

QB Energy

Sample Delivery Group: L1796142
Samples Received: 11/06/2024
Project Number: J17E
Description: J17E Dumpline
Site: J17E
Report To: Jake J. / Brett M. / Blair R. / Andy V.
143 Diamond Avenue
Parachute, CO 81635

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Entire Report Reviewed By:



Chris Ward
Project Manager

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

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

| | |
|---|----|
| Cp: Cover Page | 1 |
| Tc: Table of Contents | 2 |
| Ss: Sample Summary | 3 |
| Cn: Case Narrative | 4 |
| Sr: Sample Results | 5 |
| 20241104-MCWP-(J17E-MW01) L1796142-01 | 5 |
| 20241104-MCWP-(J17E-MW04) L1796142-02 | 6 |
| 20241104-MCWP-(J17E-MW05) L1796142-03 | 7 |
| 20241104-MCWP-(J17E-MW06) L1796142-04 | 8 |
| 20241104-MCWP-(J17E-MW08) L1796142-05 | 9 |
| 20241104-MCWP-(J17E-MW10) L1796142-06 | 10 |
| 20241104-MCWP-(J17E-SB02 TB) L1796142-07 | 11 |
| Qc: Quality Control Summary | 12 |
| Volatile Organic Compounds (GC/MS) by Method 8260B | 12 |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | 13 |
| Gl: Glossary of Terms | 14 |
| Al: Accreditations & Locations | 15 |
| Sc: Sample Chain of Custody | 16 |

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

SAMPLE SUMMARY

20241104-MCWP-(J17E-MW01) L1796142-01 GW

Collected by
Alex Asay

Collected date/time
11/04/24 11:32

Received date/time
11/06/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2399811 | 1 | 11/12/24 07:11 | 11/12/24 07:11 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2396982 | 1 | 11/07/24 08:28 | 11/08/24 02:58 | JCH | Mt. Juliet, TN |

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

20241104-MCWP-(J17E-MW04) L1796142-02 GW

Collected by
Alex Asay

Collected date/time
11/04/24 14:48

Received date/time
11/06/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2399811 | 1 | 11/12/24 07:34 | 11/12/24 07:34 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2396982 | 1 | 11/07/24 08:28 | 11/08/24 00:39 | JCH | Mt. Juliet, TN |

20241104-MCWP-(J17E-MW05) L1796142-03 GW

Collected by
Alex Asay

Collected date/time
11/04/24 14:17

Received date/time
11/06/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2399811 | 1 | 11/12/24 07:57 | 11/12/24 07:57 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2396982 | 1 | 11/07/24 08:28 | 11/08/24 00:56 | JCH | Mt. Juliet, TN |

20241104-MCWP-(J17E-MW06) L1796142-04 GW

Collected by
Alex Asay

Collected date/time
11/04/24 11:01

Received date/time
11/06/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2399811 | 1 | 11/12/24 08:20 | 11/12/24 08:20 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2396982 | 1 | 11/07/24 08:28 | 11/08/24 01:14 | JCH | Mt. Juliet, TN |

20241104-MCWP-(J17E-MW08) L1796142-05 GW

Collected by
Alex Asay

Collected date/time
11/04/24 15:09

Received date/time
11/06/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2399811 | 1 | 11/12/24 08:43 | 11/12/24 08:43 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2396982 | 1 | 11/07/24 08:28 | 11/08/24 01:31 | JCH | Mt. Juliet, TN |

20241104-MCWP-(J17E-MW10) L1796142-06 GW

Collected by
Alex Asay

Collected date/time
11/04/24 16:08

Received date/time
11/06/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2399811 | 1 | 11/12/24 09:06 | 11/12/24 09:06 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2396982 | 1 | 11/07/24 08:28 | 11/08/24 01:49 | JCH | Mt. Juliet, TN |

20241104-MCWP-(J17E-SB02 TB) L1796142-07 GW

Collected by
Alex Asay

Collected date/time
11/04/24 15:31

Received date/time
11/06/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2399811 | 1 | 11/12/24 09:29 | 11/12/24 09:29 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2396982 | 1 | 11/07/24 08:28 | 11/08/24 02:06 | JCH | Mt. Juliet, TN |

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward
Project Manager

Report Revision History

Level II Report - Version 1: 11/15/24 14:47
Level II Report - Version 2: 11/18/24 11:55

Project Narrative

Revised sample ID for L1796142-07.

