

Erin Clark
Lead Regulatory Coordinator
XTO Energy Inc. (Operator #: 100264)
erin.k.clark@exxonmobil.com

Report of Work Completed – Facility Decommissioning

| | |
|------------------------------------|--|
| COGCC Location Name (ID) | RIO BLANCO FED-63N97W /30NENE (315221) |
| Client Location Name | Federal 1-30 |
| COGCC Remediation Project # | 22838 |
| Legal Description | NENE Section 30, T3N-R97W |
| Coordinates (Lat/Long) | 40.205187 / -108.313490 |
| County | Rio Blanco County, Colorado |

Ms. Clark,

Confluence Compliance Companies, LLC (Confluence) prepared this Report of Work Completed (ROWC) for XTO Energy Inc. (XTO) to document recent site investigation activities associated with the abandonment of the FEDERAL 1-30 (API# 05-103-08096) well and associated infrastructure at the Federal 1-30 well pad (Location) previously operated by Sonterra Energy LLC (Sonterra). The Location is 23.5 miles northwest of Meeker, Colorado in Rio Blanco County, as illustrated in the attached Topographic Location Map. Additional information on the Location and the associated remediation project is provided in the title block above, the attached Site Diagrams, and the attached Laboratory Results Summary Table. This ROWC provides background on the Location, methods used to complete the investigation, results of the investigation, and recommendations for how to proceed with this information.

Background

As required by Colorado Oil and Gas Conservation Commission (COGCC) Rule 911.a, XTO submitted Initial Form 27 Document 402891749 proposing site investigation activities associated with the plans to plug and abandon (P&A) the well and decommission the Location to open Remediation Project Number 22838.

From May 10 to July 19, 2022, Confluence was tasked with sampling the Location in accordance with COGCC Rule 911.a to facilitate facility decommissioning. Confluence personnel inspected the wellhead excavation, flowline trenches, and the footprints of all previous equipment and infrastructure, including the tanks, pump jack, separator, meter house, and dehydration unit. Soil from each location was characterized using visual and olfactory observations and field-screened for volatile organic compounds using a photoionization detector (PID). Where field screening indicated impacts to soil in any of these locations, the sample exhibiting the highest degree of impacts based on field screening was collected from the associated area and submitted for laboratory analysis of COGCC Table 915-1 soil constituents. Any impacted soil was segregated and stockpiled on site, and the extent of impacts were investigated through additional excavation and confirmation soil sampling. When no impacts were observed, one sample was collected from the base of the wellhead excavation, immediately adjacent to the well, areas mostly like to be impacted within the flowline trenches such as connection points or elbows, and in the middle of each equipment footprint.

Background samples were also collected from nearby, native, non-impacted soil to characterize native levels of inorganic constituents of concern.

Collectively, laboratory results of P&A soil samples exceed COGCC Table 915-1 Residential Soil Screening Levels for electrical conductivity (EC), sodium adsorption ratio (SAR), pH, arsenic, and hexavalent chromium. Additionally, laboratory results of background soil samples exceed allowable limits for EC, SAR, pH, boron, arsenic, and hexavalent chromium.

COGCC Form 27 Document 403157992 was submitted September 12, 2022 to request a reduced analyte list of hexavalent chromium and to request consideration of COGCC Table 915-1 Footnotes 1 and 11 to establish alternative allowable limits. XTO requested alternative allowable limits for EC, SAR, pH, and arsenic of 20.200 millimhos per centimeter (mmhos/cm), 308, 10.3, and 31.75 milligrams per kilogram (mg/kg), respectively. This form and associated requests were approved September 20, 2022.

Methodology

On September 29, 2022, Confluence returned to the Location to delineate the hexavalent chromium exceedance at the wellhead at 4 feet below ground surface (bgs). Prior to additional sampling, impacted material had been excavated and removed. One soil sample was collected from the wellhead-pumpjack excavation at 7 feet bgs.

On October 25, 2022, Confluence returned to the Location to conduct additional background characterization. Using a direct push drill rig, four soil borings (BG01-BG04) were advanced around the Location in native, non-impacted soil to depths ranging from 7.5 to 20 feet bgs. Soil borings were advanced both upgradient and downgradient of the Location. Two soil samples were collected from each soil boring except for BG04 from which three soil samples were collected. Sample collection depths were selected to target soil horizons where exceedances were observed on the Location.

All soil samples were collected in laboratory provided jars, immediately placed on ice, and shipped for laboratory analysis. The delineation soil sample was submitted for analysis of hexavalent chromium, and background samples were submitted for analysis of COGCC Table 915-1 inorganic constituents of concern. Sample locations are illustrated in the attached Site Diagrams.

Results

These results summarize observations from onsite investigation efforts and associated field screening results. For organizational and presentation purposes the results summary is divided between general observations of lithology and hydrogeology for the entire Location and investigation activities.

Lithology and Hydrogeology

Lithology at the Location is characterized as fine sandy loam. The native soil near the Location is characterized as Tisworth fine sandy loam which has a high content of gypsum & alkaline salt derived from sedimentary rock. The soil is visibly alkali and is noted to be characteristically high in salt and pH. Groundwater is expected to flow southeast toward Crooked Wash and ultimately the White River, located 3.0 miles southwest of the Location.



Delineation Sampling Results

Laboratory results of the wellhead-pumpjack delineation sample were within COGCC Table 915-1 Residential Soil Screening Levels for hexavalent chromium.

October Background Investigation Results

Laboratory results of background soil samples indicate values of EC, SAR, pH, boron, arsenic, and hexavalent chromium exceeding COGCC Table 915-1 Residential Soil Screening Levels. EC exceedances range from 4.380 to 6.370 mmhos/cm. SAR exceedances range from 9.14 to 117. Values of pH exceeding COGCC Table 915-1 range from 8.32 to 9.81. Boron exceeds at 3.18 milligrams per liter (mg/L). Arsenic exceedances range from 1.17 to 25.4 mg/kg. Hexavalent chromium exceedances range from 0.308 to 0.594 mg/kg.

Analysis and Recommendations

Hexavalent chromium exceedances remain within the project area. However, the exceedances in all soil samples collected from final excavation extents are labeled with a "J" qualifier; stating that the identification of the analyte was made, however, the concentration is only an estimate due to a minimal amount of the analyte being exhibited in the sample material. Confluence recommends that XTO request the consideration of the "J" qualifier data from the COGCC as an estimated value and not an exceedance.

In recent conversations with the COGCC, the validity of the previously approved background soil sample 20220513-FED_1-30-BGN(1235) was discussed. If the results of this sample are removed from consideration, background data at the Location continues to demonstrate elevated values of EC, SAR, pH, and arsenic with peak values of 8.600 mmhos/cm, 308, 10.3, and 25.4 mg/kg respectively. Confluence recommends that XTO request continued consideration of COGCC Table 915-1 Footnote 1 to concur that the exceedances within this project area are within range of observed background value.

Based on these analytical results, Confluence recommends that XTO request closure of this remediation project with a no further action (NFA) determination.

Confluence is grateful for the opportunity to support you with this project. If you have any questions about the methods, results, or recommendations presented here, please do not hesitate to contact me.

Regards,



Sage Maher
Project Manager
(404) 641-8912

sage.maher@confluence-cc.com



Chris McKisson
Managing Partner
(720) 490-6758

chris.mckisson@confluence-cc.com



Attachments

- Topographic Location Map
- Site Diagram – Pipeline Abandonment Soil Samples
- Site Diagram – Equipment Abandonment Soil Samples
- Site Diagram – Background Samples
- Laboratory Results Summary Table
- Boring Logs
- Laboratory Reports



Topographic Location Map

SONTERRA ENERGY, L.L.C.

Federal 1-30

(RIO BLANCO FED-63N97W /30NENE)

COGCC Location ID: 315221

Rio Blanco County

NENE Sec. 30 T3N-R97W



Topographic map sourced from 2020 Earth Point using data provided by United States Geological Survey

Created by: Chris McKisson on 12/07/2021.

Federal 1-30

RIDGE

SPRINGS

DANFORTH

HILLS

MOFFAT CO.
RIO BLANCO CO.

Colorado

Mountain

STATE SECRETARY'S OFFICE

White River

White River

White River

White River

White River

White River

White River

White River

White River

White River

White River

White River

White River

White River

Site Diagram Pipeline Abandonment Soil Samples

SONTERRAENERGY, L.L.C.

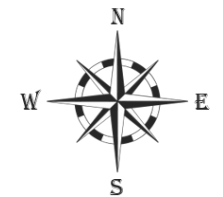
Federal 1-30

(RIO BLANCO FED-63N97W /30NENE)

