



April 26, 2024
Kleinfelder Project No.: 24004611.001A

Mr. Blair Rollins
Caerus Piceance, LLC
143 Diamond Avenue
Parachute, Colorado 81635

**SUBJECT: Site Investigation Report
 Remediation Project Number: 31518
 Love Ranch 8 Off-Location Flowline Release
 Rio Blanco County, Colorado**

Dear Mr. Rollins:

Kleinfelder Inc. (Kleinfelder) performed monitoring activities at the Love Ranch 8 Off-Location Flowline Release site in Rio Blanco County, Colorado under contract by Caerus Piceance LLC (Caerus). Enclosed is the report of work complete for this effort.

Please do not hesitate to contact me at (970) 309-6553 or by email at JVeith@kleinfelder.com should you have questions or concerns.

Respectfully submitted,

KLEINFELDER, INC.

A handwritten signature in dark ink that reads "Jordan Veith". The signature is written in a cursive, flowing style.

Jordan Veith
Project Manager I



**SITE INVESTIGATION REPORT
REMEDATION PROJECT NUMBER: 31518
LOVE RANCH 8 OFF-LOCATION FLOWLINE RELEASE
RIO BLANCO COUNTY, COLORADO
KLEINFELDER PROJECT NO. 24004611.001A**

April 26, 2024

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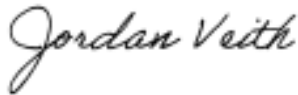
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REPORT WAS PREPARED.**

A Report Prepared for:

Mr. Blair Rollins
Caerus Piceance, LLC
143 Diamond Avenue
Parachute, CO 81635


**SITE INVESTIGATION REPORT
REMEDIATION PROJECT NUMBER: 31518
LOVE RANCH 8 OFF-LOCATION FLOWLINE RELEASE
RIO BLANCO COUNTY, COLORADO**

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Project Manager I

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April 26, 2024
Kleinfelder Project No.: 24004611.001A

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SITE INVESTIGATION REPORT
REMEDATION PROJECT NUMBER: 31518
LOVE RANCH 8 OFF-LOCATION FLOWLINE RELEASE
RIO BLANCO COUNTY, COLORADO

1 INTRODUCTION

This document was prepared by Kleinfelder Inc. (Kleinfelder) on behalf of Caerus Piceance, LLC (Caerus) to provide documentation of recent investigation and sampling support services conducted at the Love Ranch 8 Off-Location Flowline Release Site (the Site) located in Rio Blanco County, Colorado (**Figure 1**).

1.1 BACKGROUND

Kleinfelder has been contracted by Caerus to perform surface water, groundwater, and soil sampling support services to provide necessary information to complete the Colorado Energy and Carbon Management Commission (ECMC) Form 27 for Caerus' upstream oil and gas production facilities located in the Piceance Basin. According to the approved ECMC Form 19 Spill/Release Report (Initial) (document #403391282) and approved Form 19 Spill/Release Report (Supplemental) (document # 403398312) provided to Kleinfelder by Caerus, Caerus identified the Love Ranch 8 Off-Location Flowline Release (the Site) by observing a sheen emanating on Piceance Creek along a known pipeline corridor on May 2, 2023.

1.2 INITIAL RESPONSE ACTIVITIES (MAY 2023 – JULY 2023)

Initial response activities completed at the site are detailed under the Form 27 Site Investigation and Remediation Workplan (Initial) (document #403479868).

1.3 SURFACE WATER MONITORING ACTIVITIES

Previous surface water monitoring and sampling activities are detailed under the Form 27 Site Investigation and Remediation Workplan (Initial) (document #403479868) and Form 27 Site Investigation and Remediation Workplan (Supplemental) (document #403615334) and subsequent attachments.

Caerus continued monthly surface water monitoring and sampling activities from January through March 2024. A summary of the surface water samples collected by Kleinfelder from January through March 2024 is included in **Table 1**. Laboratory analytical results for Site surface water samples are detailed in **Table 2**.

1.4 GROUNDWATER MONITORING ACTIVITIES

Caerus continued quarterly groundwater monitoring and sampling activities in March 2024, including:

- Sampling the five (5) existing piezometers, and
- Sampling the four (4) existing permanent monitoring wells.

Additional details on these activities are explained in Section 3 of this report. A summary of the groundwater samples collected by Kleinfelder in March 2024 is listed in **Table 3**. Laboratory analytical results for Site groundwater samples are detailed in **Table 4**.

2 SITE LOCATION, GEOLOGIC, AND HYDROGEOLOGIC SETTING

The Love Ranch 8 Off-Location Flowline Release Site (Site) is located in Rio Blanco County, Colorado (SWNW, Section 9, Township 2 South, Range 97 West) near the northeastern edge of the Piceance Basin, a large structural basin in the Uinta-Piceance geologic province of Colorado and Utah consisting of sandstones and siltstones, containing reserves of coal, natural gas, and oil shale. The Site location and topographical information are shown on **Figure 1**.

The main geologic units in this area (from youngest to oldest) are the Uinta formation, Green River Formation, Wasatch formation, Mesa Verde Group, and Mancos Shale. The Green River Formation is visible along the slopes and ridges on either side of the Piceance Creek valley. The Green River Formation is an Eocene lacustrine formation associated with lake deposits from Lake Uinta, which once covered large areas of northwestern Colorado, northeastern Utah, and southwestern Wyoming. The Green River Formation includes siltstones, sandstones, mudstones, and oil shale, as well as various lacustrine limestones, dolomites, and saline evaporites. The only significant North American deposit of the sodium bicarbonate (i.e., baking soda) mineral Nahcolite is located within Green River deposits. Nahcolite is mined in the region and processed at a facility in the Piceance Creek valley.

The Site is located in a wide, flat valley bottom in the vicinity of Piceance Creek, as shown on **Figure 1**. **Figure 2** shows the localized Site surficial geology, which consists of Quaternary (Holocene) Piney Creek Alluvium. The Piney Creek Alluvium generally consists of mildly calcareous unconsolidated silts, clays, and sands.

Piceance Creek flows from south to north in this valley toward its confluence with the White River, approximately 9 miles north of the Site. Piceance Creek is a meandering perennial stream. The Site is in a high altitude semi-arid region, and runoff is generally associated with snowmelt or summertime short-duration, high-intensity thunderstorms. Maximum flows in Piceance Creek typically occur during spring snowmelt runoff with peak flow commonly occurring in April to May of each year and the lowest flow in the fall, typically in October to November.

In addition to Piceance Creek, there is also a small irrigation ditch to the west of the creek in the valley near where the Site is located. The ditch is used by a local rancher for irrigation. The valley is irrigated to allow for cattle grazing.

Groundwater can be as shallow as a few feet below ground surface (bgs) in the central part of the valley near Piceance Creek. Groundwater depth varies by at least a few feet seasonally as evidenced by the changes in depth to groundwater between May and July as measured at the piezometers installed in at the Site in May 2023. The locations of the piezometers are shown on the groundwater potentiometric surface map for March 2024 (**Figure 3**). The groundwater flow direction is generally to the north-northwest in the vicinity of the site, generally similar to the Piceance Creek flow direction. Considering the shallow depth to groundwater, it may be in hydraulic connection with Piceance Creek, though there is currently insufficient site-specific data (e.g., flux study) to confirm whether Piceance Creek is a gaining or losing stream in the area of the Site or whether this could vary seasonally.

Four permanent groundwater monitoring wells (MW01 – MW04) were installed by Caerus in September 2023 as part of the Site investigation activities to provide additional data on the localized potentiometric surface, groundwater flow direction, groundwater gradient, and groundwater conditions surrounding the Site. The four permanent groundwater monitoring wells have been precisely surveyed and are shown on **Figure 3**.

3 FIELD ACTIVITIES

Surface water monitoring activities completed by Caerus beginning on May 2, 2023, and continuing through September 25, 2023, were previously described and reported under the Form 27 Site Investigation and Remediation Workplan (Initial) (document #403479868) and Form 27 Site Investigation and Remediation Workplan (Supplemental) (document #403615334) and subsequent attachments. Caerus contracted Kleinfelder to continue surface water monitoring activities on a monthly basis from January through March 2024. Caerus directed Kleinfelder to complete additional quarterly groundwater monitoring sampling at the Site in March 2024. Caerus initiated the field activities summarized in this section to monitor the release at the Site.

3.1 CONTINUED SURFACE WATER MONITORING – JANUARY THROUGH MARCH 2024

Caerus continued monthly surface water monitoring and sampling at six (6) defined points at the Site. The surface water samples up-gradient from the release are denoted with “UG” in the sample identification name. Surface water sample results down gradient from the release are denoted with “DG” in the sample identification name. Kleinfelder completed the surface water sampling as summarized below.

- Kleinfelder completed monthly surface water sampling on January 31, 2024, February 26, 2024, and March 27, 2024, at UG02, Point of Release (POR), DG14, DG13, DG12, and DG11 as depicted on **Figure 4**.
- Eighteen (18) total surface water samples were collected from the Locations depicted on **Figure 4** in January through March 2024.
- Laboratory analytical results for these surface water samples are detailed in **Table 2**.
- All surface water samples were submitted to Pace Analytical National Laboratory (Pace) for full ECMC Table 915-1 water parameters, plus 1-methylnaphthalene and 2-methylnaphthalene per the Conditions of Approval (COA) in the approved Form 27 Site Investigation and Remediation Workplan (Initial) (document #403479868).

3.2 CONTINUED GROUNDWATER MONITORING – MARCH 27, 2024

Caerus continued quarterly groundwater sampling from the five (5) previously installed piezometers and four (4) previously installed permanent monitoring wells at the Site. Kleinfelder completed the groundwater sampling as summarized below.

- Kleinfelder collected one groundwater sample from each permanent monitoring well (MW01-MW04) using a peristaltic pump and polyethylene tubing directly from the monitoring wells. Groundwater quality parameters were measured using a YSI Multi-parameter meter to characterize the groundwater conditions. Groundwater sampling parameters and notes for these permanent monitoring wells are depicted in **Appendix A**. The groundwater sample summary is detailed in **Table 3** and the laboratory analytical results of the groundwater samples are detailed in **Table 4**.
- Kleinfelder collected groundwater samples from the five (5) piezometers previously installed at the Site in May 2023 as depicted in **Figure 5**. One groundwater sample was collected from each piezometer using a peristaltic pump. Groundwater quality parameters were measured using a YSI Multi-parameter meter to characterize the groundwater conditions. Groundwater sampling parameters for these piezometers are depicted in **Appendix A**. The groundwater sample summary is detailed in **Table 3** and the laboratory analytical results of the groundwater samples are detailed in **Table 4**.
- Kleinfelder collected a total of nine (9) groundwater samples from the site on March 27, 2024. Laboratory analytical results for these groundwater samples are summarized in **Table 4**. The locations of these groundwater samples are depicted on **Figure 5**.

Kleinfelder used an EOS Arrow 100 Submeter Global Navigation Satellite System (GNSS) receiver to record latitude and longitude at each sample location and the sample locations are shown on **Figure 4** and **Figure 5**.

Surface water samples were collected via grab sampling directly from Piceance Creek using seven laboratory-supplied sample bottles. All samples were immediately placed on ice in a cooler. Standard chain-of-custody (COC) procedures were used during sampling and transportation to Pace in Mount Juliet, Tennessee (via FEDEX). The surface water samples were analyzed for full ECMC Table 915-1 analytes as well as 1-methylnaphthalene and 2-methylnaphthalene.

Groundwater samples were collected via a peristaltic pump and polyethylene tubing directly from the piezometer and permanent monitoring wells and placed directly into the seven laboratory-supplied sample bottles. All samples were immediately placed on ice in a cooler. Standard COC procedures were used during sampling and transportation to Pace in Mount Juliet, Tennessee (via FEDEX). The groundwater samples were analyzed for full ECMC Table 915-1 analytes and 1-methylnaphthalene and 2-methylnaphthalene.

4 RESULTS

All laboratory analytical results were compared to ECMC Table 915-1 cleanup concentrations for surface water and groundwater. 1-methylnaphthalene and 2-methylnaphthalene laboratory analytical results were compared to the narrative groundwater quality standards listed in the COA in the approved Form 27 Site Investigation and Remediation Workplan (Initial) (document #403479868). Laboratory Analytical Reports from Pace are provided in **Appendix B**.

4.1 SURFACE WATER

All surface water samples are summarized in **Table 1**. Laboratory analytical results for the surface water samples are presented in **Table 2**. The surface water sample locations are depicted on **Figure 4**. Total dissolved solids (TDS) and chloride were detected at similar concentrations in the upstream and downstream surface water samples. Sulfate was detected above ECMC Table 915-1 concentrations in all surface water sample results, excluding the February 26, 2024, sample result collected from the upgradient sample location [20240226-XTWP-LR8-(ST-PC-UG02)]. The January 31, 2024, sample result collected from the POR [20240131-XTWP-(LR8-ST-PC-POR)] indicated exceedances for sulfate and benzene.

4.2 GROUNDWATER

All groundwater samples are summarized in **Table 3**. Laboratory analytical results for the groundwater samples are presented in **Table 4**. The groundwater sample locations are depicted on **Figure 5**. Groundwater sampling parameters for the permanent monitoring wells and piezometers are depicted in **Appendix A**. Excluding sulfate, all March 27, 2024, groundwater samples were either non-detect results or were below cleanup concentrations for ECMC Table 915-1. Sulfate was detected above ECMC Table 915-1 cleanup concentrations in all groundwater sample results.

5 SUMMARY AND RECOMMENDATIONS

5.1 SUMMARY

Below is a summary of the findings and conclusions from the ongoing monitoring activities at the Site from January through March 2024.

- Sulfate was detected above ECMC Table 915-1 cleanup concentrations in all surface water and groundwater sample results excluding the February 26, 2024, surface water sample result collected from the upgradient sample location [20240226-XTWP-LR8-ST-PC-UG02]].
- The January 31, 2024, POR [20240131-XTWP-(LR8-ST-PC-POR)] surface water sample exceeded ECMC Table 915-1 cleanup concentrations for sulfate and benzene.

5.2 RECOMMENDATIONS

Based on the findings presented herein, Kleinfelder recommends Caerus continue monthly surface water monitoring and sampling at the six (6) points previously sampled at the Site. Kleinfelder recommends Caerus continue quarterly groundwater monitoring and sampling of the five (5) piezometers and four (4) monitoring wells previously sampled at the Site.

6 LIMITATIONS

Kleinfelder offers various levels of investigative and engineering services to suit the varying needs of different clients. It should be recognized that definition and evaluation of geologic and environmental conditions are a difficult and inexact science. Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the subsurface conditions present due to the limitations of data from field studies. Although risk can never be eliminated, more detailed and extensive studies yield more information, which may help understand and manage the level of risk. Since detailed study and analysis involves greater expense, our clients participate in determining levels of service that provide adequate information for their purposes at acceptable levels of risk. More extensive studies, including subsurface studies or field tests, should be performed to reduce uncertainties. Acceptance of this report will indicate that Caerus has reviewed the document and determined that it does not need or want a greater level of service than provided.

During the course of the performance of Kleinfelder's services, hazardous materials may have been discovered. Kleinfelder assumes no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury that results from pre-existing hazardous materials being encountered or present on the project site, or from the discovery of such hazardous materials. Nothing contained in this report should be construed or interpreted as requiring Kleinfelder to assume the status of an owner, operator, or generator, or person who arranges for disposal, transport, storage, or treatment of hazardous materials within the meaning of any governmental statute, regulation, or order. Caerus is solely responsible for directing notification of all governmental agencies, and the public at large, of the existence, release, treatment, or disposal of any hazardous materials observed at the project site, either before or during performance of Kleinfelder's services. Caerus is responsible for directing all arrangements to lawfully store, treat, recycle, dispose, or otherwise handle hazardous materials, including cuttings and samples resulting from Kleinfelder's services.

TABLES



TABLE 1 - SURFACE WATER SAMPLE SUMMARY
CAERUS PICEANCE, LLC
SITE INVESTIGATION REPORT
REMEDIATION PROJECT NUMBER: 31518
LOVE RANCH 8 OFF-LOCATION FLOWLINE RELEASE
RIO BLANCO COUNTY, COLORADO

| Sample ID | Sample Matrix | Latitude | Longitude | PID Reading (PPM) | Hydrocarbon Odor Detected (Y/N) | Soil Staining or Surface Sheen Observed (Y/N) | Objective | Comments |
|--------------------------------|---------------|-----------|-------------|-------------------|---------------------------------|---|---------------------------|-----------------------------------|
| 20240131-XTWP-(LR8-ST-PC-UG02) | Surface Water | 39.890997 | -108.292920 | NM | N | N | Surface water monitoring. | None |
| 20240131-XTWP-(LR8-ST-PC-POR) | Surface Water | 39.891282 | -108.292728 | NM | Y | N | Surface water monitoring. | None |
| 20240131-XTWP-(LR8-ST-PC-DG14) | Surface Water | 39.891345 | -108.292819 | NM | N | N | Surface water monitoring. | None |
| 20240131-XTWP-(LR8-ST-PC-DG13) | Surface Water | 39.891421 | -108.292880 | NM | N | N | Surface water monitoring. | None |
| 20240131-XTWP-(LR8-ST-PC-DG12) | Surface Water | 39.891864 | -108.293013 | NM | N | N | Surface water monitoring. | None |
| 20240131-XTWP-(LR8-ST-PC-DG11) | Surface Water | 39.892314 | -108.292833 | NM | N | N | Surface water monitoring. | None |
| 20240226-XTWP-(LR8-ST-PC-UG02) | Surface Water | 39.890997 | -108.292920 | NM | N | N | Surface water monitoring. | None |
| 20240226-XTWP-(LR8-ST-PC-POR) | Surface Water | 39.891282 | -108.292728 | NM | N | N | Surface water monitoring. | None |
| 20240226-XTWP-(LR8-ST-PC-DG14) | Surface Water | 39.891345 | -108.292819 | NM | N | N | Surface water monitoring. | None |
| 20240226-XTWP-(LR8-ST-PC-DG13) | Surface Water | 39.891421 | -108.292880 | NM | N | N | Surface water monitoring. | None |
| 20240226-XTWP-(LR8-ST-PC-DG12) | Surface Water | 39.891864 | -108.293013 | NM | N | N | Surface water monitoring. | None |
| 20240226-XTWP-(LR8-ST-PC-DG11) | Surface Water | 39.892314 | -108.292833 | NM | N | N | Surface water monitoring. | None |
| 20240327-XTWP-(LR8-ST-PC-UG02) | Surface Water | 39.890997 | -108.292920 | NM | N | N | Surface water monitoring. | None |
| 20240327-XTWP-(LR8-ST-PC-POR) | Surface Water | 39.891282 | -108.292728 | NM | Y | N | Surface water monitoring. | Slight hydrocarbon scent observed |
| 20240327-XTWP-(LR8-ST-PC-DG14) | Surface Water | 39.891345 | -108.292819 | NM | Y | N | Surface water monitoring. | Slight hydrocarbon scent observed |
| 20240327-XTWP-(LR8-ST-PC-DG13) | Surface Water | 39.891421 | -108.292880 | NM | N | N | Surface water monitoring. | None |
| 20240327-XTWP-(LR8-ST-PC-DG12) | Surface Water | 39.891864 | -108.293013 | NM | N | N | Surface water monitoring. | None |
| 20240327-XTWP-(LR8-ST-PC-DG11) | Surface Water | 39.892314 | -108.292833 | NM | N | N | Surface water monitoring. | None |

NOTES:

DG = Down-Gradient

POR = Point of Release

PID = Photo-ionization Detector

ST = STREAM

NM = Not Measured

PC = Piceance Creek

PPM = Parts per million

UG = Up-Gradient



TABLE 2 - SURFACE WATER ANALYTICAL RESULTS TABLE
XTWP

| Analyte | | | Benzene | Toluene | Ethylbenzene | Total Xylenes | Naphthalene | 1,2,4-TMB | 1,3,5-TMB | TDS | Chloride | Sulfate | 1-Methylnaphthalene | 2-Methylnaphthalene |
|--------------------------------|-------------|-------------|-----------|-----------|--------------|---------------|-------------|-----------|-----------|------|----------|---------|---------------------|---------------------|
| 915-1 WATER | | | 0.005 | 1 | 0.7 | 10 | 0.14 | 0.067 | 0.067 | | 250 | 250 | 0.0011 | 0.0036 |
| Units | | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| Sample Name | Sample Type | Sample Date | | | | | | | | | | | | |
| 20240131-XTWP-(LR8-ST-PC-DG11) | Stream | 01/31/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 950 | 15.6 | 350 | < 0.000250 | < 0.000250 J4 |
| 20240131-XTWP-(LR8-ST-PC-DG12) | Stream | 01/31/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 900 | 15.6 | 350 | < 0.000250 | < 0.000250 J4 |
| 20240131-XTWP-(LR8-ST-PC-DG13) | Stream | 01/31/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 940 | 15.8 | 349 | < 0.000250 | < 0.000250 J4 |
| 20240131-XTWP-(LR8-ST-PC-DG14) | Stream | 01/31/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 924 | 15.4 | 350 | < 0.000250 | < 0.000250 J4 |
| 20240131-XTWP-(LR8-ST-PC-POR) | Stream | 01/31/2024 | 0.0271 | 0.0479 | 0.00372 | 0.0714 | < 0.00500 | 0.00684 | 0.00638 | 928 | 15.9 | 347 | < 0.000250 | 0.000284 |
| 20240131-XTWP-(LR8-ST-PC-UG02) | Stream | 01/31/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 942 | 15.5 | 346 | < 0.000250 | < 0.000250 J4 |
| 20240226-XTWP-(LR8-ST-PC-DG11) | Stream | 02/26/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 938 | 15.1 | 338 | < 0.000250 | < 0.000250 |
| 20240226-XTWP-(LR8-ST-PC-DG12) | Stream | 02/26/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 952 | 15.2 | 345 | < 0.000250 | < 0.000250 |
| 20240226-XTWP-(LR8-ST-PC-DG13) | Stream | 02/26/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 940 | 15.2 | 334 | < 0.000250 | < 0.000250 |
| 20240226-XTWP-(LR8-ST-PC-DG14) | Stream | 02/26/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 938 | 15.1 | 337 | < 0.000250 | < 0.000250 |
| 20240226-XTWP-(LR8-ST-PC-POR) | Stream | 02/26/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 912 | 14.9 | 341 | < 0.000250 | < 0.000250 |
| 20240226-XTWP-(LR8-ST-PC-UG02) | Stream | 02/26/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 858 | 4.23 | < 5.00 | < 0.000250 | < 0.000250 |
| 20240327-XTWP-(LR8-ST-PC-DG11) | Stream | 03/27/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 920 | 15.4 | 342 | < 0.000250 | < 0.000250 |
| 20240327-XTWP-(LR8-ST-PC-DG12) | Stream | 03/27/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 910 | 15.0 | 336 | < 0.000250 | < 0.000250 |
| 20240327-XTWP-(LR8-ST-PC-DG13) | Stream | 03/27/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 918 | 14.8 | 337 | < 0.000250 | < 0.000250 |
| 20240327-XTWP-(LR8-ST-PC-DG14) | Stream | 03/27/2024 | 0.00109 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 950 | 14.7 | 339 | < 0.000250 | < 0.000250 |
| 20240327-XTWP-(LR8-ST-PC-POR) | Stream | 03/27/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 876 | 14.7 | 342 | < 0.000250 | < 0.000250 |
| 20240327-XTWP-(LR8-ST-PC-UG02) | Stream | 03/27/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 840 | 14.8 | 346 | < 0.000250 | < 0.000250 |

Notes:

Bold with blue highlight: Exceeds Water Standards
"<" (as in, less than laboratory reporting detection limit)



TABLE 3 - GROUNDWATER SAMPLE SUMMARY
CAERUS PICEANCE, LLC
SITE INVESTIGATION REPORT
REMEDATION PROJECT NUMBER: 31518
LOVE RANCH 8 OFF-LOCATION FLOWLINE RELEASE
RIO BLANCO COUNTY, COLORADO

| Sample ID | Sample Matrix | Latitude | Longitude | PID Reading (PPM) | Hydrocarbon Odor Detected (Y/N) | Soil Staining or Surface Sheen Observed (Y/N) | Objective | Comments |
|--------------------------|---------------|-------------|--------------|-------------------|---------------------------------|---|------------------------|--|
| 20240327-XTWP-(LR8-MW01) | Groundwater | 39.89098539 | -108.2922522 | NM | N | N | Groundwater monitoring | None |
| 20240327-XTWP-(LR8-MW02) | Groundwater | 39.89139538 | -108.2926107 | NM | N | N | Groundwater monitoring | None |
| 20240327-XTWP-(LR8-MW03) | Groundwater | 39.89193125 | -108.2930366 | NM | N | N | Groundwater monitoring | A small amount of unknown orange colored liquid was observed in the groundwater. The substance had no observable odor. |
| 20240327-XTWP-(LR8-MW04) | Groundwater | 39.89115013 | -108.2926349 | NM | N | N | Groundwater monitoring | A small amount of unknown orange colored liquid was observed in the groundwater. The substance had no observable odor. |
| 20240327-XTWP-(LR8-PZ01) | Groundwater | 39.89084353 | -108.2931486 | NM | N | N | Groundwater monitoring | None |
| 20240327-XTWP-(LR8-PZ02) | Groundwater | 39.89125111 | -108.2932312 | NM | N | N | Groundwater monitoring | None |
| 20240327-XTWP-(LR8-PZ03) | Groundwater | 39.89182711 | -108.2927436 | NM | N | N | Groundwater monitoring | None |
| 20240327-XTWP-(LR8-PZ04) | Groundwater | 39.89190264 | -108.2932815 | NM | N | N | Groundwater monitoring | A small amount of unknown orange colored liquid was observed in the groundwater. The substance had no observable odor. |
| 20240327-XTWP-(LR8-PZ05) | Groundwater | 39.89226931 | -108.2924587 | NM | N | N | Groundwater monitoring | None |

NOTES:

DG = Down-Gradient

NM = Not Measured

PC = Piceance Creek

PID = Photo-ionization Detector

POR = Point of Release

PPM = Parts per million

ST = STREAM

UG = Up-Gradient



TABLE 4 - GROUNDWATER ANALYTICAL RESULTS TABLE
XTWP

| Analyte 915-1 WATER Units | | | Benzene | Toluene | Ethylbenzene | Total Xylenes | Naphthalene | 1,2,4-TMB | 1,3,5-TMB | TDS | Chloride | Sulfate | 1-Methylnaphthalene | 2-Methylnaphthalene |
|---------------------------------|-----------------|-------------|-----------|-----------|--------------|---------------|-------------|-----------|-----------|------|----------|---------|---------------------|---------------------|
| | | | 0.005 | 1 | 0.7 | 10 | 0.14 | 0.067 | 0.067 | | 250 | 250 | 0.0011 | 0.0036 |
| | | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| Sample Name | Sample Type | Sample Date | | | | | | | | | | | | |
| 20240327-XTWP-(LR8-MW01) | Monitoring Well | 03/27/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 1400 | 31.9 | 363 | < 0.000250 | < 0.000250 |
| 20240327-XTWP-(LR8-MW02) | Monitoring Well | 03/27/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 2530 | 192 | 1070 | < 0.000250 | < 0.000250 |
| 20240327-XTWP-(LR8-MW03) | Monitoring Well | 03/27/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 1490 | 75.1 | 717 | < 0.000250 | < 0.000250 |
| 20240327-XTWP-(LR8-MW04) | Monitoring Well | 03/27/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 1190 | 30.5 | 458 | < 0.000250 | < 0.000250 |
| 20240327-XTWP-(LR8-PZ01) | Monitoring Well | 03/27/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 1830 | 43.5 | 767 | < 0.000250 | < 0.000250 |
| 20240327-XTWP-(LR8-PZ02) | Monitoring Well | 03/27/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 1440 | 37.8 | 609 | < 0.000250 | < 0.000250 |
| 20240327-XTWP-(LR8-PZ03) | Monitoring Well | 03/27/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 1830 | 93.0 | 754 | < 0.000250 | < 0.000250 |
| 20240327-XTWP-(LR8-PZ04) | Monitoring Well | 03/27/2024 | 0.00140 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 1750 | 70.0 | 642 | < 0.000250 | < 0.000250 |
| 20240327-XTWP-(LR8-PZ05) | Monitoring Well | 03/27/2024 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00500 | < 0.00100 | < 0.00100 | 1640 | 95.0 | 657 | < 0.000250 | < 0.000250 |

Notes:

Bold with blue highlight: Exceeds Water Standards
" < " (as in, less than laboratory reporting detection limit)

FIGURES

Date: 7/27/2023 User: ALeonard Path: \\azgrjsstorp03\GIS_Projects\Client\Caerus_OXY124000859_LoveRanch\24000859_LoveRanch.aprx



LEGEND

✗ Love Ranch 8 Off-Location Flowline Point of Release (POR)

0 1,000 2,000 4,000

Feet

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| | |
|-------------|--------------------|
| PROJECT NO. | 24000859 |
| CREATED: | 7/27/2023 |
| CREATED BY: | ALeonard |
| CHECKED BY: | JVeith |
| FILE NAME: | F1_LoveRanch8_Topo |

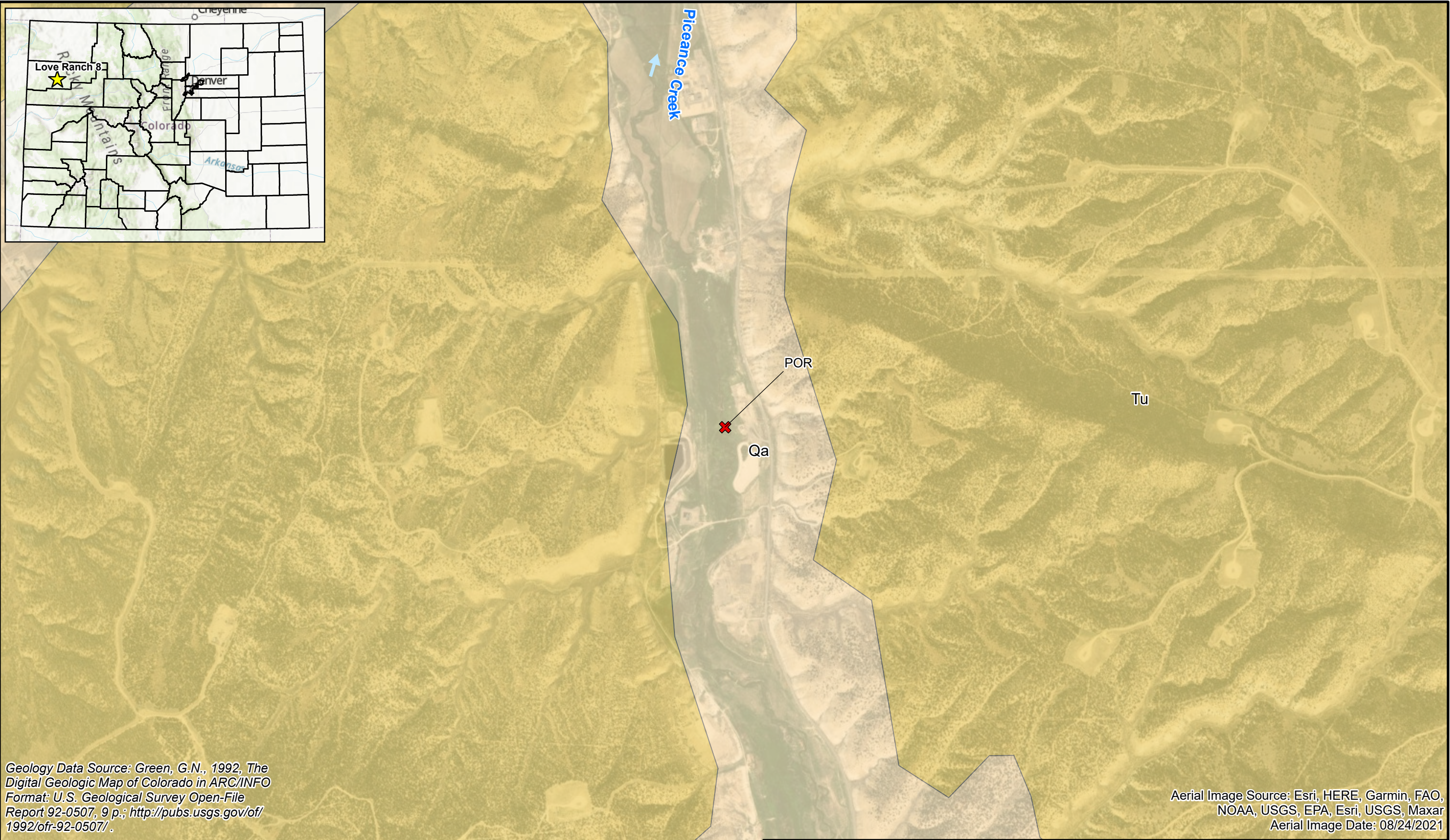
Site Location / Topographic Map

Caerus Piceance, LLC
Love Ranch 8 Off-Location Flowline
SWNW Sec. 9 T2S R97W
Rio Blanco County, Colorado

FIGURE

1

Date: 7/27/2023 User: ALeonard Path: \\azrgisstor03\GIS_Projects\Client\Caerus_OXY\24000859_LoveRanch\24000859_LoveRanch.aprx



Geology Data Source: Green, G.N., 1992, *The Digital Geologic Map of Colorado in ARC/INFO Format*: U.S. Geological Survey Open-File Report 92-0507, 9 p.; <http://pubs.usgs.gov/of/1992/ofr-92-0507/>.

Aerial Image Source: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, Esri, USGS, Maxar
Aerial Image Date: 08/24/2021

LEGEND

- ✗ Love Ranch 8 Off-Location Flowline Point of Release (POR)
- Tu: Uinta Formation, Sandstone and siltstone; in Piceance basin. Formerly Evacuation Creek Member of Green River Fm
- Qa: Includes Piney Creek Alluvium and younger deposits

0 1,000 2,000 4,000
Feet

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| | | |
|----------------------------------|---|-------------------------------|
| PROJECT NO. 24000859 | Geology Map | FIGURE 2 |
| CREATED: 7/27/2023 | | |
| CREATED BY: ALeonard | | |
| CHECKED BY: KMaestas | | |
| FILE NAME: F2_LoveRanch8_Geology | Caerus Piceance, LLC Love Ranch 8 Off-Location Flowline SWNW Sec. 9 T2S R97W Rio Blanco County, Colorado | |

Date: 4/23/2024 User: ALeonard Path: \\azgissstorp03\GIS_Projects\Client\Caeus_OXY\24000859_LoveRanch\24000859_LoveRanch.aprx



Aerial Image Source: Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, USFWS, Maxar, Microsoft, Esri, USGS

LEGEND

✗ Love Ranch 8 Off-Location Flowline Point of Release (POR)

➡ Interpreted Groundwater Flow Direction

Potentiometric Surface Elevation Contour (ft AMSL)
Contour Interval = 0.10 Feet
Dashed Where Inferred

0 50 100 200
Feet

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| | |
|-------------|----------------------------|
| PROJECT NO. | 24000859 |
| CREATED: | 4/23/2024 |
| CREATED BY: | ALeonard |
| CHECKED BY: | JVeith |
| FILE NAME: | F3E_LoveRanch8_GW_03272024 |

Potentiometric Groundwater Map
03/27/2024


Caeus Piceance, LLC
Love Ranch 8 Off-Location Flowline
SWNW Sec. 9 T2S R97W
Rio Blanco County, Colorado

FIGURE
3



| | | | | |
|--|-------------|-----------------------------|---|-------------------------------|
|  <p>www.kleinfelder.com</p> | PROJECT NO. | 24000859 | Surface Water Sample Locations | FIGURE 4 |
| | DRAWN: | 2/7/2024 | | |
| | DRAWN BY: | T. Schmalz | Caerus Piceance, LLC Love Ranch 8 Off-Location Flowline SWNW Sec. 9 T2S R97W Rio Blanco County, Colorado | |
| | CHECKED BY: | J. Veith | | |
| | FILE NAME: | Love Ranch 8 Sample Map.pub | | |



| | | | | |
|---|-------------|-----------------------------|---|--------------------------------|
|  <p>KLEINFELDER <i>Bright People. Right Solutions.</i></p> <p>www.kleinfelder.com</p> | PROJECT NO. | 24000859 | Groundwater Sample Locations | <div>FIGURE</div> <div>5</div> |
| | DRAWN: | 2/7/2024 | | |
| | DRAWN BY: | T. Schmalz | Caerus Piceance, LLC Love Ranch 8 Off-Location Flowline SWNW Sec. 9 T2S R97W Rio Blanco County, Colorado | |
| | CHECKED BY: | J. Veith | | |
| | FILE NAME: | Love Ranch 8 Sample Map.pub | | |

APPENDIX A
GROUNDWATER SAMPLE NOTES AND PARAMETERS

LOW-FLOW SAMPLING FIELD DATA SHEET

20240327-XTWP-(LR8-MW01)

| | | |
|------------------------------|-------------------------------------|--|
| Project: Love Ranch 8 | Project #: 24004611.001A | Task #: 1 |
| Date: 03/27/2024 | Sampler: J. Veith/T. Schmalz | Weather: clear, sunny, 10-40°F |
| Well ID: MW01 | Sample Time: 16:59 | DTB: 26.58 ft DTW: 8.40 ft |

| Time within 3-5 min | Water Table Elev. Within 0.3 feet | Flow 100-25- mL/min | pH +/- 0.1 units | Conductivity within 3% µS/cm | Turbidity (NTUs) within 10% for values >5 | DO within 10% % | Temperature within 3% °C | ORP +OR-MV mV |
|-------------------------------|---|-------------------------------|----------------------------|---|---|------------------------------|---------------------------------------|----------------------------|
| 16:34 | - | - | 7.52 | 1999 | N/A | 9.4 | 9.1 | 49.0 |
| 16:39 | - | - | 7.48 | 1992 | N/A | 2.2 | 9.9 | 43.4 |
| 16:44 | - | - | 7.49 | 1979 | N/A | 2.8 | 9.9 | 41.1 |
| 16:49 | - | - | 7.49 | 1979 | N/A | 5.6 | 10.0 | 27.2 |
| 16:54 | - | - | 7.50 | 1987 | N/A | 4.1 | 10.0 | 12.1 |
| 16:59 | - | - | 7.50 | 1983 | N/A | 3.1 | 9.9 | -3.4 |

start pump
@16:34

Glassware: 1x1L Poly (unpreserved); 1x250 mL poly (unpreserved); 3x40 mL VOAs w/ ACL; 2x40 mL VOAs (unpreserved) 7 pc
Approximate Purge Volume: ~ 5 gal
Notes: N/A

LOW-FLOW SAMPLING FIELD DATA SHEET

20240327-XTWP-(LR8-MW02)

| | | |
|------------------------------|-------------------------------------|--|
| Project: Love Ranch 8 | Project #: 24004611.001A | Task #: 1 |
| Date: 03/27/2024 | Sampler: J. Veith/T. Schmalz | Weather: clear, sunny, 10-40°F |
| Well ID: MW02 | Sample Time: 16:19 | DTB: 25.25 ft DTW: 8.12 ft |

| Time within 3-5 min | Water Table Elev. Within 0.3 feet | Flow 100-25- mL/min | pH +/- 0.1 units | Conductivity within 3% µS/cm | Turbidity (NTUs) within 10% for values >5 | DO within 10% % | Temperature within 3% °C | ORP +OR-MV mV |
|-------------------------------|---|-------------------------------|----------------------------|---|---|------------------------------|---------------------------------------|----------------------------|
| 15:54 | - | - | 7.43 | 2900 | N/A | 21.0 | 9.2 | 21.2 |
| 15:59 | - | - | 7.45 | 3010 | N/A | 12.5 | 9.4 | 22.6 |
| 16:04 | - | - | 7.39 | 3206 | N/A | 4.3 | 9.7 | 23.7 |
| 16:09 | - | - | 7.40 | 3227 | N/A | 3.2 | 9.7 | 21.7 |
| 16:14 | - | - | 7.39 | 3253 | N/A | 2.4 | 9.8 | 21.4 |
| 16:19 | - | - | 7.39 | 3262 | N/A | 2.3 | 9.8 | 21.6 |

start pump
@15:54

Glassware: 1x1L Poly (unpreserved); 1x250 mL poly (unpreserved); 3x40 mL VOAs w/ ACL; 2x40 mL VOAs (unpreserved) 7 pc

Approximate Purge Volume: ~ 5 gal

Notes: N/A.