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

| <u>Lab Sample ID</u> | <u>Project Sample ID</u> | <u>Method</u> |
|-----------------------------|--|---------------|
| L1796142-02 | 20241104-MCWP-(J17E-MW04) | 8260B |
| L1796142-05 | 20241104-MCWP-(J17E-MW08) | 8260B |
| L1796142-07 | 20241104-MCWP-(J17E-SB02 TB) | 8260B |



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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.0000941 | 0.00100 | 1 | 11/12/2024 07:11 | WG2399811 |
| Toluene | U | | 0.000278 | 0.00100 | 1 | 11/12/2024 07:11 | WG2399811 |
| Ethylbenzene | U | | 0.000137 | 0.00100 | 1 | 11/12/2024 07:11 | WG2399811 |
| Xylenes, Total | U | | 0.000174 | 0.00300 | 1 | 11/12/2024 07:11 | WG2399811 |
| Naphthalene | U | | 0.00100 | 0.00500 | 1 | 11/12/2024 07:11 | WG2399811 |
| 1,2,4-Trimethylbenzene | U | | 0.000322 | 0.00100 | 1 | 11/12/2024 07:11 | WG2399811 |
| 1,3,5-Trimethylbenzene | U | | 0.000104 | 0.00100 | 1 | 11/12/2024 07:11 | WG2399811 |
| (S) Toluene-d8 | 99.7 | | | 80.0-120 | | 11/12/2024 07:11 | WG2399811 |
| (S) 4-Bromofluorobenzene | 109 | | | 77.0-126 | | 11/12/2024 07:11 | WG2399811 |
| (S) 1,2-Dichloroethane-d4 | 108 | | | 70.0-130 | | 11/12/2024 07:11 | WG2399811 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Naphthalene | U | | 0.0000917 | 0.000250 | 1 | 11/08/2024 02:58 | WG2396982 |
| 1-Methylnaphthalene | U | | 0.0000687 | 0.000250 | 1 | 11/08/2024 02:58 | WG2396982 |
| 2-Methylnaphthalene | U | | 0.0000674 | 0.000250 | 1 | 11/08/2024 02:58 | WG2396982 |
| (S) Nitrobenzene-d5 | 138 | | | 31.0-160 | | 11/08/2024 02:58 | WG2396982 |
| (S) 2-Fluorobiphenyl | 134 | | | 48.0-148 | | 11/08/2024 02:58 | WG2396982 |
| (S) p-Terphenyl-d14 | 126 | | | 37.0-146 | | 11/08/2024 02:58 | WG2396982 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.0000941 | 0.00100 | 1 | 11/12/2024 07:34 | WG2399811 |
| Toluene | U | | 0.000278 | 0.00100 | 1 | 11/12/2024 07:34 | WG2399811 |
| Ethylbenzene | U | | 0.000137 | 0.00100 | 1 | 11/12/2024 07:34 | WG2399811 |
| Xylenes, Total | U | | 0.000174 | 0.00300 | 1 | 11/12/2024 07:34 | WG2399811 |
| Naphthalene | U | | 0.00100 | 0.00500 | 1 | 11/12/2024 07:34 | WG2399811 |
| 1,2,4-Trimethylbenzene | U | | 0.000322 | 0.00100 | 1 | 11/12/2024 07:34 | WG2399811 |
| 1,3,5-Trimethylbenzene | U | | 0.000104 | 0.00100 | 1 | 11/12/2024 07:34 | WG2399811 |
| (S) Toluene-d8 | 95.1 | | | 80.0-120 | | 11/12/2024 07:34 | WG2399811 |
| (S) 4-Bromofluorobenzene | 99.4 | | | 77.0-126 | | 11/12/2024 07:34 | WG2399811 |