COGCC Location ID: 315221

Rio Blanco County

NENE Sec. 30 T3S-R97W

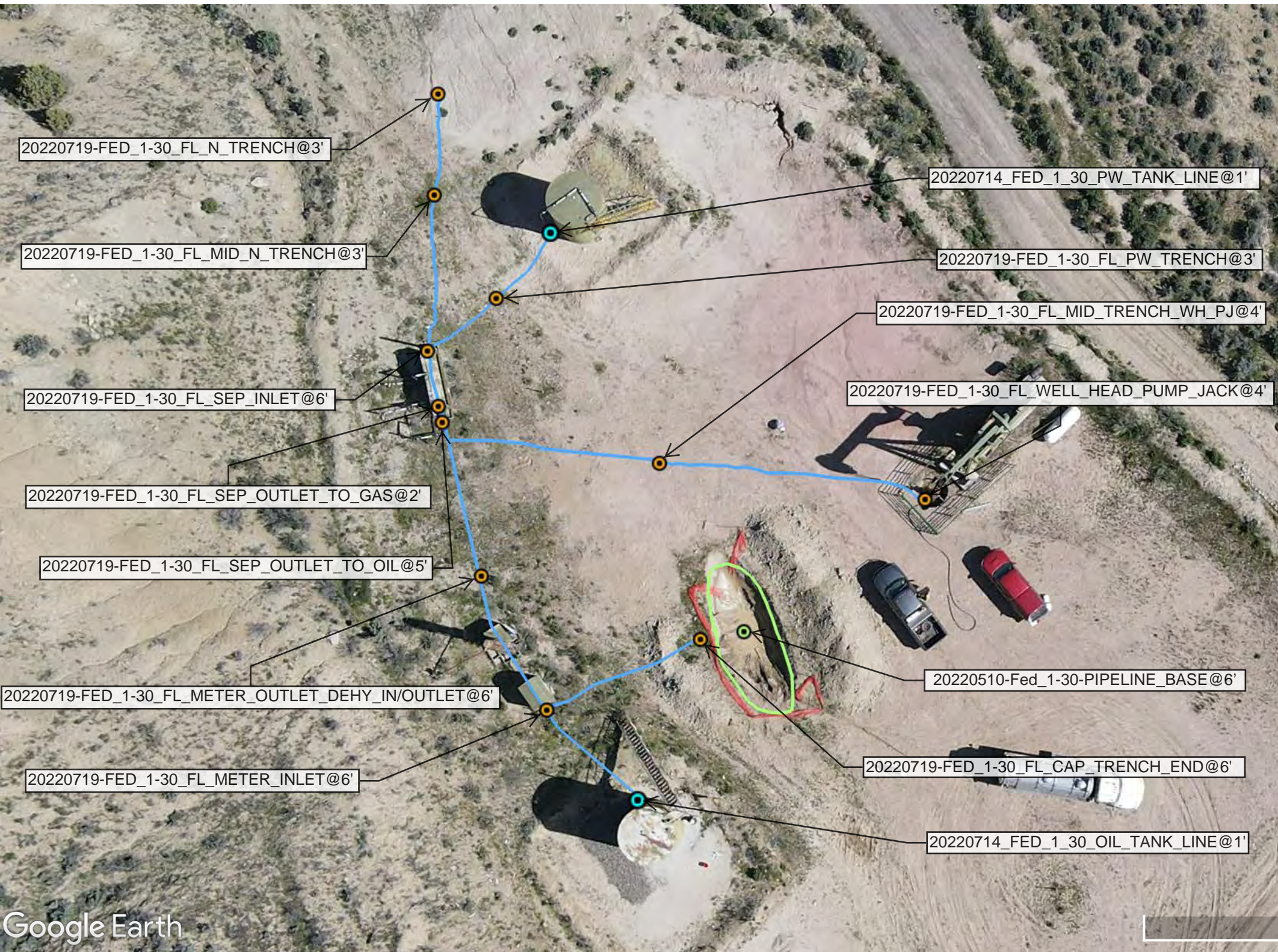


Legend

- Soil sample – 05/10/2022
- Soil sample – 07/14/2022
- Soil sample – 07/19/2022
- Pipeline Excavation – 05/10/2022
- Piping Trench

Spatial data was collected using a handheld GPS unit with submeter accuracy. Illustration discrepancies may be present in this diagram due to the inherent limitations of data accuracy for both project data and the underlying aerial imagery. The position of illustrated data may have been manually adjusted to align with the aerial imagery in a manner more representative of field conditions for presentation purposes only.

Map created by: Chris McKisson on 08/19/2022.



Site Diagram
Equipment Abandonment
Soil Samples

SONTERRA ENERGY, L.L.C.

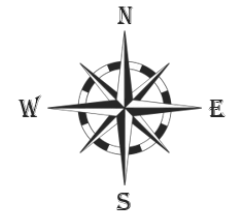
Federal 1-30

(RIO BLANCO FED-63N97W /30NENE)





COGCC Location ID: 315221

Rio Blanco County

NENE Sec. 30 T3N-R97W



Legend

-  Soil Sample – 7/13/2022
-  Soil Sample – 7/14/2022
-  Soil Sample – 9/28/2022
-  Excavation Boundary – 9/28/2022

Spatial data was collected using a handheld GPS unit with submeter accuracy. Illustration discrepancies may be present in this diagram due to the inherent limitations of data accuracy for both project data and the underlying aerial imagery. The position of illustrated data may have been manually adjusted to align with the aerial imagery in a manner more representative of field conditions for presentation purposes only.

Map created by: Sage Maher on 10/31/2022.

20220714_FED_1_30_PW_TANK@1'



220713-Fed_1-30-SEP@1'



220713-Fed_1-30-DEHY@1'



220713-Fed_1-30-MH@1'



20220714_FED_1_30_OIL_TANK@1'



220713-Fed_1-30-PJ@1'

220713-Fed_1-30-WH@6'

220719-FED_1_30_WELL_HEAD_PUMP_JACK@4'

20220928-FED_1-30-FL_WELL_HEAD_PUMP_JACK@7'






Site Diagram Background Samples

SONTERRA ENERGY, L.L.C.

Federal 1-30
(RIO BLANCO FED-63N97W /30NENE)
COGCC Location ID: 315221
Rio Blanco County
NENE Sec. 30 T3N-R97W



Legend

-  Background Sample – 05/13/2022
-  Background Sample – 07/13/2022
-  Background Sample – 10/25/2022

Spatial data was collected using a handheld GPS unit with submeter accuracy. Illustration discrepancies may be present in this diagram due to the inherent limitations of data accuracy for both project data and the underlying aerial imagery. The position of illustrated data may have been manually adjusted to align with the aerial imagery in a manner more representative of field conditions for presentation purposes only.


Map created by: Andrew Smith on 10/26/2022.


Laboratory Results Summary Table - Soil
Federal 1-30 P&A


| Sample Date | | | Soil Screening and Remediation Limits | | Organic Compounds (mg/kg [ppm]) | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|-------------|------|--|-----------|---|-------------------------------|---------------------------------|---------------------------------|----------|----------|--------------|---|------------------------|------------------------|--------------|------------|--------------------|----------------|----------------------|----------------------|----------|-----------------------|--------------|----------|------------------------|---------------------|---------------------|-------------|----------|----------|
| | | | COGCC Table 915-1 Residential --> | | NA | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Sample ID | PID (ppm) | TPH (total volatile and extractable petroleum hydrocarbons) (GRO-DRO-ORO) | TPH-GRO (G6-C16) Low Fraction | TPH-DRO (C16-C28) High Fraction | TPH-ORO (C28-C36) High Fraction | Benzene | Toluene | Ethylbenzene | Xylenes - total (sum of o-, m-, p- isomers) | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | Acenaphthene | Anthracene | Benzo(A)anthracene | Benzo(A)pyrene | Benzo(b)fluoranthene | Benzo(k)fluoranthene | Chrysene | Dibenz(A,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-cd)pyrene | 1-Methylnaphthalene | 2-Methylnaphthalene | Naphthalene | Pyrene | |
| 9/28/2022 | Well Head | -7 | FL_WELL_HEAD_PUMP_JACK@7' | 1.3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7/13/2022 | Well Head | -6 | 220713-FED_1-30WH@6' | 68.4 | 89.1 | 0.224 | 32.5 | 56.4 | <0.00100 | <0.00500 | <0.00250 | <0.00650 | <0.00500 | 0.00361 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.0200 | <0.0200 | <0.0200 | <0.00600 |
| 7/14/2022 | Tank | -1 | PW_TANK@1' | NA | 71.9 | 0.294 | 40.6 | 31.0 | <0.00100 | <0.00500 | <0.00250 | <0.00650 | <0.00500 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.0200 | <0.0200 | <0.0200 | <0.00600 |
| 5/13/2022 | Tank | 0 | 20220513-FED_1-30-FILL_COMP | 0.2 | 14.9 | <0.100 | 3.90 | 11.0 | <0.00100 | 0.00405 | <0.00250 | <0.00650 | <0.00500 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.0200 | <0.0200 | <0.0200 | <0.00600 |
| 7/13/2022 | Separator | -1 | 220713-FED_1-30SEP@1' | 3.7 | 43.0 | <0.100 | 27.1 | 15.9 | <0.00100 | <0.00500 | <0.00250 | <0.00650 | <0.00500 | 0.00213 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.0200 | <0.0200 | <0.0200 | <0.00600 |
| 7/13/2022 | Pump Jack | -1 | 220713-FED_1-30PJ@1' | 1.1 | 5.80 | 0.0678 | 2.19 | 3.54 | <0.00100 | <0.00500 | <0.00250 | <0.00650 | 0.00703 | 0.0143 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.0200 | <0.0200 | <0.0200 | <0.00600 |
| 5/10/2022 | Pipeline | -6 | 20220510-Fed_1-30-PIPELINE_BASE@6' | 1.6 | 1.62 | 0.0322 | <4.00 | 1.59 | <0.00100 | <0.00500 | <0.00737 | <0.00650 | <0.00500 | <0.00500 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 |
| 7/14/2022 | Oil Tank | -1 | OIL_TANK@1' | NA | 1.74 | <0.100 | <4.00 | 1.74 | <0.00100 | <0.00500 | <0.00250 | <0.00650 | <0.00500 | <0.00500 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.0200 | <0.0200 | <0.0200 | <0.00600 |
| 7/13/2022 | Meter House | -1 | 220713-FED_1-30MH@1' | 2.6 | 25.5 | 0.0455 | 7.41 | 18.0 | <0.00100 | <0.00500 | <0.00250 | <0.00650 | <0.00500 | 0.00200 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.0200 | <0.0200 | <0.0200 | <0.00600 |
| 7/19/2022 | Flowline | -6 | 220719-FED_1_30_CAP_TRENCH_END@6' | 0.0 | 3.11 | 0.0580 | <4.00 | 3.05 | <0.00100 | <0.00500 | <0.00250 | <0.00650 | <0.00500 | <0.00500 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.0200 | <0.0200 | 0.00440 | <0.00600 |
| 7/19/2022 | Flowline | -6 | 220719-FED_1_30_METER_INLET@6' | 0.0 | 4.33 | 0.0608 | <4.00 | 4.27 | <0.00100 | <0.00500 | <0.00250 | <0.00650 | <0.00500 | <0.00500 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.0200 | <0.0200 | <0.0200 | <0.00600 |
| 7/19/2022 | Flowline | -6 | 220719-FED_1_30_METER_OUTLET_DEHY_IN/OUTLET@6' | 0.0 | 1.47 | 0.0727 | <4.00 | 1.40 | <0.00100 | <0.00500 | <0.00250 | <0.00650 | <0.00500 | <0.00500 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.0200 | <0.0200 | <0.0200 | <0.00600 |
| 7/19/2022 | Flowline | -6 | 220719_FED_1_30_SEP_INLET@6' | 0.0 | 46.2 | 0.0525 | 18.1 | 28.0 | <0.00100 | <0.00500 | <0.00250 | <0.00650 | <0.00500 | <0.00500 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.0200 | <0.0200 | <0.0200 | <0.00600 |
| 7/19/2022 | Flowline | -5 | 220719-FED_1_30_SEP_OUTLET_TO_OIL@5' | 0.0 | 55.5 | 0.104 | 35.3 | 20.1 | <0.00100 | <0.00500 | <0.00250 | <0.00650 | <0.00500 | 0.00388 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.0200 | <0.0200 | <0.0200 | <0.00600 |
| 7/19/2022 | Flowline | -4 | 220719-FED_1_30_MID_TRENCH_WH_PJ@4' | 0.0 | 143 | 0.0265 | 112 | 30.6 | <0.00100 | <0.00500 | <0.00250 | <0.00650 | <0.00500 | <0.00500 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.0200 | <0.0200 | <0.0200 | 0.00204 |
| 7/19/2022 | Flowline | -4 | 220719-FED_1_30_WELL_HEAD_PUMP_JACK@4' | 0.0 | 46.8 | 0.428 | 24.9 | 21.5 | 0.005000 | <0.00500 | <0.00250 | 0.00721 | 0.00660 | 0.00480 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | 0.00510 | <0.00600 | 0.0109 | 0.00942 | <0.0200 | <0.00600 | |
| 7/19/2022 | Flowline | -3 | 220719-FED_1_30_N_TRENCH@3' | 0.0 | 3.35 | 0.0533 | <4.00 | 3.30 | <0.00100 | <0.00500 | <0.00250 | <0.00650 | <0.00500 | <0.00500 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.0200 | <0.0200 | <0.0200 | <0.00600 |
| 7/19/2022 | Flowline | -3 | 220719_FED_1_30_MID_N_TRENCH@3' | 0.0 | 4.63 | 0.0402 | <4.00 | 4.59 | <0.00100 | <0.00500 | <0.00250 | <0.00650 | <0.00500 | <0.00500 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.0200 | <0.0200 | <0.0200 | <0.00600 |
| 7/14/2022 | Dumpline | -1 | PW_TANK_LINE@1' | NA | 435 | 0.108 | 362 | 73.0 | <0.00100 | <0.00500 | <0.00250 | <0.00650 | <0.00500 | 0.00324 | <0.00600 | 0.00246 | <0.00600 | 0.00238 | <0.00600 | 0.00363 | <0.00600 | 0.0129 | 0.0313 | <0.00600 | <0.0200 | <0.0200 | <0.0200 | 0.0259 | <0.00600 | |
| 7/14/2022 | Dumpline | -1 | OIL_TANK_LINE@1' | NA | 33.9 | 0.0616 | 13.5 | 20.3 | <0.00100 | <0.00500 | <0.00250 | <0.00650 | <0.00500 | <0.00500 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.0200 | <0.0200 | <0.0200 | <0.00600 |
| 7/13/2022 | Dehydrator | -1 | 220713-FED_1-30DEHY@1' | 4.2 | 6.66 | <0.100 | 2.68 | 3.98 | <0.00100 | <0.00500 | <0.00250 | <0.00650 | <0.00500 | <0.00500 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.0200 | <0.0200 | <0.0200 | <0.00600 |
| 10/25/2022 | Background | -10 | 221025-FED_1-30-BG01@7.5'-10' | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 10/25/2022 | Background | -15 | 221025-FED_1-30-BG01@12.5'-15' | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 10/25/2022 | Background | -15 | 221025-FED_1-30-BG02@12.5'-15' | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 10/25/2022 | Background | -20 | 221025-FED_1-30-BG02@17.5'-20' | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 10/25/2022 | Background | -15 | 221025-FED_1-30-BG03@12.5'-15' | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 10/25/2022 | Background | -20 | 221025-FED_1-30-BG03@17.5'-20' | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 10/25/2022 | Background | -10 | 221025-FED_1-30-BG04@7.5'-10' | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 10/25/2022 | Background | -15 | 221025-FED_1-30-BG04@12.5'-15' | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 10/25/2022 | Background | -20 | 221025-FED_1-30-BG04@17.5'-20' | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 7/13/2022 | Background | -1 | 220713-FED_1-30BG(0930)@1' | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 7/13/2022 | Background | -0.5 | 220713-FED_1-30BG(0935)@0.5' | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | | | | | |


Laboratory Results Summary Table - Soil
Federal 1-30 P&A

| | | | Soil Screening and Remediation Limits | Soil Suitability for Reclamation | | | | Metals (mg/kg [ppm]) | | | | | | | | | | |
|-------------|--|--|--|----------------------------------|--|---|--|-------------------------------------|---------|--------|--------------------|---------------|--------|------|--------|----------|--------|-------|
| | | | COGCC Table 915-1 Residential--> | NA | 4 | 6 | 6-8.3 | 2 | 0.68 | 15000 | 71 | 0.3 | 3100 | 400 | 1500 | 390 | 390 | 23000 |
| Sample Date | Solid/Soil Source (Equipment) [Vault Sump, Separator, Tank Battery, Dump Line, Pit, Cuttings, Background, etc.] | Depth - Z (feet) (NEGATIVE VALUE) below ground surface (tgs) | Sample ID | PID (ppm) | EC (Specific Conductance) (millimhos/centimeter) (by saturated paste method) | SAR (Sodium Adsorption Ratio) (calculation) (by saturated paste method) | pH (pH Units) (by saturated paste method) | Boron - Hot Water Soluble (mg/L) | Arsenic | Barium | Cadmium (mg/kg) | Chromium (VI) | Copper | Lead | Nickel | Selenium | Silver | Zinc |
| 9/28/2022 | Well Head | -7 | FL_WELL_HEAD_PUMP_JACK@7' | 1.3 | NA | NA | NA | NA | NA | NA | NA | <1.00 | NA | NA | NA | NA | NA | NA |
| 7/13/2022 | Well Head | -6 | 220713-FED_1-30WH@6' | 68.4 | 13.400 | 24.5 | 7.84 | 1.26 | 6.06 | 108 | 0.47 | <1.00 | 30.2 | 14.4 | 17.6 | <2.00 | <1.00 | 71.6 |
| 7/14/2022 | Tank | -1 | PW_TANK@1' | NA | 1.750 | 8.96 | 9.07 | 0.281 | 4.67 | 145 | 0.246 | 0.451 | 19.1 | 10.9 | 14.5 | <2.00 | <1.00 | 53.2 |
| 5/13/2022 | Tank | 0 | 20220513-FED_1-30-FILL_COMP | 0.2 | 2.170 | 4.14 | 7.95 | 1.03 | 3.41 | 86.7 | 0.255 | <1.00 | 9.05 | 6.65 | 11.1 | <2.00 | <1.00 | 30.2 |
| 7/13/2022 | Separator | -1 | 220713-FED_1-30SEP@1' | 3.7 | 1.260 | 19.3 | 8.73 | 0.676 | 4.41 | 156 | 0.483 | <1.00 | 26.0 | 18.1 | 17.0 | <2.00 | <1.00 | 64.3 |
| 7/13/2022 | Pump Jack | -1 | 220713-FED_1-30PJ@1' | 1.1 | 8.840 | 41.8 | 8.12 | 0.632 | 5.25 | 776 | 0.438 | <1.00 | 27.2 | 28.0 | 17.2 | <2.00 | <1.00 | 101 |
| 5/10/2022 | Pipeline | -6 | 20220510-Fed_1-30-PIPELINE_BASE@6' | 1.6 | 0.542 | 1.23 | 9.35 | 0.426 | 5.47 | 423 | 0.687 | 0.404 | 23.0 | 16.3 | 16.0 | <2.00 | <1.00 | 58.0 |
| 7/14/2022 | Oil Tank | -1 | OIL_TANK@1' | NA | 0.435 | 6.84 | 9.96 | 0.180 | 0.810 | 46.2 | 2.20 | 0.345 | 40.9 | 31.6 | 18.8 | <2.00 | <1.00 | 64.1 |
| 7/13/2022 | Meter House | -1 | 220713-FED_1-30MH@1' | 2.6 | 0.262 | 0.261 | 8.26 | 0.551 | 2.11 | 226 | 0.187 | 0.565 | 36.8 | 11.9 | 21.8 | <2.00 | <1.00 | 78.9 |
| 7/19/2022 | Flowline | -6 | 220719-FED_1_30_CAP_TRENCH_END@6' | 0.0 | 2.740 | 16.5 | 8.50 | 0.503 | 6.48 | 105 | 0.372 | <1.00 | 24.6 | 15.6 | 16.6 | <2.00 | <1.00 | 61.9 |
| 7/19/2022 | Flowline | -6 | 220719-FED_1_30_METER_INLET@6' | 0.0 | 0.304 | 1.14 | 8.40 | 0.712 | 5.64 | 123 | 0.400 | <1.00 | 25.8 | 14.6 | 18.5 | <2.00 | <1.00 | 67.6 |
| 7/19/2022 | Flowline | -6 | 220719-FED_1_30_METER_OUTLET_DEHY_IN/OUTLET@6' | 0.0 | 1.000 | 16.0 | 9.11 | 0.848 | 5.71 | 81.6 | 0.397 | 0.441 | 25.8 | 13.9 | 17.6 | <2.00 | <1.00 | 63.7 |
| 7/19/2022 | Flowline | -6 | 220719_FED_1_30_SEP_INLET@6' | 0.0 | 1.280 | 8.98 | 8.59 | 0.794 | 2.33 | 199 | 0.294 | 0.361 | 27.3 | 25.1 | 15.2 | <2.00 | <1.00 | 56.7 |
| 7/19/2022 | Flowline | -5 | 220719-FED_1_30_SEP_OUTLET_TO_OIL@5' | 0.0 | 0.507 | 6.46 | 9.15 | 0.949 | 2.65 | 2590 | 0.362 | 0.425 | 32.0 | 15.5 | 19.6 | <2.00 | <1.00 | 77.6 |
| 7/19/2022 | Flowline | -4 | 220719-FED_1_30_MID_TRENCH_WH_PJ@4' | 0.0 | 8.450 | 60.7 | 8.86 | 0.419 | 6.40 | 589 | 0.384 | 0.538 | 24.8 | 23.7 | 16.3 | <2.00 | <1.00 | 84.2 |
| 7/19/2022 | Flowline | -4 | 220719-FED_1_30_WELL_HEAD_PUMP_JACK@4' | 0.0 | 9.220 | 36.5 | 8.03 | 0.935 | 5.95 | 302 | 0.456 | 1.35 | 28.7 | 19.6 | 16.2 | <2.00 | <1.00 | 72.2 |
| 7/19/2022 | Flowline | -3 | 220719-FED_1_30_N_TRENCH@3' | 0.0 | 3.200 | 42.5 | 9.15 | 0.942 | 4.01 | 2520 | 0.382 | 0.435 | 26.1 | 30.0 | 15.4 | <2.00 | <1.00 | 64.5 |
| 7/19/2022 | Flowline | -3 | 220719_FED_1_30_MID_N_TRENCH@3' | 0.0 | 1.120 | 6.11 | 8.42 | 0.586 | 6.05 | 196 | 0.597 | 0.854 | 34.3 | 20.3 | 19.5 | <2.00 | <1.00 | 74.4 |
| 7/14/2022 | Dumpline | -1 | PW_TANK_LINE@1' | NA | 6.140 | 67.4 | 8.41 | 1.04 | 6.20 | 608 | 0.217 | 0.506 | 23.2 | 16.5 | 17.0 | <2.00 | <1.00 | 65.5 |
| 7/14/2022 | Dumpline | -1 | OIL_TANK_LINE@1' | NA | 0.439 | 3.10 | 9.35 | 0.212 | 3.60 | 126 | 0.266 | 0.622 | 41.3 | 12.9 | 21.8 | <2.00 | <1.00 | 69.7 |
| 7/13/2022 | Dehydrator | -1 | 220713-FED_1-30DEHY@1' | 4.2 | 0.933 | 3.04 | 7.99 | 1.42 | 3.47 | 223 | 0.579 | <1.00 | 35.1 | 12.8 | 22.3 | <2.00 | <1.00 | 84.7 |
| 10/25/2022 | Background | -10 | 221025-FED_1-30-BG01@7.5'-10' | NA | 4.380 | 10.0 | 7.79 | 1.51 | 1.17 | 21.7 | 0.145 | 0.594 | 9.44 | 6.39 | 5.64 | <2.00 | <1.00 | 23.1 |
| 10/25/2022 | Background | -15 | 221025-FED_1-30-BG01@12.5'-15' | NA | 6.370 | 9.14 | 7.45 | 3.18 | 25.4 | 91.0 | 1.46 | 0.308 | 56.2 | 30.3 | 42.3 | <2.00 | <1.00 | 129 |
| 10/25/2022 | Background | -15 | 221025-FED_1-30-BG02@12.5'-15' | NA | 4.580 | 17.9 | 8.04 | 0.794 | 7.62 | 135 | 0.612 | 0.384 | 42.9 | 28.4 | 24.2 | <2.00 | <1.00 | 96.1 |
| 10/25/2022 | Background | -20 | 221025-FED_1-30-BG02@17.5'-20' | NA | 3.350 | 21.6 | 8.32 | 0.564 | 2.95 | 70.6 | 0.315 | 0.296 | 23.7 | 20.7 | 12.8 | <2.00 | <1.00 | 55.1 |
| 10/25/2022 | Background | -15 | 221025-FED_1-30-BG03@12.5'-15' | NA | 3.250 | 45.4 | 8.26 | 0.609 | 6.36 | 86.1 | 0.474 | 0.281 | 31.2 | 20.1 | 19.0 | <2.00 | <1.00 | 71.7 |
| 10/25/2022 | Background | -20 | 221025-FED_1-30-BG03@17.5'-20' | NA | 3.280 | 117 | 9.58 | 1.25 | 6.27 | 220 | 0.617 | 0.327 | 51.7 | 34.8 | 28.1 | <2.00 | <1.00 | 111 |
| 10/25/2022 | Background | -10 | 221025-FED_1-30-BG04@7.5'-10' | NA | 2.300 | 24.9 | 9.81 | 1.70 | 11.0 | 88.0 | 0.731 | 0.431 | 18.0 | 18.7 | 12.8 | <2.00 | <1.00 | 54.2 |
| 10/25/2022 | Background | -15 | 221025-FED_1-30-BG04@12.5'-15' | NA | 1.260 | 13.5 | 9.69 | 0.908 | 5.47 | 81.8 | 0.657 | <1.00 | 20.9 | 17.9 | 16.3 | <2.00 | <1.00 | 60.2 |
| 10/25/2022 | Background | -20 | 221025-FED_1-30-BG04@17.5'-20' | NA | 1.040 | 4.56 | 9.77 | 0.925 | 6.55 | 87.5 | 0.568 | <1.00 | 35.9 | 23.4 | 23.1 | <2.00 | <1.00 | 84.1 |
| 7/13/2022 | Background | -1 | 220713-FED_1-30BG(0930)@1' | NA | 1.630 | 55.3 | 9.57 | 1.32 | 3.83 | 44.6 | 0.281 | <1.00 | 10.0 | 7.66 | 7.28 | <2.00 | <1.00 | 29.0 |
| 7/13/2022 | Background | -0.5 | 220713-FED_1-30BG(0935)@0.5' | NA | 6.460 | 308 | 9.84 | 2.36 | 2.68 | 34.9 | 0.210 | <1.00 | 7.56 | 5.95 | 5.97 | <2.00 | <1.00 | 24.3 |
| 7/13/2022 | Background | -0.5 | 220713-FED_1-30BG(0945)@0.5' | NA | 8.600 | 306 | 10.3 | 1.89 | 2.72 | 95.6 | 0.172 | <1.00 | 8.71 | 6.62 | 5.91 | <2.00 | <1.00 | 24.8 |
| 5/13/2022 | Background | -0.5 | 20220513-FED_1-30-BGN(1205) | 4.5 | 0.120 | 0.378 | 8.13 | 0.316 | 1.47 | 28.2 | 0.582 | <1.00 | 41.3 | 20.5 | 24.1 | <2.00 | <1.00 | 91.6 |
| 5/13/2022 | Background | -0.5 | 20220513-FED_1-30-BGN(1215) | 3.2 | 0.0592 | 1.38 | 8.25 | 0.502 | 0.843 | 18.2 | 0.131 | 0.414 | 46.9 | 21.2 | 13.1 | <2.00 | <1.00 | 56.3 |
| 5/13/2022 | Background | -0.5 | 20220513-FED_1-30-BGN(1220) | 0.1 | 0.136 | 0.306 | 8.52 | 0.283 | 2.52 | 38.1 | 0.344 | 0.344 | 33.6 | 18.2 | 18.0 | <2.00 | <1.00 | 74.3 |
| 5/13/2022 | Background | -0.5 | 20220513-FED_1-30-BGN(1235) | 0.0 | 20.200 | 2030 | 10.1 | 6.29 | 6.76 | 36.1 | 0.292 | 0.298 | 23.0 | 12.5 | 12.9 | <2.00 | <1.00 | 54.6 |

