

Caerus Oil and Gas

Sample Delivery Group: L1690632

Samples Received: 12/21/2023

Project Number:

Description: O36 Pipeline Closure

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

Entire Report Reviewed By:



Chris Ward
Project Manager

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

Pace Analytical National

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

TABLE OF CONTENTS

| | |
|---|----|
| Cp: Cover Page | 1 |
| Tc: Table of Contents | 2 |
| Ss: Sample Summary | 3 |
| Cn: Case Narrative | 7 |
| Sr: Sample Results | 8 |
| 20231220-O36-(FC-PIPELINE01)@6.5 L1690632-01 | 8 |
| 20231220-O36-(FC-PIPELINE02)@10 L1690632-02 | 10 |
| 20231220-O36-(STOCK01) L1690632-03 | 12 |
| 20231220-O36-(STOCK02) L1690632-04 | 14 |
| 20231220-O36-(FC-PIPELINE03)@20 L1690632-05 | 16 |
| 20231220-O36-(FC-PIPELINE04)@7 L1690632-06 | 18 |
| 20231220-O36-(STOCK03) L1690632-07 | 20 |
| 20231220-O36-(FC-PIPELINE05)@6 L1690632-08 | 22 |
| 20231220-O36-(STOCK04) L1690632-09 | 24 |
| 20231220-O36-(FC-PIPELINE06)@6 L1690632-10 | 26 |
| 20231220-O36-(STOCK05) L1690632-11 | 28 |
| Qc: Quality Control Summary | 30 |
| Wet Chemistry by Method 7199 | 30 |
| Wet Chemistry by Method 9045D | 31 |
| Wet Chemistry by Method 9050AMod | 33 |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | 34 |
| Metals (ICPMS) by Method 6020 | 35 |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | 36 |
| Volatile Organic Compounds (GC/MS) by Method 8260B | 38 |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | 40 |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | 42 |
| Gl: Glossary of Terms | 44 |
| Al: Accreditations & Locations | 45 |
| Sc: Sample Chain of Custody | 46 |

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

SAMPLE SUMMARY

20231220-O36-(FC-PIPELINE01)@6.5 L1690632-01 Solid

Collected by
Nora Oviatt

Collected date/time
12/20/23 10:00

Received date/time
12/21/23 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG2195413 | 1 | 12/29/23 11:23 | 12/29/23 11:23 | JTM | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG2194735 | 1 | 12/26/23 22:29 | 12/28/23 08:55 | SET | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG2195492 | 1 | 12/24/23 11:46 | 12/26/23 09:00 | BJM | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG2195503 | 1 | 12/27/23 12:12 | 12/28/23 09:18 | NTG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG2195415 | 1 | 12/28/23 10:42 | 12/28/23 17:31 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2194819 | 5 | 12/27/23 05:56 | 12/30/23 13:43 | SJM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG2199702 | 1 | 12/25/23 08:09 | 01/03/24 12:36 | ADM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2196755 | 1 | 12/25/23 08:09 | 12/27/23 22:05 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2195375 | 1 | 12/26/23 07:44 | 12/26/23 17:52 | KAP | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2196051 | 1 | 12/27/23 00:08 | 12/27/23 17:00 | ALM | Mt. Juliet, TN |

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

20231220-O36-(FC-PIPELINE02)@10 L1690632-02 Solid

Collected by
Nora Oviatt

Collected date/time
12/20/23 10:40

Received date/time
12/21/23 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG2195412 | 1 | 12/29/23 13:25 | 12/29/23 13:25 | JTM | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG2194735 | 1 | 12/26/23 22:29 | 12/28/23 09:01 | SET | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG2195492 | 1 | 12/24/23 11:46 | 12/26/23 09:00 | BJM | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG2195503 | 1 | 12/27/23 12:12 | 12/28/23 09:18 | NTG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG2195415 | 1 | 12/28/23 10:42 | 12/28/23 17:40 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2194819 | 5 | 12/27/23 05:56 | 12/30/23 13:59 | SJM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG2199702 | 1 | 12/25/23 08:09 | 01/03/24 12:59 | ADM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2196755 | 1 | 12/25/23 08:09 | 12/27/23 22:24 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2195375 | 1 | 12/26/23 07:44 | 12/26/23 18:04 | KAP | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2196051 | 1 | 12/27/23 00:08 | 12/27/23 15:50 | ALM | Mt. Juliet, TN |

⁷ Gl

⁸ Al

⁹ Sc

20231220-O36-(STOCK01) L1690632-03 Solid

Collected by
Nora Oviatt

Collected date/time
12/20/23 11:40

Received date/time
12/21/23 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG2195412 | 1 | 12/29/23 13:27 | 12/29/23 13:27 | JTM | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG2194735 | 1 | 12/26/23 22:29 | 12/28/23 09:14 | SET | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG2195492 | 1 | 12/24/23 11:46 | 12/26/23 09:00 | BJM | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG2195503 | 1 | 12/27/23 12:12 | 12/28/23 09:18 | NTG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG2195415 | 1 | 12/28/23 10:42 | 12/28/23 17:43 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2194819 | 5 | 12/27/23 05:56 | 12/30/23 14:02 | SJM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG2199702 | 1 | 12/25/23 08:09 | 01/03/24 13:21 | ADM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2196755 | 1 | 12/25/23 08:09 | 12/27/23 22:43 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2195375 | 1 | 12/26/23 07:44 | 12/26/23 20:31 | KAP | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2196051 | 1 | 12/27/23 00:08 | 12/27/23 15:32 | ALM | Mt. Juliet, TN |

20231220-O36-(STOCK02) L1690632-04 Solid

Collected by
Nora Oviatt

Collected date/time
12/20/23 11:20

Received date/time
12/21/23 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG2195412 | 1 | 12/29/23 13:30 | 12/29/23 13:30 | JTM | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG2194735 | 1 | 12/26/23 22:29 | 12/28/23 09:32 | SET | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG2195492 | 1 | 12/24/23 11:46 | 12/26/23 09:00 | BJM | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG2195503 | 1 | 12/27/23 12:12 | 12/28/23 09:18 | NTG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG2195415 | 1 | 12/28/23 10:42 | 12/28/23 17:46 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2194819 | 5 | 12/27/23 05:56 | 12/30/23 14:05 | SJM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG2199702 | 1 | 12/25/23 08:09 | 01/03/24 13:44 | ADM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2196901 | 1 | 12/25/23 08:09 | 12/28/23 01:14 | AV | Mt. Juliet, TN |

SAMPLE SUMMARY

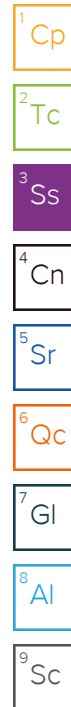
20231220-O36-(STOCK02) L1690632-04 Solid

Collected by
Nora Oviatt

Collected date/time
12/20/23 11:20

Received date/time
12/21/23 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2195375 | 1 | 12/26/23 07:44 | 12/26/23 18:16 | KAP | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2196051 | 1 | 12/27/23 00:08 | 12/27/23 15:15 | ALM | Mt. Juliet, TN |



20231220-O36-(FC-PIPELINE03)@20 L1690632-05 Solid

Collected by
Nora Oviatt

Collected date/time
12/20/23 11:00

Received date/time
12/21/23 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG2195412 | 1 | 12/29/23 13:33 | 12/29/23 13:33 | JTM | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG2194735 | 1 | 12/26/23 22:29 | 12/28/23 09:39 | SET | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG2195492 | 1 | 12/24/23 11:46 | 12/26/23 09:00 | BJM | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG2195503 | 1 | 12/27/23 12:12 | 12/28/23 09:18 | NTG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG2195415 | 1 | 12/28/23 10:42 | 12/28/23 17:49 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2194819 | 5 | 12/27/23 05:56 | 12/30/23 14:15 | SJM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG2199702 | 1 | 12/25/23 08:09 | 01/03/24 14:07 | ADM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2196901 | 1 | 12/25/23 08:09 | 12/28/23 01:33 | AV | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2195375 | 1 | 12/26/23 07:44 | 12/26/23 18:29 | KAP | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2196051 | 1 | 12/27/23 00:08 | 12/27/23 16:08 | ALM | Mt. Juliet, TN |

20231220-O36-(FC-PIPELINE04)@7 L1690632-06 Solid

Collected by
Nora Oviatt

Collected date/time
12/20/23 12:20

Received date/time
12/21/23 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG2195412 | 1 | 12/29/23 13:36 | 12/29/23 13:36 | JTM | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG2194735 | 1 | 12/26/23 22:29 | 12/28/23 09:45 | SET | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG2195495 | 1 | 12/24/23 10:00 | 12/26/23 10:45 | JGM | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG2195503 | 1 | 12/27/23 12:12 | 12/28/23 09:18 | NTG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG2195415 | 1 | 12/28/23 10:42 | 12/28/23 17:52 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2194819 | 5 | 12/27/23 05:56 | 12/30/23 14:18 | SJM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG2197996 | 1 | 12/25/23 08:09 | 12/29/23 17:02 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2196901 | 1 | 12/25/23 08:09 | 12/28/23 01:52 | AV | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2195375 | 1 | 12/26/23 07:44 | 12/26/23 16:26 | KAP | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2196051 | 1 | 12/27/23 00:08 | 12/27/23 14:58 | ALM | Mt. Juliet, TN |

20231220-O36-(STOCK03) L1690632-07 Solid

Collected by
Nora Oviatt

Collected date/time
12/20/23 12:30

Received date/time
12/21/23 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG2195412 | 1 | 12/29/23 13:39 | 12/29/23 13:39 | JTM | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG2194735 | 1 | 12/26/23 22:29 | 12/28/23 09:51 | SET | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG2195495 | 1 | 12/24/23 10:00 | 12/26/23 10:45 | JGM | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG2195503 | 1 | 12/27/23 12:12 | 12/28/23 09:18 | NTG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG2195415 | 1 | 12/28/23 10:42 | 12/28/23 17:55 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2194819 | 5 | 12/27/23 05:56 | 12/30/23 14:22 | SJM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG2197996 | 1 | 12/25/23 08:09 | 12/29/23 17:25 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2196901 | 1 | 12/25/23 08:09 | 12/28/23 02:11 | AV | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2195375 | 1 | 12/26/23 07:44 | 12/26/23 16:39 | KAP | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2196051 | 1 | 12/27/23 00:08 | 12/27/23 14:05 | ALM | Mt. Juliet, TN |

SAMPLE SUMMARY

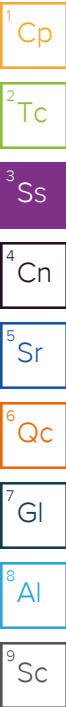
20231220-O36-(FC-PIPELINE05)@6 L1690632-08 Solid

Collected by
Nora Oviatt

Collected date/time
12/20/23 12:40

Received date/time
12/21/23 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG2195412 | 1 | 12/29/23 13:42 | 12/29/23 13:42 | JTM | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG2194735 | 1 | 12/26/23 22:29 | 12/28/23 09:57 | SET | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG2195495 | 1 | 12/24/23 10:00 | 12/26/23 10:45 | JGM | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG2195503 | 1 | 12/27/23 12:12 | 12/28/23 09:18 | NTG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG2195415 | 1 | 12/28/23 10:42 | 12/28/23 18:04 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2194819 | 5 | 12/27/23 05:56 | 12/30/23 14:25 | SJM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG2197996 | 1 | 12/25/23 08:09 | 12/29/23 17:48 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2196901 | 1 | 12/25/23 08:09 | 12/28/23 02:30 | AV | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2195549 | 1 | 12/26/23 19:56 | 12/27/23 12:36 | JSS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2196051 | 1 | 12/27/23 00:08 | 12/27/23 12:20 | ALM | Mt. Juliet, TN |