| (S) 1,2-Dichloroethane-d4 | 111 | | | 70.0-130 | | 11/12/2024 07:34 | WG2399811 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Naphthalene | U | | 0.0000917 | 0.000250 | 1 | 11/08/2024 00:39 | WG2396982 |
| 1-Methylnaphthalene | U | | 0.0000687 | 0.000250 | 1 | 11/08/2024 00:39 | WG2396982 |
| 2-Methylnaphthalene | U | | 0.0000674 | 0.000250 | 1 | 11/08/2024 00:39 | WG2396982 |
| (S) Nitrobenzene-d5 | 120 | | | 31.0-160 | | 11/08/2024 00:39 | WG2396982 |
| (S) 2-Fluorobiphenyl | 135 | | | 48.0-148 | | 11/08/2024 00:39 | WG2396982 |
| (S) p-Terphenyl-d14 | 126 | | | 37.0-146 | | 11/08/2024 00:39 | WG2396982 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.0000941 | 0.00100 | 1 | 11/12/2024 07:57 | WG2399811 |
| Toluene | U | | 0.000278 | 0.00100 | 1 | 11/12/2024 07:57 | WG2399811 |
| Ethylbenzene | U | | 0.000137 | 0.00100 | 1 | 11/12/2024 07:57 | WG2399811 |
| Xylenes, Total | U | | 0.000174 | 0.00300 | 1 | 11/12/2024 07:57 | WG2399811 |
| Naphthalene | U | | 0.00100 | 0.00500 | 1 | 11/12/2024 07:57 | WG2399811 |
| 1,2,4-Trimethylbenzene | U | | 0.000322 | 0.00100 | 1 | 11/12/2024 07:57 | WG2399811 |
| 1,3,5-Trimethylbenzene | U | | 0.000104 | 0.00100 | 1 | 11/12/2024 07:57 | WG2399811 |
| (S) Toluene-d8 | 97.6 | | | 80.0-120 | | 11/12/2024 07:57 | WG2399811 |
| (S) 4-Bromofluorobenzene | 96.6 | | | 77.0-126 | | 11/12/2024 07:57 | WG2399811 |
| (S) 1,2-Dichloroethane-d4 | 109 | | | 70.0-130 | | 11/12/2024 07:57 | WG2399811 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Naphthalene | U | | 0.0000917 | 0.000250 | 1 | 11/08/2024 00:56 | WG2396982 |
| 1-Methylnaphthalene | U | | 0.0000687 | 0.000250 | 1 | 11/08/2024 00:56 | WG2396982 |
| 2-Methylnaphthalene | U | | 0.0000674 | 0.000250 | 1 | 11/08/2024 00:56 | WG2396982 |
| (S) Nitrobenzene-d5 | 116 | | | 31.0-160 | | 11/08/2024 00:56 | WG2396982 |
| (S) 2-Fluorobiphenyl | 136 | | | 48.0-148 | | 11/08/2024 00:56 | WG2396982 |
| (S) p-Terphenyl-d14 | 130 | | | 37.0-146 | | 11/08/2024 00:56 | WG2396982 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.0000941 | 0.00100 | 1 | 11/12/2024 08:20 | WG2399811 |
| Toluene | U | | 0.000278 | 0.00100 | 1 | 11/12/2024 08:20 | WG2399811 |
| Ethylbenzene | U | | 0.000137 | 0.00100 | 1 | 11/12/2024 08:20 | WG2399811 |
| Xylenes, Total | U | | 0.000174 | 0.00300 | 1 | 11/12/2024 08:20 | WG2399811 |
| Naphthalene | U | | 0.00100 | 0.00500 | 1 | 11/12/2024 08:20 | WG2399811 |
| 1,2,4-Trimethylbenzene | U | | 0.000322 | 0.00100 | 1 | 11/12/2024 08:20 | WG2399811 |