| Project Name: Fed 1-30 Pit | | | | |  | |
|-----------------------------------|------------------|---|---|--------------------------------|--|---------------------------------|
| Location: Fed 1-30 | | | | | | |
| Lat/Long: 40.204561 / -108.313374 | | | | Project Number: | | |
| Boring Number: BG01 | | Scope: Background samples and delineation | | | Geologist: Andrew Smith | |
| Date: 10/ 25 /22 | Start Time: 0900 | Finish Time: 0925 | DTW: ----- | Drilling Equipment: 9520 - VTR | | |
| Drilling Method: Direct Push | | | Drilling Contractor: Alpine Remediation | | Driller: Edgar Chavez | |
| Depth (ft) | Time | Recovery (%) | Standard Penetration Test Results | USCS Symbol | Material Description | PID Reading (ppm) |
| 0 - 5 | 0905 | 45 | NA | MH | Sandy - loam with small angular gravel. Med-fine grain. Dry. Plastic. Tan color. No odor no stain. | 0.0 |
| 5-10 | 0910 | 100 | | CL | 5' - 7.5': Same as above with more clay content as depth increases. 7.5' - 10': Weathered shale. Small angular gravel. Fractured shale. Slightly plastic. Density increases with depth. Brown to grey color. Some white streaking. No odor no stain. | 0.1 |
| 10-12.5 | 0915 | 100 | | ML | Tan to white color. Silty sand. Very fine grain and extremely dense, but easily fractured. Fractured shale stone. Very little small angular gravel. No odor no stain. | 0.1 |
| 12.5-15 | 0925 | 100 | | ML / CL | 12.5 - 14: Same as above. 14' - 15': Weathered shale. Small angular gravel. Fractured shale. Slightly plastic. Density increases with depth. Brown to grey color. Some white streaking. Sample liner crushed. Soil too dense to continue. No odor no stain. | 0.1 |
| Total Depth of Boring: 15' | | | Samples Collected: 7.5' - 10' 12.5' - 15' | | | Comments: Sampler refusal @ 15' |

| Project Name: Fed 1-30 Pit | | | | |  | |
|-----------------------------------|------------------|---|--|--------------------------------|--|-------------------|
| Location: Fed 1-30 | | | | | | |
| Lat/Long: 40.204775 / -108.313251 | | | | Project Number: | | |
| Boring Number: BG02 | | Scope: Background samples and delineation | | | Geologist: Andrew Smith | |
| Date: 10/ 25 /22 | Start Time: 0930 | Finish Time: 0950 | DTW: ----- | Drilling Equipment: 9520 - VTR | | |
| Drilling Method: Direct Push | | | Drilling Contractor: Alpine Remediation | | Driller: Edgar Chavez | |
| Depth (ft) | Time | Recovery (%) | Standard Penetration Test Results | USCS Symbol | Material Description | PID Reading (ppm) |
| 0 - 5 | 0935 | 75 | NA | MH / CL | 0' - 3': Sandy - loam with small angular gravel. Fine grain. Dry. Plastic. Tan color. 3' - 5': Weathered shale. Small angular gravel. Fractured shale. Slightly plastic. Density increases with depth. Brown to grey color. Some white streaking. No odor no stain. | 0.0 |
| 5-10 | 0940 | 80 | | CL | Same as above | 0.3 |
| 10-15 | 0945 | 70 | | CL | Same as above. Slightly more dense | 0.1 |
| 15-20 | 0950 | 70 | | CL | Same as above. More tan coloration | 0.0 |
| Total Depth of Boring: 20' | | | Samples Collected: 12.5' - 15' 17.5' - 20' | | | Comments: |

| Project Name: Fed 1-30 Pit | | | | |  | |
|-----------------------------------|------------------|---|--|--------------------------------|--|-------------------|
| Location: Fed 1-30 | | | | | | |
| Lat/Long: 40.204930 / -108.313112 | | | | Project Number: | | |
| Boring Number: BG03 | | Scope: Background samples and delineation | | | Geologist: Andrew Smith | |
| Date: 10/ 25 /22 | Start Time: 1000 | Finish Time: 1015 | DTW: ----- | Drilling Equipment: 9520 - VTR | | |
| Drilling Method: Direct Push | | | Drilling Contractor: Alpine Remediation | | Driller: Edgar Chavez | |
| Depth (ft) | Time | Recovery (%) | Standard Penetration Test Results | USCS Symbol | Material Description | PID Reading (ppm) |
| 0 - 5 | 1003 | 50 | NA | MH / CL | 0' - 2': Sandy - loam with small angular gravel. Fine grain. Dry. Plastic. Tan color. 2' - 5': Weathered shale. Small angular gravel. Fractured shale. Slightly plastic. Density increases with depth. Brown to grey color. Some white streaking. No odor no stain. | 0.0 |
| 5-10 | 1005 | 35 | | CL | Same as above. Slightly moist. | 0.0 |
| 10-15 | 1010 | 65 | | CL | Same as above. Becoming dryer at 13'. | 0.1 |
| 15-20 | 1015 | 75 | | CL | Same as above. Slightly more dense. | 0.1 |
| Total Depth of Boring: 20' | | | Samples Collected: 12.5' - 15' 17.5' - 20' | | | Comments: |

| Project Name: Fed 1-30 Pit | | | | |  | |
|-----------------------------------|------------------|---|--|--------------------------------|--|-------------------|
| Location: Fed 1-30 | | | | | | |
| Lat/Long: 40.206118 / -108.314311 | | | | Project Number: | | |
| Boring Number: BG04 | | Scope: Background samples and delineation | | | Geologist: Andrew Smith | |
| Date: 10/ 25 /22 | Start Time: 1040 | Finish Time: 1055 | DTW: ----- | Drilling Equipment: 9520 - VTR | | |
| Drilling Method: Direct Push | | | Drilling Contractor: Alpine Remediation | | Driller: Edgar Chavez | |
| Depth (ft) | Time | Recovery (%) | Standard Penetration Test Results | USCS Symbol | Material Description | PID Reading (ppm) |
| 0 - 5 | 1042 | 60 | NA | ML / CL | 0' - 2.5': Clayey - loam with small angular gravel. Fine grain. Dry. Plastic. Tan color. 2.5' - 5': Weathered shale. Small angular gravel. Fractured shale. Easily fractured Slightly plastic. Density increases with depth. Brown to grey color. Some white streaking. No odor no stain. | 0.0 |
| 5-10 | 1045 | 75 | | CL | Same as above with red and white streakings throughout. | 0.2 |
| 10-15 | 1050 | 75 | | CL / SC | 10' - 13': Same as above. 13' - 15': Wet sandy clay. Fine grain. Highly plastic. Brown. Lacking any colored striations as noted above. Dense but very soft. | 0.1 |
| 15-20 | 1055 | 75 | | SC | Same as 13' - 15' above. | 0.1 |
| Total Depth of Boring: | | | Samples Collected: | | | Comments: |
| 20' | | | 7.5' - 10' 12.5' - 15' 17.5' - 20' | | | |