LOW-FLOW SAMPLING FIELD DATA SHEET

20240327-XTWP-(LR8-MW03)

| | | |
|------------------------------|-------------------------------------|--|
| Project: Love Ranch 8 | Project #: 24004611.001A | Task #: 1 |
| Date: 03/27/2024 | Sampler: J. Veith/T. Schmalz | Weather: clear, sunny, 10-40°F |
| Well ID: MW03 | Sample Time: 12:52 | DTB: 24.20 ft DTW: 7.33 ft |

start pump
@12:27

| Time within 3-5 min | Water Table Elev. Within 0.3 feet | Flow 100-25- mL/min | pH +/- 0.1 units | Conductivity within 3% µS/cm | Turbidity (NTUs) within 10% for values >5 | DO within 10% % | Temperature within 3% °C | ORP +OR-MV mV |
|-------------------------------|---|-------------------------------|----------------------------|---|---|------------------------------|---------------------------------------|----------------------------|
| 12:27 | - | - | 7.55 | 2373 | N/A | 9.1 | 9.4 | -100.1 |
| 12:32 | - | - | 7.48 | 2358 | N/A | 6.3 | 9.5 | -108.0 |
| 12:37 | - | - | 7.52 | 2356 | N/A | 5.3 | 9.6 | -111.6 |
| 12:42 | - | - | 7.52 | 2357 | N/A | 4.6 | 9.5 | -115.7 |
| 12:47 | - | - | 7.52 | 2355 | N/A | 4.1 | 9.6 | -118.3 |
| 12:52 | - | - | 7.52 | 2357 | N/A | 3.7 | 9.6 | -122.0 |

Glassware: 1x1L Poly (unpreserved); 1x250 mL poly (unpreserved); 3x40 mL VOAs w/ ACL; 2x40 mL VOAs (unpreserved) 7 pc

Approximate Purge Volume: ~ 5 gal

Notes: Unknown orange material observed in the first gallon of purge water.

LOW-FLOW SAMPLING FIELD DATA SHEET

20240327-XTWP-(LR8-MW04)

| | | |
|------------------------------|-------------------------------------|--|
| Project: Love Ranch 8 | Project #: 24004611.001A | Task #: 1 |
| Date: 03/27/2024 | Sampler: J. Veith/T. Schmalz | Weather: clear, sunny, 10-40°F |
| Well ID: MW04 | Sample Time: 12:01 | DTB: 26.85 ft DTW: 7.80 ft |

| Time within 3-5 min | Water Table Elev. Within 0.3 feet | Flow 100-25- mL/min | pH +/- 0.1 units | Conductivity within 3% µS/cm | Turbidity (NTUs) within 10% for values >5 | DO within 10% % | Temperature within 3% °C | ORP +OR-MV mV |
|-------------------------------|---|-------------------------------|----------------------------|---|---|------------------------------|---------------------------------------|----------------------------|
| 11:36 | - | - | 7.45 | 1811 | N/A | 10.2 | 7.6 | -55.0 |
| 11:41 | - | - | 7.38 | 1850 | N/A | 5.5 | 7.7 | -71.4 |
| 11:46 | - | - | 7.44 | 1840 | N/A | 10.8 | 7.7 | -60.3 |
| 11:51 | - | - | 7.43 | 1841 | N/A | 10.3 | 7.8 | -59.9 |
| 11:56 | - | - | 7.43 | 1834 | N/A | 9.5 | 7.9 | -58.2 |
| 12:01 | - | - | 7.42 | 1841 | N/A | 9.2 | 7.9 | -48.9 |

start pump
@11:36

Glassware: 1x1L Poly (unpreserved); 1x250 mL poly (unpreserved); 3x40 mL VOAs w/ ACL; 2x40 mL VOAs (unpreserved) 7 pc

Approximate Purge Volume: ~ 5 gal

Notes: Unknown orange color material observed in first gallon of purge water; no hydrocarbon scent observed; orange material also observed in sample bottles.

LOW-FLOW SAMPLING FIELD DATA SHEET

20240327-XTWP-(LR8-PZ01)

| | | |
|------------------------------|-------------------------------------|--|
| Project: Love Ranch 8 | Project #: 24000859.001A | Task #: 1 |
| Date: 03/27/2024 | Sampler: J. Veith/T. Schmalz | Weather: clear, sunny, 10-40°F |
| Well ID: PZ01 | Sample Time: 11:08 | DTB: 18.05 ft DTW: 7.63 ft |

| Time within 3-5 min | Water Table Elev. Within 0.3 feet | Flow 100-25- mL/min | pH +/- 0.1 units | Conductivity within 3% µS/cm | Turbidity (NTUs) within 10% for values >5 | DO within 10% % | Temperature within 3% °C | ORP +OR-MV mV |
|------------------------|---|------------------------|---------------------|------------------------------------|--|-----------------------|--------------------------------|---------------------|
| 10:38 | - | - | 7.47 | 2427 | N/A | 5.4 | 6.8 | -61.3 |
| 10:43 | - | - | 7.43 | 2454 | N/A | 3.9 | 6.8 | -74.6 |
| 10:48 | - | - | 7.42 | 2458 | N/A | 5.2 | 6.8 | -84.2 |
| 10:53 | - | - | 7.42 | 2456 | N/A | 7.8 | 6.7 | -89.7 |
| 10:58 | - | - | 7.41 | 2461 | N/A | 10.1 | 6.7 | -93.1 |
| 11:03 | - | - | 7.42 | 2489 | N/A | 10.4 | 6.8 | -95.8 |
| 11:08 | - | - | 7.42 | 2502 | N/A | 10.3 | 6.8 | -98.4 |

start pump
@10:38

Glassware: 1x1L Poly (unpreserved); 1x250 mL poly (unpreserved); 3x40 mL VOAs w/ ACL; 2x40 mL VOAs (unpreserved) 7 pc

Approximate Purge Volume: ~ 6 gal

Notes: Cloudy water.

LOW-FLOW SAMPLING FIELD DATA SHEET

20240327-XTWP-(LR8-PZ02)

| | | |
|------------------------------|-------------------------------------|--|
| Project: Love Ranch 8 | Project #: 24004611.001A | Task #: 1 |
| Date: 03/27/2024 | Sampler: J. Veith/T. Schmalz | Weather: clear, sunny, 10-40°F |
| Well ID: PZ02 | Sample Time: 10:00 | DTB: 18.72 ft DTW: 6.73 ft |

| Time within 3-5 min | Water Table Elev. Within 0.3 feet | Flow 100-25- mL/min | pH +/- 0.1 units | Conductivity within 3% µS/cm | Turbidity (NTUs) within 10% for values >5 | DO within 10% % | Temperature within 3% °C | ORP +OR-MV mV |
|-------------------------------|---|-------------------------------|----------------------------|---|---|------------------------------|---------------------------------------|----------------------------|
| 9:35 | - | - | 7.34 | 2288 | N/A | 4.1 | 7.5 | -2.4 |
| 9:40 | - | - | 7.34 | 2283 | N/A | 2.6 | 8.0 | -32.5 |
| 9:45 | - | - | 7.36 | 2278 | N/A | 1.9 | 8.1 | -43.7 |
| 9:50 | - | - | 7.36 | 2270 | N/A | 1.6 | 8.3 | -48.7 |
| 9:55 | - | - | 7.37 | 2262 | N/A | 1.6 | 8.3 | -51.9 |
| 10:00 | - | - | 7.37 | 2259 | N/A | 1.4 | 8.3 | -54.2 |

start pump
@9.35

Glassware: 1x1L Poly (unpreserved); 1x250 mL poly (unpreserved); 3x40 mL VOAs w/ ACL; 2x40 mL VOAs (unpreserved) 7 pc
Approximate Purge Volume: ~ 6 gal
Notes: N/A.

LOW-FLOW SAMPLING FIELD DATA SHEET

20240327-XTWP-(LR8-PZ03)

| | | |
|------------------------------|-------------------------------------|--|
| Project: Love Ranch 8 | Project #: 24004611.001A | Task #: 1 |
| Date: 03/27/2024 | Sampler: J. Veith/T. Schmalz | Weather: clear, sunny, 10-40°F |
| Well ID: PZ03 | Sample Time: 15:38 | DTB: 19.30 ft DTW: 7.51 ft |

| Time within 3-5 min | Water Table Elev. Within 0.3 feet | Flow 100-25- mL/min | pH +/- 0.1 units | Conductivity within 3% µS/cm | Turbidity (NTUs) within 10% for values >5 | DO within 10% % | Temperature within 3% °C | ORP +OR-MV mV |
|-------------------------------|---|-------------------------------|----------------------------|---|---|------------------------------|---------------------------------------|----------------------------|
| 15:13 | - | - | 7.45 | 2491 | N/A | 8.3 | 9.2 | 26.6 |
| 15:18 | - | - | 7.50 | 2494 | N/A | 1.4 | 9.3 | -39.3 |
| 15:23 | - | - | 7.51 | 2488 | N/A | 0.8 | 9.4 | -51.3 |
| 15:28 | - | - | 7.50 | 2494 | N/A | 0.7 | 9.4 | -54.3 |
| 15:33 | - | - | 7.51 | 2498 | N/A | 0.5 | 9.3 | -56.7 |
| 15:38 | - | - | 7.51 | 2500 | N/A | 0.4 | 9.3 | -62.1 |

start pump
@15:13

Glassware: 1x1L Poly (unpreserved); 1x250 mL poly (unpreserved); 3x40 mL VOAs w/ ACL; 2x40 mL VOAs (unpreserved) 7 pc

Approximate Purge Volume: ~ 5 gal

Notes: N/A.

LOW-FLOW SAMPLING FIELD DATA SHEET

20240327-XTWP-(LR8-PZ04)

| | | |
|------------------------------|-------------------------------------|--|
| Project: Love Ranch 8 | Project #: 24004611.001A | Task #: 1 |
| Date: 03/27/2024 | Sampler: J. Veith/T. Schmalz | Weather: clear, sunny, 10-40°F |
| Well ID: PZ04 | Sample Time: 13:48 | DTB: 19.16 ft DTW: 6.12 ft |

| Time within 3-5 min | Water Table Elev. Within 0.3 feet | Flow 100-25- mL/min | pH +/- 0.1 units | Conductivity within 3% µS/cm | Turbidity (NTUs) within 10% for values >5 | DO within 10% % | Temperature within 3% °C | ORP +OR-MV mV |
|-------------------------------|---|-------------------------------|----------------------------|---|---|------------------------------|---------------------------------------|----------------------------|
| 13:23 | - | - | 7.39 | 2461 | N/A | 8.4 | 7.4 | -91.8 |
| 13:28 | - | - | 7.42 | 2458 | N/A | 2.7 | 7.5 | -98.3 |
| 13:33 | - | - | 7.45 | 2459 | N/A | 1.7 | 7.3 | -106.8 |
| 13:38 | - | - | 7.45 | 2460 | N/A | 1.4 | 7.3 | -113.5 |
| 13:43 | - | - | 7.46 | 2463 | N/A | 1.2 | 7.2 | -117.6 |
| 13:48 | - | - | 7.47 | 2462 | N/A | 1.1 | 7.3 | -121.4 |

start pump
@13:23

Glassware: 1x1L Poly (unpreserved); 1x250 mL poly (unpreserved); 3x40 mL VOAs w/ ACL; 2x40 mL VOAs (unpreserved) 7 pc

Approximate Purge Volume: ~ 5 gal

Notes: Unknown orange material in first gallon of purge water.

LOW-FLOW SAMPLING FIELD DATA SHEET

20240327-XTWP-(LR8-PZ05)

| | | |
|------------------------------|-------------------------------------|--|
| Project: Love Ranch 8 | Project #: 24004611.001A | Task #: 1 |
| Date: 03/27/2024 | Sampler: J. Veith/T. Schmalz | Weather: clear, sunny, 10-40°F |
| Well ID: PZ05 | Sample Time: 14:52 | DTB: 19.25 ft DTW: 7.22 ft |

start pump
@14:27

| Time within 3-5 min | Water Table Elev. Within 0.3 feet | Flow 100-25- mL/min | pH +/- 0.1 units | Conductivity within 3% µS/cm | Turbidity (NTUs) within 10% for values >5 | DO within 10% % | Temperature within 3% °C | ORP +OR-MV mV |
|-------------------------------|---|-------------------------------|----------------------------|---|---|------------------------------|---------------------------------------|----------------------------|
| 14:27 | - | - | 7.49 | 2393 | N/A | 6.0 | 9.2 | 41.2 |
| 14:32 | - | - | 7.45 | 2412 | N/A | 2.2 | 9.2 | 15.2 |
| 14:37 | - | - | 7.47 | 2417 | N/A | 1.1 | 9.0 | -1.8 |
| 14:42 | - | - | 7.46 | 2432 | N/A | 0.9 | 9.2 | -7.3 |
| 14:47 | - | - | 7.47 | 2427 | N/A | 0.9 | 9.1 | -9.4 |
| 14:52 | - | - | 7.47 | 2432 | N/A | 0.7 | 9.2 | -11.4 |

Glassware: 1x1L Poly (unpreserved); 1x250 mL poly (unpreserved); 3x40 mL VOAs w/ ACL; 2x40 mL VOAs (unpreserved) 7 pc

Approximate Purge Volume: ~ 5 gal

Notes: N/A.

APPENDIX B
LABORATORY ANALYTICAL REPORTS

Caerus Oil and Gas

Sample Delivery Group: L1701357
Samples Received: 02/01/2024
Project Number:
Description: Love Ranch 8 Investigation
Site: LOVE RANCH 8
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

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¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

SAMPLE SUMMARY

20240131-XTWP-(LR8-ST-PC-UG02) L1701357-01 GW

Collected by
Tristan Schmalz

Collected date/time
01/31/24 09:56

Received date/time
02/01/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2220096 | 1 | 02/05/24 23:36 | 02/06/24 17:54 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2218635 | 1 | 02/03/24 14:52 | 02/03/24 14:52 | GEB | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2220256 | 5 | 02/06/24 00:24 | 02/06/24 00:24 | DLH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2219189 | 1 | 02/03/24 01:21 | 02/03/24 01:21 | JCP | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2219139 | 1 | 02/03/24 07:55 | 02/06/24 07:02 | AGW | Mt. Juliet, TN |

¹ Cp

² Tc

³ Ss

⁴ Cn

20240131-XTWP-(LR8-ST-PC-POR) L1701357-02 GW

Collected by
Tristan Schmalz

Collected date/time
01/31/24 10:22

Received date/time
02/01/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2220096 | 1 | 02/05/24 23:36 | 02/06/24 17:54 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2218635 | 1 | 02/03/24 15:04 | 02/03/24 15:04 | GEB | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2220256 | 5 | 02/06/24 00:40 | 02/06/24 00:40 | DLH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2220273 | 1 | 02/05/24 20:00 | 02/05/24 20:00 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2222205 | 1 | 02/07/24 22:22 | 02/08/24 04:17 | AGW | Mt. Juliet, TN |

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

20240131-XTWP-(LR8-ST-PC-DG14) L1701357-03 GW

Collected by
Tristan Schmalz

Collected date/time
01/31/24 10:26

Received date/time
02/01/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2220096 | 1 | 02/05/24 23:36 | 02/06/24 17:54 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2218635 | 1 | 02/03/24 15:17 | 02/03/24 15:17 | GEB | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2220256 | 5 | 02/06/24 00:56 | 02/06/24 00:56 | DLH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2219189 | 1 | 02/03/24 01:41 | 02/03/24 01:41 | JCP | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2219139 | 1 | 02/03/24 07:55 | 02/06/24 07:38 | AGW | Mt. Juliet, TN |

⁹ Sc

20240131-XTWP-(LR8-ST-PC-DG13) L1701357-04 GW

Collected by
Tristan Schmalz

Collected date/time
01/31/24 10:32

Received date/time
02/01/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2220096 | 1 | 02/05/24 23:36 | 02/06/24 17:54 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2218635 | 1 | 02/03/24 15:29 | 02/03/24 15:29 | GEB | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2220256 | 5 | 02/06/24 01:12 | 02/06/24 01:12 | DLH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2219189 | 1 | 02/03/24 02:02 | 02/03/24 02:02 | JCP | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2219139 | 1 | 02/03/24 07:55 | 02/06/24 07:56 | AGW | Mt. Juliet, TN |

20240131-XTWP-(LR8-ST-PC-DG12) L1701357-05 GW

Collected by
Tristan Schmalz

Collected date/time
01/31/24 10:40

Received date/time
02/01/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2220096 | 1 | 02/05/24 23:36 | 02/06/24 17:54 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2218635 | 1 | 02/03/24 15:42 | 02/03/24 15:42 | GEB | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2220256 | 5 | 02/06/24 01:28 | 02/06/24 01:28 | DLH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2219189 | 1 | 02/03/24 02:22 | 02/03/24 02:22 | JCP | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2219139 | 1 | 02/03/24 07:55 | 02/06/24 08:13 | AGW | Mt. Juliet, TN |

SAMPLE SUMMARY

20240131-XTWP-(LR8-ST-PC-DG11) L1701357-06 GW

Collected by
Tristan Schmalz

Collected date/time
01/31/24 10:53

Received date/time
02/01/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|--------------------------|-----------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2220096 | 1 | 02/05/24 23:36 | 02/06/24 17:54 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2218635 | 1 | 02/03/24 16:20 | 02/03/24 16:20 | GEB | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2220256 | 5 | 02/06/24 01:43 | 02/06/24 01:43 | DLH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2219189 | 1 | 02/03/24 02:42 | 02/03/24 02:42 | JCP | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2219139 | 1 | 02/03/24 07:55 | 02/06/24 08:31 | AGW | Mt. Juliet, TN |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

CASE NARRATIVE

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



Chris Ward
Project Manager

Report Revision History

Level II Report - Version 1: 02/09/24 13:35

Project Narrative

Report reissued 2/14 for updated sample ID



Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 942 | | 20.0 | 1 | 02/06/2024 17:54 | WG2220096 |

Wet Chemistry by Method 9056A

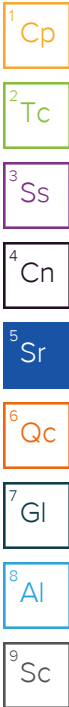
| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 15.5 | | 1.00 | 1 | 02/03/2024 14:52 | WG2218635 |
| Sulfate | 346 | | 25.0 | 5 | 02/06/2024 00:24 | WG2220256 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 02/03/2024 01:21 | WG2219189 |
| Toluene | ND | | 0.00100 | 1 | 02/03/2024 01:21 | WG2219189 |
| Ethylbenzene | ND | | 0.00100 | 1 | 02/03/2024 01:21 | WG2219189 |
| Xylenes, Total | ND | | 0.00300 | 1 | 02/03/2024 01:21 | WG2219189 |
| Naphthalene | ND | | 0.00500 | 1 | 02/03/2024 01:21 | WG2219189 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 02/03/2024 01:21 | WG2219189 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 02/03/2024 01:21 | WG2219189 |
| (S) Toluene-d8 | 99.4 | | 80.0-120 | | 02/03/2024 01:21 | WG2219189 |
| (S) 4-Bromofluorobenzene | 101 | | 77.0-126 | | 02/03/2024 01:21 | WG2219189 |
| (S) 1,2-Dichloroethane-d4 | 95.4 | | 70.0-130 | | 02/03/2024 01:21 | WG2219189 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|--------------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 02/06/2024 07:02 | WG2219139 |
| 2-Methylnaphthalene | ND | J4 | 0.000250 | 1 | 02/06/2024 07:02 | WG2219139 |
| (S) Nitrobenzene-d5 | 143 | | 31.0-160 | | 02/06/2024 07:02 | WG2219139 |
| (S) 2-Fluorobiphenyl | 138 | | 48.0-148 | | 02/06/2024 07:02 | WG2219139 |
| (S) p-Terphenyl-d14 | 136 | | 37.0-146 | | 02/06/2024 07:02 | WG2219139 |



Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 928 | | 20.0 | 1 | 02/06/2024 17:54 | WG2220096 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 15.9 | | 1.00 | 1 | 02/03/2024 15:04 | WG2218635 |
| Sulfate | 347 | | 25.0 | 5 | 02/06/2024 00:40 | WG2220256 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|---------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | 0.0271 | | 0.00100 | 1 | 02/05/2024 20:00 | WG2220273 |
| Toluene | 0.0479 | | 0.00100 | 1 | 02/05/2024 20:00 | WG2220273 |
| Ethylbenzene | 0.00372 | | 0.00100 | 1 | 02/05/2024 20:00 | WG2220273 |
| Xylenes, Total | 0.0714 | | 0.00300 | 1 | 02/05/2024 20:00 | WG2220273 |
| Naphthalene | ND | | 0.00500 | 1 | 02/05/2024 20:00 | WG2220273 |
| 1,2,4-Trimethylbenzene | 0.00684 | | 0.00100 | 1 | 02/05/2024 20:00 | WG2220273 |
| 1,3,5-Trimethylbenzene | 0.00638 | | 0.00100 | 1 | 02/05/2024 20:00 | WG2220273 |
| (S) Toluene-d8 | 98.9 | | 80.0-120 | | 02/05/2024 20:00 | WG2220273 |
| (S) 4-Bromofluorobenzene | 92.9 | | 77.0-126 | | 02/05/2024 20:00 | WG2220273 |
| (S) 1,2-Dichloroethane-d4 | 90.6 | | 70.0-130 | | 02/05/2024 20:00 | WG2220273 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|----------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 02/08/2024 04:17 | WG2222205 |
| 2-Methylnaphthalene | 0.000284 | | 0.000250 | 1 | 02/08/2024 04:17 | WG2222205 |
| (S) Nitrobenzene-d5 | 116 | | 31.0-160 | | 02/08/2024 04:17 | WG2222205 |
| (S) 2-Fluorobiphenyl | 99.5 | | 48.0-148 | | 02/08/2024 04:17 | WG2222205 |
| (S) p-Terphenyl-d14 | 103 | | 37.0-146 | | 02/08/2024 04:17 | WG2222205 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 924 | | 20.0 | 1 | 02/06/2024 17:54 | WG2220096 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 15.4 | | 1.00 | 1 | 02/03/2024 15:17 | WG2218635 |
| Sulfate | 350 | | 25.0 | 5 | 02/06/2024 00:56 | WG2220256 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 02/03/2024 01:41 | WG2219189 |
| Toluene | ND | | 0.00100 | 1 | 02/03/2024 01:41 | WG2219189 |
| Ethylbenzene | ND | | 0.00100 | 1 | 02/03/2024 01:41 | WG2219189 |
| Xylenes, Total | ND | | 0.00300 | 1 | 02/03/2024 01:41 | WG2219189 |
| Naphthalene | ND | | 0.00500 | 1 | 02/03/2024 01:41 | WG2219189 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 02/03/2024 01:41 | WG2219189 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 02/03/2024 01:41 | WG2219189 |
| (S) Toluene-d8 | 99.6 | | 80.0-120 | | 02/03/2024 01:41 | WG2219189 |
| (S) 4-Bromofluorobenzene | 102 | | 77.0-126 | | 02/03/2024 01:41 | WG2219189 |
| (S) 1,2-Dichloroethane-d4 | 95.4 | | 70.0-130 | | 02/03/2024 01:41 | WG2219189 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|--------------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 02/06/2024 07:38 | WG2219139 |
| 2-Methylnaphthalene | ND | J4 | 0.000250 | 1 | 02/06/2024 07:38 | WG2219139 |
| (S) Nitrobenzene-d5 | 137 | | 31.0-160 | | 02/06/2024 07:38 | WG2219139 |
| (S) 2-Fluorobiphenyl | 133 | | 48.0-148 | | 02/06/2024 07:38 | WG2219139 |
| (S) p-Terphenyl-d14 | 129 | | 37.0-146 | | 02/06/2024 07:38 | WG2219139 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 940 | | 20.0 | 1 | 02/06/2024 17:54 | WG2220096 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 15.8 | | 1.00 | 1 | 02/03/2024 15:29 | WG2218635 |
| Sulfate | 349 | | 25.0 | 5 | 02/06/2024 01:12 | WG2220256 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 02/03/2024 02:02 | WG2219189 |
| Toluene | ND | | 0.00100 | 1 | 02/03/2024 02:02 | WG2219189 |
| Ethylbenzene | ND | | 0.00100 | 1 | 02/03/2024 02:02 | WG2219189 |
| Xylenes, Total | ND | | 0.00300 | 1 | 02/03/2024 02:02 | WG2219189 |
| Naphthalene | ND | | 0.00500 | 1 | 02/03/2024 02:02 | WG2219189 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 02/03/2024 02:02 | WG2219189 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 02/03/2024 02:02 | WG2219189 |
| (S) Toluene-d8 | 96.4 | | 80.0-120 | | 02/03/2024 02:02 | WG2219189 |
| (S) 4-Bromofluorobenzene | 99.6 | | 77.0-126 | | 02/03/2024 02:02 | WG2219189 |
| (S) 1,2-Dichloroethane-d4 | 95.4 | | 70.0-130 | | 02/03/2024 02:02 | WG2219189 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|--------------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 02/06/2024 07:56 | WG2219139 |
| 2-Methylnaphthalene | ND | J4 | 0.000250 | 1 | 02/06/2024 07:56 | WG2219139 |
| (S) Nitrobenzene-d5 | 142 | | 31.0-160 | | 02/06/2024 07:56 | WG2219139 |
| (S) 2-Fluorobiphenyl | 136 | | 48.0-148 | | 02/06/2024 07:56 | WG2219139 |
| (S) p-Terphenyl-d14 | 132 | | 37.0-146 | | 02/06/2024 07:56 | WG2219139 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 900 | | 20.0 | 1 | 02/06/2024 17:54 | WG2220096 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 15.6 | | 1.00 | 1 | 02/03/2024 15:42 | WG2218635 |
| Sulfate | 350 | | 25.0 | 5 | 02/06/2024 01:28 | WG2220256 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 02/03/2024 02:22 | WG2219189 |
| Toluene | ND | | 0.00100 | 1 | 02/03/2024 02:22 | WG2219189 |
| Ethylbenzene | ND | | 0.00100 | 1 | 02/03/2024 02:22 | WG2219189 |
| Xylenes, Total | ND | | 0.00300 | 1 | 02/03/2024 02:22 | WG2219189 |
| Naphthalene | ND | | 0.00500 | 1 | 02/03/2024 02:22 | WG2219189 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 02/03/2024 02:22 | WG2219189 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 02/03/2024 02:22 | WG2219189 |
| (S) Toluene-d8 | 98.2 | | 80.0-120 | | 02/03/2024 02:22 | WG2219189 |
| (S) 4-Bromofluorobenzene | 101 | | 77.0-126 | | 02/03/2024 02:22 | WG2219189 |
| (S) 1,2-Dichloroethane-d4 | 96.1 | | 70.0-130 | | 02/03/2024 02:22 | WG2219189 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|--------------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 02/06/2024 08:13 | WG2219139 |
| 2-Methylnaphthalene | ND | J4 | 0.000250 | 1 | 02/06/2024 08:13 | WG2219139 |
| (S) Nitrobenzene-d5 | 274 | J1 | 31.0-160 | | 02/06/2024 08:13 | WG2219139 |
| (S) 2-Fluorobiphenyl | 265 | J1 | 48.0-148 | | 02/06/2024 08:13 | WG2219139 |
| (S) p-Terphenyl-d14 | 260 | J1 | 37.0-146 | | 02/06/2024 08:13 | WG2219139 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 950 | | 20.0 | 1 | 02/06/2024 17:54 | WG2220096 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 15.6 | | 1.00 | 1 | 02/03/2024 16:20 | WG2218635 |
| Sulfate | 350 | | 25.0 | 5 | 02/06/2024 01:43 | WG2220256 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 02/03/2024 02:42 | WG2219189 |
| Toluene | ND | | 0.00100 | 1 | 02/03/2024 02:42 | WG2219189 |
| Ethylbenzene | ND | | 0.00100 | 1 | 02/03/2024 02:42 | WG2219189 |
| Xylenes, Total | ND | | 0.00300 | 1 | 02/03/2024 02:42 | WG2219189 |
| Naphthalene | ND | | 0.00500 | 1 | 02/03/2024 02:42 | WG2219189 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 02/03/2024 02:42 | WG2219189 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 02/03/2024 02:42 | WG2219189 |
| (S) Toluene-d8 | 97.1 | | 80.0-120 | | 02/03/2024 02:42 | WG2219189 |
| (S) 4-Bromofluorobenzene | 98.8 | | 77.0-126 | | 02/03/2024 02:42 | WG2219189 |
| (S) 1,2-Dichloroethane-d4 | 95.2 | | 70.0-130 | | 02/03/2024 02:42 | WG2219189 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|--------------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 02/06/2024 08:31 | WG2219139 |
| 2-Methylnaphthalene | ND | J4 | 0.000250 | 1 | 02/06/2024 08:31 | WG2219139 |
| (S) Nitrobenzene-d5 | 138 | | 31.0-160 | | 02/06/2024 08:31 | WG2219139 |
| (S) 2-Fluorobiphenyl | 133 | | 48.0-148 | | 02/06/2024 08:31 | WG2219139 |
| (S) p-Terphenyl-d14 | 129 | | 37.0-146 | | 02/06/2024 08:31 | WG2219139 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4031813-1 02/06/24 17:54

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|------------------|-------------------|--------------|----------------|----------------|
| Dissolved Solids | U | | 10.0 | 10.0 |

L1701357-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1701357-01 02/06/24 17:54 • (DUP) R4031813-3 02/06/24 17:54

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|------------------|-------------------------|--------------------|----------|--------------|---------------|------------------------|
| Dissolved Solids | 942 | 966 | 1 | 2.52 | | 10 |

L1701357-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1701357-03 02/06/24 17:54 • (DUP) R4031813-4 02/06/24 17:54

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|------------------|-------------------------|--------------------|----------|--------------|---------------|------------------------|
| Dissolved Solids | 924 | 964 | 1 | 4.24 | | 10 |

Laboratory Control Sample (LCS)

(LCS) R4031813-2 02/06/24 17:54

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|------------------|----------------------|--------------------|---------------|------------------|---------------|
| Dissolved Solids | 8800 | 8600 | 97.7 | 85.0-115 | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4029809-1 02/03/24 09:11

| | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------|-----------|--------------|--------|--------|
| Analyte | mg/l | | mg/l | mg/l |
| Chloride | U | | 0.379 | 1.00 |

L1701276-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1701276-01 02/03/24 12:46 • (DUP) R4029809-3 02/03/24 13:49

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/l | mg/l | | % | | % |
| Chloride | 1.38 | 1.36 | 1 | 1.96 | | 15 |

L1701453-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1701453-05 02/03/24 17:48 • (DUP) R4029809-6 02/03/24 18:01

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/l | mg/l | | % | | % |
| Chloride | 35.4 | 35.3 | 1 | 0.199 | | 15 |

Laboratory Control Sample (LCS)

(LCS) R4029809-2 02/03/24 09:24

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/l | mg/l | % | % | |
| Chloride | 40.0 | 40.5 | 101 | 80.0-120 | |

L1701276-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1701276-01 02/03/24 12:46 • (MS) R4029809-4 02/03/24 14:01 • (MSD) R4029809-5 02/03/24 14:14

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|----------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| Analyte | mg/l | mg/l | mg/l | mg/l | % | % | | % | | | % | % |
| Chloride | 40.0 | 1.38 | 41.0 | 40.9 | 98.9 | 98.7 | 1 | 80.0-120 | | | 0.230 | 15 |

L1701453-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1701453-05 02/03/24 17:48 • (MS) R4029809-7 02/03/24 18:13

| | Spike Amount | Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier |
|----------|--------------|-----------------|-----------|---------|----------|-------------|--------------|
| Analyte | mg/l | mg/l | mg/l | % | | % | |
| Chloride | 40.0 | 35.4 | 68.3 | 82.4 | 1 | 80.0-120 | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4030120-1 02/05/24 20:06

| | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
| Analyte | mg/l | | mg/l | mg/l |
| Sulfate | U | | 0.594 | 5.00 |

L1701822-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1701822-04 02/06/24 03:19 • (DUP) R4030120-3 02/06/24 03:35

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/l | mg/l | | % | | % |
| Sulfate | 962 | 961 | 1 | 0.0882 | E | 15 |

L1702064-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1702064-12 02/06/24 06:46 • (DUP) R4030120-5 02/06/24 07:02

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/l | mg/l | | % | | % |
| Sulfate | 9.20 | 9.14 | 1 | 0.708 | | 15 |

Laboratory Control Sample (LCS)

(LCS) R4030120-2 02/05/24 20:22

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/l | mg/l | % | % | |
| Sulfate | 40.0 | 41.4 | 104 | 80.0-120 | |

L1701822-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1701822-04 02/06/24 03:19 • (MS) R4030120-4 02/06/24 03:51

| | Spike Amount | Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier |
|---------|--------------|-----------------|-----------|---------|----------|-------------|--------------|
| Analyte | mg/l | mg/l | mg/l | % | | % | |
| Sulfate | 40.0 | 962 | 826 | 0.000 | 1 | 80.0-120 | E V |

Sample Narrative:

MS: Spike failure due to matrix interference

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1702064-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1702064-12 02/06/24 06:46 • (MS) R4030120-6 02/06/24 07:18 • (MSD) R4030120-7 02/06/24 07:33

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | <u>MS Qualifier</u> | <u>MSD Qualifier</u> | RPD % | RPD Limits % |
|---------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|---------------------|----------------------|----------|-----------------|
| Sulfate | 40.0 | 9.20 | 45.3 | 46.6 | 90.4 | 93.6 | 1 | 80.0-120 | | | 2.80 | 15 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4029820-3 02/02/24 22:28

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---------------------------|-------------------|--------------|----------------|----------------|
| Benzene | U | | 0.0000941 | 0.00100 |
| Toluene | U | | 0.000278 | 0.00100 |
| Ethylbenzene | U | | 0.000137 | 0.00100 |
| Xylenes, Total | U | | 0.000174 | 0.00300 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| 1,2,4-Trimethylbenzene | U | | 0.000322 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000104 | 0.00100 |
| (S) Toluene-d8 | 97.7 | | | 80.0-120 |
| (S) 4-Bromofluorobenzene | 102 | | | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 93.4 | | | 70.0-130 |

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

(LCS) R4029820-1 02/02/24 21:07 • (LCSD) R4029820-2 02/02/24 21:28

| 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 % |
|---------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene | 0.00500 | 0.00535 | 0.00546 | 107 | 109 | 70.0-123 | | | 2.04 | 20 |
| Toluene | 0.00500 | 0.00447 | 0.00453 | 89.4 | 90.6 | 79.0-120 | | | 1.33 | 20 |
| Ethylbenzene | 0.00500 | 0.00437 | 0.00457 | 87.4 | 91.4 | 79.0-123 | | | 4.47 | 20 |
| Xylenes, Total | 0.0150 | 0.0127 | 0.0132 | 84.7 | 88.0 | 79.0-123 | | | 3.86 | 20 |
| Naphthalene | 0.00500 | 0.00335 | 0.00338 | 67.0 | 67.6 | 54.0-135 | | | 0.892 | 20 |
| 1,2,4-Trimethylbenzene | 0.00500 | 0.00418 | 0.00433 | 83.6 | 86.6 | 76.0-121 | | | 3.53 | 20 |
| 1,3,5-Trimethylbenzene | 0.00500 | 0.00424 | 0.00439 | 84.8 | 87.8 | 76.0-122 | | | 3.48 | 20 |
| (S) Toluene-d8 | | | | 95.8 | 96.0 | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | 99.9 | 103 | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 93.3 | 91.9 | 70.0-130 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4030460-2 02/05/24 12:18

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---------------------------|-------------------|--------------|----------------|----------------|
| Benzene | U | | 0.0000941 | 0.00100 |
| Toluene | U | | 0.000278 | 0.00100 |
| Ethylbenzene | U | | 0.000137 | 0.00100 |
| Xylenes, Total | U | | 0.000174 | 0.00300 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| 1,2,4-Trimethylbenzene | U | | 0.000322 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000104 | 0.00100 |
| (S) Toluene-d8 | 104 | | | 80.0-120 |
| (S) 4-Bromofluorobenzene | 96.1 | | | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 93.3 | | | 70.0-130 |

Laboratory Control Sample (LCS)

(LCS) R4030460-1 02/05/24 11:37

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Benzene | 0.00500 | 0.00520 | 104 | 70.0-123 | |
| Toluene | 0.00500 | 0.00537 | 107 | 79.0-120 | |
| Ethylbenzene | 0.00500 | 0.00541 | 108 | 79.0-123 | |
| Xylenes, Total | 0.0150 | 0.0161 | 107 | 79.0-123 | |
| Naphthalene | 0.00500 | 0.00426 | 85.2 | 54.0-135 | |
| 1,2,4-Trimethylbenzene | 0.00500 | 0.00556 | 111 | 76.0-121 | |
| 1,3,5-Trimethylbenzene | 0.00500 | 0.00576 | 115 | 76.0-122 | |
| (S) Toluene-d8 | | | 97.4 | 80.0-120 | |
| (S) 4-Bromofluorobenzene | | | 94.3 | 77.0-126 | |
| (S) 1,2-Dichloroethane-d4 | | | 94.3 | 70.0-130 | |

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4031079-3 02/06/24 02:09

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|----------------------|-------------------|--------------|----------------|----------------|
| 1-Methylnaphthalene | U | | 0.0000687 | 0.000250 |
| 2-Methylnaphthalene | U | | 0.0000674 | 0.000250 |
| (S) Nitrobenzene-d5 | 131 | | | 31.0-160 |
| (S) 2-Fluorobiphenyl | 134 | | | 48.0-148 |
| (S) p-Terphenyl-d14 | 130 | | | 37.0-146 |

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

(LCS) R4031079-1 02/06/24 01:34 • (LCSD) R4031079-2 02/06/24 01:51

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCSD Result mg/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|----------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| 1-Methylnaphthalene | 0.00200 | 0.00268 | 0.00270 | 134 | 135 | 66.0-142 | | | 0.744 | 20 |
| 2-Methylnaphthalene | 0.00200 | 0.00268 | 0.00273 | 134 | 137 | 62.0-136 | J4 | | 1.85 | 20 |
| (S) Nitrobenzene-d5 | | | | 132 | 132 | 31.0-160 | | | | |
| (S) 2-Fluorobiphenyl | | | | 136 | 134 | 48.0-148 | | | | |
| (S) p-Terphenyl-d14 | | | | 127 | 130 | 37.0-146 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4031645-3 02/08/24 03:05

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|----------------------|-------------------|--------------|----------------|----------------|
| 1-Methylnaphthalene | U | | 0.0000687 | 0.000250 |
| 2-Methylnaphthalene | U | | 0.0000674 | 0.000250 |
| (S) Nitrobenzene-d5 | 117 | | | 31.0-160 |
| (S) 2-Fluorobiphenyl | 96.0 | | | 48.0-148 |
| (S) p-Terphenyl-d14 | 104 | | | 37.0-146 |

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

(LCS) R4031645-1 02/08/24 02:30 • (LCSD) R4031645-2 02/08/24 02:48

| 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 % |
|----------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| 1-Methylnaphthalene | 0.00200 | 0.00228 | 0.00223 | 114 | 111 | 66.0-142 | | | 2.22 | 20 |
| 2-Methylnaphthalene | 0.00200 | 0.00235 | 0.00222 | 117 | 111 | 62.0-136 | | | 5.69 | 20 |
| (S) Nitrobenzene-d5 | | | | 131 | 112 | 31.0-160 | | | | |
| (S) 2-Fluorobiphenyl | | | | 109 | 122 | 48.0-148 | | | | |
| (S) p-Terphenyl-d14 | | | | 106 | 62.0 | 37.0-146 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

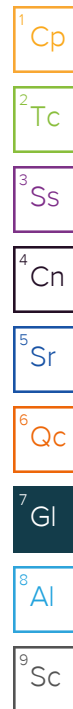
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

| | |
|------------------------------|--|
| MDL | Method Detection Limit. |
| 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 |
|-----------|---|
| E | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). |
| J1 | Surrogate recovery limits have been exceeded; values are outside upper control limits. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| V | The sample concentration is too high to evaluate accurate spike recoveries. |



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|--------------------------------|-------------|-----------------------------|------------------|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey--NELAP | TN002 |
| California | 2932 | New Mexico ¹ | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina ¹ | DW21704 |
| Georgia | NELAP | North Carolina ³ | 41 |
| Georgia ¹ | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio--VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky ^{1 6} | KY90010 | South Carolina | 84004002 |
| Kentucky ² | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee ^{1 4} | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA -- ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA -- ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA--Crypto | TN00003 | | |

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Time estimate: 0h

Time spent: 0h

Grouping date: 2 February
2024

Members



Robert Rountree (responsible)



Chris Ward

~~Due on 8 February 2024 5:00 PM for target Done~~ (Was done by Robert Rountree at 2 February 2024 4:56 PM)

- ☐ Parameter(s) past holding time
- ☐ Temperature not in range
- ☐ Improper container type
- ☐ pH not in range
- ☐ Insufficient sample volume
- ☐ Sample is biphasic
- ☒ Vials received with headspace
- ☐ Broken container
- ☐ Sufficient sample remains
- ☐ If broken container: Insufficient packing material around container
- ☐ If broken container: Insufficient packing material inside cooler
- ☐ If broken container: Improper handling by carrier: _____
- ☐ If broken container: Sample was frozen
- ☐ If broken container: Container lid not intact
- ☐ Client informed by Call
- ☐ Client informed by Email
- ☐ Client informed by Voicemail
- ☐ Date/Time: _____
- ☐ PM initials: _____
- ☐ Client Contact: _____

Comments

Robert Rountree

2 February 2024 12:20 AM

One hcl vial for -02 received with headspace.