| 1,3,5-Trimethylbenzene | U | | 0.000104 | 0.00100 | 1 | 11/12/2024 08:20 | WG2399811 |
| (S) Toluene-d8 | 96.1 | | | 80.0-120 | | 11/12/2024 08:20 | WG2399811 |
| (S) 4-Bromofluorobenzene | 97.3 | | | 77.0-126 | | 11/12/2024 08:20 | WG2399811 |
| (S) 1,2-Dichloroethane-d4 | 109 | | | 70.0-130 | | 11/12/2024 08:20 | WG2399811 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Naphthalene | U | | 0.0000917 | 0.000250 | 1 | 11/08/2024 01:14 | WG2396982 |
| 1-Methylnaphthalene | U | | 0.0000687 | 0.000250 | 1 | 11/08/2024 01:14 | WG2396982 |
| 2-Methylnaphthalene | U | | 0.0000674 | 0.000250 | 1 | 11/08/2024 01:14 | WG2396982 |
| (S) Nitrobenzene-d5 | 109 | | | 31.0-160 | | 11/08/2024 01:14 | WG2396982 |
| (S) 2-Fluorobiphenyl | 132 | | | 48.0-148 | | 11/08/2024 01:14 | WG2396982 |
| (S) p-Terphenyl-d14 | 119 | | | 37.0-146 | | 11/08/2024 01:14 | WG2396982 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.0000941 | 0.00100 | 1 | 11/12/2024 08:43 | WG2399811 |
| Toluene | U | | 0.000278 | 0.00100 | 1 | 11/12/2024 08:43 | WG2399811 |
| Ethylbenzene | U | | 0.000137 | 0.00100 | 1 | 11/12/2024 08:43 | WG2399811 |
| Xylenes, Total | U | | 0.000174 | 0.00300 | 1 | 11/12/2024 08:43 | WG2399811 |
| Naphthalene | U | | 0.00100 | 0.00500 | 1 | 11/12/2024 08:43 | WG2399811 |
| 1,2,4-Trimethylbenzene | U | | 0.000322 | 0.00100 | 1 | 11/12/2024 08:43 | WG2399811 |
| 1,3,5-Trimethylbenzene | U | | 0.000104 | 0.00100 | 1 | 11/12/2024 08:43 | WG2399811 |
| (S) Toluene-d8 | 96.1 | | | 80.0-120 | | 11/12/2024 08:43 | WG2399811 |
| (S) 4-Bromofluorobenzene | 96.1 | | | 77.0-126 | | 11/12/2024 08:43 | WG2399811 |
| (S) 1,2-Dichloroethane-d4 | 108 | | | 70.0-130 | | 11/12/2024 08:43 | WG2399811 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Naphthalene | U | | 0.0000917 | 0.000250 | 1 | 11/08/2024 01:31 | WG2396982 |
| 1-Methylnaphthalene | U | | 0.0000687 | 0.000250 | 1 | 11/08/2024 01:31 | WG2396982 |
| 2-Methylnaphthalene | U | | 0.0000674 | 0.000250 | 1 | 11/08/2024 01:31 | WG2396982 |
| (S) Nitrobenzene-d5 | 114 | | | 31.0-160 | | 11/08/2024 01:31 | WG2396982 |
| (S) 2-Fluorobiphenyl | 133 | | | 48.0-148 | | 11/08/2024 01:31 | WG2396982 |
| (S) p-Terphenyl-d14 | 127 | | | 37.0-146 | | 11/08/2024 01:31 | WG2396982 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.0000941 | 0.00100 | 1 | 11/12/2024 09:06 | WG2399811 |
| Toluene | U | | 0.000278 | 0.00100 | 1 | 11/12/2024 09:06 | WG2399811 |
| Ethylbenzene | U | | 0.000137 | 0.00100 | 1 | 11/12/2024 09:06 | WG2399811 |
| Xylenes, Total | U | | 0.000174 | 0.00300 | 1 | 11/12/2024 09:06 | WG2399811 |
