | 07/23/24 22:03 | 7440-38-2 | |
| Barium | 1320 | mg/kg | 2.9 | 200 | 07/22/24 15:49 | 07/24/24 10:19 | 7440-39-3 | |
| Cadmium | 0.12 | mg/kg | 0.077 | 20 | 07/22/24 15:49 | 07/23/24 22:03 | 7440-43-9 | |
| Copper | 13.8 | mg/kg | 0.96 | 20 | 07/22/24 15:49 | 07/23/24 22:03 | 7440-50-8 | |
| Lead | 10 | mg/kg | 0.48 | 20 | 07/22/24 15:49 | 07/23/24 22:03 | 7439-92-1 | |
| Nickel | 19.1 | mg/kg | 0.48 | 20 | 07/22/24 15:49 | 07/23/24 22:03 | 7440-02-0 | |
| Selenium | ND | mg/kg | 0.48 | 20 | 07/22/24 15:49 | 07/23/24 22:03 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.48 | 20 | 07/22/24 15:49 | 07/23/24 22:03 | 7440-22-4 | |
| Zinc | 79.1 | mg/kg | 4.8 | 20 | 07/22/24 15:49 | 07/23/24 22:03 | 7440-66-6 | |
| Dry Weight / %M by ASTM D2974 | | | | | | | | |
| Analytical Method: ASTM D2974 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Percent Moisture | 10.7 | % | 0.10 | 1 | | 07/23/24 11:26 | | N2 |
| Saturated Paste Elect. Cond. | | | | | | | | |
| Analytical Method: WREP 125 S-1.20 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| Specific Conductance | 3940 | umhos/cm | 5.0 | 1 | | 08/08/24 14:45 | | N2 |
| Saturated Paste pH | | | | | | | | |
| Analytical Method: WREP 125 S-1.10 | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | |
| pH at 25 Degrees C | 7.71 | Std. Units | 0.100 | 1 | | 08/07/24 15:10 | | N2 |

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QUALITY CONTROL DATA

Project: L1757520 WG2325486

Pace Project No.: 10700597

QC Batch: 961421 Analysis Method: WREP 125 S-1.6
QC Batch Method: WREP 125 S-1.6 Analysis Description: Saturated Paste SAR
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10700597001, 10700597002, 10700597003, 10700597004, 10700597005, 10700597006

METHOD BLANK: 5025073 Matrix: Solid
Associated Lab Samples: 10700597001, 10700597002, 10700597003, 10700597004, 10700597005, 10700597006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Calcium saturated paste | meq/L | ND | 0.025 | 08/08/24 11:05 | N2 |
| Magnesium saturated paste | meq/L | ND | 0.041 | 08/08/24 11:05 | N2 |
| Sodium Adsorption Ratio | | 0.0061 | | 08/08/24 11:05 | N2 |
| Sodium saturated paste | meq/L | ND | 0.044 | 08/08/24 11:05 | N2 |

| LABORATORY CONTROL SAMPLE & LCSD: 5025074 | | 5025075 | | | | | | | | |
|---|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
| Calcium saturated paste | meq/L | 1 | 0.96 | 0.96 | 96 | 96 | 80-120 | 0 | 20 | N2 |
| Magnesium saturated paste | meq/L | 1.6 | 1.6 | 1.6 | 96 | 96 | 80-120 | 0 | 20 | N2 |
| Sodium Adsorption Ratio | | | 0.74 | 0.75 | | | | 0 | 20 | N2 |
| Sodium saturated paste | meq/L | 0.87 | 0.84 | 0.84 | 96 | 97 | 80-120 | 0 | 20 | N2 |

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QUALITY CONTROL DATA

Project: L1757520 WG2325486

Pace Project No.: 10700597

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 957695 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3050B | Analysis Description: | 6020B Solids UPD5 |
| | | Laboratory: | Pace Analytical Services - Minneapolis |

Associated Lab Samples: 10700597001, 10700597002, 10700597003, 10700597004, 10700597005, 10700597006