20231220-O36-(STOCK04) L1690632-09 Solid

Collected by
Nora Oviatt

Collected date/time
12/20/23 12:50

Received date/time
12/21/23 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG2195412 | 1 | 12/29/23 13:56 | 12/29/23 13:56 | JTM | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG2194735 | 1 | 12/26/23 22:29 | 12/28/23 10:03 | SET | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG2195495 | 1 | 12/24/23 10:00 | 12/26/23 10:45 | JGM | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG2195503 | 1 | 12/27/23 12:12 | 12/28/23 09:18 | NTG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG2195415 | 1 | 12/28/23 10:42 | 12/28/23 18:07 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2194819 | 5 | 12/27/23 05:56 | 12/30/23 14:28 | SJM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG2197996 | 1 | 12/25/23 08:09 | 12/29/23 18:11 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2196901 | 1 | 12/25/23 08:09 | 12/28/23 02:49 | AV | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2195549 | 1 | 12/26/23 19:56 | 12/27/23 13:52 | JSS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2196051 | 1 | 12/27/23 00:08 | 12/27/23 14:23 | ALM | Mt. Juliet, TN |

20231220-O36-(FC-PIPELINE06)@6 L1690632-10 Solid

Collected by
Nora Oviatt

Collected date/time
12/20/23 13:35

Received date/time
12/21/23 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG2195412 | 1 | 12/29/23 13:45 | 12/29/23 13:45 | JTM | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG2194735 | 1 | 12/26/23 22:29 | 12/28/23 10:10 | SET | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG2195492 | 1 | 12/24/23 11:46 | 12/26/23 09:00 | BJM | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG2195503 | 1 | 12/27/23 12:12 | 12/28/23 09:18 | NTG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG2195415 | 1 | 12/28/23 10:42 | 12/28/23 18:10 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2194819 | 5 | 12/27/23 05:56 | 12/30/23 14:31 | SJM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG2197996 | 1 | 12/25/23 08:09 | 12/29/23 18:34 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2196901 | 1 | 12/25/23 08:09 | 12/28/23 03:08 | AV | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2195549 | 1 | 12/26/23 19:56 | 12/27/23 13:01 | JSS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2196051 | 1 | 12/27/23 00:08 | 12/27/23 12:38 | ALM | Mt. Juliet, TN |

20231220-O36-(STOCK05) L1690632-11 Solid

Collected by
Nora Oviatt

Collected date/time
12/20/23 13:40

Received date/time
12/21/23 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG2195412 | 1 | 12/29/23 13:47 | 12/29/23 13:47 | JTM | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG2194735 | 1 | 12/26/23 22:29 | 12/28/23 10:16 | SET | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG2195495 | 1 | 12/24/23 10:00 | 12/26/23 10:45 | JGM | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG2195503 | 1 | 12/27/23 12:12 | 12/28/23 09:18 | NTG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG2195415 | 1 | 12/28/23 10:42 | 12/28/23 18:13 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG2194819 | 5 | 12/27/23 05:56 | 12/30/23 14:35 | SJM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG2197996 | 1 | 12/25/23 08:09 | 12/29/23 18:57 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2196901 | 1 | 12/25/23 08:09 | 12/28/23 03:28 | AV | Mt. Juliet, TN |

SAMPLE SUMMARY

20231220-O36-(STOCK05) L1690632-11 Solid

Collected by
Nora Oviatt

Collected date/time
12/20/23 13:40

Received date/time
12/21/23 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2195549 | 1 | 12/26/23 19:56 | 12/27/23 13:14 | JSS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2196051 | 1 | 12/27/23 00:08 | 12/27/23 14:40 | ALM | Mt. Juliet, TN |

¹Cp

 ${}^2\text{Tc}$

³Ss

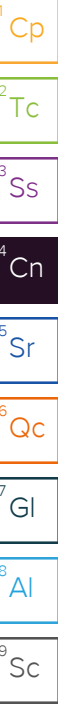
$$^4\text{Cn}$$
 ${}^5\text{Sr}$ ${}^6\text{Qc}$ ⁷Gl ${}^8\text{Al}$ ${}^9\text{Sc}$

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



Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 0.306 | | 1 | 12/29/2023 11:23 | WG2195413 |

1
Cp

2
Tc

Wet Chemistry by Method 7199

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Hexavalent Chromium | ND | | 1.00 | 1 | 12/28/2023 08:55 | WG2194735 |

3
Ss

4
Cn

Wet Chemistry by Method 9045D

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---------|--------|--------------------|----------|----------------------|---------------------------|
| pH | 8.33 | T8 | 1 | 12/26/2023 09:00 | WG2195492 |

5
Sr

6
Qc

Sample Narrative:

L1690632-01 WG2195492: 8.33 at 19.5C

7
Gl

8
Al

Wet Chemistry by Method 9050AMod

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Specific Conductance | 192 | | 10.0 | 1 | 12/28/2023 09:18 | WG2195503 |

9
Sc

Sample Narrative:

L1690632-01 WG2195503: at 25C

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|-------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.533 | | 0.200 | 1 | 12/28/2023 17:31 | WG2195415 |

Metals (ICPMS) by Method 6020

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------|--------|-----------|-------|----------|----------------------|---------------------------|
| Arsenic | 12.3 | | 1.00 | 5 | 12/30/2023 13:43 | WG2194819 |
| Barium | 233 | | 2.50 | 5 | 12/30/2023 13:43 | WG2194819 |
| Cadmium | ND | | 1.00 | 5 | 12/30/2023 13:43 | WG2194819 |
| Copper | 18.2 | | 5.00 | 5 | 12/30/2023 13:43 | WG2194819 |
| Lead | 11.1 | | 2.00 | 5 | 12/30/2023 13:43 | WG2194819 |
| Nickel | 14.9 | | 2.50 | 5 | 12/30/2023 13:43 | WG2194819 |
| Selenium | ND | | 2.50 | 5 | 12/30/2023 13:43 | WG2194819 |
| Silver | ND | | 0.500 | 5 | 12/30/2023 13:43 | WG2194819 |
| Zinc | 97.8 | | 25.0 | 5 | 12/30/2023 13:43 | WG2194819 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------------------|--------|-----------|----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.289 | | 0.100 | 1 | 01/03/2024 12:36 | WG2199702 |
| (S) a,a,a-Trifluorotoluene(FID) | 93.2 | | 77.0-120 | | 01/03/2024 12:36 | WG2199702 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Benzene | ND | | 0.00100 | 1 | 12/27/2023 22:05 | WG2196755 |
| Toluene | ND | | 0.00500 | 1 | 12/27/2023 22:05 | WG2196755 |
| Ethylbenzene | ND | | 0.00250 | 1 | 12/27/2023 22:05 | WG2196755 |
| Xylenes, Total | ND | | 0.00650 | 1 | 12/27/2023 22:05 | WG2196755 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 12/27/2023 22:05 | WG2196755 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 12/27/2023 22:05 | WG2196755 |
| (S) Toluene-d8 | 91.3 | | 75.0-131 | | 12/27/2023 22:05 | WG2196755 |
| (S) 4-Bromofluorobenzene | 100 | | 67.0-138 | | 12/27/2023 22:05 | WG2196755 |
| (S) 1,2-Dichloroethane-d4 | 103 | | 70.0-130 | | 12/27/2023 22:05 | WG2196755 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | 19.9 | | 4.00 | 1 | 12/26/2023 17:52 | WG2195375 |
| C28-C36 Motor Oil Range | 82.5 | | 4.00 | 1 | 12/26/2023 17:52 | WG2195375 |
| (S) o-Terphenyl | 79.1 | | 18.0-148 | | 12/26/2023 17:52 | WG2195375 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Acenaphthene | ND | | 0.00600 | 1 | 12/27/2023 17:00 | WG2196051 |
| Anthracene | ND | | 0.00600 | 1 | 12/27/2023 17:00 | WG2196051 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 12/27/2023 17:00 | WG2196051 |
| Benzo(b)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 17:00 | WG2196051 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 17:00 | WG2196051 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 12/27/2023 17:00 | WG2196051 |
| Chrysene | ND | | 0.00600 | 1 | 12/27/2023 17:00 | WG2196051 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 12/27/2023 17:00 | WG2196051 |
| Fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 17:00 | WG2196051 |
| Fluorene | ND | | 0.00600 | 1 | 12/27/2023 17:00 | WG2196051 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 12/27/2023 17:00 | WG2196051 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 17:00 | WG2196051 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 17:00 | WG2196051 |
| Naphthalene | ND | | 0.0200 | 1 | 12/27/2023 17:00 | WG2196051 |
| Pyrene | ND | | 0.00600 | 1 | 12/27/2023 17:00 | WG2196051 |
| (S) p-Terphenyl-d14 | 72.6 | | 23.0-120 | | 12/27/2023 17:00 | WG2196051 |
| (S) Nitrobenzene-d5 | 88.1 | | 14.0-149 | | 12/27/2023 17:00 | WG2196051 |
| (S) 2-Fluorobiphenyl | 69.4 | | 34.0-125 | | 12/27/2023 17:00 | WG2196051 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 1.18 | | 1 | 12/29/2023 13:25 | WG2195412 |

1
Cp

2
Tc

Wet Chemistry by Method 7199

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Hexavalent Chromium | ND | | 1.00 | 1 | 12/28/2023 09:01 | WG2194735 |

3
Ss

4
Cn

Wet Chemistry by Method 9045D

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---------|--------|--------------------|----------|----------------------|---------------------------|
| pH | 8.00 | T8 | 1 | 12/26/2023 09:00 | WG2195492 |

5
Sr

6
Qc

Sample Narrative:

L1690632-02 WG2195492: 8 at 19.5C

7
Gl

8
Al

Wet Chemistry by Method 9050AMod

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Specific Conductance | 1410 | | 10.0 | 1 | 12/28/2023 09:18 | WG2195503 |

9
Sc

Sample Narrative:

L1690632-02 WG2195503: at 25C

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|-------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.852 | | 0.200 | 1 | 12/28/2023 17:40 | WG2195415 |

Metals (ICPMS) by Method 6020

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------|--------|-----------|-------|----------|----------------------|---------------------------|
| Arsenic | 18.5 | | 1.00 | 5 | 12/30/2023 13:59 | WG2194819 |
| Barium | 303 | | 2.50 | 5 | 12/30/2023 13:59 | WG2194819 |
| Cadmium | ND | | 1.00 | 5 | 12/30/2023 13:59 | WG2194819 |
| Copper | 20.6 | | 5.00 | 5 | 12/30/2023 13:59 | WG2194819 |
| Lead | 13.1 | | 2.00 | 5 | 12/30/2023 13:59 | WG2194819 |
| Nickel | 15.6 | | 2.50 | 5 | 12/30/2023 13:59 | WG2194819 |
| Selenium | ND | | 2.50 | 5 | 12/30/2023 13:59 | WG2194819 |
| Silver | ND | | 0.500 | 5 | 12/30/2023 13:59 | WG2194819 |
| Zinc | 53.0 | | 25.0 | 5 | 12/30/2023 13:59 | WG2194819 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------------------|--------|-----------|----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.389 | | 0.100 | 1 | 01/03/2024 12:59 | WG2199702 |
| (S) a,a,a-Trifluorotoluene(FID) | 92.5 | | 77.0-120 | | 01/03/2024 12:59 | WG2199702 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Benzene | ND | | 0.00100 | 1 | 12/27/2023 22:24 | WG2196755 |
| Toluene | ND | | 0.00500 | 1 | 12/27/2023 22:24 | WG2196755 |
| Ethylbenzene | ND | | 0.00250 | 1 | 12/27/2023 22:24 | WG2196755 |
| Xylenes, Total | ND | | 0.00650 | 1 | 12/27/2023 22:24 | WG2196755 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 12/27/2023 22:24 | WG2196755 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 12/27/2023 22:24 | WG2196755 |
| (S) Toluene-d8 | 94.6 | | 75.0-131 | | 12/27/2023 22:24 | WG2196755 |
| (S) 4-Bromofluorobenzene | 99.9 | | 67.0-138 | | 12/27/2023 22:24 | WG2196755 |
| (S) 1,2-Dichloroethane-d4 | 99.4 | | 70.0-130 | | 12/27/2023 22:24 | WG2196755 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | 30.7 | | 4.00 | 1 | 12/26/2023 18:04 | WG2195375 |
| C28-C36 Motor Oil Range | 147 | | 4.00 | 1 | 12/26/2023 18:04 | WG2195375 |
| (S) o-Terphenyl | 79.7 | | 18.0-148 | | 12/26/2023 18:04 | WG2195375 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Acenaphthene | ND | | 0.00600 | 1 | 12/27/2023 15:50 | WG2196051 |
| Anthracene | ND | | 0.00600 | 1 | 12/27/2023 15:50 | WG2196051 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 12/27/2023 15:50 | WG2196051 |
| Benzo(b)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 15:50 | WG2196051 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 15:50 | WG2196051 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 12/27/2023 15:50 | WG2196051 |
| Chrysene | ND | | 0.00600 | 1 | 12/27/2023 15:50 | WG2196051 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 12/27/2023 15:50 | WG2196051 |
| Fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 15:50 | WG2196051 |
| Fluorene | ND | | 0.00600 | 1 | 12/27/2023 15:50 | WG2196051 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 12/27/2023 15:50 | WG2196051 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 15:50 | WG2196051 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 15:50 | WG2196051 |
| Naphthalene | ND | | 0.0200 | 1 | 12/27/2023 15:50 | WG2196051 |
| Pyrene | ND | | 0.00600 | 1 | 12/27/2023 15:50 | WG2196051 |
| (S) p-Terphenyl-d14 | 56.6 | | 23.0-120 | | 12/27/2023 15:50 | WG2196051 |
| (S) Nitrobenzene-d5 | 60.2 | | 14.0-149 | | 12/27/2023 15:50 | WG2196051 |
| (S) 2-Fluorobiphenyl | 53.4 | | 34.0-125 | | 12/27/2023 15:50 | WG2196051 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 0.865 | | 1 | 12/29/2023 13:27 | WG2195412 |