| Naphthalene | U | | 0.00100 | 0.00500 | 1 | 11/12/2024 09:06 | WG2399811 |
| 1,2,4-Trimethylbenzene | U | | 0.000322 | 0.00100 | 1 | 11/12/2024 09:06 | WG2399811 |
| 1,3,5-Trimethylbenzene | U | | 0.000104 | 0.00100 | 1 | 11/12/2024 09:06 | WG2399811 |
| (S) Toluene-d8 | 98.3 | | | 80.0-120 | | 11/12/2024 09:06 | WG2399811 |
| (S) 4-Bromofluorobenzene | 96.8 | | | 77.0-126 | | 11/12/2024 09:06 | WG2399811 |
| (S) 1,2-Dichloroethane-d4 | 109 | | | 70.0-130 | | 11/12/2024 09:06 | WG2399811 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Naphthalene | U | | 0.0000917 | 0.000250 | 1 | 11/08/2024 01:49 | WG2396982 |
| 1-Methylnaphthalene | U | | 0.0000687 | 0.000250 | 1 | 11/08/2024 01:49 | WG2396982 |
| 2-Methylnaphthalene | U | | 0.0000674 | 0.000250 | 1 | 11/08/2024 01:49 | WG2396982 |
| (S) Nitrobenzene-d5 | 114 | | | 31.0-160 | | 11/08/2024 01:49 | WG2396982 |
| (S) 2-Fluorobiphenyl | 132 | | | 48.0-148 | | 11/08/2024 01:49 | WG2396982 |
| (S) p-Terphenyl-d14 | 107 | | | 37.0-146 | | 11/08/2024 01:49 | WG2396982 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.0000941 | 0.00100 | 1 | 11/12/2024 09:29 | WG2399811 |
| Toluene | U | | 0.000278 | 0.00100 | 1 | 11/12/2024 09:29 | WG2399811 |
| Ethylbenzene | U | | 0.000137 | 0.00100 | 1 | 11/12/2024 09:29 | WG2399811 |
| Xylenes, Total | U | | 0.000174 | 0.00300 | 1 | 11/12/2024 09:29 | WG2399811 |
| Naphthalene | U | | 0.00100 | 0.00500 | 1 | 11/12/2024 09:29 | WG2399811 |
| 1,2,4-Trimethylbenzene | U | | 0.000322 | 0.00100 | 1 | 11/12/2024 09:29 | WG2399811 |
| 1,3,5-Trimethylbenzene | U | | 0.000104 | 0.00100 | 1 | 11/12/2024 09:29 | WG2399811 |
| (S) Toluene-d8 | 100 | | | 80.0-120 | | 11/12/2024 09:29 | WG2399811 |
| (S) 4-Bromofluorobenzene | 99.3 | | | 77.0-126 | | 11/12/2024 09:29 | WG2399811 |
| (S) 1,2-Dichloroethane-d4 | 107 | | | 70.0-130 | | 11/12/2024 09:29 | WG2399811 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Naphthalene | U | | 0.0000917 | 0.000250 | 1 | 11/08/2024 02:06 | WG2396982 |
| 1-Methylnaphthalene | U | | 0.0000687 | 0.000250 | 1 | 11/08/2024 02:06 | WG2396982 |
| 2-Methylnaphthalene | U | | 0.0000674 | 0.000250 | 1 | 11/08/2024 02:06 | WG2396982 |
| (S) Nitrobenzene-d5 | 111 | | | 31.0-160 | | 11/08/2024 02:06 | WG2396982 |
| (S) 2-Fluorobiphenyl | 126 | | | 48.0-148 | | 11/08/2024 02:06 | WG2396982 |
| (S) p-Terphenyl-d14 | 121 | | | 37.0-146 | | 11/08/2024 02:06 | WG2396982 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4145390-3 11/12/24 03:43