METHOD BLANK: 5006729

Matrix: Solid

Associated Lab Samples: 10700597001, 10700597002, 10700597003, 10700597004, 10700597005, 10700597006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Arsenic | mg/kg | ND | 0.47 | 07/23/24 21:25 | |
| Barium | mg/kg | ND | 0.28 | 07/24/24 09:40 | |
| Cadmium | mg/kg | ND | 0.075 | 07/23/24 21:25 | |
| Copper | mg/kg | ND | 0.93 | 07/23/24 21:25 | |
| Lead | mg/kg | ND | 0.47 | 07/23/24 21:25 | |
| Nickel | mg/kg | ND | 0.47 | 07/23/24 21:25 | |
| Selenium | mg/kg | ND | 0.47 | 07/23/24 21:25 | |
| Silver | mg/kg | ND | 0.47 | 07/23/24 21:25 | |
| Zinc | mg/kg | ND | 4.7 | 07/23/24 21:25 | |

LABORATORY CONTROL SAMPLE: 5006730

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic | mg/kg | 45.8 | 45.2 | 99 | 80-120 | |
| Barium | mg/kg | 45.8 | 46.5 | 102 | 80-120 | |
| Cadmium | mg/kg | 45.8 | 45.4 | 99 | 80-120 | |
| Copper | mg/kg | 45.8 | 47.7 | 104 | 80-120 | |
| Lead | mg/kg | 45.8 | 46.2 | 101 | 80-120 | |
| Nickel | mg/kg | 45.8 | 46.0 | 101 | 80-120 | |
| Selenium | mg/kg | 45.8 | 47.0 | 103 | 80-120 | |
| Silver | mg/kg | 22.9 | 23.4 | 102 | 80-120 | |
| Zinc | mg/kg | 45.8 | 47.8 | 104 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5006731 5006732

| Parameter | Units | 10700774001 | MS | MSD | MS | MSD | MS | MSD | % Rec | RPD | Max | Qual |
|-----------|-------|-------------|-------------|-------------|------|------|-----|-----|--------|-----|-----|-------------|
| | | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Arsenic | mg/kg | 15.8 | 56.1 | 55.3 | 77.2 | 71.7 | 105 | 96 | 75-125 | 7 | 20 | E,P6, R1 |
| Barium | mg/kg | 335 | 56.1 | 55.3 | 399 | 646 | 13 | 461 | 75-125 | 47 | 20 | |
| Cadmium | mg/kg | 0.35 | 56.1 | 55.3 | 53.1 | 55.2 | 94 | 99 | 75-125 | 4 | 20 | |
| Copper | mg/kg | 22.2 | 56.1 | 55.3 | 75.7 | 76.7 | 89 | 92 | 75-125 | 1 | 20 | |
| Lead | mg/kg | 16.0 | 56.1 | 55.3 | 69.4 | 71.7 | 90 | 96 | 75-125 | 3 | 20 | |
| Nickel | mg/kg | 17.6 | 56.1 | 55.3 | 70.9 | 75.6 | 90 | 100 | 75-125 | 6 | 20 | |
| Selenium | mg/kg | 0.58 | 56.1 | 55.3 | 53.9 | 55.0 | 95 | 98 | 75-125 | 2 | 20 | |
| Silver | mg/kg | ND | 28 | 27.7 | 26.1 | 27.2 | 93 | 98 | 75-125 | 4 | 20 | |
| Zinc | mg/kg | 59.6 | 56.1 | 55.3 | 120 | 127 | 89 | 103 | 75-125 | 6 | 20 | |

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QUALITY CONTROL DATA

Project: L1757520 WG2325486

Pace Project No.: 10700597

QC Batch: 959290

Analysis Method: WREP 125, S-7.10

QC Batch Method: N/A

Analysis Description: Hot Water Soluble Boron

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10700597001, 10700597002, 10700597003, 10700597004, 10700597005, 10700597006

METHOD BLANK: 5015514

Matrix: Solid

Associated Lab Samples: 10700597001, 10700597002, 10700597003, 10700597004, 10700597005, 10700597006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Boron | mg/kg | ND | 0.30 | 07/30/24 14:20 | N2 |

LABORATORY CONTROL SAMPLE: 5015515

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Boron | mg/kg | 2 | 2.0 | 100 | 80-120 | N2 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5015516 5015517

| Parameter | Units | 10700498006 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|-------|
| Boron | mg/kg | 0.80 | 2 | 2 | 1.7 | 1.5 | 45 | 35 | 75-125 | 11 | 20 | M1,N2 |