Confluence Compliance Companies - CO

Sample Delivery Group: L1492937

Samples Received: 05/12/2022

Project Number:

Description: P&A

Report To: Chris McKisson
403 ½ Rockwood Lane
Grand Junction, CO 81507

Entire Report Reviewed By:



Chris Ward
Project Manager

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

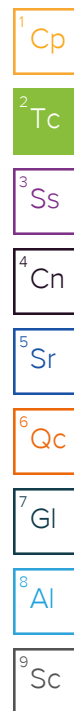


Pace Analytical National

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

TABLE OF CONTENTS

| | |
|---|----|
| Cp: Cover Page | 1 |
| Tc: Table of Contents | 2 |
| Ss: Sample Summary | 3 |
| Cn: Case Narrative | 4 |
| Sr: Sample Results | 5 |
| 20220510-FED_1-30-PIPELINE_BASE@6' L1492937-01 | 5 |
| Qc: Quality Control Summary | 7 |
| Wet Chemistry by Method 7199 | 7 |
| Wet Chemistry by Method 9045D | 8 |
| Wet Chemistry by Method 9050AMod | 9 |
| Metals (ICP) by Method 6010B | 10 |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | 11 |
| Metals (ICPMS) by Method 6020 | 12 |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | 13 |
| Volatile Organic Compounds (GC/MS) by Method 8260B | 14 |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | 15 |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | 16 |
| Gl: Glossary of Terms | 18 |
| Al: Accreditations & Locations | 19 |
| Sc: Sample Chain of Custody | 20 |



SAMPLE SUMMARY

| 20220510-FED_1-30-PIPELINE_BASE@6' L1492937-01 Solid | | | | Collected by Alex Slorby | Collected date/time 05/10/22 13:30 | Received date/time 05/12/22 09:00 | 1 Cp |
|---|-----------|----------|--------------------------|-----------------------------|---------------------------------------|--------------------------------------|---------|
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location | 2 Tc |
| Calculated Results | WG1865266 | 1 | 05/18/22 23:43 | 05/18/22 23:43 | CCE | Mt. Juliet, TN | 3 Ss |
| Wet Chemistry by Method 7199 | WG1864659 | 1 | 05/17/22 23:57 | 05/19/22 11:38 | SCM | Mt. Juliet, TN | 4 Cn |
| Wet Chemistry by Method 9045D | WG1866246 | 1 | 05/19/22 13:50 | 05/19/22 13:55 | EPW | Mt. Juliet, TN | 5 Sr |
| Wet Chemistry by Method 9050AMod | WG1864049 | 1 | 05/15/22 13:56 | 05/15/22 17:41 | ARD | Mt. Juliet, TN | 6 Qc |
| Metals (ICP) by Method 6010B | WG1864463 | 1 | 05/17/22 07:23 | 05/18/22 18:06 | ZSA | Mt. Juliet, TN | 7 Gl |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1865268 | 2 | 05/18/22 00:08 | 05/19/22 02:00 | CCE | Mt. Juliet, TN | 8 Al |
| Metals (ICPMS) by Method 6020 | WG1864465 | 5 | 05/17/22 07:42 | 05/17/22 17:00 | LD | Mt. Juliet, TN | 9 Sc |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1863882 | 1 | 05/13/22 16:46 | 05/18/22 12:22 | BMB | Mt. Juliet, TN | |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1864071 | 1 | 05/13/22 16:46 | 05/15/22 11:41 | ACG | Mt. Juliet, TN | |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1867115 | 1 | 05/20/22 17:30 | 05/21/22 15:51 | JDG | Mt. Juliet, TN | |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1865823 | 1 | 05/18/22 21:12 | 05/19/22 05:20 | AMG | 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



Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 1.23 | | 1 | 05/18/2022 23:43 | WG1865266 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|-----------|
| Hexavalent Chromium | 0.404 | J | 0.255 | 1.00 | 1 | 05/19/2022 11:38 | WG1864659 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|-----------|----------|----------------------|-----------|
| pH | 9.35 | T8 | 1 | 05/19/2022 13:55 | WG1866246 |

Sample Narrative:

L1492937-01 WG1866246: 9.35 at 23C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|-----------|
| Specific Conductance | 542 | | 10.0 | 1 | 05/15/2022 17:41 | WG1864049 |

Sample Narrative:

L1492937-01 WG1864049: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|-----------|
| Barium | 423 | J3 V | 0.0852 | 0.500 | 1 | 05/18/2022 18:06 | WG1864463 |
| Cadmium | 0.687 | | 0.0471 | 0.500 | 1 | 05/18/2022 18:06 | WG1864463 |
| Copper | 23.0 | | 0.400 | 2.00 | 1 | 05/18/2022 18:06 | WG1864463 |
| Lead | 16.3 | O1 | 0.208 | 0.500 | 1 | 05/18/2022 18:06 | WG1864463 |
| Nickel | 16.0 | | 0.132 | 2.00 | 1 | 05/18/2022 18:06 | WG1864463 |
| Selenium | U | | 0.764 | 2.00 | 1 | 05/18/2022 18:06 | WG1864463 |
| Silver | U | | 0.127 | 1.00 | 1 | 05/18/2022 18:06 | WG1864463 |
| Zinc | 58.0 | | 0.832 | 5.00 | 1 | 05/18/2022 18:06 | WG1864463 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|-----------|
| Hot Water Sol. Boron | 0.426 | | 0.0334 | 0.400 | 2 | 05/19/2022 02:00 | WG1865268 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|-----------|
| Arsenic | 5.47 | O1 | 0.100 | 1.00 | 5 | 05/17/2022 17:00 | WG1864465 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|----------------------|-----------|
| TPH (GC/FID) Low Fraction | 0.0322 | J | 0.0217 | 0.100 | 1 | 05/18/2022 12:22 | WG1863882 |
| (S) a,a,a-Trifluorotoluene(FID) | 94.5 | | | 77.0-120 | | 05/18/2022 12:22 | WG1863882 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.000467 | 0.00100 | 1 | 05/15/2022 11:41 | WG1864071 |
| Toluene | U | | 0.00130 | 0.00500 | 1 | 05/15/2022 11:41 | WG1864071 |
| Ethylbenzene | U | | 0.000737 | 0.00250 | 1 | 05/15/2022 11:41 | WG1864071 |
| Xylenes, Total | U | | 0.000880 | 0.00650 | 1 | 05/15/2022 11:41 | WG1864071 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 | 1 | 05/15/2022 11:41 | WG1864071 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 | 1 | 05/15/2022 11:41 | WG1864071 |
| (S) Toluene-d8 | 112 | | | 75.0-131 | | 05/15/2022 11:41 | WG1864071 |
| (S) 4-Bromofluorobenzene | 87.1 | | | 67.0-138 | | 05/15/2022 11:41 | WG1864071 |
| (S) 1,2-Dichloroethane-d4 | 102 | | | 70.0-130 | | 05/15/2022 11:41 | WG1864071 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|---------------------|--------------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | U | | 1.61 | 4.00 | 1 | 05/21/2022 15:51 | WG1867115 |
| C28-C36 Motor Oil Range | 1.59 | B J | 0.274 | 4.00 | 1 | 05/21/2022 15:51 | WG1867115 |
| (S) o-Terphenyl | 52.5 | | | 18.0-148 | | 05/21/2022 15:51 | WG1867115 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 05/19/2022 05:20 | WG1865823 |
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 05/19/2022 05:20 | WG1865823 |
| Acenaphthylene | U | | 0.00216 | 0.00600 | 1 | 05/19/2022 05:20 | WG1865823 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 05/19/2022 05:20 | WG1865823 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 05/19/2022 05:20 | WG1865823 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 05/19/2022 05:20 | WG1865823 |
| Benzo(g,h,i)perylene | U | | 0.00177 | 0.00600 | 1 | 05/19/2022 05:20 | WG1865823 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 05/19/2022 05:20 | WG1865823 |
| Chrysene | U | | 0.00232 | 0.00600 | 1 | 05/19/2022 05:20 | WG1865823 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 05/19/2022 05:20 | WG1865823 |
| Fluoranthene | U | | 0.00227 | 0.00600 | 1 | 05/19/2022 05:20 | WG1865823 |
| Fluorene | U | | 0.00205 | 0.00600 | 1 | 05/19/2022 05:20 | WG1865823 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 05/19/2022 05:20 | WG1865823 |
| Naphthalene | U | | 0.00408 | 0.0200 | 1 | 05/19/2022 05:20 | WG1865823 |
| Phenanthrene | U | | 0.00231 | 0.00600 | 1 | 05/19/2022 05:20 | WG1865823 |
| Pyrene | U | | 0.00200 | 0.00600 | 1 | 05/19/2022 05:20 | WG1865823 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 | 1 | 05/19/2022 05:20 | WG1865823 |
| 2-Methylnaphthalene | U | | 0.00427 | 0.0200 | 1 | 05/19/2022 05:20 | WG1865823 |
| 2-Chloronaphthalene | U | | 0.00466 | 0.0200 | 1 | 05/19/2022 05:20 | WG1865823 |
| (S) p-Terphenyl-d14 | 86.3 | | | 23.0-120 | | 05/19/2022 05:20 | WG1865823 |
| (S) Nitrobenzene-d5 | 65.3 | | | 14.0-149 | | 05/19/2022 05:20 | WG1865823 |
| (S) 2-Fluorobiphenyl | 67.9 | | | 34.0-125 | | 05/19/2022 05:20 | WG1865823 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3793808-1 05/19/22 10:51

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

L1489944-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1489944-01 05/19/22 11:02 • (DUP) R3793808-3 05/19/22 11:07

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------------------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/kg | mg/kg | | % | | % |
| Hexavalent Chromium | 0.555 | 0.610 | 1 | 9.50 | ⌵ | 20 |

L1492939-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1492939-06 05/19/22 12:19 • (DUP) R3793808-4 05/19/22 12:25

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

Laboratory Control Sample (LCS)

(LCS) R3793808-2 05/19/22 10:56

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

L1492955-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1492955-04 05/19/22 12:56 • (MS) R3793808-5 05/19/22 13:01 • (MSD) R3793808-6 05/19/22 13:06

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Hexavalent Chromium | 20.0 | U | 16.0 | 13.1 | 80.0 | 65.5 | 1 | 75.0-125 | | J6 | 19.9 | 20 |