Wet Chemistry by Method 7199

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Hexavalent Chromium | ND | | 1.00 | 1 | 12/28/2023 09:14 | WG2194735 |

Wet Chemistry by Method 9045D

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---------|--------|--------------------|----------|----------------------|---------------------------|
| pH | 8.07 | T8 | 1 | 12/26/2023 09:00 | WG2195492 |

Sample Narrative:

L1690632-03 WG2195492: 8.07 at 19.5C

Wet Chemistry by Method 9050AMod

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Specific Conductance | 577 | | 10.0 | 1 | 12/28/2023 09:18 | WG2195503 |

Sample Narrative:

L1690632-03 WG2195503: at 25C

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|-------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.862 | | 0.200 | 1 | 12/28/2023 17:43 | WG2195415 |

Metals (ICPMS) by Method 6020

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------|--------|-----------|-------|----------|----------------------|---------------------------|
| Arsenic | 16.1 | | 1.00 | 5 | 12/30/2023 14:02 | WG2194819 |
| Barium | 321 | | 2.50 | 5 | 12/30/2023 14:02 | WG2194819 |
| Cadmium | ND | | 1.00 | 5 | 12/30/2023 14:02 | WG2194819 |
| Copper | 19.1 | | 5.00 | 5 | 12/30/2023 14:02 | WG2194819 |
| Lead | 12.0 | | 2.00 | 5 | 12/30/2023 14:02 | WG2194819 |
| Nickel | 15.2 | | 2.50 | 5 | 12/30/2023 14:02 | WG2194819 |
| Selenium | ND | | 2.50 | 5 | 12/30/2023 14:02 | WG2194819 |
| Silver | ND | | 0.500 | 5 | 12/30/2023 14:02 | WG2194819 |
| Zinc | 50.4 | | 25.0 | 5 | 12/30/2023 14:02 | WG2194819 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------------------|--------|-----------|----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.254 | | 0.100 | 1 | 01/03/2024 13:21 | WG2199702 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.9 | | 77.0-120 | | 01/03/2024 13:21 | WG2199702 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Benzene | ND | | 0.00100 | 1 | 12/27/2023 22:43 | WG2196755 |
| Toluene | ND | | 0.00500 | 1 | 12/27/2023 22:43 | WG2196755 |
| Ethylbenzene | ND | | 0.00250 | 1 | 12/27/2023 22:43 | WG2196755 |
| Xylenes, Total | ND | | 0.00650 | 1 | 12/27/2023 22:43 | WG2196755 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 12/27/2023 22:43 | WG2196755 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 12/27/2023 22:43 | WG2196755 |
| (S) Toluene-d8 | 94.4 | | 75.0-131 | | 12/27/2023 22:43 | WG2196755 |
| (S) 4-Bromofluorobenzene | 101 | | 67.0-138 | | 12/27/2023 22:43 | WG2196755 |
| (S) 1,2-Dichloroethane-d4 | 108 | | 70.0-130 | | 12/27/2023 22:43 | WG2196755 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | 36.4 | | 4.00 | 1 | 12/26/2023 20:31 | WG2195375 |
| C28-C36 Motor Oil Range | 125 | | 4.00 | 1 | 12/26/2023 20:31 | WG2195375 |
| (S) o-Terphenyl | 92.6 | | 18.0-148 | | 12/26/2023 20:31 | WG2195375 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Acenaphthene | ND | | 0.00600 | 1 | 12/27/2023 15:32 | WG2196051 |
| Anthracene | ND | | 0.00600 | 1 | 12/27/2023 15:32 | WG2196051 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 12/27/2023 15:32 | WG2196051 |
| Benzo(b)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 15:32 | WG2196051 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 15:32 | WG2196051 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 12/27/2023 15:32 | WG2196051 |
| Chrysene | ND | | 0.00600 | 1 | 12/27/2023 15:32 | WG2196051 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 12/27/2023 15:32 | WG2196051 |
| Fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 15:32 | WG2196051 |
| Fluorene | ND | | 0.00600 | 1 | 12/27/2023 15:32 | WG2196051 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 12/27/2023 15:32 | WG2196051 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 15:32 | WG2196051 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 15:32 | WG2196051 |
| Naphthalene | ND | | 0.0200 | 1 | 12/27/2023 15:32 | WG2196051 |
| Pyrene | ND | | 0.00600 | 1 | 12/27/2023 15:32 | WG2196051 |
| (S) p-Terphenyl-d14 | 59.8 | | 23.0-120 | | 12/27/2023 15:32 | WG2196051 |
| (S) Nitrobenzene-d5 | 69.2 | | 14.0-149 | | 12/27/2023 15:32 | WG2196051 |
| (S) 2-Fluorobiphenyl | 56.7 | | 34.0-125 | | 12/27/2023 15:32 | WG2196051 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 1.41 | | 1 | 12/29/2023 13:30 | WG2195412 |

1
Cp

2
Tc

Wet Chemistry by Method 7199

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Hexavalent Chromium | ND | | 1.00 | 1 | 12/28/2023 09:32 | WG2194735 |

3
Ss

4
Cn

Wet Chemistry by Method 9045D

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---------|--------|--------------------|----------|----------------------|---------------------------|
| pH | 7.93 | T8 | 1 | 12/26/2023 09:00 | WG2195492 |

5
Sr

6
Qc

Sample Narrative:

L1690632-04 WG2195492: 7.93 at 19.4C

7
Gl

8
Al

Wet Chemistry by Method 9050AMod

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Specific Conductance | 613 | | 10.0 | 1 | 12/28/2023 09:18 | WG2195503 |

9
Sc

Sample Narrative:

L1690632-04 WG2195503: at 25C

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|-------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.903 | | 0.200 | 1 | 12/28/2023 17:46 | WG2195415 |

Metals (ICPMS) by Method 6020

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------|--------|-----------|-------|----------|----------------------|---------------------------|
| Arsenic | 17.0 | | 1.00 | 5 | 12/30/2023 14:05 | WG2194819 |
| Barium | 305 | | 2.50 | 5 | 12/30/2023 14:05 | WG2194819 |
| Cadmium | ND | | 1.00 | 5 | 12/30/2023 14:05 | WG2194819 |
| Copper | 20.4 | | 5.00 | 5 | 12/30/2023 14:05 | WG2194819 |
| Lead | 14.8 | | 2.00 | 5 | 12/30/2023 14:05 | WG2194819 |
| Nickel | 15.2 | | 2.50 | 5 | 12/30/2023 14:05 | WG2194819 |
| Selenium | ND | | 2.50 | 5 | 12/30/2023 14:05 | WG2194819 |
| Silver | ND | | 0.500 | 5 | 12/30/2023 14:05 | WG2194819 |
| Zinc | 52.8 | | 25.0 | 5 | 12/30/2023 14:05 | WG2194819 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------------------|--------|-----------|----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.248 | | 0.100 | 1 | 01/03/2024 13:44 | WG2199702 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.4 | | 77.0-120 | | 01/03/2024 13:44 | WG2199702 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Benzene | ND | | 0.00100 | 1 | 12/28/2023 01:14 | WG2196901 |
| Toluene | ND | | 0.00500 | 1 | 12/28/2023 01:14 | WG2196901 |
| Ethylbenzene | ND | | 0.00250 | 1 | 12/28/2023 01:14 | WG2196901 |
| Xylenes, Total | ND | | 0.00650 | 1 | 12/28/2023 01:14 | WG2196901 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 12/28/2023 01:14 | WG2196901 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 12/28/2023 01:14 | WG2196901 |
| (S) Toluene-d8 | 104 | | 75.0-131 | | 12/28/2023 01:14 | WG2196901 |
| (S) 4-Bromofluorobenzene | 103 | | 67.0-138 | | 12/28/2023 01:14 | WG2196901 |
| (S) 1,2-Dichloroethane-d4 | 119 | | 70.0-130 | | 12/28/2023 01:14 | WG2196901 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | 39.1 | | 4.00 | 1 | 12/26/2023 18:16 | WG2195375 |
| C28-C36 Motor Oil Range | 165 | | 4.00 | 1 | 12/26/2023 18:16 | WG2195375 |
| (S) o-Terphenyl | 82.7 | | 18.0-148 | | 12/26/2023 18:16 | WG2195375 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Acenaphthene | ND | | 0.00600 | 1 | 12/27/2023 15:15 | WG2196051 |
| Anthracene | ND | | 0.00600 | 1 | 12/27/2023 15:15 | WG2196051 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 12/27/2023 15:15 | WG2196051 |
| Benzo(b)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 15:15 | WG2196051 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 15:15 | WG2196051 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 12/27/2023 15:15 | WG2196051 |
| Chrysene | ND | | 0.00600 | 1 | 12/27/2023 15:15 | WG2196051 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 12/27/2023 15:15 | WG2196051 |
| Fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 15:15 | WG2196051 |
| Fluorene | ND | | 0.00600 | 1 | 12/27/2023 15:15 | WG2196051 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 12/27/2023 15:15 | WG2196051 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 15:15 | WG2196051 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 15:15 | WG2196051 |
| Naphthalene | ND | | 0.0200 | 1 | 12/27/2023 15:15 | WG2196051 |
| Pyrene | ND | | 0.00600 | 1 | 12/27/2023 15:15 | WG2196051 |
| (S) p-Terphenyl-d14 | 64.9 | | 23.0-120 | | 12/27/2023 15:15 | WG2196051 |
| (S) Nitrobenzene-d5 | 68.9 | | 14.0-149 | | 12/27/2023 15:15 | WG2196051 |
| (S) 2-Fluorobiphenyl | 61.7 | | 34.0-125 | | 12/27/2023 15:15 | WG2196051 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 1.61 | | 1 | 12/29/2023 13:33 | WG2195412 |

1
Cp

2
Tc

Wet Chemistry by Method 7199

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Hexavalent Chromium | ND | | 1.00 | 1 | 12/28/2023 09:39 | WG2194735 |

3
Ss

4
Cn

Wet Chemistry by Method 9045D

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---------|--------|--------------------|----------|----------------------|---------------------------|
| pH | 7.85 | T8 | 1 | 12/26/2023 09:00 | WG2195492 |

5
Sr

6
Qc

Sample Narrative:

L1690632-05 WG2195492: 7.85 at 19.5C

7
Gl

8
Al

Wet Chemistry by Method 9050AMod

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Specific Conductance | 883 | | 10.0 | 1 | 12/28/2023 09:18 | WG2195503 |

9
Sc

Sample Narrative:

L1690632-05 WG2195503: at 25C

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|-------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.855 | | 0.200 | 1 | 12/28/2023 17:49 | WG2195415 |

Metals (ICPMS) by Method 6020

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------|--------|-----------|-------|----------|----------------------|---------------------------|
| Arsenic | 13.9 | | 1.00 | 5 | 12/30/2023 14:15 | WG2194819 |
| Barium | 237 | | 2.50 | 5 | 12/30/2023 14:15 | WG2194819 |
| Cadmium | ND | | 1.00 | 5 | 12/30/2023 14:15 | WG2194819 |
| Copper | 16.0 | | 5.00 | 5 | 12/30/2023 14:15 | WG2194819 |
| Lead | 10.6 | | 2.00 | 5 | 12/30/2023 14:15 | WG2194819 |
| Nickel | 11.6 | | 2.50 | 5 | 12/30/2023 14:15 | WG2194819 |
| Selenium | ND | | 2.50 | 5 | 12/30/2023 14:15 | WG2194819 |
| Silver | ND | | 0.500 | 5 | 12/30/2023 14:15 | WG2194819 |
| Zinc | 39.9 | | 25.0 | 5 | 12/30/2023 14:15 | WG2194819 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------------------|--------|-----------|----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.171 | | 0.100 | 1 | 01/03/2024 14:07 | WG2199702 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.8 | | 77.0-120 | | 01/03/2024 14:07 | WG2199702 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Benzene | ND | | 0.00100 | 1 | 12/28/2023 01:33 | WG2196901 |
| Toluene | ND | | 0.00500 | 1 | 12/28/2023 01:33 | WG2196901 |
| Ethylbenzene | ND | | 0.00250 | 1 | 12/28/2023 01:33 | WG2196901 |
| Xylenes, Total | ND | | 0.00650 | 1 | 12/28/2023 01:33 | WG2196901 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 12/28/2023 01:33 | WG2196901 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 12/28/2023 01:33 | WG2196901 |
| (S) Toluene-d8 | 101 | | 75.0-131 | | 12/28/2023 01:33 | WG2196901 |
| (S) 4-Bromofluorobenzene | 102 | | 67.0-138 | | 12/28/2023 01:33 | WG2196901 |
| (S) 1,2-Dichloroethane-d4 | 120 | | 70.0-130 | | 12/28/2023 01:33 | WG2196901 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | 39.3 | | 4.00 | 1 | 12/26/2023 18:29 | WG2195375 |
| C28-C36 Motor Oil Range | 146 | | 4.00 | 1 | 12/26/2023 18:29 | WG2195375 |
| (S) o-Terphenyl | 87.8 | | 18.0-148 | | 12/26/2023 18:29 | WG2195375 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Acenaphthene | ND | | 0.00600 | 1 | 12/27/2023 16:08 | WG2196051 |
| Anthracene | ND | | 0.00600 | 1 | 12/27/2023 16:08 | WG2196051 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 12/27/2023 16:08 | WG2196051 |
| Benzo(b)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 16:08 | WG2196051 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 16:08 | WG2196051 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 12/27/2023 16:08 | WG2196051 |
| Chrysene | ND | | 0.00600 | 1 | 12/27/2023 16:08 | WG2196051 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 12/27/2023 16:08 | WG2196051 |
| Fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 16:08 | WG2196051 |
| Fluorene | ND | | 0.00600 | 1 | 12/27/2023 16:08 | WG2196051 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 12/27/2023 16:08 | WG2196051 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 16:08 | WG2196051 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 16:08 | WG2196051 |
| Naphthalene | ND | | 0.0200 | 1 | 12/27/2023 16:08 | WG2196051 |
| Pyrene | ND | | 0.00600 | 1 | 12/27/2023 16:08 | WG2196051 |
| (S) p-Terphenyl-d14 | 58.3 | | 23.0-120 | | 12/27/2023 16:08 | WG2196051 |
| (S) Nitrobenzene-d5 | 65.8 | | 14.0-149 | | 12/27/2023 16:08 | WG2196051 |
| (S) 2-Fluorobiphenyl | 55.4 | | 34.0-125 | | 12/27/2023 16:08 | WG2196051 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 7.46 | | 1 | 12/29/2023 13:36 | WG2195412 |

1
Cp

2
Tc

Wet Chemistry by Method 7199

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Hexavalent Chromium | ND | | 1.00 | 1 | 12/28/2023 09:45 | WG2194735 |

3
Ss

4
Cn

Wet Chemistry by Method 9045D

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---------|--------|--------------------|----------|----------------------|---------------------------|
| pH | 7.76 | T8 | 1 | 12/26/2023 10:45 | WG2195495 |

5
Sr

6
Qc

Sample Narrative:

L1690632-06 WG2195495: 7.76 at 20.4C

7
Gl

8
Al

Wet Chemistry by Method 9050AMod

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Specific Conductance | 7390 | | 10.0 | 1 | 12/28/2023 09:18 | WG2195503 |

9
Sc

Sample Narrative:

L1690632-06 WG2195503: at 25C

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|-------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 1.39 | | 0.200 | 1 | 12/28/2023 17:52 | WG2195415 |

Metals (ICPMS) by Method 6020

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------|--------|-----------|-------|----------|----------------------|---------------------------|
| Arsenic | 11.6 | | 1.00 | 5 | 12/30/2023 14:18 | WG2194819 |
| Barium | 278 | | 2.50 | 5 | 12/30/2023 14:18 | WG2194819 |
| Cadmium | ND | | 1.00 | 5 | 12/30/2023 14:18 | WG2194819 |
| Copper | 16.5 | | 5.00 | 5 | 12/30/2023 14:18 | WG2194819 |
| Lead | 11.2 | | 2.00 | 5 | 12/30/2023 14:18 | WG2194819 |
| Nickel | 14.4 | | 2.50 | 5 | 12/30/2023 14:18 | WG2194819 |
| Selenium | ND | | 2.50 | 5 | 12/30/2023 14:18 | WG2194819 |
| Silver | ND | | 0.500 | 5 | 12/30/2023 14:18 | WG2194819 |
| Zinc | 46.6 | | 25.0 | 5 | 12/30/2023 14:18 | WG2194819 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------------------|--------|-----------|----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.381 | | 0.100 | 1 | 12/29/2023 17:02 | WG2197996 |
| (S) a,a,a-Trifluorotoluene(FID) | 89.9 | | 77.0-120 | | 12/29/2023 17:02 | WG2197996 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Benzene | ND | | 0.00100 | 1 | 12/28/2023 01:52 | WG2196901 |
| Toluene | ND | | 0.00500 | 1 | 12/28/2023 01:52 | WG2196901 |
| Ethylbenzene | ND | | 0.00250 | 1 | 12/28/2023 01:52 | WG2196901 |
| Xylenes, Total | ND | | 0.00650 | 1 | 12/28/2023 01:52 | WG2196901 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 12/28/2023 01:52 | WG2196901 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 12/28/2023 01:52 | WG2196901 |
| (S) Toluene-d8 | 103 | | 75.0-131 | | 12/28/2023 01:52 | WG2196901 |
| (S) 4-Bromofluorobenzene | 104 | | 67.0-138 | | 12/28/2023 01:52 | WG2196901 |
| (S) 1,2-Dichloroethane-d4 | 120 | | 70.0-130 | | 12/28/2023 01:52 | WG2196901 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | 9.19 | | 4.00 | 1 | 12/26/2023 16:26 | WG2195375 |
| C28-C36 Motor Oil Range | 46.5 | | 4.00 | 1 | 12/26/2023 16:26 | WG2195375 |
| (S) o-Terphenyl | 67.9 | | 18.0-148 | | 12/26/2023 16:26 | WG2195375 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Acenaphthene | ND | | 0.00600 | 1 | 12/27/2023 14:58 | WG2196051 |
| Anthracene | ND | | 0.00600 | 1 | 12/27/2023 14:58 | WG2196051 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 12/27/2023 14:58 | WG2196051 |
| Benzo(b)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 14:58 | WG2196051 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 14:58 | WG2196051 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 12/27/2023 14:58 | WG2196051 |
| Chrysene | ND | | 0.00600 | 1 | 12/27/2023 14:58 | WG2196051 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 12/27/2023 14:58 | WG2196051 |
| Fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 14:58 | WG2196051 |
| Fluorene | ND | | 0.00600 | 1 | 12/27/2023 14:58 | WG2196051 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 12/27/2023 14:58 | WG2196051 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 14:58 | WG2196051 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 14:58 | WG2196051 |
| Naphthalene | ND | | 0.0200 | 1 | 12/27/2023 14:58 | WG2196051 |
| Pyrene | ND | | 0.00600 | 1 | 12/27/2023 14:58 | WG2196051 |
| (S) p-Terphenyl-d14 | 37.0 | | 23.0-120 | | 12/27/2023 14:58 | WG2196051 |
| (S) Nitrobenzene-d5 | 41.2 | | 14.0-149 | | 12/27/2023 14:58 | WG2196051 |
| (S) 2-Fluorobiphenyl | 36.4 | | 34.0-125 | | 12/27/2023 14:58 | WG2196051 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 5.46 | | 1 | 12/29/2023 13:39 | WG2195412 |

1
Cp

2
Tc

Wet Chemistry by Method 7199

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Hexavalent Chromium | ND | | 1.00 | 1 | 12/28/2023 09:51 | WG2194735 |

3
Ss

4
Cn

Wet Chemistry by Method 9045D

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---------|--------|--------------------|----------|----------------------|---------------------------|
| pH | 7.61 | T8 | 1 | 12/26/2023 10:45 | WG2195495 |

5
Sr

6
Qc

Sample Narrative:

L1690632-07 WG2195495: 7.61 at 20.5C

7
Gl

8
Al

Wet Chemistry by Method 9050AMod

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Specific Conductance | 4750 | | 10.0 | 1 | 12/28/2023 09:18 | WG2195503 |

9
Sc

Sample Narrative:

L1690632-07 WG2195503: at 25C

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|-------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 1.36 | | 0.200 | 1 | 12/28/2023 17:55 | WG2195415 |