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QUALITY CONTROL DATA

Project: L1757520 WG2325486

Pace Project No.: 10700597

QC Batch: 957988

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight / %M by ASTM D2974

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10700597001, 10700597002, 10700597003, 10700597004, 10700597005, 10700597006

SAMPLE DUPLICATE: 5007916

| Parameter | Units | 10700591001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | % | 16.3 | 16.8 | 3 | 30 | N2 |

SAMPLE DUPLICATE: 5008065

| Parameter | Units | 10700659004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | % | 2.7 | 2.4 | 9 | 30 | N2 |

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QUALITY CONTROL DATA

Project: L1757520 WG2325486

Pace Project No.: 10700597

| | | | |
|------------------|-----------------|-----------------------|--|
| QC Batch: | 961121 | Analysis Method: | WREP 125 S-1.20 |
| QC Batch Method: | WREP 125 S-1.20 | Analysis Description: | Electrical Conductivity Paste |
| | | Laboratory: | Pace Analytical Services - Minneapolis |

Associated Lab Samples: 10700597001, 10700597002, 10700597003, 10700597004, 10700597005, 10700597006

METHOD BLANK: 5023923 Matrix: Solid

Associated Lab Samples: 10700597001, 10700597002, 10700597003, 10700597004, 10700597005, 10700597006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|----------------------|----------|--------------|-----------------|----------------|------------|
| Specific Conductance | umhos/cm | ND | 5.0 | 08/08/24 14:36 | N2 |

LABORATORY CONTROL SAMPLE: 5023924

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|----------|-------------|------------|-----------|--------------|------------|
| Specific Conductance | umhos/cm | 1000 | 957 | 96 | 90-110 | N2 |

SAMPLE DUPLICATE: 5025000

| Parameter | Units | 10700597001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|----------------------|----------|--------------------|------------|-----|---------|------------|
| Specific Conductance | umhos/cm | 8300 | 8250 | 1 | 20 | N2 |

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QUALITY CONTROL DATA

Project: L1757520 WG2325486
Pace Project No.: 10700597

QC Batch: 961120 Analysis Method: WREP 125 S-1.10
QC Batch Method: WREP 125 S-1.10 Analysis Description: Saturated Paste pH
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10700597001, 10700597002, 10700597003, 10700597004, 10700597005, 10700597006

SAMPLE DUPLICATE: 5023921

| Parameter | Units | 10700498001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------------|------------|-----------------------|---------------|-------|------------|------------|
| pH at 25 Degrees C | Std. Units | 7.79 | 7.76 | 0.386 | | 3 N2 |

SAMPLE DUPLICATE: 5023922

| Parameter | Units | 10700498011 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------------|------------|-----------------------|---------------|-------|------------|------------|
| pH at 25 Degrees C | Std. Units | 6.74 | 6.68 | 0.894 | | 3 N2 |