L1492955-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1492955-04 05/19/22 12:56 • (MS) R3793808-7 05/19/22 13:11

| | Spike Amount | Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier |
|---------------------|--------------|-----------------|-----------|---------|----------|-------------|--------------|
| Analyte | mg/kg | mg/kg | mg/kg | % | | % | |
| Hexavalent Chromium | 651 | U | 656 | 101 | 50 | 75.0-125 | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1494981-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1494981-02 05/19/22 13:55 • (DUP) R3793910-2 05/19/22 13:55

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | pH | su | | % | | % |
| pH | 7.72 | 7.66 | 1 | 0.780 | | 1 |

Sample Narrative:

OS: 7.72 at 22.8C

DUP: 7.66 at 22.9C



L1494981-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1494981-03 05/19/22 13:55 • (DUP) R3793910-3 05/19/22 13:55

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | pH | su | | % | | % |
| pH | 7.58 | 7.57 | 1 | 0.132 | | 1 |

Sample Narrative:

OS: 7.58 at 23C

DUP: 7.57 at 23.2C

Laboratory Control Sample (LCS)

(LCS) R3793910-1 05/19/22 13:55

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------|--------------|------------|----------|-------------|---------------|
| Analyte | su | su | % | % | |
| pH | 10.0 | 9.91 | 99.1 | 99.0-101 | |

Sample Narrative:

LCS: 9.91 at 23C

Method Blank (MB)

(MB) R3791987-1 05/15/22 17:41

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

Sample Narrative:

BLANK: at 25C

L1492939-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1492939-01 05/15/22 17:41 • (DUP) R3791987-3 05/15/22 17:41

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|----------------------|-----------------------------|------------------------|----------|--------------|---------------|------------------------|
| Specific Conductance | 1300 | 1310 | 1 | 0.614 | | 20 |

Sample Narrative:

OS: at 25C

DUP: at 25C

L1492957-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1492957-01 05/15/22 17:41 • (DUP) R3791987-4 05/15/22 17:41

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|----------------------|-----------------------------|------------------------|----------|--------------|---------------|------------------------|
| Specific Conductance | 687 | 619 | 1 | 10.4 | | 20 |

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3791987-2 05/15/22 17:41

| Analyte | Spike Amount umhos/cm | LCS Result umhos/cm | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------------|--------------------------|------------------------|---------------|------------------|---------------|
| Specific Conductance | 268 | 280 | 105 | 85.0-115 | |

Sample Narrative:

LCS: at 25C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3793447-1 05/18/22 18:01

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|----------|--------------------|--------------|-----------------|-----------------|
| Barium | U | | 0.0852 | 0.500 |
| Cadmium | U | | 0.0471 | 0.500 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Zinc | U | | 0.832 | 5.00 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3793447-2 05/18/22 18:03

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------|-----------------------|---------------------|---------------|------------------|---------------|
| Barium | 100 | 104 | 104 | 80.0-120 | |
| Cadmium | 100 | 100 | 100 | 80.0-120 | |
| Copper | 100 | 102 | 102 | 80.0-120 | |
| Lead | 100 | 100 | 100 | 80.0-120 | |
| Nickel | 100 | 102 | 102 | 80.0-120 | |
| Selenium | 100 | 104 | 104 | 80.0-120 | |
| Silver | 20.0 | 19.9 | 99.7 | 80.0-120 | |
| Zinc | 100 | 98.2 | 98.2 | 80.0-120 | |

L1492937-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1492937-01 05/18/22 18:06 • (MS) R3793447-5 05/18/22 18:15 • (MSD) R3793447-6 05/18/22 18:17

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|----------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Barium | 100 | 423 | 612 | 500 | 189 | 77.2 | 1 | 75.0-125 | V | J3 | 20.1 | 20 |
| Cadmium | 100 | 0.687 | 109 | 101 | 109 | 100 | 1 | 75.0-125 | | | 7.75 | 20 |
| Copper | 100 | 23.0 | 138 | 130 | 115 | 107 | 1 | 75.0-125 | | | 6.58 | 20 |
| Lead | 100 | 16.3 | 127 | 118 | 111 | 102 | 1 | 75.0-125 | | | 7.42 | 20 |
| Nickel | 100 | 16.0 | 130 | 121 | 114 | 105 | 1 | 75.0-125 | | | 7.00 | 20 |
| Selenium | 100 | U | 113 | 105 | 113 | 105 | 1 | 75.0-125 | | | 7.57 | 20 |
| Silver | 20.0 | U | 21.8 | 20.3 | 109 | 102 | 1 | 75.0-125 | | | 6.96 | 20 |
| Zinc | 100 | 58.0 | 166 | 156 | 108 | 97.6 | 1 | 75.0-125 | | | 6.48 | 20 |

Method Blank (MB)

(MB) R3793538-1 05/19/22 01:53

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

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

(LCS) R3793538-2 05/19/22 01:55 • (LCSD) R3793538-3 05/19/22 01:58

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCSD Result mg/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|----------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Hot Water Sol. Boron | 1.00 | 1.06 | 1.06 | 106 | 106 | 80.0-120 | | | 0.497 | 20 |

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3792911-1 05/17/22 16:53

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---------|--------------------|--------------|-----------------|-----------------|
| Arsenic | U | | 0.100 | 1.00 |

Laboratory Control Sample (LCS)

(LCS) R3792911-2 05/17/22 16:56

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---------|-----------------------|---------------------|---------------|------------------|---------------|
| Arsenic | 100 | 88.7 | 88.7 | 80.0-120 | |

L1492937-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1492937-01 05/17/22 17:00 • (MS) R3792911-5 05/17/22 17:10 • (MSD) R3792911-6 05/17/22 17:13

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Arsenic | 100 | 5.47 | 96.6 | 86.0 | 91.2 | 80.6 | 5 | 75.0-125 | | | 11.6 | 20 |

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3793487-2 05/18/22 11:35

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| TPH (GC/FID) Low Fraction | U | | 0.0217 | 0.100 |
| (S) a,a,a-Trifluorotoluene(FID) | 98.9 | | | 77.0-120 |

Laboratory Control Sample (LCS)

(LCS) R3793487-1 05/18/22 10:42

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| TPH (GC/FID) Low Fraction | 5.50 | 5.82 | 106 | 72.0-127 | |
| (S) a,a,a-Trifluorotoluene(FID) | | | 105 | 77.0-120 | |

L1492937-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1492937-01 05/18/22 12:22 • (MS) R3793487-3 05/18/22 19:10 • (MSD) R3793487-4 05/18/22 19:30

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|------------------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| TPH (GC/FID) Low Fraction | 5.45 | 0.0322 | 5.53 | 6.11 | 101 | 111 | 1 | 10.0-151 | | | 9.97 | 28 |
| (S) a,a,a-Trifluorotoluene(FID) | | | | | 109 | 112 | | 77.0-120 | | | | |

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3792603-3 05/15/22 09:45

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Benzene | U | | 0.000467 | 0.00100 |
| Toluene | U | | 0.00130 | 0.00500 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| (S) Toluene-d8 | 113 | | | 75.0-131 |
| (S) 4-Bromofluorobenzene | 83.1 | | | 67.0-138 |
| (S) 1,2-Dichloroethane-d4 | 97.2 | | | 70.0-130 |

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

(LCS) R3792603-1 05/15/22 08:28 • (LCSD) R3792603-2 05/15/22 08:47

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene | 0.125 | 0.115 | 0.116 | 92.0 | 92.8 | 70.0-123 | | | 0.866 | 20 |
| Toluene | 0.125 | 0.130 | 0.128 | 104 | 102 | 75.0-121 | | | 1.55 | 20 |
| Ethylbenzene | 0.125 | 0.142 | 0.143 | 114 | 114 | 74.0-126 | | | 0.702 | 20 |
| Xylenes, Total | 0.375 | 0.416 | 0.411 | 111 | 110 | 72.0-127 | | | 1.21 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.125 | 0.122 | 100 | 97.6 | 70.0-126 | | | 2.43 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.119 | 0.118 | 95.2 | 94.4 | 73.0-127 | | | 0.844 | 20 |
| (S) Toluene-d8 | | | | 99.4 | 101 | 75.0-131 | | | | |
| (S) 4-Bromofluorobenzene | | | | 93.8 | 94.8 | 67.0-138 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 113 | 112 | 70.0-130 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3794924-1 05/21/22 10:17

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|-------------------------|--------------------|--------------|-----------------|-----------------|
| C10-C28 Diesel Range | U | | 1.61 | 4.00 |
| C28-C36 Motor Oil Range | 0.316 | ⌵ | 0.274 | 4.00 |
| (S) o-Terphenyl | 66.5 | | | 18.0-148 |

Laboratory Control Sample (LCS)

(LCS) R3794924-2 05/21/22 10:31

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| C10-C28 Diesel Range | 50.0 | 33.4 | 66.8 | 50.0-150 | |
| (S) o-Terphenyl | | | 55.6 | 18.0-148 | |

L1492939-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1492939-07 05/21/22 16:46 • (MS) R3794924-3 05/21/22 16:59 • (MSD) R3794924-4 05/21/22 17:13

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|----------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| C10-C28 Diesel Range | 50.0 | 227 | 304 | 461 | 154 | 468 | 1 | 50.0-150 | ⌵ | E J3 ⌵ | 41.0 | 20 |
| (S) o-Terphenyl | | | | | 43.4 | 84.5 | | 18.0-148 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3793741-2 05/19/22 05:02

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|------------------------|--------------------|--------------|-----------------|-----------------|
| Anthracene | U | | 0.00230 | 0.00600 |
| Acenaphthene | U | | 0.00209 | 0.00600 |
| Acenaphthylene | U | | 0.00216 | 0.00600 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 |
| Benzo(g,h,i)perylene | U | | 0.00177 | 0.00600 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 |
| Chrysene | U | | 0.00232 | 0.00600 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 |
| Fluoranthene | U | | 0.00227 | 0.00600 |
| Fluorene | U | | 0.00205 | 0.00600 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 |
| Naphthalene | U | | 0.00408 | 0.0200 |
| Phenanthrene | U | | 0.00231 | 0.00600 |
| Pyrene | U | | 0.00200 | 0.00600 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 |
| 2-Methylnaphthalene | U | | 0.00427 | 0.0200 |
| 2-Chloronaphthalene | U | | 0.00466 | 0.0200 |
| (S) p-Terphenyl-d14 | 101 | | | 23.0-120 |
| (S) Nitrobenzene-d5 | 67.3 | | | 14.0-149 |
| (S) 2-Fluorobiphenyl | 77.2 | | | 34.0-125 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3793741-1 05/19/22 04:44