Chris Ward

2 February 2024 9:44 AM

Please proceed with non-headspace vials

Robert Rountree

2 February 2024 4:56 PM

Done.

2/1 - NCF-11701357 CAERUSPCO

Time estimate: 0h

Time spent: 0h

Grouping date: 2 February
2024

Members



Robert Rountree (responsible)



CW Chris Ward

~~Due on 8 February 2024 5:00 PM for target Done~~ (Was done by Robert Rountree at 2 February 2024 4:56 PM)

- ☐ Parameter(s) past holding time
- ☐ Temperature not in range
- ☐ Improper container type
- ☐ pH not in range
- ☐ Insufficient sample volume
- ☐ Sample is biphasic
- ☒ Vials received with headspace
- ☐ Broken container
- ☐ Sufficient sample remains
- ☐ If broken container: Insufficient packing material around container
- ☐ If broken container: Insufficient packing material inside cooler
- ☐ If broken container: Improper handling by carrier: _____
- ☐ If broken container: Sample was frozen
- ☐ If broken container: Container lid not intact
- ☐ Client informed by Call
- ☐ Client informed by Email
- ☐ Client informed by Voicemail
- ☐ Date/Time: _____
- ☐ PM initials: _____
- ☐ Client Contact: _____

Comments

Robert Rountree

2 February 2024 12:20 AM

One hcl vial for -02 received with headspace.

Chris Ward

2 February 2024 9:44 AM

Please proceed with non-headspace vials

Robert Rountree

2 February 2024 4:56 PM

Done.

Caerus Oil and Gas

Sample Delivery Group: L1709676
Samples Received: 02/27/2024
Project Number:
Description: Love Ranch 8 Investigation
Site: LOVE RANCH 8
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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

20240226-XTWP-(LR8-ST-PC-UG02) L1709676-01 GW

Collected by Trevor Lakin
Collected date/time 02/26/24 08:59
Received date/time 02/27/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2237650 | 1 | 03/01/24 11:09 | 03/03/24 11:55 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2235796 | 1 | 03/01/24 19:32 | 03/01/24 19:32 | GEB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2237700 | 1 | 03/01/24 14:31 | 03/01/24 14:31 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2235511 | 1 | 02/29/24 16:30 | 02/29/24 22:51 | MKM | Mt. Juliet, TN |

20240226-XTWP-(LR8-ST-PC-POR) L1709676-02 GW

Collected by Trevor Lakin
Collected date/time 02/26/24 09:06
Received date/time 02/27/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2237650 | 1 | 03/01/24 11:09 | 03/03/24 11:55 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2235796 | 1 | 03/01/24 20:36 | 03/01/24 20:36 | GEB | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2235796 | 10 | 03/01/24 20:52 | 03/01/24 20:52 | GEB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2237700 | 1 | 03/01/24 14:52 | 03/01/24 14:52 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2235511 | 1 | 02/29/24 16:30 | 02/29/24 23:11 | MKM | Mt. Juliet, TN |

20240226-XTWP-(LR8-ST-PC-DG14) L1709676-03 GW

Collected by Trevor Lakin
Collected date/time 02/26/24 09:13
Received date/time 02/27/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2237657 | 1 | 03/01/24 11:19 | 03/02/24 10:00 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2235796 | 1 | 03/01/24 21:08 | 03/01/24 21:08 | GEB | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2235796 | 10 | 03/01/24 21:23 | 03/01/24 21:23 | GEB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2237700 | 1 | 03/01/24 15:13 | 03/01/24 15:13 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2235511 | 1 | 02/29/24 16:30 | 02/29/24 23:30 | MKM | Mt. Juliet, TN |

20240226-XTWP-(LR8-ST-PC-DG13) L1709676-04 GW

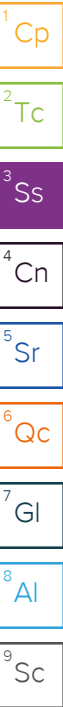
Collected by Trevor Lakin
Collected date/time 02/26/24 09:23
Received date/time 02/27/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2237657 | 1 | 03/01/24 11:19 | 03/02/24 10:00 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2235796 | 1 | 03/01/24 21:39 | 03/01/24 21:39 | GEB | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2235796 | 10 | 03/01/24 21:55 | 03/01/24 21:55 | GEB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2237700 | 1 | 03/01/24 15:34 | 03/01/24 15:34 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2235511 | 1 | 02/29/24 16:30 | 02/29/24 23:50 | MKM | Mt. Juliet, TN |

20240226-XTWP-(LR8-ST-PC-DG12) L1709676-05 GW

Collected by Trevor Lakin
Collected date/time 02/26/24 09:32
Received date/time 02/27/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2237657 | 1 | 03/01/24 11:19 | 03/02/24 10:00 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2235796 | 1 | 03/01/24 22:11 | 03/01/24 22:11 | GEB | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2235796 | 10 | 03/01/24 22:27 | 03/01/24 22:27 | GEB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2237700 | 1 | 03/01/24 15:54 | 03/01/24 15:54 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2235511 | 1 | 02/29/24 16:30 | 03/01/24 00:09 | MKM | Mt. Juliet, TN |



SAMPLE SUMMARY

20240226-XTWP-(LR8-ST-PC-DG11) L1709676-06 GW

Collected by
Trevor Lakin

Collected date/time
02/26/24 09:50

Received date/time
02/27/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2237657 | 1 | 03/01/24 11:19 | 03/02/24 10:00 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2235796 | 1 | 03/01/24 22:43 | 03/01/24 22:43 | GEB | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2235796 | 10 | 03/01/24 23:31 | 03/01/24 23:31 | GEB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2237700 | 1 | 03/01/24 16:15 | 03/01/24 16:15 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2235511 | 1 | 02/29/24 16:30 | 03/01/24 00:29 | MKM | Mt. Juliet, TN |

¹Cp

 ${}^2\text{Tc}$ 3S_s
$$^4\text{Cn}$$
 ${}^5\text{Sr}$ ${}^6\text{Qc}$ ${}^7\text{G}$ ${}^8\text{Al}$ ${}^9\text{Sc}$

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 858 | | 20.0 | 1 | 03/03/2024 11:55 | WG2237650 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 4.23 | | 1.00 | 1 | 03/01/2024 19:32 | WG2235796 |
| Sulfate | ND | | 5.00 | 1 | 03/01/2024 19:32 | WG2235796 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 03/01/2024 14:31 | WG2237700 |
| Toluene | ND | | 0.00100 | 1 | 03/01/2024 14:31 | WG2237700 |
| Ethylbenzene | ND | | 0.00100 | 1 | 03/01/2024 14:31 | WG2237700 |
| Xylenes, Total | ND | | 0.00300 | 1 | 03/01/2024 14:31 | WG2237700 |
| Naphthalene | ND | | 0.00500 | 1 | 03/01/2024 14:31 | WG2237700 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 03/01/2024 14:31 | WG2237700 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 03/01/2024 14:31 | WG2237700 |
| (S) Toluene-d8 | 115 | | 80.0-120 | | 03/01/2024 14:31 | WG2237700 |
| (S) 4-Bromofluorobenzene | 109 | | 77.0-126 | | 03/01/2024 14:31 | WG2237700 |
| (S) 1,2-Dichloroethane-d4 | 112 | | 70.0-130 | | 03/01/2024 14:31 | WG2237700 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 02/29/2024 22:51 | WG2235511 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 02/29/2024 22:51 | WG2235511 |
| (S) Nitrobenzene-d5 | 108 | | 31.0-160 | | 02/29/2024 22:51 | WG2235511 |
| (S) 2-Fluorobiphenyl | 90.5 | | 48.0-148 | | 02/29/2024 22:51 | WG2235511 |
| (S) p-Terphenyl-d14 | 85.8 | | 37.0-146 | | 02/29/2024 22:51 | WG2235511 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 912 | | 20.0 | 1 | 03/03/2024 11:55 | WG2237650 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 14.9 | | 1.00 | 1 | 03/01/2024 20:36 | WG2235796 |
| Sulfate | 341 | | 50.0 | 10 | 03/01/2024 20:52 | WG2235796 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 03/01/2024 14:52 | WG2237700 |
| Toluene | ND | | 0.00100 | 1 | 03/01/2024 14:52 | WG2237700 |
| Ethylbenzene | ND | | 0.00100 | 1 | 03/01/2024 14:52 | WG2237700 |
| Xylenes, Total | ND | | 0.00300 | 1 | 03/01/2024 14:52 | WG2237700 |
| Naphthalene | ND | | 0.00500 | 1 | 03/01/2024 14:52 | WG2237700 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 03/01/2024 14:52 | WG2237700 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 03/01/2024 14:52 | WG2237700 |
| (S) Toluene-d8 | 116 | | 80.0-120 | | 03/01/2024 14:52 | WG2237700 |
| (S) 4-Bromofluorobenzene | 108 | | 77.0-126 | | 03/01/2024 14:52 | WG2237700 |
| (S) 1,2-Dichloroethane-d4 | 110 | | 70.0-130 | | 03/01/2024 14:52 | WG2237700 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 02/29/2024 23:11 | WG2235511 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 02/29/2024 23:11 | WG2235511 |
| (S) Nitrobenzene-d5 | 104 | | 31.0-160 | | 02/29/2024 23:11 | WG2235511 |
| (S) 2-Fluorobiphenyl | 91.1 | | 48.0-148 | | 02/29/2024 23:11 | WG2235511 |
| (S) p-Terphenyl-d14 | 85.8 | | 37.0-146 | | 02/29/2024 23:11 | WG2235511 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| Analyte | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 938 | | 20.0 | 1 | 03/02/2024 10:00 | WG2237657 |

Wet Chemistry by Method 9056A

| | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| Analyte | mg/l | | mg/l | | date / time | |
| Chloride | 15.1 | | 1.00 | 1 | 03/01/2024 21:08 | WG2235796 |
| Sulfate | 337 | | 50.0 | 10 | 03/01/2024 21:23 | WG2235796 |

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

| | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|----------|----------|------------------|---------------------------|
| Analyte | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 03/01/2024 15:13 | WG2237700 |
| Toluene | ND | | 0.00100 | 1 | 03/01/2024 15:13 | WG2237700 |
| Ethylbenzene | ND | | 0.00100 | 1 | 03/01/2024 15:13 | WG2237700 |
| Xylenes, Total | ND | | 0.00300 | 1 | 03/01/2024 15:13 | WG2237700 |
| Naphthalene | ND | | 0.00500 | 1 | 03/01/2024 15:13 | WG2237700 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 03/01/2024 15:13 | WG2237700 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 03/01/2024 15:13 | WG2237700 |
| (S) Toluene-d8 | 115 | | 80.0-120 | | 03/01/2024 15:13 | WG2237700 |
| (S) 4-Bromofluorobenzene | 110 | | 77.0-126 | | 03/01/2024 15:13 | WG2237700 |
| (S) 1,2-Dichloroethane-d4 | 112 | | 70.0-130 | | 03/01/2024 15:13 | WG2237700 |

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

| | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|---------------------------|
| Analyte | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 02/29/2024 23:30 | WG2235511 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 02/29/2024 23:30 | WG2235511 |
| (S) Nitrobenzene-d5 | 104 | | 31.0-160 | | 02/29/2024 23:30 | WG2235511 |
| (S) 2-Fluorobiphenyl | 88.9 | | 48.0-148 | | 02/29/2024 23:30 | WG2235511 |
| (S) p-Terphenyl-d14 | 86.3 | | 37.0-146 | | 02/29/2024 23:30 | WG2235511 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| Analyte | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 940 | | 20.0 | 1 | 03/02/2024 10:00 | WG2237657 |

Wet Chemistry by Method 9056A

| | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| Analyte | mg/l | | mg/l | | date / time | |
| Chloride | 15.2 | | 1.00 | 1 | 03/01/2024 21:39 | WG2235796 |
| Sulfate | 334 | | 50.0 | 10 | 03/01/2024 21:55 | WG2235796 |

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

| | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|----------|----------|------------------|---------------------------|
| Analyte | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 03/01/2024 15:34 | WG2237700 |
| Toluene | ND | | 0.00100 | 1 | 03/01/2024 15:34 | WG2237700 |
| Ethylbenzene | ND | | 0.00100 | 1 | 03/01/2024 15:34 | WG2237700 |
| Xylenes, Total | ND | | 0.00300 | 1 | 03/01/2024 15:34 | WG2237700 |
| Naphthalene | ND | | 0.00500 | 1 | 03/01/2024 15:34 | WG2237700 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 03/01/2024 15:34 | WG2237700 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 03/01/2024 15:34 | WG2237700 |
| (S) Toluene-d8 | 114 | | 80.0-120 | | 03/01/2024 15:34 | WG2237700 |
| (S) 4-Bromofluorobenzene | 109 | | 77.0-126 | | 03/01/2024 15:34 | WG2237700 |
| (S) 1,2-Dichloroethane-d4 | 113 | | 70.0-130 | | 03/01/2024 15:34 | WG2237700 |

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

| | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|---------------------------|
| Analyte | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 02/29/2024 23:50 | WG2235511 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 02/29/2024 23:50 | WG2235511 |
| (S) Nitrobenzene-d5 | 105 | | 31.0-160 | | 02/29/2024 23:50 | WG2235511 |
| (S) 2-Fluorobiphenyl | 92.1 | | 48.0-148 | | 02/29/2024 23:50 | WG2235511 |
| (S) p-Terphenyl-d14 | 85.8 | | 37.0-146 | | 02/29/2024 23:50 | WG2235511 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 952 | | 20.0 | 1 | 03/02/2024 10:00 | WG2237657 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 15.2 | | 1.00 | 1 | 03/01/2024 22:11 | WG2235796 |
| Sulfate | 345 | | 50.0 | 10 | 03/01/2024 22:27 | WG2235796 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 03/01/2024 15:54 | WG2237700 |
| Toluene | ND | | 0.00100 | 1 | 03/01/2024 15:54 | WG2237700 |
| Ethylbenzene | ND | | 0.00100 | 1 | 03/01/2024 15:54 | WG2237700 |
| Xylenes, Total | ND | | 0.00300 | 1 | 03/01/2024 15:54 | WG2237700 |
| Naphthalene | ND | | 0.00500 | 1 | 03/01/2024 15:54 | WG2237700 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 03/01/2024 15:54 | WG2237700 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 03/01/2024 15:54 | WG2237700 |
| (S) Toluene-d8 | 118 | | 80.0-120 | | 03/01/2024 15:54 | WG2237700 |
| (S) 4-Bromofluorobenzene | 110 | | 77.0-126 | | 03/01/2024 15:54 | WG2237700 |
| (S) 1,2-Dichloroethane-d4 | 110 | | 70.0-130 | | 03/01/2024 15:54 | WG2237700 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 03/01/2024 00:09 | WG2235511 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 03/01/2024 00:09 | WG2235511 |
| (S) Nitrobenzene-d5 | 104 | | 31.0-160 | | 03/01/2024 00:09 | WG2235511 |
| (S) 2-Fluorobiphenyl | 90.5 | | 48.0-148 | | 03/01/2024 00:09 | WG2235511 |
| (S) p-Terphenyl-d14 | 86.3 | | 37.0-146 | | 03/01/2024 00:09 | WG2235511 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 938 | | 20.0 | 1 | 03/02/2024 10:00 | WG2237657 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 15.1 | | 1.00 | 1 | 03/01/2024 22:43 | WG2235796 |
| Sulfate | 338 | | 50.0 | 10 | 03/01/2024 23:31 | WG2235796 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 03/01/2024 16:15 | WG2237700 |
| Toluene | ND | | 0.00100 | 1 | 03/01/2024 16:15 | WG2237700 |
| Ethylbenzene | ND | | 0.00100 | 1 | 03/01/2024 16:15 | WG2237700 |
| Xylenes, Total | ND | | 0.00300 | 1 | 03/01/2024 16:15 | WG2237700 |
| Naphthalene | ND | | 0.00500 | 1 | 03/01/2024 16:15 | WG2237700 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 03/01/2024 16:15 | WG2237700 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 03/01/2024 16:15 | WG2237700 |
| (S) Toluene-d8 | 115 | | 80.0-120 | | 03/01/2024 16:15 | WG2237700 |
| (S) 4-Bromofluorobenzene | 107 | | 77.0-126 | | 03/01/2024 16:15 | WG2237700 |
| (S) 1,2-Dichloroethane-d4 | 110 | | 70.0-130 | | 03/01/2024 16:15 | WG2237700 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 03/01/2024 00:29 | WG2235511 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 03/01/2024 00:29 | WG2235511 |
| (S) Nitrobenzene-d5 | 104 | | 31.0-160 | | 03/01/2024 00:29 | WG2235511 |
| (S) 2-Fluorobiphenyl | 91.6 | | 48.0-148 | | 03/01/2024 00:29 | WG2235511 |
| (S) p-Terphenyl-d14 | 86.8 | | 37.0-146 | | 03/01/2024 00:29 | WG2235511 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4041216-1 03/03/24 11:55

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|------------------|-------------------|--------------|----------------|----------------|
| Dissolved Solids | U | | 10.0 | 10.0 |

L1709587-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1709587-07 03/03/24 11:55 • (DUP) R4041216-3 03/03/24 11:55

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|------------------|-------------------------|--------------------|----------|--------------|---------------|------------------------|
| Dissolved Solids | 457 | 484 | 1 | 5.74 | | 10 |

L1709587-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1709587-08 03/03/24 11:55 • (DUP) R4041216-4 03/03/24 11:55

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|------------------|-------------------------|--------------------|----------|--------------|---------------|------------------------|
| Dissolved Solids | 476 | 495 | 1 | 3.91 | | 10 |

Laboratory Control Sample (LCS)

(LCS) R4041216-2 03/03/24 11:55

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|------------------|----------------------|--------------------|---------------|------------------|---------------|
| Dissolved Solids | 8800 | 8680 | 98.6 | 85.0-115 | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4041201-1 03/02/24 10:00

| | MB Result | <u>MB Qualifier</u> | MB MDL | MB RDL |
|------------------|-----------|---------------------|--------|--------|
| Analyte | mg/l | | mg/l | mg/l |
| Dissolved Solids | U | | 10.0 | 10.0 |

L1710138-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1710138-01 03/02/24 10:00 • (DUP) R4041201-3 03/02/24 10:00

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|------------------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | mg/l | mg/l | | % | | % |
| Dissolved Solids | 413 | 429 | 1 | 3.80 | | 10 |

L1710741-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1710741-02 03/02/24 10:00 • (DUP) R4041201-4 03/02/24 10:00

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|------------------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | mg/l | mg/l | | % | | % |
| Dissolved Solids | 1090 | 1140 | 1 | 4.31 | | 10 |

Laboratory Control Sample (LCS)

(LCS) R4041201-2 03/02/24 10:00

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | <u>LCS Qualifier</u> |
|------------------|--------------|------------|----------|-------------|----------------------|
| Analyte | mg/l | mg/l | % | % | |
| Dissolved Solids | 8800 | 8910 | 101 | 85.0-115 | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4041159-1 03/01/24 10:21

| | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------|-----------|--------------|--------|--------|
| Analyte | mg/l | | mg/l | mg/l |
| Chloride | U | | 0.379 | 1.00 |
| Sulfate | U | | 0.594 | 5.00 |

L1709592-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1709592-01 03/01/24 17:57 • (DUP) R4041159-3 03/01/24 18:13

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/l | mg/l | | % | | % |
| Chloride | 4.14 | 4.06 | 1 | 1.96 | | 15 |
| Sulfate | ND | ND | 1 | 14.1 | | 15 |

L1709698-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1709698-06 03/02/24 01:06 • (DUP) R4041159-6 03/02/24 01:22

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/l | mg/l | | % | | % |
| Chloride | 5.70 | 5.67 | 1 | 0.419 | | 15 |
| Sulfate | 17.0 | 17.0 | 1 | 0.208 | | 15 |

Laboratory Control Sample (LCS)

(LCS) R4041159-2 03/01/24 10:36

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/l | mg/l | % | % | |
| Chloride | 40.0 | 39.7 | 99.3 | 80.0-120 | |
| Sulfate | 40.0 | 40.7 | 102 | 80.0-120 | |

L1709592-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1709592-01 03/01/24 17:57 • (MS) R4041159-4 03/01/24 18:28 • (MSD) R4041159-5 03/01/24 18:44