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---------------------------|-------------------|--------------|----------------|----------------|
| Benzene | U | | 0.0000941 | 0.00100 |
| Toluene | U | | 0.000278 | 0.00100 |
| Ethylbenzene | U | | 0.000137 | 0.00100 |
| Xylenes, Total | U | | 0.000174 | 0.00300 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| 1,2,4-Trimethylbenzene | U | | 0.000322 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000104 | 0.00100 |
| (S) Toluene-d8 | 101 | | | 80.0-120 |
| (S) 4-Bromofluorobenzene | 99.4 | | | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 105 | | | 70.0-130 |

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

(LCS) R4145390-1 11/12/24 02:34 • (LCSD) R4145390-2 11/12/24 02:57

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCSD Result mg/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene | 0.00500 | 0.00549 | 0.00568 | 110 | 114 | 70.0-123 | | | 3.40 | 20 |
| Toluene | 0.00500 | 0.00497 | 0.00515 | 99.4 | 103 | 79.0-120 | | | 3.56 | 20 |
| Ethylbenzene | 0.00500 | 0.00494 | 0.00504 | 98.8 | 101 | 79.0-123 | | | 2.00 | 20 |
| Xylenes, Total | 0.0150 | 0.0144 | 0.0149 | 96.0 | 99.3 | 79.0-123 | | | 3.41 | 20 |
| Naphthalene | 0.00500 | 0.00336 | 0.00337 | 67.2 | 67.4 | 54.0-135 | J | J | 0.297 | 20 |
| 1,2,4-Trimethylbenzene | 0.00500 | 0.00429 | 0.00426 | 85.8 | 85.2 | 76.0-121 | | | 0.702 | 20 |
| 1,3,5-Trimethylbenzene | 0.00500 | 0.00442 | 0.00445 | 88.4 | 89.0 | 76.0-122 | | | 0.676 | 20 |
| (S) Toluene-d8 | | | | 99.6 | 101 | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | 99.4 | 103 | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 102 | 102 | 70.0-130 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4143665-3 11/07/24 22:36

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|----------------------|-------------------|--------------|----------------|----------------|
| Naphthalene | U | | 0.0000917 | 0.000250 |
| 1-Methylnaphthalene | U | | 0.0000687 | 0.000250 |
| 2-Methylnaphthalene | U | | 0.0000674 | 0.000250 |
| (S) Nitrobenzene-d5 | 119 | | | 31.0-160 |
| (S) 2-Fluorobiphenyl | 138 | | | 48.0-148 |
| (S) p-Terphenyl-d14 | 125 | | | 37.0-146 |

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

(LCS) R4143665-1 11/07/24 22:01 • (LCSD) R4143665-2 11/07/24 22:18

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCSD Result mg/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|----------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Naphthalene | 0.00200 | 0.00250 | 0.00256 | 125 | 128 | 61.0-137 | | | 2.37 | 20 |
| 1-Methylnaphthalene | 0.00200 | 0.00275 | 0.00284 | 137 | 142 | 66.0-142 | | | 3.22 | 20 |
| 2-Methylnaphthalene | 0.00200 | 0.00245 | 0.00251 | 122 | 126 | 62.0-136 | | | 2.42 | 20 |
| (S) Nitrobenzene-d5 | | | | 105 | 112 | 31.0-160 | | | | |
| (S) 2-Fluorobiphenyl | | | | 121 | 136 | 48.0-148 | | | | |
| (S) p-Terphenyl-d14 | | | | 104 | 108 | 37.0-146 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

| | |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
|---|---|

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.



| | |
|-------|-----------|
| Hold: | Condition |
| | NCF / O |