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|-----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Anthracene | 0.0800 | 0.0573 | 71.6 | 50.0-126 | |
| Acenaphthene | 0.0800 | 0.0622 | 77.8 | 50.0-120 | |
| Acenaphthylene | 0.0800 | 0.0610 | 76.3 | 50.0-120 | |
| Benzo(a)anthracene | 0.0800 | 0.0579 | 72.4 | 45.0-120 | |
| Benzo(a)pyrene | 0.0800 | 0.0543 | 67.9 | 42.0-120 | |
| Benzo(b)fluoranthene | 0.0800 | 0.0767 | 95.9 | 42.0-121 | |
| Benzo(g,h,i)perylene | 0.0800 | 0.0668 | 83.5 | 45.0-125 | |
| Benzo(k)fluoranthene | 0.0800 | 0.0715 | 89.4 | 49.0-125 | |
| Chrysene | 0.0800 | 0.0667 | 83.4 | 49.0-122 | |
| Dibenz(a,h)anthracene | 0.0800 | 0.0645 | 80.6 | 47.0-125 | |
| Fluoranthene | 0.0800 | 0.0597 | 74.6 | 49.0-129 | |

Laboratory Control Sample (LCS)

(LCS) R3793741-1 05/19/22 04:44

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Fluorene | 0.0800 | 0.0624 | 78.0 | 49.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.0800 | 0.0617 | 77.1 | 46.0-125 | |
| Naphthalene | 0.0800 | 0.0609 | 76.1 | 50.0-120 | |
| Phenanthrene | 0.0800 | 0.0644 | 80.5 | 47.0-120 | |
| Pyrene | 0.0800 | 0.0693 | 86.6 | 43.0-123 | |
| 1-Methylnaphthalene | 0.0800 | 0.0622 | 77.8 | 51.0-121 | |
| 2-Methylnaphthalene | 0.0800 | 0.0596 | 74.5 | 50.0-120 | |
| 2-Chloronaphthalene | 0.0800 | 0.0633 | 79.1 | 50.0-120 | |
| (S) p-Terphenyl-d14 | | | 98.2 | 23.0-120 | |
| (S) Nitrobenzene-d5 | | | 74.6 | 14.0-149 | |
| (S) 2-Fluorobiphenyl | | | 78.7 | 34.0-125 | |

L1492236-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1492236-16 05/19/22 10:59 • (MS) R3793741-3 05/19/22 11:17 • (MSD) R3793741-4 05/19/22 11:35

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Anthracene | 0.0800 | U | 0.0646 | 0.0705 | 80.7 | 88.1 | 1 | 10.0-145 | | | 8.73 | 30 |
| Acenaphthene | 0.0800 | 0.113 | 0.0993 | 0.0954 | 0.000 | 0.000 | 1 | 14.0-127 | J6 | J6 | 4.01 | 27 |
| Acenaphthylene | 0.0800 | U | 0.0694 | 0.0728 | 86.8 | 91.0 | 1 | 21.0-124 | | | 4.78 | 25 |
| Benzo(a)anthracene | 0.0800 | 0.0377 | 0.0736 | 0.0835 | 44.9 | 57.3 | 1 | 10.0-139 | | | 12.6 | 30 |
| Benzo(a)pyrene | 0.0800 | 0.0422 | 0.0675 | 0.0822 | 31.6 | 50.0 | 1 | 10.0-141 | | | 19.6 | 31 |
| Benzo(b)fluoranthene | 0.0800 | 0.0510 | 0.0692 | 0.0915 | 22.8 | 50.6 | 1 | 10.0-140 | | | 27.8 | 36 |
| Benzo(g,h,i)perylene | 0.0800 | 0.0428 | 0.0627 | 0.0808 | 24.9 | 47.5 | 1 | 10.0-140 | | | 25.2 | 33 |
| Benzo(k)fluoranthene | 0.0800 | 0.0170 | 0.0556 | 0.0696 | 48.3 | 65.8 | 1 | 10.0-137 | | | 22.4 | 31 |
| Chrysene | 0.0800 | 0.0483 | 0.0789 | 0.0907 | 38.3 | 53.0 | 1 | 10.0-145 | | | 13.9 | 30 |
| Dibenz(a,h)anthracene | 0.0800 | 0.00784 | 0.0527 | 0.0612 | 56.1 | 66.7 | 1 | 10.0-132 | | | 14.9 | 31 |
| Fluoranthene | 0.0800 | 0.112 | 0.100 | 0.0991 | 0.000 | 0.000 | 1 | 10.0-153 | J6 | J6 | 0.904 | 33 |
| Fluorene | 0.0800 | 0.139 | 0.0896 | 0.0971 | 0.000 | 0.000 | 1 | 11.0-130 | J6 | J6 | 8.03 | 29 |
| Indeno(1,2,3-cd)pyrene | 0.0800 | 0.0327 | 0.0599 | 0.0801 | 34.0 | 59.3 | 1 | 10.0-137 | | | 28.9 | 32 |
| Naphthalene | 0.0800 | 0.0814 | 0.0669 | 0.0776 | 0.000 | 0.000 | 1 | 10.0-135 | J6 | J6 | 14.8 | 27 |
| Phenanthrene | 0.0800 | 0.211 | 0.118 | 0.129 | 0.000 | 0.000 | 1 | 10.0-144 | J6 | J6 | 8.91 | 31 |
| Pyrene | 0.0800 | 0.169 | 0.128 | 0.114 | 0.000 | 0.000 | 1 | 10.0-148 | J6 | J6 | 11.6 | 35 |
| 1-Methylnaphthalene | 0.0800 | 0.249 | 0.106 | 0.177 | 0.000 | 0.000 | 1 | 10.0-142 | J6 | J3 J6 | 50.2 | 28 |
| 2-Methylnaphthalene | 0.0800 | 0.138 | 0.0807 | 0.237 | 0.000 | 124 | 1 | 10.0-137 | J6 | J3 | 98.4 | 28 |
| 2-Chloronaphthalene | 0.0800 | U | 0.0532 | 0.0571 | 66.5 | 71.4 | 1 | 29.0-120 | | | 7.07 | 24 |
| (S) p-Terphenyl-d14 | | | | | 78.7 | 88.1 | | 23.0-120 | | | | |
| (S) Nitrobenzene-d5 | | | | | 58.0 | 68.3 | | 14.0-149 | | | | |
| (S) 2-Fluorobiphenyl | | | | | 68.3 | 73.5 | | 34.0-125 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

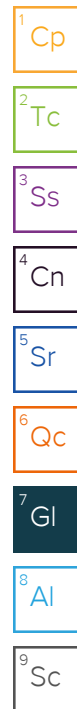
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

| Qualifier | Description |
|-----------|---|
| B | The same analyte is found in the associated blank. |
| E | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| O1 | The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference. |
| T8 | Sample(s) received past/too close to holding time expiration. |
| V | The sample concentration is too high to evaluate accurate spike recoveries. |



ACCREDITATIONS & LOCATIONS

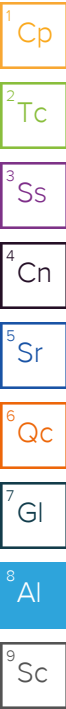
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



| | | |
|---------------|-----|--|
| Trip Blank Re | | |
| HCl | MeC | |

Confluence Compliance Companies - CO

Sample Delivery Group: L1516270
Samples Received: 07/19/2022
Project Number:
Description: Federal 1-30 P&A
Site: FEDERAL 1-30
Report To: Chris McKisson
403 ½ Rockwood Lane
Grand Junction, CO 81507

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

TABLE OF CONTENTS

| | |
|---|-----------|
| Cp: Cover Page | 1 |
| Tc: Table of Contents | 2 |
| Ss: Sample Summary | 3 |
| Cn: Case Narrative | 5 |
| Sr: Sample Results | 6 |
| 220713-FED_1-30MH@1' L1516270-01 | 6 |
| 220713-FED_1-30PJ@1' L1516270-02 | 8 |
| 220713-FED_1-30WH@6' L1516270-03 | 10 |
| 220713-FED_1-30DEHY@1' L1516270-04 | 12 |
| 220713-FED_1-30SEP@1' L1516270-05 | 14 |
| Qc: Quality Control Summary | 16 |
| Wet Chemistry by Method 7199 | 16 |
| Wet Chemistry by Method 9045D | 17 |
| Wet Chemistry by Method 9050AMod | 18 |
| Metals (ICP) by Method 6010B | 19 |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | 22 |
| Metals (ICPMS) by Method 6020 | 23 |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | 26 |
| Volatile Organic Compounds (GC/MS) by Method 8260B | 27 |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | 29 |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | 30 |
| Gl: Glossary of Terms | 32 |
| Al: Accreditations & Locations | 33 |
| Sc: Sample Chain of Custody | 34 |



SAMPLE SUMMARY

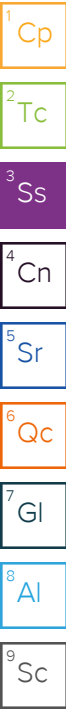
220713-FED_1-30MH@1' L1516270-01 Solid

Collected by
Andrew Smith

Collected date/time
07/13/22 08:50

Received date/time
07/19/22 10:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1902326 | 1 | 08/01/22 17:42 | 08/01/22 17:42 | CCE | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1904736 | 1 | 08/10/22 23:49 | 08/12/22 08:55 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1898105 | 1 | 07/20/22 13:16 | 07/20/22 14:50 | SDE | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1901909 | 1 | 07/31/22 07:01 | 07/31/22 09:54 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1898401 | 1 | 07/28/22 17:04 | 07/30/22 00:11 | KMG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1903564 | 1 | 07/31/22 17:02 | 08/05/22 00:05 | CCE | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1898410 | 5 | 07/28/22 17:08 | 07/30/22 03:18 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1897815 | 1 | 07/19/22 19:30 | 07/22/22 04:45 | MGF | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1899141 | 1 | 07/19/22 19:30 | 07/22/22 12:38 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1900464 | 1 | 07/25/22 17:39 | 07/26/22 21:13 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1900466 | 1 | 07/26/22 04:51 | 07/27/22 00:21 | AMM | Mt. Juliet, TN |



220713-FED_1-30PJ@1' L1516270-02 Solid

Collected by
Andrew Smith

Collected date/time
07/13/22 08:55

Received date/time
07/19/22 10:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1902326 | 1 | 08/01/22 17:45 | 08/01/22 17:45 | CCE | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1904736 | 1 | 08/10/22 23:49 | 08/12/22 09:00 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1898105 | 1 | 07/20/22 13:16 | 07/20/22 14:50 | SDE | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1901909 | 1 | 07/31/22 07:01 | 07/31/22 09:54 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1898401 | 1 | 07/28/22 17:04 | 07/29/22 22:59 | KMG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1903564 | 1 | 07/31/22 17:02 | 08/05/22 00:08 | CCE | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1898410 | 5 | 07/28/22 17:08 | 07/30/22 01:49 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1897815 | 1 | 07/19/22 19:30 | 07/22/22 05:20 | MGF | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1899141 | 1 | 07/19/22 19:30 | 07/22/22 12:58 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1900464 | 1 | 07/25/22 17:39 | 07/26/22 19:54 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1900466 | 1 | 07/26/22 04:51 | 07/27/22 00:39 | AMM | Mt. Juliet, TN |