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QUALIFIERS

Project: L1757520 WG2325486

Pace Project No.: 10700597

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 961421

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1757520 WG2325486

Pace Project No.: 10700597

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------------------|-----------------|----------|-------------------|------------------|
| 10700597003 | 20240715-ELU J14 496-(23B-14-N | N/A | 959290 | WREP 125, S-7.10 | 959441 |
| 10700597001 | 20240715-ELU J14 496-(23B-14-P | N/A | 959290 | WREP 125, S-7.10 | 959441 |
| 10700597005 | 20240715-ELU J14 496-(23B-14-E | N/A | 959290 | WREP 125, S-7.10 | 959441 |
| 10700597006 | 20240715-ELU J14 496-(23B-14-W | N/A | 959290 | WREP 125, S-7.10 | 959441 |
| 10700597004 | 20240715-ELU J14 496-(23B-14-S | N/A | 959290 | WREP 125, S-7.10 | 959441 |
| 10700597002 | 20240715-ELU J14 496-(23B-14-B | N/A | 959290 | WREP 125, S-7.10 | 959441 |
| 10700597003 | 20240715-ELU J14 496-(23B-14-N | WREP 125 S-1.6 | 961421 | | |
| 10700597001 | 20240715-ELU J14 496-(23B-14-P | WREP 125 S-1.6 | 961421 | | |
| 10700597005 | 20240715-ELU J14 496-(23B-14-E | WREP 125 S-1.6 | 961421 | | |
| 10700597006 | 20240715-ELU J14 496-(23B-14-W | WREP 125 S-1.6 | 961421 | | |
| 10700597004 | 20240715-ELU J14 496-(23B-14-S | WREP 125 S-1.6 | 961421 | | |
| 10700597002 | 20240715-ELU J14 496-(23B-14-B | WREP 125 S-1.6 | 961421 | | |
| 10700597003 | 20240715-ELU J14 496-(23B-14-N | EPA 3050B | 957695 | EPA 6020B | 958131 |
| 10700597001 | 20240715-ELU J14 496-(23B-14-P | EPA 3050B | 957695 | EPA 6020B | 958131 |
| 10700597005 | 20240715-ELU J14 496-(23B-14-E | EPA 3050B | 957695 | EPA 6020B | 958131 |
| 10700597006 | 20240715-ELU J14 496-(23B-14-W | EPA 3050B | 957695 | EPA 6020B | 958131 |
| 10700597004 | 20240715-ELU J14 496-(23B-14-S | EPA 3050B | 957695 | EPA 6020B | 958131 |
| 10700597002 | 20240715-ELU J14 496-(23B-14-B | EPA 3050B | 957695 | EPA 6020B | 958131 |
| 10700597003 | 20240715-ELU J14 496-(23B-14-N | ASTM D2974 | 957988 | | |
| 10700597001 | 20240715-ELU J14 496-(23B-14-P | ASTM D2974 | 957988 | | |
| 10700597005 | 20240715-ELU J14 496-(23B-14-E | ASTM D2974 | 957988 | | |
| 10700597006 | 20240715-ELU J14 496-(23B-14-W | ASTM D2974 | 957988 | | |
| 10700597004 | 20240715-ELU J14 496-(23B-14-S | ASTM D2974 | 957988 | | |
| 10700597002 | 20240715-ELU J14 496-(23B-14-B | ASTM D2974 | 957988 | | |
| 10700597003 | 20240715-ELU J14 496-(23B-14-N | WREP 125 S-1.20 | 961121 | | |
| 10700597001 | 20240715-ELU J14 496-(23B-14-P | WREP 125 S-1.20 | 961121 | | |
| 10700597005 | 20240715-ELU J14 496-(23B-14-E | WREP 125 S-1.20 | 961121 | | |
| 10700597006 | 20240715-ELU J14 496-(23B-14-W | WREP 125 S-1.20 | 961121 | | |
| 10700597004 | 20240715-ELU J14 496-(23B-14-S | WREP 125 S-1.20 | 961121 | | |
| 10700597002 | 20240715-ELU J14 496-(23B-14-B | WREP 125 S-1.20 | 961121 | | |
| 10700597003 | 20240715-ELU J14 496-(23B-14-N | WREP 125 S-1.10 | 961120 | | |
| 10700597001 | 20240715-ELU J14 496-(23B-14-P | WREP 125 S-1.10 | 961120 | | |
| 10700597005 | 20240715-ELU J14 496-(23B-14-E | WREP 125 S-1.10 | 961120 | | |
| 10700597006 | 20240715-ELU J14 496-(23B-14-W | WREP 125 S-1.10 | 961120 | | |
| 10700597004 | 20240715-ELU J14 496-(23B-14-S | WREP 125 S-1.10 | 961120 | | |
| 10700597002 | 20240715-ELU J14 496-(23B-14-B | WREP 125 S-1.10 | 961120 | | |


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Sub-Contract Chain of Custody

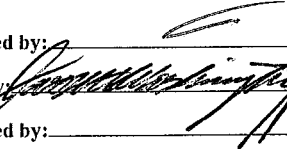
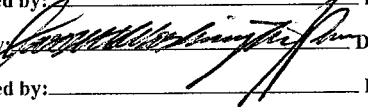
Batch Date/Time: 07/18/24 10:11
 Sub-Contract Lab: PACEMN
 Address: 1700 Elm Street Suite 200
 SE
 City/State: Minneapolis, MN 55414
 Contact:
 Kirsten.Hogberg@pacelabs.com
 Owner Lab: PACEMTJL
 Address: 12065 Lebanon Rd.
 City/State: Mt. Juliet, TN 37122
 Phone: (615) 773-9756
 Fax: (615) 758-5859