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|----------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| Analyte | mg/l | mg/l | mg/l | mg/l | % | % | | % | | | % | % |
| Chloride | 40.0 | 4.14 | 43.8 | 43.6 | 99.1 | 98.7 | 1 | 80.0-120 | | | 0.333 | 15 |
| Sulfate | 40.0 | ND | 42.0 | 41.7 | 101 | 101 | 1 | 80.0-120 | | | 0.819 | 15 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1709698-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1709698-06 03/02/24 01:06 • (MS) R4041159-7 03/02/24 01:38

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MS Rec. % | Dilution | Rec. Limits % | <u>MS Qualifier</u> |
|----------|----------------------|-------------------------|-------------------|--------------|----------|------------------|---------------------|
| Chloride | 40.0 | 5.70 | 45.1 | 98.4 | 1 | 80.0-120 | |
| Sulfate | 40.0 | 17.0 | 55.7 | 96.7 | 1 | 80.0-120 | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4040517-3 03/01/24 10:57

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---------------------------|-------------------|--------------|----------------|----------------|
| Benzene | U | | 0.0000941 | 0.00100 |
| Toluene | U | | 0.000278 | 0.00100 |
| Ethylbenzene | U | | 0.000137 | 0.00100 |
| Xylenes, Total | U | | 0.000174 | 0.00300 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| 1,2,4-Trimethylbenzene | U | | 0.000322 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000104 | 0.00100 |
| (S) Toluene-d8 | 118 | | | 80.0-120 |
| (S) 4-Bromofluorobenzene | 109 | | | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 109 | | | 70.0-130 |

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

(LCS) R4040517-1 03/01/24 09:54 • (LCSD) R4040517-2 03/01/24 10:15

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCSD Result mg/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene | 0.00500 | 0.00471 | 0.00479 | 94.2 | 95.8 | 70.0-123 | | | 1.68 | 20 |
| Toluene | 0.00500 | 0.00482 | 0.00481 | 96.4 | 96.2 | 79.0-120 | | | 0.208 | 20 |
| Ethylbenzene | 0.00500 | 0.00485 | 0.00468 | 97.0 | 93.6 | 79.0-123 | | | 3.57 | 20 |
| Xylenes, Total | 0.0150 | 0.0141 | 0.0141 | 94.0 | 94.0 | 79.0-123 | | | 0.000 | 20 |
| Naphthalene | 0.00500 | 0.00352 | 0.00352 | 70.4 | 70.4 | 54.0-135 | | | 0.000 | 20 |
| 1,2,4-Trimethylbenzene | 0.00500 | 0.00472 | 0.00472 | 94.4 | 94.4 | 76.0-121 | | | 0.000 | 20 |
| 1,3,5-Trimethylbenzene | 0.00500 | 0.00493 | 0.00511 | 98.6 | 102 | 76.0-122 | | | 3.59 | 20 |
| (S) Toluene-d8 | | | | 116 | 115 | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | 107 | 109 | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 112 | 109 | 70.0-130 | | | | |

L1709688-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1709688-08 03/01/24 19:04 • (MS) R4040517-4 03/01/24 19:25 • (MSD) R4040517-5 03/01/24 19:46

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Benzene | 0.00500 | ND | 0.00431 | 0.00409 | 86.2 | 81.8 | 1 | 17.0-158 | | | 5.24 | 27 |
| Toluene | 0.00500 | ND | 0.00449 | 0.00428 | 89.8 | 85.6 | 1 | 26.0-154 | | | 4.79 | 28 |
| Ethylbenzene | 0.00500 | ND | 0.00463 | 0.00420 | 92.6 | 84.0 | 1 | 30.0-155 | | | 9.74 | 27 |
| Xylenes, Total | 0.0150 | ND | 0.0134 | 0.0129 | 89.3 | 86.0 | 1 | 29.0-154 | | | 3.80 | 28 |
| Naphthalene | 0.00500 | ND | ND | ND | 73.0 | 80.4 | 1 | 12.0-156 | | | 9.65 | 35 |
| 1,2,4-Trimethylbenzene | 0.00500 | ND | 0.00444 | 0.00453 | 88.8 | 90.6 | 1 | 26.0-154 | | | 2.01 | 27 |
| 1,3,5-Trimethylbenzene | 0.00500 | ND | 0.00478 | 0.00471 | 95.6 | 94.2 | 1 | 28.0-153 | | | 1.48 | 27 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1709688-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1709688-08 03/01/24 19:04 • (MS) R4040517-4 03/01/24 19:25 • (MSD) R4040517-5 03/01/24 19:46

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | <u>MS Qualifier</u> | <u>MSD Qualifier</u> | RPD % | RPD Limits % |
|---------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|---------------------|----------------------|----------|-----------------|
| (S) Toluene-d8 | | | | | 115 | 116 | | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | | 106 | 108 | | 77.0-126 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | | 112 | 109 | | 70.0-130 | | | | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4041253-3 02/29/24 21:14

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|----------------------|-------------------|--------------|----------------|----------------|
| 1-Methylnaphthalene | U | | 0.0000687 | 0.000250 |
| 2-Methylnaphthalene | U | | 0.0000674 | 0.000250 |
| (S) Nitrobenzene-d5 | 102 | | | 31.0-160 |
| (S) 2-Fluorobiphenyl | 88.0 | | | 48.0-148 |
| (S) p-Terphenyl-d14 | 81.5 | | | 37.0-146 |

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

(LCS) R4041253-1 02/29/24 20:35 • (LCSD) R4041253-2 02/29/24 20:55

| 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 % |
|----------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| 1-Methylnaphthalene | 0.00200 | 0.00216 | 0.00203 | 108 | 102 | 66.0-142 | | | 6.21 | 20 |
| 2-Methylnaphthalene | 0.00200 | 0.00216 | 0.00206 | 108 | 103 | 62.0-136 | | | 4.74 | 20 |
| (S) Nitrobenzene-d5 | | | | 115 | 113 | 31.0-160 | | | | |
| (S) 2-Fluorobiphenyl | | | | 100 | 91.0 | 48.0-148 | | | | |
| (S) p-Terphenyl-d14 | | | | 90.5 | 83.0 | 37.0-146 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

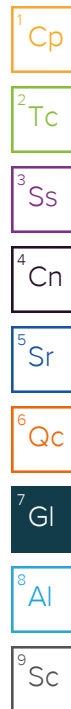
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

| | |
|------------------------------|--|
| MDL | Method Detection Limit. |
| 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

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



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.



Caerus Oil and Gas

Sample Delivery Group: L1720332
Samples Received: 03/29/2024
Project Number:
Description: Love Ranch 8 Investigation
Site: LOVE RANCH 8
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

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

SAMPLE SUMMARY

20240327-XTWP-(LR8-PZ02) L1720332-01 GW

Collected by
Tristan Schmalz

Collected date/time
03/27/24 10:00

Received date/time
03/29/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2257770 | 1 | 04/01/24 16:16 | 04/03/24 11:52 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 1 | 04/02/24 14:06 | 04/02/24 14:06 | DLH | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 10 | 04/02/24 14:19 | 04/02/24 14:19 | DLH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2258112 | 1 | 04/01/24 16:52 | 04/01/24 16:52 | JBE | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2259953 | 1 | 04/03/24 20:11 | 04/04/24 06:24 | JCH | Mt. Juliet, TN |

¹ Cp

² Tc

³ Ss

⁴ Cn

20240327-XTWP-(LR8-PZ01) L1720332-02 GW

Collected by
Tristan Schmalz

Collected date/time
03/27/24 11:08

Received date/time
03/29/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2257780 | 1 | 04/01/24 10:48 | 04/01/24 22:41 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 1 | 04/02/24 14:32 | 04/02/24 14:32 | DLH | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 10 | 04/02/24 14:45 | 04/02/24 14:45 | DLH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2258112 | 1 | 04/01/24 17:35 | 04/01/24 17:35 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2259953 | 1 | 04/03/24 20:11 | 04/04/24 06:42 | JCH | Mt. Juliet, TN |

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

20240327-XTWP-(LR8-MW04) L1720332-03 GW

Collected by
Tristan Schmalz

Collected date/time
03/27/24 12:01

Received date/time
03/29/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2257770 | 1 | 04/01/24 16:16 | 04/03/24 11:52 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 1 | 04/02/24 14:57 | 04/02/24 14:57 | DLH | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 5 | 04/02/24 15:10 | 04/02/24 15:10 | DLH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2258112 | 1 | 04/01/24 17:57 | 04/01/24 17:57 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2259953 | 1 | 04/03/24 20:11 | 04/04/24 07:00 | JCH | Mt. Juliet, TN |

⁹ Sc

20240327-XTWP-(LR8-MW03) L1720332-04 GW

Collected by
Tristan Schmalz

Collected date/time
03/27/24 12:52

Received date/time
03/29/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2257770 | 1 | 04/01/24 16:16 | 04/03/24 11:52 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 1 | 04/02/24 15:23 | 04/02/24 15:23 | DLH | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 10 | 04/02/24 15:36 | 04/02/24 15:36 | DLH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2258112 | 1 | 04/01/24 18:18 | 04/01/24 18:18 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2259953 | 1 | 04/03/24 20:11 | 04/04/24 07:17 | JCH | Mt. Juliet, TN |

20240327-XTWP-(LR8-PZ04) L1720332-05 GW

Collected by
Tristan Schmalz

Collected date/time
03/27/24 13:48

Received date/time
03/29/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2257780 | 1 | 04/01/24 10:48 | 04/01/24 22:41 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 1 | 04/02/24 15:49 | 04/02/24 15:49 | DLH | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 10 | 04/02/24 16:27 | 04/02/24 16:27 | DLH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2258112 | 1 | 04/01/24 18:40 | 04/01/24 18:40 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2259953 | 1 | 04/03/24 20:11 | 04/04/24 07:35 | JCH | Mt. Juliet, TN |

SAMPLE SUMMARY

20240327-XTWP-(LR8-PZ05) L1720332-06 GW

Collected by
Tristan Schmalz

Collected date/time
03/27/24 15:04

Received date/time
03/29/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2262741 | 1 | 04/08/24 16:09 | 04/09/24 08:23 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 1 | 04/02/24 16:40 | 04/02/24 16:40 | DLH | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 10 | 04/02/24 16:53 | 04/02/24 16:53 | DLH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2258112 | 1 | 04/01/24 19:02 | 04/01/24 19:02 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2259953 | 1 | 04/03/24 20:11 | 04/04/24 07:53 | JCH | Mt. Juliet, TN |

¹ Cp

² Tc

³ Ss

⁴ Cn

20240327-XTWP-(LR8-PZ03) L1720332-07 GW

Collected by
Tristan Schmalz

Collected date/time
03/27/24 15:38

Received date/time
03/29/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2257780 | 1 | 04/01/24 10:48 | 04/01/24 22:41 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 1 | 04/02/24 17:06 | 04/02/24 17:06 | DLH | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 10 | 04/02/24 17:18 | 04/02/24 17:18 | DLH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2258112 | 1 | 04/01/24 19:23 | 04/01/24 19:23 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2259953 | 1 | 04/03/24 20:11 | 04/04/24 08:11 | JCH | Mt. Juliet, TN |

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

20240327-XTWP-(LR8-MW02) L1720332-08 GW

Collected by
Tristan Schmalz

Collected date/time
03/27/24 16:19

Received date/time
03/29/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2257780 | 1 | 04/01/24 10:48 | 04/01/24 22:41 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 10 | 04/02/24 17:44 | 04/02/24 17:44 | DLH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2258112 | 1 | 04/01/24 19:45 | 04/01/24 19:45 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2259953 | 1 | 04/03/24 20:11 | 04/04/24 08:28 | JCH | Mt. Juliet, TN |

⁹ Sc

20240327-XTWP-(LR8-MW01) L1720332-09 GW

Collected by
Tristan Schmalz

Collected date/time
03/27/24 16:59

Received date/time
03/29/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2257780 | 1 | 04/01/24 10:48 | 04/01/24 22:41 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 1 | 04/02/24 17:57 | 04/02/24 17:57 | DLH | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2261564 | 10 | 04/06/24 06:26 | 04/06/24 06:26 | GEB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2258112 | 1 | 04/01/24 20:06 | 04/01/24 20:06 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2259953 | 1 | 04/03/24 20:11 | 04/04/24 08:46 | JCH | Mt. Juliet, TN |

20240327-XTWP-(LR8-ST-PC-UG02) L1720332-10 GW

Collected by
Tristan Schmalz

Collected date/time
03/27/24 09:43

Received date/time
03/29/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2257770 | 1 | 04/01/24 16:16 | 04/03/24 11:52 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 1 | 04/02/24 18:10 | 04/02/24 18:10 | DLH | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2261564 | 10 | 04/06/24 06:41 | 04/06/24 06:41 | GEB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2258112 | 1 | 04/01/24 20:28 | 04/01/24 20:28 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2259953 | 1 | 04/03/24 20:11 | 04/04/24 09:04 | JCH | Mt. Juliet, TN |

SAMPLE SUMMARY

20240327-XTWP-(LR8-ST-PC-POR) L1720332-11 GW

Collected by Tristan Schmalz
Collected date/time 03/27/24 09:59
Received date/time 03/29/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2257770 | 1 | 04/01/24 16:16 | 04/03/24 11:52 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 1 | 04/02/24 18:22 | 04/02/24 18:22 | DLH | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2261564 | 10 | 04/06/24 06:56 | 04/06/24 06:56 | GEB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2258112 | 1 | 04/01/24 20:49 | 04/01/24 20:49 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2259953 | 1 | 04/03/24 20:11 | 04/04/24 09:22 | JCH | Mt. Juliet, TN |

¹ Cp

² Tc

³ Ss

⁴ Cn

20240327-XTWP-(LR8-ST-PC-DG14) L1720332-12 GW

Collected by Tristan Schmalz
Collected date/time 03/27/24 10:22
Received date/time 03/29/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2257780 | 1 | 04/01/24 10:48 | 04/01/24 22:41 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 1 | 04/02/24 19:01 | 04/02/24 19:01 | DLH | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2261564 | 10 | 04/06/24 07:10 | 04/06/24 07:10 | GEB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2258112 | 1 | 04/01/24 21:11 | 04/01/24 21:11 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2259953 | 1 | 04/03/24 20:11 | 04/04/24 09:46 | DSH | Mt. Juliet, TN |

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

20240327-XTWP-(LR8-ST-PC-DG13) L1720332-13 GW

Collected by Tristan Schmalz
Collected date/time 03/27/24 10:29
Received date/time 03/29/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2257780 | 1 | 04/01/24 10:48 | 04/01/24 22:41 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 1 | 04/02/24 19:14 | 04/02/24 19:14 | DLH | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2261564 | 10 | 04/06/24 07:25 | 04/06/24 07:25 | GEB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2258112 | 1 | 04/01/24 21:32 | 04/01/24 21:32 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2259953 | 1 | 04/03/24 20:11 | 04/04/24 10:04 | DSH | Mt. Juliet, TN |

⁹ Sc

20240327-XTWP-(LR8-ST-PC-DG12) L1720332-14 GW

Collected by Tristan Schmalz
Collected date/time 03/27/24 10:41
Received date/time 03/29/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2257780 | 1 | 04/01/24 10:48 | 04/01/24 22:41 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 1 | 04/02/24 19:26 | 04/02/24 19:26 | DLH | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2261564 | 10 | 04/06/24 08:10 | 04/06/24 08:10 | GEB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2258112 | 1 | 04/01/24 21:54 | 04/01/24 21:54 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2259953 | 1 | 04/03/24 20:11 | 04/04/24 10:22 | DSH | Mt. Juliet, TN |

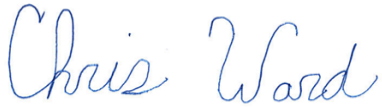
20240327-XTWP-(LR8-ST-PC-DG11) L1720332-15 GW

Collected by Tristan Schmalz
Collected date/time 03/27/24 14:25
Received date/time 03/29/24 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Gravimetric Analysis by Method 2540 C-2011 | WG2257782 | 1 | 04/01/24 11:49 | 04/01/24 18:40 | MMF | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2258451 | 1 | 04/02/24 19:39 | 04/02/24 19:39 | DLH | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2261564 | 10 | 04/06/24 08:25 | 04/06/24 08:25 | GEB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2258112 | 1 | 04/01/24 22:15 | 04/01/24 22:15 | DYW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG2259953 | 1 | 04/03/24 20:11 | 04/04/24 10:40 | DSH | Mt. Juliet, TN |

CASE NARRATIVE

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



Chris Ward
Project Manager



Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 1440 | | 25.0 | 1 | 04/03/2024 11:52 | WG2257770 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 37.8 | | 1.00 | 1 | 04/02/2024 14:06 | WG2258451 |
| Sulfate | 609 | | 50.0 | 10 | 04/02/2024 14:19 | WG2258451 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 04/01/2024 16:52 | WG2258112 |
| Toluene | ND | | 0.00100 | 1 | 04/01/2024 16:52 | WG2258112 |
| Ethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 16:52 | WG2258112 |
| Xylenes, Total | ND | | 0.00300 | 1 | 04/01/2024 16:52 | WG2258112 |
| Naphthalene | ND | | 0.00500 | 1 | 04/01/2024 16:52 | WG2258112 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 16:52 | WG2258112 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 16:52 | WG2258112 |
| (S) Toluene-d8 | 96.1 | | 80.0-120 | | 04/01/2024 16:52 | WG2258112 |
| (S) 4-Bromofluorobenzene | 92.9 | | 77.0-126 | | 04/01/2024 16:52 | WG2258112 |
| (S) 1,2-Dichloroethane-d4 | 121 | | 70.0-130 | | 04/01/2024 16:52 | WG2258112 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 06:24 | WG2259953 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 06:24 | WG2259953 |
| (S) Nitrobenzene-d5 | 106 | | 31.0-160 | | 04/04/2024 06:24 | WG2259953 |
| (S) 2-Fluorobiphenyl | 110 | | 48.0-148 | | 04/04/2024 06:24 | WG2259953 |
| (S) p-Terphenyl-d14 | 114 | | 37.0-146 | | 04/04/2024 06:24 | WG2259953 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 1830 | | 50.0 | 1 | 04/01/2024 22:41 | WG2257780 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 43.5 | | 1.00 | 1 | 04/02/2024 14:32 | WG2258451 |
| Sulfate | 767 | | 50.0 | 10 | 04/02/2024 14:45 | WG2258451 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 04/01/2024 17:35 | WG2258112 |
| Toluene | ND | | 0.00100 | 1 | 04/01/2024 17:35 | WG2258112 |
| Ethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 17:35 | WG2258112 |
| Xylenes, Total | ND | | 0.00300 | 1 | 04/01/2024 17:35 | WG2258112 |
| Naphthalene | ND | | 0.00500 | 1 | 04/01/2024 17:35 | WG2258112 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 17:35 | WG2258112 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 17:35 | WG2258112 |
| (S) Toluene-d8 | 95.2 | | 80.0-120 | | 04/01/2024 17:35 | WG2258112 |
| (S) 4-Bromofluorobenzene | 94.5 | | 77.0-126 | | 04/01/2024 17:35 | WG2258112 |
| (S) 1,2-Dichloroethane-d4 | 124 | | 70.0-130 | | 04/01/2024 17:35 | WG2258112 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 06:42 | WG2259953 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 06:42 | WG2259953 |
| (S) Nitrobenzene-d5 | 102 | | 31.0-160 | | 04/04/2024 06:42 | WG2259953 |
| (S) 2-Fluorobiphenyl | 104 | | 48.0-148 | | 04/04/2024 06:42 | WG2259953 |
| (S) p-Terphenyl-d14 | 108 | | 37.0-146 | | 04/04/2024 06:42 | WG2259953 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 1190 | | 20.0 | 1 | 04/03/2024 11:52 | WG2257770 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 30.5 | | 1.00 | 1 | 04/02/2024 14:57 | WG2258451 |
| Sulfate | 458 | | 25.0 | 5 | 04/02/2024 15:10 | WG2258451 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 04/01/2024 17:57 | WG2258112 |
| Toluene | ND | | 0.00100 | 1 | 04/01/2024 17:57 | WG2258112 |
| Ethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 17:57 | WG2258112 |
| Xylenes, Total | ND | | 0.00300 | 1 | 04/01/2024 17:57 | WG2258112 |
| Naphthalene | ND | | 0.00500 | 1 | 04/01/2024 17:57 | WG2258112 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 17:57 | WG2258112 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 17:57 | WG2258112 |
| (S) Toluene-d8 | 96.4 | | 80.0-120 | | 04/01/2024 17:57 | WG2258112 |
| (S) 4-Bromofluorobenzene | 94.0 | | 77.0-126 | | 04/01/2024 17:57 | WG2258112 |
| (S) 1,2-Dichloroethane-d4 | 124 | | 70.0-130 | | 04/01/2024 17:57 | WG2258112 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 07:00 | WG2259953 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 07:00 | WG2259953 |
| (S) Nitrobenzene-d5 | 102 | | 31.0-160 | | 04/04/2024 07:00 | WG2259953 |
| (S) 2-Fluorobiphenyl | 106 | | 48.0-148 | | 04/04/2024 07:00 | WG2259953 |
| (S) p-Terphenyl-d14 | 110 | | 37.0-146 | | 04/04/2024 07:00 | WG2259953 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 1490 | | 25.0 | 1 | 04/03/2024 11:52 | WG2257770 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 75.1 | | 1.00 | 1 | 04/02/2024 15:23 | WG2258451 |
| Sulfate | 717 | | 50.0 | 10 | 04/02/2024 15:36 | WG2258451 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 04/01/2024 18:18 | WG2258112 |
| Toluene | ND | | 0.00100 | 1 | 04/01/2024 18:18 | WG2258112 |
| Ethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 18:18 | WG2258112 |
| Xylenes, Total | ND | | 0.00300 | 1 | 04/01/2024 18:18 | WG2258112 |
| Naphthalene | ND | | 0.00500 | 1 | 04/01/2024 18:18 | WG2258112 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 18:18 | WG2258112 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 18:18 | WG2258112 |
| (S) Toluene-d8 | 96.6 | | 80.0-120 | | 04/01/2024 18:18 | WG2258112 |
| (S) 4-Bromofluorobenzene | 94.2 | | 77.0-126 | | 04/01/2024 18:18 | WG2258112 |
| (S) 1,2-Dichloroethane-d4 | 122 | | 70.0-130 | | 04/01/2024 18:18 | WG2258112 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 07:17 | WG2259953 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 07:17 | WG2259953 |
| (S) Nitrobenzene-d5 | 101 | | 31.0-160 | | 04/04/2024 07:17 | WG2259953 |
| (S) 2-Fluorobiphenyl | 106 | | 48.0-148 | | 04/04/2024 07:17 | WG2259953 |
| (S) p-Terphenyl-d14 | 111 | | 37.0-146 | | 04/04/2024 07:17 | WG2259953 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 1750 | | 50.0 | 1 | 04/01/2024 22:41 | WG2257780 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 70.0 | | 1.00 | 1 | 04/02/2024 15:49 | WG2258451 |
| Sulfate | 642 | | 50.0 | 10 | 04/02/2024 16:27 | WG2258451 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|---------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | 0.00140 | | 0.00100 | 1 | 04/01/2024 18:40 | WG2258112 |
| Toluene | ND | | 0.00100 | 1 | 04/01/2024 18:40 | WG2258112 |
| Ethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 18:40 | WG2258112 |
| Xylenes, Total | ND | | 0.00300 | 1 | 04/01/2024 18:40 | WG2258112 |
| Naphthalene | ND | | 0.00500 | 1 | 04/01/2024 18:40 | WG2258112 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 18:40 | WG2258112 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 18:40 | WG2258112 |
| (S) Toluene-d8 | 93.9 | | 80.0-120 | | 04/01/2024 18:40 | WG2258112 |
| (S) 4-Bromofluorobenzene | 92.4 | | 77.0-126 | | 04/01/2024 18:40 | WG2258112 |
| (S) 1,2-Dichloroethane-d4 | 127 | | 70.0-130 | | 04/01/2024 18:40 | WG2258112 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 07:35 | WG2259953 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 07:35 | WG2259953 |
| (S) Nitrobenzene-d5 | 103 | | 31.0-160 | | 04/04/2024 07:35 | WG2259953 |
| (S) 2-Fluorobiphenyl | 101 | | 48.0-148 | | 04/04/2024 07:35 | WG2259953 |
| (S) p-Terphenyl-d14 | 110 | | 37.0-146 | | 04/04/2024 07:35 | WG2259953 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|-----------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 1640 | Q | 50.0 | 1 | 04/09/2024 08:23 | WG2262741 |