Metals (ICPMS) by Method 6020

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------|--------|-----------|-------|----------|----------------------|---------------------------|
| Arsenic | 12.9 | | 1.00 | 5 | 12/30/2023 14:22 | WG2194819 |
| Barium | 275 | | 2.50 | 5 | 12/30/2023 14:22 | WG2194819 |
| Cadmium | ND | | 1.00 | 5 | 12/30/2023 14:22 | WG2194819 |
| Copper | 16.8 | | 5.00 | 5 | 12/30/2023 14:22 | WG2194819 |
| Lead | 12.2 | | 2.00 | 5 | 12/30/2023 14:22 | WG2194819 |
| Nickel | 15.7 | | 2.50 | 5 | 12/30/2023 14:22 | WG2194819 |
| Selenium | ND | | 2.50 | 5 | 12/30/2023 14:22 | WG2194819 |
| Silver | ND | | 0.500 | 5 | 12/30/2023 14:22 | WG2194819 |
| Zinc | 51.3 | | 25.0 | 5 | 12/30/2023 14:22 | WG2194819 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------------------|--------|-----------|----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.295 | | 0.100 | 1 | 12/29/2023 17:25 | WG2197996 |
| (S) a,a,a-Trifluorotoluene(FID) | 91.5 | | 77.0-120 | | 12/29/2023 17:25 | WG2197996 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Benzene | ND | | 0.00100 | 1 | 12/28/2023 02:11 | WG2196901 |
| Toluene | ND | | 0.00500 | 1 | 12/28/2023 02:11 | WG2196901 |
| Ethylbenzene | ND | | 0.00250 | 1 | 12/28/2023 02:11 | WG2196901 |
| Xylenes, Total | ND | | 0.00650 | 1 | 12/28/2023 02:11 | WG2196901 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 12/28/2023 02:11 | WG2196901 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 12/28/2023 02:11 | WG2196901 |
| (S) Toluene-d8 | 102 | | 75.0-131 | | 12/28/2023 02:11 | WG2196901 |
| (S) 4-Bromofluorobenzene | 103 | | 67.0-138 | | 12/28/2023 02:11 | WG2196901 |
| (S) 1,2-Dichloroethane-d4 | 124 | | 70.0-130 | | 12/28/2023 02:11 | WG2196901 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | 12.2 | | 4.00 | 1 | 12/26/2023 16:39 | WG2195375 |
| C28-C36 Motor Oil Range | 72.7 | | 4.00 | 1 | 12/26/2023 16:39 | WG2195375 |
| (S) o-Terphenyl | 78.1 | | 18.0-148 | | 12/26/2023 16:39 | WG2195375 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Acenaphthene | ND | | 0.00600 | 1 | 12/27/2023 14:05 | WG2196051 |
| Anthracene | ND | | 0.00600 | 1 | 12/27/2023 14:05 | WG2196051 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 12/27/2023 14:05 | WG2196051 |
| Benzo(b)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 14:05 | WG2196051 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 14:05 | WG2196051 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 12/27/2023 14:05 | WG2196051 |
| Chrysene | ND | | 0.00600 | 1 | 12/27/2023 14:05 | WG2196051 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 12/27/2023 14:05 | WG2196051 |
| Fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 14:05 | WG2196051 |
| Fluorene | ND | | 0.00600 | 1 | 12/27/2023 14:05 | WG2196051 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 12/27/2023 14:05 | WG2196051 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 14:05 | WG2196051 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 14:05 | WG2196051 |
| Naphthalene | ND | | 0.0200 | 1 | 12/27/2023 14:05 | WG2196051 |
| Pyrene | ND | | 0.00600 | 1 | 12/27/2023 14:05 | WG2196051 |
| (S) p-Terphenyl-d14 | 50.2 | | 23.0-120 | | 12/27/2023 14:05 | WG2196051 |
| (S) Nitrobenzene-d5 | 55.1 | | 14.0-149 | | 12/27/2023 14:05 | WG2196051 |
| (S) 2-Fluorobiphenyl | 48.0 | | 34.0-125 | | 12/27/2023 14:05 | WG2196051 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 7.34 | | 1 | 12/29/2023 13:42 | WG2195412 |

Wet Chemistry by Method 7199

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Hexavalent Chromium | ND | | 1.00 | 1 | 12/28/2023 09:57 | WG2194735 |

Wet Chemistry by Method 9045D

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---------|--------|--------------------|----------|----------------------|---------------------------|
| pH | 8.39 | T8 | 1 | 12/26/2023 10:45 | WG2195495 |

Sample Narrative:
L1690632-08 WG2195495: 8.39 at 20.4C

Wet Chemistry by Method 9050AMod

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Specific Conductance | 1660 | | 10.0 | 1 | 12/28/2023 09:18 | WG2195503 |

Sample Narrative:
L1690632-08 WG2195503: at 25C

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|-------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.933 | | 0.200 | 1 | 12/28/2023 18:04 | WG2195415 |

Metals (ICPMS) by Method 6020

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------|--------|-----------|-------|----------|----------------------|---------------------------|
| Arsenic | 9.49 | | 1.00 | 5 | 12/30/2023 14:25 | WG2194819 |
| Barium | 211 | | 2.50 | 5 | 12/30/2023 14:25 | WG2194819 |
| Cadmium | ND | | 1.00 | 5 | 12/30/2023 14:25 | WG2194819 |
| Copper | 13.3 | | 5.00 | 5 | 12/30/2023 14:25 | WG2194819 |
| Lead | 8.96 | | 2.00 | 5 | 12/30/2023 14:25 | WG2194819 |
| Nickel | 12.2 | | 2.50 | 5 | 12/30/2023 14:25 | WG2194819 |
| Selenium | ND | | 2.50 | 5 | 12/30/2023 14:25 | WG2194819 |
| Silver | ND | | 0.500 | 5 | 12/30/2023 14:25 | WG2194819 |
| Zinc | 38.7 | | 25.0 | 5 | 12/30/2023 14:25 | WG2194819 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------------------|--------|-----------|----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.308 | | 0.100 | 1 | 12/29/2023 17:48 | WG2197996 |
| (S) a,a,a-Trifluorotoluene(FID) | 90.4 | | 77.0-120 | | 12/29/2023 17:48 | WG2197996 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Benzene | ND | | 0.00100 | 1 | 12/28/2023 02:30 | WG2196901 |
| Toluene | ND | | 0.00500 | 1 | 12/28/2023 02:30 | WG2196901 |
| Ethylbenzene | ND | | 0.00250 | 1 | 12/28/2023 02:30 | WG2196901 |
| Xylenes, Total | ND | | 0.00650 | 1 | 12/28/2023 02:30 | WG2196901 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 12/28/2023 02:30 | WG2196901 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 12/28/2023 02:30 | WG2196901 |
| (S) Toluene-d8 | 102 | | 75.0-131 | | 12/28/2023 02:30 | WG2196901 |
| (S) 4-Bromofluorobenzene | 101 | | 67.0-138 | | 12/28/2023 02:30 | WG2196901 |
| (S) 1,2-Dichloroethane-d4 | 118 | | 70.0-130 | | 12/28/2023 02:30 | WG2196901 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | ND | | 4.00 | 1 | 12/27/2023 12:36 | WG2195549 |
| C28-C36 Motor Oil Range | 5.44 | | 4.00 | 1 | 12/27/2023 12:36 | WG2195549 |
| (S) o-Terphenyl | 38.5 | | 18.0-148 | | 12/27/2023 12:36 | WG2195549 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Acenaphthene | ND | | 0.00600 | 1 | 12/27/2023 12:20 | WG2196051 |
| Anthracene | ND | | 0.00600 | 1 | 12/27/2023 12:20 | WG2196051 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 12/27/2023 12:20 | WG2196051 |
| Benzo(b)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 12:20 | WG2196051 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 12:20 | WG2196051 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 12/27/2023 12:20 | WG2196051 |
| Chrysene | ND | | 0.00600 | 1 | 12/27/2023 12:20 | WG2196051 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 12/27/2023 12:20 | WG2196051 |
| Fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 12:20 | WG2196051 |
| Fluorene | ND | | 0.00600 | 1 | 12/27/2023 12:20 | WG2196051 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 12/27/2023 12:20 | WG2196051 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 12:20 | WG2196051 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 12:20 | WG2196051 |
| Naphthalene | ND | | 0.0200 | 1 | 12/27/2023 12:20 | WG2196051 |
| Pyrene | ND | | 0.00600 | 1 | 12/27/2023 12:20 | WG2196051 |
| (S) p-Terphenyl-d14 | 57.9 | | 23.0-120 | | 12/27/2023 12:20 | WG2196051 |
| (S) Nitrobenzene-d5 | 82.7 | | 14.0-149 | | 12/27/2023 12:20 | WG2196051 |
| (S) 2-Fluorobiphenyl | 69.3 | | 34.0-125 | | 12/27/2023 12:20 | WG2196051 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 4.78 | | 1 | 12/29/2023 13:56 | WG2195412 |

Wet Chemistry by Method 7199

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Hexavalent Chromium | ND | | 1.00 | 1 | 12/28/2023 10:03 | WG2194735 |

Wet Chemistry by Method 9045D

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---------|--------|--------------------|----------|----------------------|---------------------------|
| pH | 8.38 | T8 | 1 | 12/26/2023 10:45 | WG2195495 |

Sample Narrative:

L1690632-09 WG2195495: 8.38 at 20.4C

Wet Chemistry by Method 9050AMod

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Specific Conductance | 1170 | | 10.0 | 1 | 12/28/2023 09:18 | WG2195503 |

Sample Narrative:

L1690632-09 WG2195503: at 25C

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|-------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.879 | | 0.200 | 1 | 12/28/2023 18:07 | WG2195415 |

Metals (ICPMS) by Method 6020

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------|--------|-----------|-------|----------|----------------------|---------------------------|
| Arsenic | 10.2 | | 1.00 | 5 | 12/30/2023 14:28 | WG2194819 |
| Barium | 251 | | 2.50 | 5 | 12/30/2023 14:28 | WG2194819 |
| Cadmium | ND | | 1.00 | 5 | 12/30/2023 14:28 | WG2194819 |
| Copper | 14.0 | | 5.00 | 5 | 12/30/2023 14:28 | WG2194819 |
| Lead | 10.3 | | 2.00 | 5 | 12/30/2023 14:28 | WG2194819 |
| Nickel | 15.7 | | 2.50 | 5 | 12/30/2023 14:28 | WG2194819 |
| Selenium | ND | | 2.50 | 5 | 12/30/2023 14:28 | WG2194819 |
| Silver | ND | | 0.500 | 5 | 12/30/2023 14:28 | WG2194819 |
| Zinc | 42.5 | | 25.0 | 5 | 12/30/2023 14:28 | WG2194819 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------------------|--------|-----------|----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.288 | | 0.100 | 1 | 12/29/2023 18:11 | WG2197996 |
| (S) a,a,a-Trifluorotoluene(FID) | 91.0 | | 77.0-120 | | 12/29/2023 18:11 | WG2197996 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Benzene | ND | | 0.00100 | 1 | 12/28/2023 02:49 | WG2196901 |
| Toluene | ND | | 0.00500 | 1 | 12/28/2023 02:49 | WG2196901 |
| Ethylbenzene | ND | | 0.00250 | 1 | 12/28/2023 02:49 | WG2196901 |
| Xylenes, Total | ND | | 0.00650 | 1 | 12/28/2023 02:49 | WG2196901 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 12/28/2023 02:49 | WG2196901 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 12/28/2023 02:49 | WG2196901 |
| (S) Toluene-d8 | 101 | | 75.0-131 | | 12/28/2023 02:49 | WG2196901 |
| (S) 4-Bromofluorobenzene | 108 | | 67.0-138 | | 12/28/2023 02:49 | WG2196901 |
| (S) 1,2-Dichloroethane-d4 | 120 | | 70.0-130 | | 12/28/2023 02:49 | WG2196901 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | 12.5 | | 4.00 | 1 | 12/27/2023 13:52 | WG2195549 |
| C28-C36 Motor Oil Range | 61.1 | | 4.00 | 1 | 12/27/2023 13:52 | WG2195549 |
| (S) o-Terphenyl | 59.0 | | 18.0-148 | | 12/27/2023 13:52 | WG2195549 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Acenaphthene | ND | | 0.00600 | 1 | 12/27/2023 14:23 | WG2196051 |
| Anthracene | ND | | 0.00600 | 1 | 12/27/2023 14:23 | WG2196051 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 12/27/2023 14:23 | WG2196051 |
| Benzo(b)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 14:23 | WG2196051 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 14:23 | WG2196051 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 12/27/2023 14:23 | WG2196051 |
| Chrysene | ND | | 0.00600 | 1 | 12/27/2023 14:23 | WG2196051 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 12/27/2023 14:23 | WG2196051 |
| Fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 14:23 | WG2196051 |
| Fluorene | ND | | 0.00600 | 1 | 12/27/2023 14:23 | WG2196051 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 12/27/2023 14:23 | WG2196051 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 14:23 | WG2196051 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 14:23 | WG2196051 |
| Naphthalene | ND | | 0.0200 | 1 | 12/27/2023 14:23 | WG2196051 |
| Pyrene | ND | | 0.00600 | 1 | 12/27/2023 14:23 | WG2196051 |
| (S) p-Terphenyl-d14 | 61.4 | | 23.0-120 | | 12/27/2023 14:23 | WG2196051 |
| (S) Nitrobenzene-d5 | 68.2 | | 14.0-149 | | 12/27/2023 14:23 | WG2196051 |
| (S) 2-Fluorobiphenyl | 57.0 | | 34.0-125 | | 12/27/2023 14:23 | WG2196051 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 3.69 | | 1 | 12/29/2023 13:45 | WG2195412 |