WO: WG2325486
 Email: MTJLSuboutTeam@pacelabs.com
 Results Due Date: 07/24/24
 ESC Purchase Order #: L1757520
 Send Reports to: James C Huckaba

 Pace Analytical®
 12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 Phone: (615) 773-9756
 Fax: (615) 758-5859

| Sample ID Container ID | Matrix | State | Collect Date | Description | Sample Number Lab Use Only | Sample Comments Lab Use Only |
|--|--------|-------|-------------------|-----------------------------|-------------------------------|---|
| 20240715-ELU J14 496- (23B-14-POR)@4 | SS | CO | 07/15/24 10:15 | SUB TABLE 915 INORGANICS | 1. L1757520-01 | Hot Water Soluble Boron, SAR including pH and EC, 6020 Ag, As, Ba, Cd, Cu, Ni, Pb, Se, Zn |
| 20240715-ELU J14 496- (23B-14-BASE)@3 | SS | CO | 07/15/24 10:40 | SUB TABLE 915 INORGANICS | 2. L1757520-02 | Hot Water Soluble Boron, SAR including pH and EC, 6020 Ag, As, Ba, Cd, Cu, Ni, Pb, Se, Zn |
| 20240715-ELU J14 496- (23B-14-NW)@4 | SS | CO | 07/15/24 10:05 | SUB TABLE 915 INORGANICS | 3. L1757520-03 | Hot Water Soluble Boron, SAR including pH and EC, 6020 Ag, As, Ba, Cd, Cu, Ni, Pb, Se, Zn |
| 20240715-ELU J14 496- (23B-14-SW)@2 | SS | CO | 07/15/24 10:35 | SUB TABLE 915 INORGANICS | 4. L1757520-04 | Hot Water Soluble Boron, SAR including pH and EC, 6020 Ag, As, Ba, Cd, Cu, Ni, Pb, Se, Zn |
| 20240715-ELU J14 496- (23B-14-EW)@3.5 | SS | CO | 07/15/24 10:20 | SUB TABLE 915 INORGANICS | 5. L1757520-05 | Hot Water Soluble Boron, SAR including pH and EC, 6020 Ag, As, Ba, Cd, Cu, Ni, Pb, Se, Zn |
| 20240715-ELU J14 496- (23B-14-WW)@2.5 | SS | CO | 07/15/24 10:30 | SUB TABLE 915 INORGANICS | 6. L1757520-06 | Hot Water Soluble Boron, SAR including pH and EC, 6020 Ag, As, Ba, Cd, Cu, Ni, Pb, Se, Zn |

*= Container used for multiple Samples and/or Analyses

Relinquished by:  Date: 7.18.24
 Recieved by:  Date: 7/19/24 10:10 / cooler #2 945
 Relinquished by: _____ Date: _____
 Recieved by: _____ Date: _____

WO# : 10700597



10700597

ENV-FRM-MIN4-0150 v17 Sample Condition Upon Receipt

CLIENT NAME: Fluor National

PROJECT #:

WO#: **10700597**

COURIER: ☐ Client ☐ Commercial ☒ FedEx ☐ Pace
☐ SpeedDee ☐ UPS ☐ USPS

PM: Y01

Due Date: 07/30/24

CLIENT: PASI-TN

TRACKING NUMBER: 404104705061 ☐ See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: ☐ YES ☒ NO Seals Intact: ☐ YES ☒ NO Biological Tissue Frozen: ☐ YES ☐ NO ☒ N/A
Packing Material: ☒ Bubble Bags ☒ Bubble Wrap ☐ None ☐ Other Temp Blank: ☒ YES ☐ NO Type of Ice: ☐ Blue ☐ Dry ☒ Wet
Thermometer: ☐ T1 (0461) ☐ T2 (0436) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235)
☐ T7 (0042) ☐ T8 (0775) ☒ T9 (0727) ☐ 01339252 (1710) ☐ Melted ☐ None