Sample Narrative:

L1720332-06 WG2262741: Sample rerun due to conductivity and TDS measurement mismatch with in hold run

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|-----------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 95.0 | | 1.00 | 1 | 04/02/2024 16:40 | WG2258451 |
| Sulfate | 657 | | 50.0 | 10 | 04/02/2024 16:53 | WG2258451 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|----------|----------|------------------|-----------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 04/01/2024 19:02 | WG2258112 |
| Toluene | ND | | 0.00100 | 1 | 04/01/2024 19:02 | WG2258112 |
| Ethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 19:02 | WG2258112 |
| Xylenes, Total | ND | | 0.00300 | 1 | 04/01/2024 19:02 | WG2258112 |
| Naphthalene | ND | | 0.00500 | 1 | 04/01/2024 19:02 | WG2258112 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 19:02 | WG2258112 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 19:02 | WG2258112 |
| (S) Toluene-d8 | 95.1 | | 80.0-120 | | 04/01/2024 19:02 | WG2258112 |
| (S) 4-Bromofluorobenzene | 92.4 | | 77.0-126 | | 04/01/2024 19:02 | WG2258112 |
| (S) 1,2-Dichloroethane-d4 | 129 | | 70.0-130 | | 04/01/2024 19:02 | WG2258112 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|-----------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 07:53 | WG2259953 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 07:53 | WG2259953 |
| (S) Nitrobenzene-d5 | 106 | | 31.0-160 | | 04/04/2024 07:53 | WG2259953 |
| (S) 2-Fluorobiphenyl | 108 | | 48.0-148 | | 04/04/2024 07:53 | WG2259953 |
| (S) p-Terphenyl-d14 | 112 | | 37.0-146 | | 04/04/2024 07:53 | WG2259953 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 1830 | | 50.0 | 1 | 04/01/2024 22:41 | WG2257780 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 93.0 | | 1.00 | 1 | 04/02/2024 17:06 | WG2258451 |
| Sulfate | 754 | | 50.0 | 10 | 04/02/2024 17:18 | WG2258451 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 04/01/2024 19:23 | WG2258112 |
| Toluene | ND | | 0.00100 | 1 | 04/01/2024 19:23 | WG2258112 |
| Ethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 19:23 | WG2258112 |
| Xylenes, Total | ND | | 0.00300 | 1 | 04/01/2024 19:23 | WG2258112 |
| Naphthalene | ND | | 0.00500 | 1 | 04/01/2024 19:23 | WG2258112 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 19:23 | WG2258112 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 19:23 | WG2258112 |
| (S) Toluene-d8 | 95.8 | | 80.0-120 | | 04/01/2024 19:23 | WG2258112 |
| (S) 4-Bromofluorobenzene | 91.8 | | 77.0-126 | | 04/01/2024 19:23 | WG2258112 |
| (S) 1,2-Dichloroethane-d4 | 127 | | 70.0-130 | | 04/01/2024 19:23 | WG2258112 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 08:11 | WG2259953 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 08:11 | WG2259953 |
| (S) Nitrobenzene-d5 | 103 | | 31.0-160 | | 04/04/2024 08:11 | WG2259953 |
| (S) 2-Fluorobiphenyl | 108 | | 48.0-148 | | 04/04/2024 08:11 | WG2259953 |
| (S) p-Terphenyl-d14 | 112 | | 37.0-146 | | 04/04/2024 08:11 | WG2259953 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 2530 | | 50.0 | 1 | 04/01/2024 22:41 | WG2257780 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 192 | | 10.0 | 10 | 04/02/2024 17:44 | WG2258451 |
| Sulfate | 1070 | | 50.0 | 10 | 04/02/2024 17:44 | WG2258451 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 04/01/2024 19:45 | WG2258112 |
| Toluene | ND | | 0.00100 | 1 | 04/01/2024 19:45 | WG2258112 |
| Ethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 19:45 | WG2258112 |
| Xylenes, Total | ND | | 0.00300 | 1 | 04/01/2024 19:45 | WG2258112 |
| Naphthalene | ND | | 0.00500 | 1 | 04/01/2024 19:45 | WG2258112 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 19:45 | WG2258112 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 19:45 | WG2258112 |
| (S) Toluene-d8 | 93.8 | | 80.0-120 | | 04/01/2024 19:45 | WG2258112 |
| (S) 4-Bromofluorobenzene | 94.3 | | 77.0-126 | | 04/01/2024 19:45 | WG2258112 |
| (S) 1,2-Dichloroethane-d4 | 128 | | 70.0-130 | | 04/01/2024 19:45 | WG2258112 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 08:28 | WG2259953 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 08:28 | WG2259953 |
| (S) Nitrobenzene-d5 | 104 | | 31.0-160 | | 04/04/2024 08:28 | WG2259953 |
| (S) 2-Fluorobiphenyl | 108 | | 48.0-148 | | 04/04/2024 08:28 | WG2259953 |
| (S) p-Terphenyl-d14 | 111 | | 37.0-146 | | 04/04/2024 08:28 | WG2259953 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 1400 | | 25.0 | 1 | 04/01/2024 22:41 | WG2257780 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 31.9 | | 1.00 | 1 | 04/02/2024 17:57 | WG2258451 |
| Sulfate | 363 | | 50.0 | 10 | 04/06/2024 06:26 | WG2261564 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|--------------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 04/01/2024 20:06 | WG2258112 |
| Toluene | ND | | 0.00100 | 1 | 04/01/2024 20:06 | WG2258112 |
| Ethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 20:06 | WG2258112 |
| Xylenes, Total | ND | | 0.00300 | 1 | 04/01/2024 20:06 | WG2258112 |
| Naphthalene | ND | | 0.00500 | 1 | 04/01/2024 20:06 | WG2258112 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 20:06 | WG2258112 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 20:06 | WG2258112 |
| (S) Toluene-d8 | 92.5 | | 80.0-120 | | 04/01/2024 20:06 | WG2258112 |
| (S) 4-Bromofluorobenzene | 90.8 | | 77.0-126 | | 04/01/2024 20:06 | WG2258112 |
| (S) 1,2-Dichloroethane-d4 | 131 | J1 | 70.0-130 | | 04/01/2024 20:06 | WG2258112 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 08:46 | WG2259953 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 08:46 | WG2259953 |
| (S) Nitrobenzene-d5 | 105 | | 31.0-160 | | 04/04/2024 08:46 | WG2259953 |
| (S) 2-Fluorobiphenyl | 107 | | 48.0-148 | | 04/04/2024 08:46 | WG2259953 |
| (S) p-Terphenyl-d14 | 108 | | 37.0-146 | | 04/04/2024 08:46 | WG2259953 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 840 | | 20.0 | 1 | 04/03/2024 11:52 | WG2257770 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 14.8 | | 1.00 | 1 | 04/02/2024 18:10 | WG2258451 |
| Sulfate | 346 | | 50.0 | 10 | 04/06/2024 06:41 | WG2261564 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 04/01/2024 20:28 | WG2258112 |
| Toluene | ND | | 0.00100 | 1 | 04/01/2024 20:28 | WG2258112 |
| Ethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 20:28 | WG2258112 |
| Xylenes, Total | ND | | 0.00300 | 1 | 04/01/2024 20:28 | WG2258112 |
| Naphthalene | ND | | 0.00500 | 1 | 04/01/2024 20:28 | WG2258112 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 20:28 | WG2258112 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 20:28 | WG2258112 |
| (S) Toluene-d8 | 95.6 | | 80.0-120 | | 04/01/2024 20:28 | WG2258112 |
| (S) 4-Bromofluorobenzene | 91.1 | | 77.0-126 | | 04/01/2024 20:28 | WG2258112 |
| (S) 1,2-Dichloroethane-d4 | 129 | | 70.0-130 | | 04/01/2024 20:28 | WG2258112 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 09:04 | WG2259953 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 09:04 | WG2259953 |
| (S) Nitrobenzene-d5 | 105 | | 31.0-160 | | 04/04/2024 09:04 | WG2259953 |
| (S) 2-Fluorobiphenyl | 105 | | 48.0-148 | | 04/04/2024 09:04 | WG2259953 |
| (S) p-Terphenyl-d14 | 111 | | 37.0-146 | | 04/04/2024 09:04 | WG2259953 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 876 | | 20.0 | 1 | 04/03/2024 11:52 | WG2257770 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 14.7 | | 1.00 | 1 | 04/02/2024 18:22 | WG2258451 |
| Sulfate | 342 | | 50.0 | 10 | 04/06/2024 06:56 | WG2261564 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|--------------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 04/01/2024 20:49 | WG2258112 |
| Toluene | ND | | 0.00100 | 1 | 04/01/2024 20:49 | WG2258112 |
| Ethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 20:49 | WG2258112 |
| Xylenes, Total | ND | | 0.00300 | 1 | 04/01/2024 20:49 | WG2258112 |
| Naphthalene | ND | | 0.00500 | 1 | 04/01/2024 20:49 | WG2258112 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 20:49 | WG2258112 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 20:49 | WG2258112 |
| (S) Toluene-d8 | 94.7 | | 80.0-120 | | 04/01/2024 20:49 | WG2258112 |
| (S) 4-Bromofluorobenzene | 94.0 | | 77.0-126 | | 04/01/2024 20:49 | WG2258112 |
| (S) 1,2-Dichloroethane-d4 | 132 | J1 | 70.0-130 | | 04/01/2024 20:49 | WG2258112 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 09:22 | WG2259953 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 09:22 | WG2259953 |
| (S) Nitrobenzene-d5 | 109 | | 31.0-160 | | 04/04/2024 09:22 | WG2259953 |
| (S) 2-Fluorobiphenyl | 109 | | 48.0-148 | | 04/04/2024 09:22 | WG2259953 |
| (S) p-Terphenyl-d14 | 113 | | 37.0-146 | | 04/04/2024 09:22 | WG2259953 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| Analyte | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 950 | | 20.0 | 1 | 04/01/2024 22:41 | WG2257780 |

Wet Chemistry by Method 9056A

| | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| Analyte | mg/l | | mg/l | | date / time | |
| Chloride | 14.7 | | 1.00 | 1 | 04/02/2024 19:01 | WG2258451 |
| Sulfate | 339 | | 50.0 | 10 | 04/06/2024 07:10 | WG2261564 |

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

| | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|---------|-----------|----------|----------|------------------|---------------------------|
| Analyte | mg/l | | mg/l | | date / time | |
| Benzene | 0.00109 | | 0.00100 | 1 | 04/01/2024 21:11 | WG2258112 |
| Toluene | ND | | 0.00100 | 1 | 04/01/2024 21:11 | WG2258112 |
| Ethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 21:11 | WG2258112 |
| Xylenes, Total | ND | | 0.00300 | 1 | 04/01/2024 21:11 | WG2258112 |
| Naphthalene | ND | | 0.00500 | 1 | 04/01/2024 21:11 | WG2258112 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 21:11 | WG2258112 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 21:11 | WG2258112 |
| (S) Toluene-d8 | 94.0 | | 80.0-120 | | 04/01/2024 21:11 | WG2258112 |
| (S) 4-Bromofluorobenzene | 91.4 | | 77.0-126 | | 04/01/2024 21:11 | WG2258112 |
| (S) 1,2-Dichloroethane-d4 | 130 | | 70.0-130 | | 04/01/2024 21:11 | WG2258112 |

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

| | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|---------------------------|
| Analyte | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 09:46 | WG2259953 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 09:46 | WG2259953 |
| (S) Nitrobenzene-d5 | 122 | | 31.0-160 | | 04/04/2024 09:46 | WG2259953 |
| (S) 2-Fluorobiphenyl | 102 | | 48.0-148 | | 04/04/2024 09:46 | WG2259953 |
| (S) p-Terphenyl-d14 | 104 | | 37.0-146 | | 04/04/2024 09:46 | WG2259953 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 918 | | 20.0 | 1 | 04/01/2024 22:41 | WG2257780 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 14.8 | | 1.00 | 1 | 04/02/2024 19:14 | WG2258451 |
| Sulfate | 337 | | 50.0 | 10 | 04/06/2024 07:25 | WG2261564 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|--------------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 04/01/2024 21:32 | WG2258112 |
| Toluene | ND | | 0.00100 | 1 | 04/01/2024 21:32 | WG2258112 |
| Ethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 21:32 | WG2258112 |
| Xylenes, Total | ND | | 0.00300 | 1 | 04/01/2024 21:32 | WG2258112 |
| Naphthalene | ND | | 0.00500 | 1 | 04/01/2024 21:32 | WG2258112 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 21:32 | WG2258112 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 21:32 | WG2258112 |
| (S) Toluene-d8 | 93.5 | | 80.0-120 | | 04/01/2024 21:32 | WG2258112 |
| (S) 4-Bromofluorobenzene | 92.4 | | 77.0-126 | | 04/01/2024 21:32 | WG2258112 |
| (S) 1,2-Dichloroethane-d4 | 132 | J1 | 70.0-130 | | 04/01/2024 21:32 | WG2258112 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 10:04 | WG2259953 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 10:04 | WG2259953 |
| (S) Nitrobenzene-d5 | 121 | | 31.0-160 | | 04/04/2024 10:04 | WG2259953 |
| (S) 2-Fluorobiphenyl | 102 | | 48.0-148 | | 04/04/2024 10:04 | WG2259953 |
| (S) p-Terphenyl-d14 | 103 | | 37.0-146 | | 04/04/2024 10:04 | WG2259953 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 910 | | 20.0 | 1 | 04/01/2024 22:41 | WG2257780 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 15.0 | | 1.00 | 1 | 04/02/2024 19:26 | WG2258451 |
| Sulfate | 336 | | 50.0 | 10 | 04/06/2024 08:10 | WG2261564 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|--------------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 04/01/2024 21:54 | WG2258112 |
| Toluene | ND | | 0.00100 | 1 | 04/01/2024 21:54 | WG2258112 |
| Ethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 21:54 | WG2258112 |
| Xylenes, Total | ND | | 0.00300 | 1 | 04/01/2024 21:54 | WG2258112 |
| Naphthalene | ND | | 0.00500 | 1 | 04/01/2024 21:54 | WG2258112 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 21:54 | WG2258112 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 21:54 | WG2258112 |
| (S) Toluene-d8 | 94.9 | | 80.0-120 | | 04/01/2024 21:54 | WG2258112 |
| (S) 4-Bromofluorobenzene | 90.8 | | 77.0-126 | | 04/01/2024 21:54 | WG2258112 |
| (S) 1,2-Dichloroethane-d4 | 135 | J1 | 70.0-130 | | 04/01/2024 21:54 | WG2258112 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 10:22 | WG2259953 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 10:22 | WG2259953 |
| (S) Nitrobenzene-d5 | 117 | | 31.0-160 | | 04/04/2024 10:22 | WG2259953 |
| (S) 2-Fluorobiphenyl | 98.9 | | 48.0-148 | | 04/04/2024 10:22 | WG2259953 |
| (S) p-Terphenyl-d14 | 101 | | 37.0-146 | | 04/04/2024 10:22 | WG2259953 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|------------------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 920 | | 20.0 | 1 | 04/01/2024 18:40 | WG2257782 |

Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------|--------|-----------|------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Chloride | 15.4 | | 1.00 | 1 | 04/02/2024 19:39 | WG2258451 |
| Sulfate | 342 | | 50.0 | 10 | 04/06/2024 08:25 | WG2261564 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------------|--------|--------------------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| Benzene | ND | | 0.00100 | 1 | 04/01/2024 22:15 | WG2258112 |
| Toluene | ND | | 0.00100 | 1 | 04/01/2024 22:15 | WG2258112 |
| Ethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 22:15 | WG2258112 |
| Xylenes, Total | ND | | 0.00300 | 1 | 04/01/2024 22:15 | WG2258112 |
| Naphthalene | ND | | 0.00500 | 1 | 04/01/2024 22:15 | WG2258112 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 22:15 | WG2258112 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 04/01/2024 22:15 | WG2258112 |
| (S) Toluene-d8 | 92.4 | | 80.0-120 | | 04/01/2024 22:15 | WG2258112 |
| (S) 4-Bromofluorobenzene | 92.1 | | 77.0-126 | | 04/01/2024 22:15 | WG2258112 |
| (S) 1,2-Dichloroethane-d4 | 133 | J1 | 70.0-130 | | 04/01/2024 22:15 | WG2258112 |

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

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|----------|----------|------------------|---------------------------|
| | mg/l | | mg/l | | date / time | |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 10:40 | WG2259953 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 04/04/2024 10:40 | WG2259953 |
| (S) Nitrobenzene-d5 | 117 | | 31.0-160 | | 04/04/2024 10:40 | WG2259953 |
| (S) 2-Fluorobiphenyl | 99.5 | | 48.0-148 | | 04/04/2024 10:40 | WG2259953 |
| (S) p-Terphenyl-d14 | 101 | | 37.0-146 | | 04/04/2024 10:40 | WG2259953 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4053914-1 04/03/24 11:52

| | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------------|-----------|--------------|--------|--------|
| Analyte | mg/l | | mg/l | mg/l |
| Dissolved Solids | U | | 10.0 | 10.0 |