Wet Chemistry by Method 7199

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Hexavalent Chromium | ND | | 1.00 | 1 | 12/28/2023 10:10 | WG2194735 |

Wet Chemistry by Method 9045D

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---------|--------|--------------------|----------|----------------------|---------------------------|
| pH | 7.93 | T8 | 1 | 12/26/2023 09:00 | WG2195492 |

Sample Narrative:

L1690632-10 WG2195492: 7.93 at 19.7C

Wet Chemistry by Method 9050AMod

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Specific Conductance | 3200 | | 10.0 | 1 | 12/28/2023 09:18 | WG2195503 |

Sample Narrative:

L1690632-10 WG2195503: at 25C

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|-------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.774 | | 0.200 | 1 | 12/28/2023 18:10 | WG2195415 |

Metals (ICPMS) by Method 6020

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------|--------|-----------|-------|----------|----------------------|---------------------------|
| Arsenic | 10.9 | | 1.00 | 5 | 12/30/2023 14:31 | WG2194819 |
| Barium | 291 | | 2.50 | 5 | 12/30/2023 14:31 | WG2194819 |
| Cadmium | ND | | 1.00 | 5 | 12/30/2023 14:31 | WG2194819 |
| Copper | 15.8 | | 5.00 | 5 | 12/30/2023 14:31 | WG2194819 |
| Lead | 11.3 | | 2.00 | 5 | 12/30/2023 14:31 | WG2194819 |
| Nickel | 14.6 | | 2.50 | 5 | 12/30/2023 14:31 | WG2194819 |
| Selenium | ND | | 2.50 | 5 | 12/30/2023 14:31 | WG2194819 |
| Silver | ND | | 0.500 | 5 | 12/30/2023 14:31 | WG2194819 |
| Zinc | 51.2 | | 25.0 | 5 | 12/30/2023 14:31 | WG2194819 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------------------|--------|-----------|----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.463 | | 0.100 | 1 | 12/29/2023 18:34 | WG2197996 |
| (S) a,a,a-Trifluorotoluene(FID) | 91.2 | | 77.0-120 | | 12/29/2023 18:34 | WG2197996 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Benzene | ND | | 0.00100 | 1 | 12/28/2023 03:08 | WG2196901 |
| Toluene | 0.0119 | | 0.00500 | 1 | 12/28/2023 03:08 | WG2196901 |
| Ethylbenzene | ND | | 0.00250 | 1 | 12/28/2023 03:08 | WG2196901 |
| Xylenes, Total | 0.0186 | | 0.00650 | 1 | 12/28/2023 03:08 | WG2196901 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 12/28/2023 03:08 | WG2196901 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 12/28/2023 03:08 | WG2196901 |
| (S) Toluene-d8 | 100 | | 75.0-131 | | 12/28/2023 03:08 | WG2196901 |
| (S) 4-Bromofluorobenzene | 104 | | 67.0-138 | | 12/28/2023 03:08 | WG2196901 |
| (S) 1,2-Dichloroethane-d4 | 123 | | 70.0-130 | | 12/28/2023 03:08 | WG2196901 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | 7.23 | | 4.00 | 1 | 12/27/2023 13:01 | WG2195549 |
| C28-C36 Motor Oil Range | 29.2 | | 4.00 | 1 | 12/27/2023 13:01 | WG2195549 |
| (S) o-Terphenyl | 51.1 | | 18.0-148 | | 12/27/2023 13:01 | WG2195549 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Acenaphthene | ND | | 0.00600 | 1 | 12/27/2023 12:38 | WG2196051 |
| Anthracene | ND | | 0.00600 | 1 | 12/27/2023 12:38 | WG2196051 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 12/27/2023 12:38 | WG2196051 |
| Benzo(b)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 12:38 | WG2196051 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 12:38 | WG2196051 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 12/27/2023 12:38 | WG2196051 |
| Chrysene | ND | | 0.00600 | 1 | 12/27/2023 12:38 | WG2196051 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 12/27/2023 12:38 | WG2196051 |
| Fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 12:38 | WG2196051 |
| Fluorene | ND | | 0.00600 | 1 | 12/27/2023 12:38 | WG2196051 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 12/27/2023 12:38 | WG2196051 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 12:38 | WG2196051 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 12:38 | WG2196051 |
| Naphthalene | ND | | 0.0200 | 1 | 12/27/2023 12:38 | WG2196051 |
| Pyrene | ND | | 0.00600 | 1 | 12/27/2023 12:38 | WG2196051 |
| (S) p-Terphenyl-d14 | 63.3 | | 23.0-120 | | 12/27/2023 12:38 | WG2196051 |
| (S) Nitrobenzene-d5 | 69.6 | | 14.0-149 | | 12/27/2023 12:38 | WG2196051 |
| (S) 2-Fluorobiphenyl | 59.5 | | 34.0-125 | | 12/27/2023 12:38 | WG2196051 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 3.51 | | 1 | 12/29/2023 13:47 | WG2195412 |

Wet Chemistry by Method 7199

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Hexavalent Chromium | ND | | 1.00 | 1 | 12/28/2023 10:16 | WG2194735 |

Wet Chemistry by Method 9045D

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---------|--------|--------------------|----------|----------------------|---------------------------|
| pH | 8.26 | T8 | 1 | 12/26/2023 10:45 | WG2195495 |

Sample Narrative:

L1690632-11 WG2195495: 8.26 at 20.3C

Wet Chemistry by Method 9050AMod

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|------|----------|----------------------|---------------------------|
| Specific Conductance | 762 | | 10.0 | 1 | 12/28/2023 09:18 | WG2195503 |

Sample Narrative:

L1690632-11 WG2195503: at 25C

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------------------|--------|-----------|-------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.701 | | 0.200 | 1 | 12/28/2023 18:13 | WG2195415 |

Metals (ICPMS) by Method 6020

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|----------|--------|-----------|-------|----------|----------------------|---------------------------|
| Arsenic | 11.9 | | 1.00 | 5 | 12/30/2023 14:35 | WG2194819 |
| Barium | 281 | | 2.50 | 5 | 12/30/2023 14:35 | WG2194819 |
| Cadmium | ND | | 1.00 | 5 | 12/30/2023 14:35 | WG2194819 |
| Copper | 17.3 | | 5.00 | 5 | 12/30/2023 14:35 | WG2194819 |
| Lead | 11.8 | | 2.00 | 5 | 12/30/2023 14:35 | WG2194819 |
| Nickel | 15.8 | | 2.50 | 5 | 12/30/2023 14:35 | WG2194819 |
| Selenium | ND | | 2.50 | 5 | 12/30/2023 14:35 | WG2194819 |
| Silver | ND | | 0.500 | 5 | 12/30/2023 14:35 | WG2194819 |
| Zinc | 53.2 | | 25.0 | 5 | 12/30/2023 14:35 | WG2194819 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---------------------------------|--------|-----------|----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.362 | | 0.100 | 1 | 12/29/2023 18:57 | WG2197996 |
| (S) a,a,a-Trifluorotoluene(FID) | 88.5 | | 77.0-120 | | 12/29/2023 18:57 | WG2197996 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Benzene | ND | | 0.00100 | 1 | 12/28/2023 03:28 | WG2196901 |
| Toluene | ND | | 0.00500 | 1 | 12/28/2023 03:28 | WG2196901 |
| Ethylbenzene | ND | | 0.00250 | 1 | 12/28/2023 03:28 | WG2196901 |
| Xylenes, Total | ND | | 0.00650 | 1 | 12/28/2023 03:28 | WG2196901 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 12/28/2023 03:28 | WG2196901 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 12/28/2023 03:28 | WG2196901 |
| (S) Toluene-d8 | 99.2 | | 75.0-131 | | 12/28/2023 03:28 | WG2196901 |
| (S) 4-Bromofluorobenzene | 104 | | 67.0-138 | | 12/28/2023 03:28 | WG2196901 |
| (S) 1,2-Dichloroethane-d4 | 121 | | 70.0-130 | | 12/28/2023 03:28 | WG2196901 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | 5.35 | | 4.00 | 1 | 12/27/2023 13:14 | WG2195549 |
| C28-C36 Motor Oil Range | 29.4 | | 4.00 | 1 | 12/27/2023 13:14 | WG2195549 |
| (S) o-Terphenyl | 47.9 | | 18.0-148 | | 12/27/2023 13:14 | WG2195549 |

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

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| Acenaphthene | ND | | 0.00600 | 1 | 12/27/2023 14:40 | WG2196051 |
| Anthracene | ND | | 0.00600 | 1 | 12/27/2023 14:40 | WG2196051 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 12/27/2023 14:40 | WG2196051 |
| Benzo(b)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 14:40 | WG2196051 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 14:40 | WG2196051 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 12/27/2023 14:40 | WG2196051 |
| Chrysene | ND | | 0.00600 | 1 | 12/27/2023 14:40 | WG2196051 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 12/27/2023 14:40 | WG2196051 |
| Fluoranthene | ND | | 0.00600 | 1 | 12/27/2023 14:40 | WG2196051 |
| Fluorene | ND | | 0.00600 | 1 | 12/27/2023 14:40 | WG2196051 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 12/27/2023 14:40 | WG2196051 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 14:40 | WG2196051 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 12/27/2023 14:40 | WG2196051 |
| Naphthalene | ND | | 0.0200 | 1 | 12/27/2023 14:40 | WG2196051 |
| Pyrene | ND | | 0.00600 | 1 | 12/27/2023 14:40 | WG2196051 |
| (S) p-Terphenyl-d14 | 51.2 | | 23.0-120 | | 12/27/2023 14:40 | WG2196051 |
| (S) Nitrobenzene-d5 | 56.2 | | 14.0-149 | | 12/27/2023 14:40 | WG2196051 |
| (S) 2-Fluorobiphenyl | 47.4 | | 34.0-125 | | 12/27/2023 14:40 | WG2196051 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4017549-1 12/28/23 07:02

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

L1690278-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1690278-08 12/28/23 07:16 • (DUP) R4017549-3 12/28/23 07:22

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------------------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/kg | mg/kg | | % | | % |
| Hexavalent Chromium | ND | ND | 1 | 33.1 | P1 | 20 |

L1690632-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1690632-02 12/28/23 09:01 • (DUP) R4017549-8 12/28/23 09:08

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

Laboratory Control Sample (LCS)

(LCS) R4017549-2 12/28/23 07:10

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------------------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/kg | mg/kg | % | % | |
| Hexavalent Chromium | 10.0 | 10.6 | 106 | 80.0-120 | |

L1690311-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1690311-07 12/28/23 07:47 • (MS) R4017549-5 12/28/23 07:59 • (MSD) R4017549-6 12/28/23 08:18

| | 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 | 5.59 | 22.1 | 18.8 | 82.7 | 66.0 | 1 | 75.0-125 | | J6 | 16.4 | 20 |

L1690311-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1690311-07 12/28/23 07:47 • (MS) R4017549-7 12/28/23 08:24

| | Spike Amount | Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier |
|---------------------|--------------|-----------------|-----------|---------|----------|-------------|--------------|
| Analyte | mg/kg | mg/kg | mg/kg | % | | % | |
| Hexavalent Chromium | 641 | 5.59 | 707 | 110 | 50 | 75.0-125 | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1689218-29 Original Sample (OS) • Duplicate (DUP)

(OS) L1689218-29 12/26/23 09:00 • (DUP) R4016536-2 12/26/23 09:00

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | su | su | | % | | % |
| pH | 7.53 | 7.55 | 1 | 0.265 | | 1 |

Sample Narrative:

OS: 7.53 at 19.9C

DUP: 7.55 at 20C

L1690632-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1690632-10 12/26/23 09:00 • (DUP) R4016536-3 12/26/23 09:00

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | pH | su | | % | | % |
| pH | 7.93 | 7.93 | 1 | 0.000 | | 1 |

Sample Narrative:

OS: 7.93 at 19.7C

DUP: 7.93 at 20C

Laboratory Control Sample (LCS)

(LCS) R4016536-1 12/26/23 09:00

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

Sample Narrative:

LCS: 10.01 at 20.5C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1690723-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1690723-02 12/26/23 10:45 • (DUP) R4016580-4 12/26/23 10:45

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | pH | su | | % | | % |
| pH | 9.11 | 9.11 | 1 | 0.000 | | 1 |

Sample Narrative:

OS: 9.11 at 20.3C

DUP: 9.11 at 20.2C

Laboratory Control Sample (LCS)

(LCS) R4016580-1 12/26/23 10:45

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

Sample Narrative:

LCS: 10.01 at 19.3C

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4017435-1 12/28/23 09:18

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

Sample Narrative:

BLANK: at 25C

L1690632-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1690632-01 12/28/23 09:18 • (DUP) R4017435-3 12/28/23 09:18

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|----------------------|-----------------------------|------------------------|----------|--------------|---------------|------------------------|
| Specific Conductance | 192 | 192 | 1 | 0.104 | | 20 |

Sample Narrative:

OS: at 25C

DUP: at 25C

L1690729-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1690729-02 12/28/23 09:18 • (DUP) R4017435-4 12/28/23 09:18

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|----------------------|-----------------------------|------------------------|----------|--------------|---------------|------------------------|
| Specific Conductance | 1770 | 1730 | 1 | 2.00 | | 20 |

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4017435-2 12/28/23 09:18

| Analyte | Spike Amount umhos/cm | LCS Result umhos/cm | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------------|--------------------------|------------------------|---------------|------------------|---------------|
| Specific Conductance | 327 | 333 | 102 | 85.0-115 | |

Sample Narrative:

LCS: at 25C



Method Blank (MB)

(MB) R4017863-1 12/28/23 17:23

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

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

(LCS) R4017863-2 12/28/23 17:26 • (LCSD) R4017863-3 12/28/23 17:28

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCSD Result mg/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|----------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Hot Water Sol. Boron | 1.00 | 1.03 | 1.03 | 103 | 103 | 80.0-120 | | | 0.368 | 20 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4018478-1 12/30/23 13:36

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|----------|--------------------|--------------|-----------------|-----------------|
| Arsenic | U | | 0.100 | 1.00 |
| Barium | U | | 0.152 | 2.50 |
| Cadmium | U | | 0.0855 | 1.00 |
| Copper | U | | 0.133 | 5.00 |
| Lead | U | | 0.0990 | 2.00 |
| Nickel | U | | 0.197 | 2.50 |
| Selenium | U | | 0.180 | 2.50 |
| Silver | U | | 0.0865 | 0.500 |
| Zinc | U | | 0.740 | 25.0 |

Laboratory Control Sample (LCS)

(LCS) R4018478-2 12/30/23 13:39

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------|-----------------------|---------------------|---------------|------------------|---------------|
| Arsenic | 100 | 99.8 | 99.8 | 80.0-120 | |
| Barium | 100 | 94.2 | 94.2 | 80.0-120 | |
| Cadmium | 100 | 101 | 101 | 80.0-120 | |
| Copper | 100 | 99.8 | 99.8 | 80.0-120 | |
| Lead | 100 | 96.9 | 96.9 | 80.0-120 | |
| Nickel | 100 | 104 | 104 | 80.0-120 | |
| Selenium | 100 | 101 | 101 | 80.0-120 | |
| Silver | 20.0 | 20.0 | 100 | 80.0-120 | |
| Zinc | 100 | 96.6 | 96.6 | 80.0-120 | |

L1690632-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1690632-01 12/30/23 13:43 • (MS) R4018478-5 12/30/23 13:52 • (MSD) R4018478-6 12/30/23 13:56

| 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 % |
|----------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Arsenic | 100 | 12.3 | 122 | 116 | 110 | 104 | 5 | 75.0-125 | | | 5.10 | 20 |
| Barium | 100 | 233 | 434 | 391 | 202 | 159 | 5 | 75.0-125 | J5 | J5 | 10.4 | 20 |
| Cadmium | 100 | ND | 112 | 105 | 111 | 104 | 5 | 75.0-125 | | | 6.30 | 20 |
| Copper | 100 | 18.2 | 122 | 120 | 103 | 101 | 5 | 75.0-125 | | | 1.79 | 20 |
| Lead | 100 | 11.1 | 111 | 108 | 99.6 | 96.9 | 5 | 75.0-125 | | | 2.49 | 20 |
| Nickel | 100 | 14.9 | 115 | 112 | 100 | 97.4 | 5 | 75.0-125 | | | 2.74 | 20 |
| Selenium | 100 | ND | 112 | 110 | 112 | 109 | 5 | 75.0-125 | | | 2.30 | 20 |
| Silver | 20.0 | ND | 22.6 | 21.4 | 113 | 107 | 5 | 75.0-125 | | | 5.52 | 20 |
| Zinc | 100 | 97.8 | 168 | 177 | 70.1 | 79.3 | 5 | 75.0-125 | J6 | | 5.34 | 20 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4018643-3 12/29/23 14:33

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| TPH (GC/FID) Low Fraction | U | | 0.0217 | 0.100 |
| (S) a,a,a-Trifluorotoluene(FID) | 99.4 | | | 77.0-120 |

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

(LCS) R4018643-1 12/29/23 13:01 • (LCSD) R4018643-2 12/29/23 13:24

| 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 % |
|------------------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| TPH (GC/FID) Low Fraction | 5.50 | 4.63 | 5.20 | 84.2 | 94.5 | 72.0-127 | | | 11.6 | 20 |
| (S) a,a,a-Trifluorotoluene(FID) | | | | 105 | 109 | 77.0-120 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4019801-3 01/03/24 11:15

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| TPH (GC/FID) Low Fraction | U | | 0.0217 | 0.100 |
| (S) a,a,a-Trifluorotoluene(FID) | 105 | | | 77.0-120 |

Laboratory Control Sample (LCS)

(LCS) R4019801-2 01/03/24 10:29

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| TPH (GC/FID) Low Fraction | 5.50 | 6.44 | 117 | 72.0-127 | |
| (S) a,a,a-Trifluorotoluene(FID) | | | 117 | 77.0-120 | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4018048-3 12/27/23 16:27

| 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 | 0.00403 | U | 0.000880 | 0.00650 |
| 1,2,4-Trimethylbenzene | 0.00282 | U | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| (S) Toluene-d8 | 94.4 | | | 75.0-131 |
| (S) 4-Bromofluorobenzene | 99.1 | | | 67.0-138 |
| (S) 1,2-Dichloroethane-d4 | 102 | | | 70.0-130 |

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

(LCS) R4018048-1 12/27/23 14:38 • (LCSD) R4018048-2 12/27/23 15:10

| 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 | 0.126 | 0.128 | 101 | 102 | 70.0-123 | | | 1.57 | 20 |
| Toluene | 0.125 | 0.120 | 0.122 | 96.0 | 97.6 | 75.0-121 | | | 1.65 | 20 |
| Ethylbenzene | 0.125 | 0.115 | 0.113 | 92.0 | 90.4 | 74.0-126 | | | 1.75 | 20 |
| Xylenes, Total | 0.375 | 0.344 | 0.360 | 91.7 | 96.0 | 72.0-127 | | | 4.55 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.117 | 0.126 | 93.6 | 101 | 70.0-126 | | | 7.41 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.114 | 0.115 | 91.2 | 92.0 | 73.0-127 | | | 0.873 | 20 |
| (S) Toluene-d8 | | | | 93.5 | 93.4 | 75.0-131 | | | | |
| (S) 4-Bromofluorobenzene | | | | 97.7 | 101 | 67.0-138 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 108 | 111 | 70.0-130 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4017665-3 12/27/23 20:39

| 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 | 102 | | | 75.0-131 |
| (S) 4-Bromofluorobenzene | 98.3 | | | 67.0-138 |
| (S) 1,2-Dichloroethane-d4 | 121 | | | 70.0-130 |

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

(LCS) R4017665-1 12/27/23 18:58 • (LCSD) R4017665-2 12/27/23 19:17

| 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 | 0.126 | 0.125 | 101 | 100 | 70.0-123 | | | 0.797 | 20 |
| Toluene | 0.125 | 0.115 | 0.115 | 92.0 | 92.0 | 75.0-121 | | | 0.000 | 20 |
| Ethylbenzene | 0.125 | 0.116 | 0.116 | 92.8 | 92.8 | 74.0-126 | | | 0.000 | 20 |
| Xylenes, Total | 0.375 | 0.334 | 0.342 | 89.1 | 91.2 | 72.0-127 | | | 2.37 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.126 | 0.124 | 101 | 99.2 | 70.0-126 | | | 1.60 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.121 | 0.123 | 96.8 | 98.4 | 73.0-127 | | | 1.64 | 20 |
| (S) Toluene-d8 | | | | 97.6 | 97.2 | 75.0-131 | | | | |
| (S) 4-Bromofluorobenzene | | | | 102 | 102 | 67.0-138 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 125 | 124 | 70.0-130 | | | | |

L1690632-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1690632-04 12/28/23 01:14 • (MS) R4017665-4 12/28/23 05:03 • (MSD) R4017665-5 12/28/23 05:22

| 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 % |
|---------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Benzene | 0.125 | ND | 0.168 | 0.171 | 134 | 137 | 1 | 10.0-149 | | | 1.77 | 37 |
| Toluene | 0.125 | ND | 0.162 | 0.162 | 130 | 130 | 1 | 10.0-156 | | | 0.000 | 38 |
| Ethylbenzene | 0.125 | ND | 0.157 | 0.156 | 126 | 125 | 1 | 10.0-160 | | | 0.639 | 38 |
| Xylenes, Total | 0.375 | ND | 0.466 | 0.413 | 124 | 109 | 1 | 10.0-160 | | | 12.1 | 38 |
| 1,2,4-Trimethylbenzene | 0.125 | ND | 0.165 | 0.165 | 132 | 132 | 1 | 10.0-160 | | | 0.000 | 36 |
| 1,3,5-Trimethylbenzene | 0.125 | ND | 0.161 | 0.165 | 129 | 132 | 1 | 10.0-160 | | | 2.45 | 38 |
| (S) Toluene-d8 | | | | | 99.6 | 99.7 | | 75.0-131 | | | | |
| (S) 4-Bromofluorobenzene | | | | | 103 | 98.8 | | 67.0-138 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | | 124 | 118 | | 70.0-130 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4016941-1 12/26/23 14:33

| 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 | 92.6 | | | 18.0-148 |

Laboratory Control Sample (LCS)

(LCS) R4016941-2 12/26/23 15:05

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| C10-C28 Diesel Range | 50.0 | 37.3 | 74.6 | 50.0-150 | |
| (S) o-Terphenyl | | | 81.8 | 18.0-148 | |

L1690870-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1690870-02 12/26/23 15:50 • (MS) R4016941-3 12/26/23 16:02 • (MSD) R4016941-4 12/26/23 16:14

| 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 | 49.5 | ND | 32.4 | 29.9 | 65.5 | 60.2 | 1 | 50.0-150 | | | 8.03 | 20 |
| (S) o-Terphenyl | | | | | 70.6 | 70.7 | | 18.0-148 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4017049-1 12/27/23 08:30

| 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 | 81.4 | | | 18.0-148 |

Laboratory Control Sample (LCS)

(LCS) R4017049-2 12/27/23 08:42

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| C10-C28 Diesel Range | 50.0 | 28.7 | 57.4 | 50.0-150 | |
| (S) o-Terphenyl | | | 58.6 | 18.0-148 | |

L1690642-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1690642-03 12/27/23 09:39 • (MS) R4017049-3 12/27/23 09:51 • (MSD) R4017049-4 12/27/23 10:04

| 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 | 49.7 | ND | ND | ND | 111 | 124 | 20 | 50.0-150 | | | 11.3 | 20 |
| (S) o-Terphenyl | | | | | 134 | 82.5 | | 18.0-148 | J7 | J7 | | |

Sample Narrative:

OS: Cannot run at lower dilution due to viscosity of extract

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4017240-2 12/27/23 11:28

| 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 | 83.1 | | | 23.0-120 |
| (S) Nitrobenzene-d5 | 86.0 | | | 14.0-149 |
| (S) 2-Fluorobiphenyl | 77.8 | | | 34.0-125 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4017240-1 12/27/23 11:11

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Acenaphthene | 0.0800 | 0.0579 | 72.4 | 50.0-120 | |
| Anthracene | 0.0800 | 0.0613 | 76.6 | 50.0-126 | |
| Benzo(a)anthracene | 0.0800 | 0.0681 | 85.1 | 45.0-120 | |
| Benzo(b)fluoranthene | 0.0800 | 0.0627 | 78.4 | 42.0-121 | |
| Benzo(k)fluoranthene | 0.0800 | 0.0599 | 74.9 | 49.0-125 | |
| Benzo(a)pyrene | 0.0800 | 0.0618 | 77.3 | 42.0-120 | |
| Chrysene | 0.0800 | 0.0637 | 79.6 | 49.0-122 | |
| Dibenz(a,h)anthracene | 0.0800 | 0.0616 | 77.0 | 47.0-125 | |
| Fluoranthene | 0.0800 | 0.0636 | 79.5 | 49.0-129 | |
| Fluorene | 0.0800 | 0.0640 | 80.0 | 49.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.0800 | 0.0665 | 83.1 | 46.0-125 | |
| 1-Methylnaphthalene | 0.0800 | 0.0624 | 78.0 | 51.0-121 | |
| 2-Methylnaphthalene | 0.0800 | 0.0635 | 79.4 | 50.0-120 | |
| Naphthalene | 0.0800 | 0.0588 | 73.5 | 50.0-120 | |
| Pyrene | 0.0800 | 0.0658 | 82.3 | 43.0-123 | |

Laboratory Control Sample (LCS)

(LCS) R4017240-1 12/27/23 11:11

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | <u>LCS Qualifier</u> |
|----------------------|-----------------------|---------------------|---------------|------------------|----------------------|
| (S) p-Terphenyl-d14 | | | 81.1 | 23.0-120 | |
| (S) Nitrobenzene-d5 | | | 92.7 | 14.0-149 | |
| (S) 2-Fluorobiphenyl | | | 78.4 | 34.0-125 | |

L1690632-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1690632-05 12/27/23 16:08 • (MS) R4017240-3 12/27/23 16:25 • (MSD) R4017240-4 12/27/23 16:42

| 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 | 0.0800 | ND | 0.0423 | 0.0496 | 52.9 | 62.3 | 1 | 14.0-127 | | | 15.9 | 27 |
| Anthracene | 0.0800 | ND | 0.0443 | 0.0522 | 55.4 | 65.6 | 1 | 10.0-145 | | | 16.4 | 30 |
| Benzo(a)anthracene | 0.0800 | ND | 0.0508 | 0.0592 | 63.5 | 74.4 | 1 | 10.0-139 | | | 15.3 | 30 |
| Benzo(b)fluoranthene | 0.0800 | ND | 0.0436 | 0.0487 | 54.5 | 61.2 | 1 | 10.0-140 | | | 11.1 | 36 |
| Benzo(k)fluoranthene | 0.0800 | ND | 0.0432 | 0.0504 | 54.0 | 63.3 | 1 | 10.0-137 | | | 15.4 | 31 |
| Benzo(a)pyrene | 0.0800 | ND | 0.0514 | 0.0599 | 64.3 | 75.3 | 1 | 10.0-141 | | | 15.3 | 31 |
| Chrysene | 0.0800 | ND | 0.0485 | 0.0559 | 60.6 | 70.2 | 1 | 10.0-145 | | | 14.2 | 30 |
| Dibenz(a,h)anthracene | 0.0800 | ND | 0.0460 | 0.0522 | 57.5 | 65.6 | 1 | 10.0-132 | | | 12.6 | 31 |
| Fluoranthene | 0.0800 | ND | 0.0481 | 0.0548 | 60.1 | 68.8 | 1 | 10.0-153 | | | 13.0 | 33 |
| Fluorene | 0.0800 | ND | 0.0484 | 0.0548 | 60.5 | 68.8 | 1 | 11.0-130 | | | 12.4 | 29 |
| Indeno(1,2,3-cd)pyrene | 0.0800 | ND | 0.0509 | 0.0572 | 63.6 | 71.9 | 1 | 10.0-137 | | | 11.7 | 32 |
| 1-Methylnaphthalene | 0.0800 | ND | 0.0479 | 0.0565 | 59.9 | 71.0 | 1 | 10.0-142 | | | 16.5 | 28 |
| 2-Methylnaphthalene | 0.0800 | ND | 0.0497 | 0.0569 | 62.1 | 71.5 | 1 | 10.0-137 | | | 13.5 | 28 |
| Naphthalene | 0.0800 | ND | 0.0447 | 0.0518 | 55.9 | 65.1 | 1 | 10.0-135 | | | 14.7 | 27 |
| Pyrene | 0.0800 | ND | 0.0492 | 0.0574 | 61.5 | 72.1 | 1 | 10.0-148 | | | 15.4 | 35 |
| (S) p-Terphenyl-d14 | | | | | 64.1 | 68.4 | | 23.0-120 | | | | |
| (S) Nitrobenzene-d5 | | | | | 73.3 | 81.7 | | 14.0-149 | | | | |
| (S) 2-Fluorobiphenyl | | | | | 59.4 | 65.3 | | 34.0-125 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

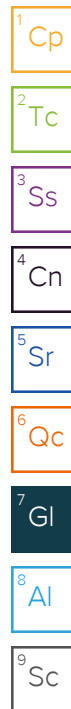
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

| | |
|------------------------------|--|
| MDL | Method Detection Limit. |
| ND | Not detected at the Reporting Limit (or MDL where applicable). |
| 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

| | |
|----|--|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| J7 | Surrogate recovery cannot be used for control limit evaluation due to dilution. |
| P1 | RPD value not applicable for sample concentrations less than 5 times the reporting limit. |
| T8 | Sample(s) received past/too close to holding time expiration. |



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122


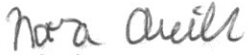
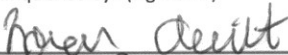

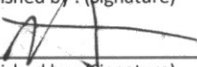
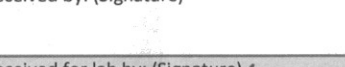

| | | | |
|--------------------------------|-------------|-----------------------------|------------------|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey--NELAP | TN002 |
| California | 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.



| | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|---|--|---|-------------------------------|---|-------------------------------------|--|-----------------------------|---|--|---|--|--|--|--|---|--|--|--|
| Company Name/Address: Caerus Oil and Gas LLC | | | Billing Information: Caerus Oil and Gas LLC | | | Pres Chk | | Analysis / Container / Preservative | | | | | | | | | | Chain of Custody Page ____ of ____ | | | |
| Report to: Jake Janicek, Brett Middleton, Blair Rollins | | | Email To: Info on file | | | | | | | | | | | | | | |  PEOPLE ADVANCING SCIENCE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf | | | |
| Project Description: 360 pipeline closure 260 P&A and BG samples | | | City/State Collected: Parachute CO | | | Please Circle: PT MT CT ET | | | | | | | | | | | | | | | |
| Phone: 970-285-2720 | | Client Project # | | | Lab Project # CAERUSPCO-915 | | | | | | | | | | | | | | | | |
| Collected by (print): Nora Oviatt | | Site/Facility ID # | | | P.O. # | | | | | | | | | | | | | | | | |
| Collected by (signature):  | | Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day | | | Quote # | | | | | | | | | | | | | | | | |
| Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/> | | | | | Date Results Needed | | | No. of Cntrs | | | | | | | | | | | | | |
| Sample ID | | Comp/Grab | Matrix* | Depth | Date | Time | | | | | | | | | | | | | | | |
| 2023 1220-360-(FC-pipeline 01) @ 5 grab | | SS | 6.5 ft | 12/20/23 | 1000 | 4 | X | | | | | | | | | | | | | | |
| 2023 1220-360-(FC-pipeline 02) @ 10 grab | | SS | 10 ft | 12/20/23 | 1040 | 4 | X | | | | | | | | | | | | | | |
| 2023 1220-360-(stock 01) @ comp | | SS | 0.5 ft | 12/20/23 | 1140 | 4 | X | | | | | | | | | | | | | | |
| 2023 1220-360-(stock 02) @ comp | | SS | 0.5 ft | 12/20/23 | 1120 | 4 | X | | | | | | | | | | | | | | |
| 2023 1220-360-(FC-pipeline 03) @ 20 grab | | SS | 20 ft | 12/20/23 | 1100 | 4 | X | | | | | | | | | | | | | | |
| 2023 1220-360-(FC-pipeline 04) @ 7 grab | | SS | 7 ft | 12/20/23 | 1220 | 4 | X | | | | | | | | | | | | | | |
| 2023 1220-360-(stock 03) @ comp | | SS | 0.5 ft | 12/20/23 | 1230 | 4 | X | | | | | | | | | | | | | | |
| 2023 1220-360-(FC-pipeline 05) @ 6 grab | | SS | 6 ft | 12/20/23 | 1240 | 4 | X | | | | | | | | | | | | | | |
| 2023 1220-360-(stock 04) @ comp | | SS | 0.5 ft | 12/20/23 | 1250 | 4 | X | | | | | | | | | | | | | | |
| 2023 1220-360-(FC-pipeline 06) @ 6 grab | | SS | 6 ft | 12/20/23 | 1335 | 4 | X | | | | | | | | | | | | | | |
| * Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other | | Remarks: | | | Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier | | | Tracking # 6426 8306 7955 | | | pH _____ Temp _____ Flow _____ Other _____ | | | Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | | | | | | | |
| Relinquished by: (Signature)  | | Date: 12/20/2023 | Time: 1615 | Received by: (Signature)  | | | Trip Blank Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> HCL / MeOH TBR | | | Bottles Received: 44 | | | If preservation required by Login: Date/Time | | | | | | | | |
| Relinquished by: (Signature)  | | Date: 12/20/23 | Time: 1730 | Received by: (Signature)  | | | Temp: DP18 °C 2.6 to 2.6 | | | Date: 12/21/23 | | | Condition: NCF <input checked="" type="checkbox"/> OK <input type="checkbox"/> | | | | | | | | |
| Relinquished by: (Signature) | | Date: | Time: | Received for lab by: (Signature)  | | | Time: 1000 | | | Hold: | | | | | | | | | | | |

[illegible]

12/21 - NCF-L1690632 CAERUSPCO

R2/R3/R4/RX/EX

Time estimate: 0h

Time spent: 0h

Grouping date: 22 December
2023

Members



Robert Rountree (responsible)



Chris Ward

~~Due on 29 December 2023 5:00 PM for target Done~~ (Was done by Robert Rountree at 22 December 2023 11:11 PM)

- ☒ Login Clarification needed
- ☐ Chain of custody is incomplete
- ☐ Please specify Metals requested
- ☐ Please specify TCLP requested
- ☐ Received additional samples not listed on COC
- ☒ Sample IDs on containers do not match IDs on COC
- ☐ Client did not "X" analysis
- ☐ Chain of Custody is missing
- ☐ If no COC: Received by: _____
- ☐ If no COC: Date/Time: _____
- ☐ If no COC: Temp./Cont.Rec./pH: _____
- ☐ If no COC: Carrier: _____
- ☐ If no COC: Tracking #: _____
- ☐ Client informed by call
- ☒ Client informed by Email
- ☐ Client informed by Voicemail
- ☒ Date/Time: 12/22/23@1111 _____
- ☒ PM initials: _____ CMW _____
- ☒ Client Contact: Brett Middleton _____

Comments

Robert Rountree

21 December 2023 8:13 PM

Sample 20231220-O36-(FC-PIPELINE04)@7 is Labeled as PIPELINE05)@7. Time and date match chain and no other samples are mislabeled. Logged per information on chain.

Chris Ward

22 December 2023 11:10 AM

Log as Pipeline04)@7 please

Robert Rountree

22 December 2023 11:11 PM

Done.