Did Samples Originate in West Virginia: ☐ YES ☒ NO Were All Container Temps taken: ☐ YES ☐ NO ☒ N/A
Correction Factor: 1.1 Cooler Temp Read w/Temp Blank: 1.6 °C Average Corrected Temp (no Temp Blank Only): _____ °C
Cooler Temp Corrected w/Temp Blank: 1.6 °C
NOTE: Temp should be above freezing to 6°C. ☐ See Exceptions Form ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: ☐ N/A - Water Sample/Other (describe): _____ Initials & Date of Person Examining Contents: JMW 7/19/24
Did Samples originate from one of the following states (check maps) - AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☐ YES ☒ NO Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☒ NO
NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

| LOCATION (check one): | <input type="checkbox"/> DULUTH | <input checked="" type="checkbox"/> MINNEAPOLIS | <input type="checkbox"/> VIRGINIA | YES | NO | N/A | COMMENT(S) | | | | | | | | |
|---|---------------------------------|---|-----------------------------------|-------------------------------------|--------------------------|-----|---|-------------------|----------|-----------|------------|--|--|--|--|
| Chain of Custody Present and Filled Out? | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | 1. | | | | | | | | |
| Chain of Custody Relinquished? | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | 2. | | | | | | | | |
| Sampler Name and/or Signature on COC? | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | 3. | | | | | | | | |
| Samples Arrived within Hold Time? | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | 4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No | | | | | | | | |
| Short Hold Time Analysis (<72 hr)? | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | 5. <input type="checkbox"/> BOD / cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom <input type="checkbox"/> HPC <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos <input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other: _____ | | | | | | | | |
| Rush Turn Around Time Requested? | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | 6. | | | | | | | | |
| Sufficient Sample Volume? | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | 7. | | | | | | | | |
| Correct Containers Used? | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | 8. | | | | | | | | |
| - Pace Containers Used? | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| Containers Intact? | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | 9. | | | | | | | | |
| Field Filtered Volume Received for Dissolved Tests? | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | 10. Is sediment visible in the dissolved container: <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | | | | | |
| Is sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11. Matrix: <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Other | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | 11. If NO, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142 | | | | | | | | |
| All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | 12. Sample #: <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO <p style="text-align: center;">pH Paper Lot #</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>Residual Chlorine</th> <th>0-6 Roll</th> <th>0-6 Strip</th> <th>0-14 Strip</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142 | Residual Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip | | | | |
| Residual Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Headspace in Methyl Mercury Container? | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | 13. | | | | | | | | |
| Extra labels present on soil VOA or WIDRO containers? | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | 14. | | | | | | | | |
| Headspace in VOA Vials (greater than 6mm)? | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0140 | | | | | | | | |
| Trip Blanks Present? | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | 15. | | | | | | | | |
| Trip Blank Custody Seals Present? | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | Pace Trip Blank Lot # (if purchased): _____ | | | | | | | | |

CLIENT NOTIFICATION / RESOLUTION

FIELD DATA REQUIRED: ☐ YES ☐ NO

Person Contacted: _____ Date & Time: _____

Comments / Resolution: _____

Project Manager Review: Yeng Ozawa

Date: 7/19/24

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: JMW

Line: 5

Workorder #: _____

| No Temp Blank | | |
|---------------|----------------|--------------|
| Read Temp | Corrected Temp | Average temp |
| | | |
| | | |
| | | |
| | | |

| |
|--|
| PM Notified of Out of Temp Cooler? <input type="checkbox"/> YES <input type="checkbox"/> NO If yes, indicate who was contacted, date and time. If no, indicate reason why. _____ |
| Multiple Cooler Project? <input type="checkbox"/> YES <input type="checkbox"/> NO |

If anything is OVER 6.0°C, you **MUST** document containers in this section **HERE**



| Tracking Number | Temperature |
|-----------------|-------------|
| 404104705072 | 1.9 |
| | |
| | |
| | |
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| | |

| Out of Temp Sample ID | Container Type | # of Containers |
|-----------------------|----------------|-----------------|
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| | | |

| pH Adjustment Log for Preserved Samples | | | | | | | | | | |
|---|------------------|-----------------|---------------|---------------|-------------------|-------------|----------|-------------------------------|--------------------------|----------|
| Sample ID | Type Of Preserve | pH Upon Receipt | Date Adjusted | Time Adjusted | Amount Added (mL) | Lot # Added | pH After | In Compliance After Addition? | | Initials |
| | | | | | | | | YES | NO | |
| | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | |
| | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | |
| | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | |
| | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | |
| | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | |
| | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | |
| | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | |
| | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | |

Comments:

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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