L1719531-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1719531-04 04/03/24 11:52 • (DUP) R4053914-3 04/03/24 11:52

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/l | mg/l | | % | | % |
| Dissolved Solids | 945 | 984 | 1 | 4.01 | | 10 |

L1719531-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1719531-05 04/03/24 11:52 • (DUP) R4053914-4 04/03/24 11:52

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/l | mg/l | | % | | % |
| Dissolved Solids | 545 | 562 | 1 | 3.07 | | 10 |

Laboratory Control Sample (LCS)

(LCS) R4053914-2 04/03/24 11:52

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/l | mg/l | % | % | |
| Dissolved Solids | 8800 | 8640 | 98.2 | 85.0-115 | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4053467-1 04/01/24 22:41

| | MB Result | <u>MB Qualifier</u> | MB MDL | MB RDL |
|------------------|-----------|---------------------|--------|--------|
| Analyte | mg/l | | mg/l | mg/l |
| Dissolved Solids | U | | 10.0 | 10.0 |

L1719465-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1719465-02 04/01/24 22:41 • (DUP) R4053467-3 04/01/24 22:41

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|------------------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | mg/l | mg/l | | % | | % |
| Dissolved Solids | 505 | 529 | 1 | 4.64 | | 10 |

L1719531-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1719531-08 04/01/24 22:41 • (DUP) R4053467-4 04/01/24 22:41

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|------------------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | mg/l | mg/l | | % | | % |
| Dissolved Solids | 1150 | 1160 | 1 | 0.692 | | 10 |

Laboratory Control Sample (LCS)

(LCS) R4053467-2 04/01/24 22:41

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | <u>LCS Qualifier</u> |
|------------------|--------------|------------|----------|-------------|----------------------|
| Analyte | mg/l | mg/l | % | % | |
| Dissolved Solids | 8800 | 8810 | 100 | 85.0-115 | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4053968-1 04/01/24 18:40

| | MB Result | <u>MB Qualifier</u> | MB MDL | MB RDL |
|------------------|-----------|---------------------|--------|--------|
| Analyte | mg/l | | mg/l | mg/l |
| Dissolved Solids | U | | 10.0 | 10.0 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1720245-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1720245-01 04/01/24 18:40 • (DUP) R4053968-3 04/01/24 18:40

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|------------------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | mg/l | mg/l | | % | | % |
| Dissolved Solids | 360 | 364 | 1 | 1.10 | | 10 |

L1720245-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1720245-02 04/01/24 18:40 • (DUP) R4053968-4 04/01/24 18:40

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|------------------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | mg/l | mg/l | | % | | % |
| Dissolved Solids | 632 | 652 | 1 | 3.12 | | 10 |

Laboratory Control Sample (LCS)

(LCS) R4053968-2 04/01/24 18:40

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | <u>LCS Qualifier</u> |
|------------------|--------------|------------|----------|-------------|----------------------|
| Analyte | mg/l | mg/l | % | % | |
| Dissolved Solids | 8800 | 8490 | 96.5 | 85.0-115 | |

Method Blank (MB)

(MB) R4056224-1 04/09/24 08:23

| | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------------|-----------|--------------|--------|--------|
| Analyte | mg/l | | mg/l | mg/l |
| Dissolved Solids | U | | 10.0 | 10.0 |

L1720682-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1720682-07 04/09/24 08:23 • (DUP) R4056224-3 04/09/24 08:23

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/l | mg/l | | % | | % |
| Dissolved Solids | 932 | 956 | 1 | 2.54 | | 10 |

Sample Narrative:

OS: reran due to conductivity and TDS measurement mismatch.

Laboratory Control Sample (LCS)

(LCS) R4056224-2 04/09/24 08:23

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/l | mg/l | % | % | |
| Dissolved Solids | 8800 | 8730 | 99.2 | 85.0-115 | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4054382-1 04/02/24 09:21

| | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------|-----------|--------------|--------|--------|
| Analyte | mg/l | | mg/l | mg/l |
| Chloride | U | | 0.379 | 1.00 |
| Sulfate | U | | 0.594 | 5.00 |

L1720134-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1720134-22 04/02/24 12:24 • (DUP) R4054382-3 04/02/24 12:36

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/l | mg/l | | % | | % |
| Chloride | 198 | 193 | 5 | 2.54 | | 15 |
| Sulfate | 511 | 493 | 5 | 3.61 | | 15 |

L1720332-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1720332-15 04/02/24 19:39 • (DUP) R4054382-6 04/02/24 19:52

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/l | mg/l | | % | | % |
| Chloride | 15.4 | 14.8 | 1 | 3.83 | | 15 |

Laboratory Control Sample (LCS)

(LCS) R4054382-2 04/02/24 09:34

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/l | mg/l | % | % | |
| Chloride | 40.0 | 38.7 | 96.8 | 80.0-120 | |
| Sulfate | 40.0 | 35.9 | 89.8 | 80.0-120 | |

L1720134-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1720134-22 04/02/24 12:24 • (MS) R4054382-4 04/02/24 12:49 • (MSD) R4054382-5 04/02/24 13:02

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|----------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Analyte | mg/l | mg/l | mg/l | mg/l | % | % | | % | | | % | % |
| Chloride | 40.0 | 198 | 205 | 199 | 15.5 | 2.53 | 5 | 80.0-120 | V | V | 2.56 | 15 |
| Sulfate | 40.0 | 511 | 497 | 480 | 0.000 | 0.000 | 5 | 80.0-120 | V | V | 3.40 | 15 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1720332-15 Original Sample (OS) • Matrix Spike (MS)

(OS) L1720332-15 04/02/24 19:39 • (MS) R4054382-7 04/02/24 20:05

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MS Rec. % | Dilution | Rec. Limits % | <u>MS Qualifier</u> |
|----------|----------------------|-------------------------|-------------------|--------------|----------|------------------|---------------------|
| Chloride | 40.0 | 15.4 | 53.2 | 94.4 | 1 | 80.0-120 | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4054719-1 04/05/24 23:09

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---------|-------------------|--------------|----------------|----------------|
| Sulfate | U | | 0.594 | 5.00 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1722270-26 Original Sample (OS) • Duplicate (DUP)

(OS) L1722270-26 04/05/24 23:58 • (DUP) R4054719-3 04/06/24 00:13

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---------|-------------------------|--------------------|----------|--------------|---------------|------------------------|
| Sulfate | ND | ND | 1 | 0.272 | | 15 |

L1719218-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1719218-01 04/06/24 04:11 • (DUP) R4054719-5 04/06/24 04:26

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---------|-------------------------|--------------------|----------|--------------|---------------|------------------------|
| Sulfate | 7.14 | 7.12 | 1 | 0.244 | | 15 |

Sample Narrative:

OS: NO3 out of hold but QC passing.

Laboratory Control Sample (LCS)

(LCS) R4054719-2 04/05/24 23:23

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---------|----------------------|--------------------|---------------|------------------|---------------|
| Sulfate | 40.0 | 42.1 | 105 | 80.0-120 | |

L1722270-26 Original Sample (OS) • Matrix Spike (MS)

(OS) L1722270-26 04/05/24 23:58 • (MS) R4054719-4 04/06/24 00:28

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MS Rec. % | Dilution | Rec. Limits % | MS Qualifier |
|---------|----------------------|-------------------------|-------------------|--------------|----------|------------------|--------------|
| Sulfate | 40.0 | | 40.1 | 93.1 | 1 | 80.0-120 | |

Sample Narrative:

MS: CL/NO3 spike failed due to sample matrix

L1719218-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1719218-01 04/06/24 04:11 • (MS) R4054719-6 04/06/24 05:11 • (MSD) R4054719-7 04/06/24 05:26

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | <u>MS Qualifier</u> | <u>MSD Qualifier</u> | RPD % | RPD Limits % |
|---------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|---------------------|----------------------|----------|-----------------|
| Sulfate | 40.0 | 7.14 | 46.3 | 46.1 | 97.8 | 97.5 | 1 | 80.0-120 | | | 0.289 | 15 |

Sample Narrative:
OS: NO3 out of hold but QC passing.

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4052397-2 04/01/24 15:52

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---------------------------|-------------------|--------------|----------------|----------------|
| Benzene | U | | 0.0000941 | 0.00100 |
| Toluene | U | | 0.000278 | 0.00100 |
| Ethylbenzene | U | | 0.000137 | 0.00100 |
| Xylenes, Total | U | | 0.000174 | 0.00300 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| 1,2,4-Trimethylbenzene | U | | 0.000322 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000104 | 0.00100 |
| (S) Toluene-d8 | 94.4 | | | 80.0-120 |
| (S) 4-Bromofluorobenzene | 95.8 | | | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 119 | | | 70.0-130 |

Laboratory Control Sample (LCS)

(LCS) R4052397-1 04/01/24 15:31

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Benzene | 0.00500 | 0.00509 | 102 | 70.0-123 | |
| Toluene | 0.00500 | 0.00436 | 87.2 | 79.0-120 | |
| Ethylbenzene | 0.00500 | 0.00421 | 84.2 | 79.0-123 | |
| Xylenes, Total | 0.0150 | 0.0134 | 89.3 | 79.0-123 | |
| Naphthalene | 0.00500 | 0.00409 | 81.8 | 54.0-135 | |
| 1,2,4-Trimethylbenzene | 0.00500 | 0.00509 | 102 | 76.0-121 | |
| 1,3,5-Trimethylbenzene | 0.00500 | 0.00526 | 105 | 76.0-122 | |
| (S) Toluene-d8 | | | 92.6 | 80.0-120 | |
| (S) 4-Bromofluorobenzene | | | 91.3 | 77.0-126 | |
| (S) 1,2-Dichloroethane-d4 | | | 121 | 70.0-130 | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4053610-3 04/04/24 02:38

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|----------------------|-------------------|--------------|----------------|----------------|
| 1-Methylnaphthalene | U | | 0.0000687 | 0.000250 |
| 2-Methylnaphthalene | U | | 0.0000674 | 0.000250 |
| (S) Nitrobenzene-d5 | 120 | | | 31.0-160 |
| (S) 2-Fluorobiphenyl | 98.5 | | | 48.0-148 |
| (S) p-Terphenyl-d14 | 100 | | | 37.0-146 |

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

(LCS) R4053610-1 04/04/24 02:02 • (LCSD) R4053610-2 04/04/24 02:20

| 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 % |
|----------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| 1-Methylnaphthalene | 0.00200 | 0.00241 | 0.00226 | 120 | 113 | 66.0-142 | | | 6.42 | 20 |
| 2-Methylnaphthalene | 0.00200 | 0.00233 | 0.00218 | 117 | 109 | 62.0-136 | | | 6.65 | 20 |
| (S) Nitrobenzene-d5 | | | | 136 | 122 | 31.0-160 | | | | |
| (S) 2-Fluorobiphenyl | | | | 107 | 100 | 48.0-148 | | | | |
| (S) p-Terphenyl-d14 | | | | 98.5 | 89.0 | 37.0-146 | | | | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

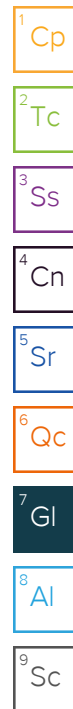
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

| | |
|------------------------------|--|
| MDL | Method Detection Limit. |
| 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 |
|-----------|---|
| J1 | Surrogate recovery limits have been exceeded; values are outside upper control limits. |
| Q | Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values. |
| V | The sample concentration is too high to evaluate accurate spike recoveries. |



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122


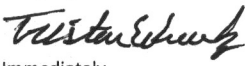
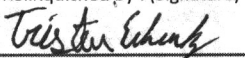
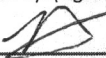
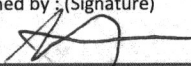
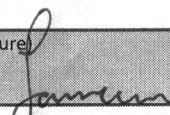
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| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey--NELAP | TN002 |
| California | 2932 | New Mexico ¹ | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | 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 | | |


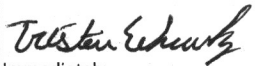
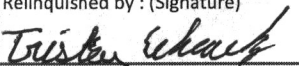
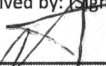
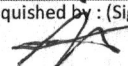
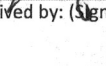

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* 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.



| | | | | | | | | | | | | | | | | | | | |
|---|------|--|---|---|---|--|--|--|--|--|---|--|--|---|--|----|--|--|---------------------|
| Caerus Oil and Gas 143 Diamond Avenue Parachute, CO 81635 | | | Billing Information: SAME AS LEFT | | | Pres Chk | | Analysis / Container / Preservative | | | | | | | | | | Chain of Custody Page ____ of ____ | |
| Report to: Blair Rollins | | | Email To: brollins@caerusoilandgas.com | | | | | | | | | | | | | | |  12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 | |
| Project Description: LOVERANCA 8 Investigation | | | City/State Collected: Piceance Crk, CO | | | Please Circle: PT <input checked="" type="radio"/> MT <input type="radio"/> CT <input type="radio"/> ET | | | | | | | | | | | | | |
| Phone: (970) 640-6919 | | Client Project # | | | Lab Project # | | | | | | | | | | | | | SDG # L1720332 | |
| Collected by (print): Tristan Schmalz | | Site/Facility ID # LOVE RANCA 8 | | | P.O. # | | | | | | | | | | | | | Table # M009 | |
| Collected by (signature):  | | Rush? (Lab MUST Be Notified) ____ Same Day ____ Five Day ____ Next Day ____ 5 Day (Rad Only) ____ Two Day ____ 10 Day (Rad Only) ____ Three Day | | | Quote # | | | | | | | | | | | | | Acctnum: | |
| Immediately Packed on Ice N ____ Y <input checked="" type="checkbox"/> | | | | | Date Results Needed Standard TAT | | | | | | | | | | | | | Template: | |
| | | | | | | | | | | | | | | | | | | Prelogin: | |
| | | | | | | | | | | | | | | | | | | PM: | |
| | | | | | | | | | | | | | | | | | | PB: | |
| | | | | | | | | | | | | | | | | | | Shipped Via: | |
| Sample ID | | Comp/Grab | Matrix* | Depth | Date | Time | No. of Cntrs | ECMC Table 915-1 Water 1-Methylnaphthalene, 3-Methylnaphthalene | | | | | | | | | | Remarks | Sample # (lab only) |
| 20240327-XTWP-(LR8-P202) | Grab | GW | - | 3/27/24 | 10:00 | 7 | X | X | | | | | | | | 01 | | | |
| 20240327-XTWP-(LR8-P201) | Grab | GW | - | 3/27/24 | 11:08 | 7 | X | X | | | | | | | | 02 | | | |
| 20240327-XTWP-(LR8-P200) | | PS | | | 12:01 | 7 | X | X | | | | | | | | | | | |
| 20240327-XTWP-(LR8-MW04) | Grab | GW | - | 3/27/24 | 12:01 | 7 | X | X | | | | | | | | 03 | | | |
| 20240327-XTWP-(LR8-MW03) | Grab | GW | - | 3/27/24 | 12:52 | 7 | X | X | | | | | | | | 04 | | | |
| 20240327-XTWP-(LR8-P204) | Grab | GW | - | 3/27/24 | 13:48 | 7 | X | X | | | | | | | | 05 | | | |
| 20240327-XTWP-(LR8-P205) | Grab | GW | - | 3/27/24 | 15:04 | 7 | X | X | | | | | | | | 06 | | | |
| 20240327-XTWP-(LR8-P203) | Grab | GW | - | 3/27/24 | 15:38 | 7 | X | X | | | | | | | | 07 | | | |
| 20240327-XTWP-(LR8-MW02) | Grab | GW | - | 3/27/24 | 16:19 | 7 | X | X | | | | | | | | 08 | | | |
| 20240327-XTWP-(LR8-MW01) | Grab | GW | - | 3/27/24 | 16:59 | 7 | X | X | | | | | | | | 09 | | | |
| * Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other | | Remarks: | | | Samples returned via: ____ UPS ____ FedEx ____ Courier | | | Tracking # | | | pH ____ Temp ____ Flow ____ Other ____ | | | Sample Receipt Checklist COC Seal Present/Intact: <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 checked="" 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: 3/28/2024 | Time: 12:30 | Received by: (Signature)  | | | Trip Blank Received: Yes / <input checked="" type="checkbox"/> No HCL / MeOH TBR | | | Temp: ____ °C Bottles Received: 123 | | | If preservation required by Login: Date/Time | | | | | | |
| Relinquished by: (Signature)  | | Date: 3/28/24 | Time: 1300 | Received by: (Signature) | | | Date: ____ Time: ____ | | | Hold: | | | Condition: NCF / <input checked="" type="checkbox"/> OK | | | | | | |
| Relinquished by: (Signature) | | Date: | Time: | Received for lab by: (Signature)  | | | Date: 3-29-24 Time: 0930 | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | |
|--|--|---|--|--|-------------------------------------|---|--|--------------------|--|-------------------|--|---|--|--|------------------------------------|-------------------|--|
| Caerus Oil and Gas 143 Diamond Avenue Parachute, CO 81635 | | Billing Information: SAME AS LEFT | | Pres Chk | Analysis / Container / Preservative | | | | | | | | | | Chain of Custody Page ____ of ____ | | |
| Report to: Blair Rollins | | Email To: brollins@caerusoilandgas.com | | ECMC Table 915-1 Water 1-Methylnaphthalene, 2-Methylnaphthalene | | | | | | | | | |  12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 | | | |
| Project Description: LOVE RANCH 8 INVESTIGATION | | City/State Collected: Piceance Crk, CO | | | | | | | | | | | | Please Circle: PT <input checked="" type="radio"/> MT <input type="radio"/> CT <input type="radio"/> ET | | SDG # L1720332 | |
| Phone: (970) 640-6919 | | Client Project # | | | | | | | | | | | | Lab Project # | | Table # MO09 | |
| Collected by (print): Tristan Schmalz | | Site/Facility ID # LOVE RANCH 8 | | | | | | | | | | | | P.O. # | | Acctnum: | |
| Collected by (signature):  | | Rush? (Lab MUST Be Notified) ____ Same Day ____ Five Day ____ Next Day ____ 5 Day (Rad Only) ____ Two Day ____ 10 Day (Rad Only) ____ Three Day | | | | | | | | | | | | Quote # | | Template: | |
| Packed on Ice N ____ Y <input checked="" type="checkbox"/> | | Date Results Needed Standard TAT | | No. of Cntrs | | Prelogin: | | | | | | | | | | | |
| Sample ID | | Comp/Grab | | Matrix* | | Depth | | Date | | Time | | Shipped Via: | | | | | |
| 20240327-XTWP-(LRB-ST-PC-UG02) | | Grab | | OT | | - | | 3/27/24 | | 9:43 | | 10 | | | | | |
| 20240327-XTWP-(LRB-ST-PC-UG03) | | Grab | | OT | | - | | 3/27/24 | | 9:59 | | 11 | | | | | |
| 20240327-XTWP-(LRB-ST-PC-POR) | | Grab | | OT | | - | | 3/27/24 | | 9:59 | | 12 | | | | | |
| 20240327-XTWP-(LRB-ST-PC-DG14) | | ↓ | | ↓ | | - | | ↓ | | 10:22 | | 13 | | | | | |
| 20240327-XTWP-(LRB-ST-PC-DG13) | | ↓ | | ↓ | | - | | ↓ | | 10:29 | | 14 | | | | | |
| 20240327-XTWP-(LRB-ST-PC-DG12) | | ↓ | | ↓ | | - | | ↓ | | 10:41 | | 15 | | | | | |
| 20240327-XTWP-(LRB-ST-PC-DG11) | | ↓ | | ↓ | | - | | ↓ | | 14:25 | | 16 | | | | | |
| Remarks: | | 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 checked="" 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 | | | | | |
| * Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other Surface Water | | Samples returned via: ____ UPS ____ FedEx ____ Courier ____ | | Tracking # | | Relinquished by: (Signature)  | | Date: 3/28/2024 | | Time: 12:30 | | Received by: (Signature)  | | Trip Blank Received: Yes / No HCL / MeOH TBR | | | |
| Relinquished by: (Signature)  | | Date: 3/28/24 | | Time: 1300 | | Received by: (Signature)  | | Temp: ____ °C | | Bottles Received: | | If preservation required by Login: Date/Time | | | | | |
| Relinquished by: (Signature) | | Date: | | Time: | | Received for lab by: (Signature)  | | Date: 3-29-24 | | Time: 0930 | | Hold: | | Condition: NCF / OK | | | |