220713-FED_1-30WH@6' L1516270-03 Solid

Collected by
Andrew Smith

Collected date/time
07/13/22 09:05

Received date/time
07/19/22 10:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1902326 | 1 | 08/01/22 17:47 | 08/01/22 17:47 | CCE | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1904736 | 1 | 08/10/22 23:49 | 08/12/22 09:05 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1898105 | 1 | 07/20/22 13:16 | 07/20/22 14:50 | SDE | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1901909 | 1 | 07/31/22 07:01 | 07/31/22 09:54 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1898413 | 1 | 07/25/22 15:54 | 07/26/22 10:48 | CCE | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1903564 | 1 | 07/31/22 17:02 | 08/05/22 00:11 | CCE | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1898419 | 5 | 07/25/22 16:15 | 07/26/22 01:08 | SJM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1897815 | 1 | 07/19/22 19:30 | 07/22/22 05:42 | MGF | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1899141 | 1 | 07/19/22 19:30 | 07/22/22 13:17 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1900464 | 1 | 07/25/22 17:39 | 07/26/22 21:26 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1900466 | 1 | 07/26/22 04:51 | 07/27/22 00:57 | AMM | Mt. Juliet, TN |

220713-FED_1-30DEHY@1' L1516270-04 Solid

Collected by
Andrew Smith

Collected date/time
07/13/22 16:10

Received date/time
07/19/22 10:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|----------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1902326 | 1 | 08/01/22 17:50 | 08/01/22 17:50 | CCE | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1904736 | 1 | 08/10/22 23:49 | 08/12/22 09:10 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1898105 | 1 | 07/20/22 13:16 | 07/20/22 14:50 | SDE | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1901909 | 1 | 07/31/22 07:01 | 07/31/22 09:54 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1898413 | 1 | 07/25/22 15:54 | 07/26/22 10:51 | CCE | Mt. Juliet, TN |

SAMPLE SUMMARY

220713-FED_1-30DEHY@1' L1516270-04 Solid

Collected by
Andrew Smith

Collected date/time
07/13/22 16:10

Received date/time
07/19/22 10:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1903564 | 1 | 07/31/22 17:02 | 08/05/22 00:14 | CCE | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1898419 | 5 | 07/25/22 16:15 | 07/26/22 01:12 | SJM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1897815 | 1 | 07/19/22 19:30 | 07/22/22 06:04 | MGF | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1899141 | 1 | 07/19/22 19:30 | 07/22/22 13:37 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1900464 | 1 | 07/25/22 17:39 | 07/26/22 20:07 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1900466 | 1 | 07/26/22 04:51 | 07/27/22 01:15 | AMM | Mt. Juliet, TN |

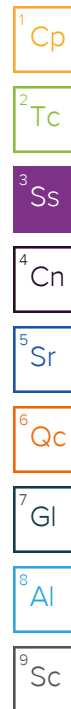
220713-FED_1-30SEP@1' L1516270-05 Solid

Collected by
Andrew Smith

Collected date/time
07/13/22 16:15

Received date/time
07/19/22 10:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1902326 | 1 | 08/01/22 17:53 | 08/01/22 17:53 | CCE | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1904736 | 1 | 08/10/22 23:49 | 08/12/22 09:15 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1898105 | 1 | 07/20/22 13:16 | 07/20/22 14:50 | SDE | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1901909 | 1 | 07/31/22 07:01 | 07/31/22 09:54 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1905586 | 1 | 08/04/22 14:06 | 08/05/22 14:30 | KMG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1903564 | 1 | 07/31/22 17:02 | 08/05/22 00:17 | CCE | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1905637 | 5 | 08/04/22 13:53 | 08/05/22 13:53 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1897815 | 1 | 07/19/22 19:30 | 07/22/22 06:25 | MGF | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1899168 | 1 | 07/19/22 19:30 | 07/22/22 09:46 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1900464 | 1 | 07/25/22 17:39 | 07/26/22 20:20 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1900466 | 1 | 07/26/22 04:51 | 07/27/22 01:32 | AMM | Mt. Juliet, TN |

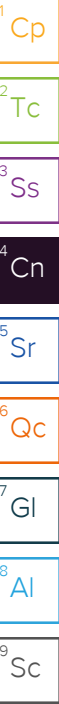


CASE NARRATIVE

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



Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 0.261 | | 1 | 08/01/2022 17:42 | WG1902326 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | 0.565 | J | 0.255 | 1.00 | 1 | 08/12/2022 08:55 | WG1904736 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|-----------|----------|----------------------|---------------------------|
| pH | 8.26 | T8 | 1 | 07/20/2022 14:50 | WG1898105 |

Sample Narrative:

L1516270-01 WG1898105: 8.26 at 25.3C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 262 | | 10.0 | 1 | 07/31/2022 09:54 | WG1901909 |

Sample Narrative:

L1516270-01 WG1901909: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 226 | | 0.0852 | 0.500 | 1 | 07/30/2022 00:11 | WG1898401 |
| Cadmium | 0.187 | J | 0.0471 | 0.500 | 1 | 07/30/2022 00:11 | WG1898401 |
| Copper | 36.8 | | 0.400 | 2.00 | 1 | 07/30/2022 00:11 | WG1898401 |
| Lead | 11.9 | | 0.208 | 0.500 | 1 | 07/30/2022 00:11 | WG1898401 |
| Nickel | 21.8 | | 0.132 | 2.00 | 1 | 07/30/2022 00:11 | WG1898401 |
| Selenium | U | | 0.764 | 2.00 | 1 | 07/30/2022 00:11 | WG1898401 |
| Silver | U | | 0.127 | 1.00 | 1 | 07/30/2022 00:11 | WG1898401 |
| Zinc | 78.9 | | 0.832 | 5.00 | 1 | 07/30/2022 00:11 | WG1898401 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.551 | | 0.0167 | 0.200 | 1 | 08/05/2022 00:05 | WG1903564 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 2.11 | | 0.100 | 1.00 | 5 | 07/30/2022 03:18 | WG1898410 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.0455 | J | 0.0217 | 0.100 | 1 | 07/22/2022 04:45 | WG1897815 |
| (S) a,a,a-Trifluorotoluene(FID) | 111 | | | 77.0-120 | | 07/22/2022 04:45 | WG1897815 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.000467 | 0.00100 | 1 | 07/22/2022 12:38 | WG1899141 |
| Toluene | U | | 0.00130 | 0.00500 | 1 | 07/22/2022 12:38 | WG1899141 |
| Ethylbenzene | U | | 0.000737 | 0.00250 | 1 | 07/22/2022 12:38 | WG1899141 |
| Xylenes, Total | U | | 0.000880 | 0.00650 | 1 | 07/22/2022 12:38 | WG1899141 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 | 1 | 07/22/2022 12:38 | WG1899141 |
| 1,3,5-Trimethylbenzene | 0.00200 | J | 0.00200 | 0.00500 | 1 | 07/22/2022 12:38 | WG1899141 |
| (S) Toluene-d8 | 104 | | | 75.0-131 | | 07/22/2022 12:38 | WG1899141 |
| (S) 4-Bromofluorobenzene | 102 | | | 67.0-138 | | 07/22/2022 12:38 | WG1899141 |
| (S) 1,2-Dichloroethane-d4 | 94.8 | | | 70.0-130 | | 07/22/2022 12:38 | WG1899141 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | 7.41 | | 1.61 | 4.00 | 1 | 07/26/2022 21:13 | WG1900464 |
| C28-C36 Motor Oil Range | 18.0 | | 0.274 | 4.00 | 1 | 07/26/2022 21:13 | WG1900464 |
| (S) o-Terphenyl | 63.1 | | | 18.0-148 | | 07/26/2022 21:13 | WG1900464 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 07/27/2022 00:21 | WG1900466 |
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 07/27/2022 00:21 | WG1900466 |
| Acenaphthylene | U | | 0.00216 | 0.00600 | 1 | 07/27/2022 00:21 | WG1900466 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 07/27/2022 00:21 | WG1900466 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 07/27/2022 00:21 | WG1900466 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 07/27/2022 00:21 | WG1900466 |
| Benzo(g,h,i)perylene | U | | 0.00177 | 0.00600 | 1 | 07/27/2022 00:21 | WG1900466 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 07/27/2022 00:21 | WG1900466 |
| Chrysene | U | | 0.00232 | 0.00600 | 1 | 07/27/2022 00:21 | WG1900466 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 07/27/2022 00:21 | WG1900466 |
| Fluoranthene | U | | 0.00227 | 0.00600 | 1 | 07/27/2022 00:21 | WG1900466 |
| Fluorene | U | | 0.00205 | 0.00600 | 1 | 07/27/2022 00:21 | WG1900466 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 07/27/2022 00:21 | WG1900466 |
| Naphthalene | U | | 0.00408 | 0.0200 | 1 | 07/27/2022 00:21 | WG1900466 |
| Phenanthrene | U | | 0.00231 | 0.00600 | 1 | 07/27/2022 00:21 | WG1900466 |
| Pyrene | U | | 0.00200 | 0.00600 | 1 | 07/27/2022 00:21 | WG1900466 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 | 1 | 07/27/2022 00:21 | WG1900466 |
| 2-Methylnaphthalene | U | | 0.00427 | 0.0200 | 1 | 07/27/2022 00:21 | WG1900466 |
| 2-Chloronaphthalene | U | | 0.00466 | 0.0200 | 1 | 07/27/2022 00:21 | WG1900466 |
| (S) p-Terphenyl-d14 | 75.5 | | | 23.0-120 | | 07/27/2022 00:21 | WG1900466 |
| (S) Nitrobenzene-d5 | 62.8 | | | 14.0-149 | | 07/27/2022 00:21 | WG1900466 |
| (S) 2-Fluorobiphenyl | 70.4 | | | 34.0-125 | | 07/27/2022 00:21 | WG1900466 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 41.8 | | 1 | 08/01/2022 17:45 | WG1902326 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | U | | 0.255 | 1.00 | 1 | 08/12/2022 09:00 | WG1904736 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|--------------------|----------|----------------------|---------------------------|
| pH | 8.12 | T8 | 1 | 07/20/2022 14:50 | WG1898105 |

Sample Narrative:
L1516270-02 WG1898105: 8.12 at 24.8C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 8840 | | 10.0 | 1 | 07/31/2022 09:54 | WG1901909 |

Sample Narrative:
L1516270-02 WG1901909: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-------------------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 776 | V | 0.0852 | 0.500 | 1 | 07/29/2022 22:59 | WG1898401 |
| Cadmium | 0.438 | J | 0.0471 | 0.500 | 1 | 07/29/2022 22:59 | WG1898401 |
| Copper | 27.2 | | 0.400 | 2.00 | 1 | 07/29/2022 22:59 | WG1898401 |
| Lead | 28.0 | | 0.208 | 0.500 | 1 | 07/29/2022 22:59 | WG1898401 |
| Nickel | 17.2 | | 0.132 | 2.00 | 1 | 07/29/2022 22:59 | WG1898401 |
| Selenium | U | | 0.764 | 2.00 | 1 | 07/29/2022 22:59 | WG1898401 |
| Silver | U | | 0.127 | 1.00 | 1 | 07/29/2022 22:59 | WG1898401 |
| Zinc | 101 | | 0.832 | 5.00 | 1 | 07/29/2022 22:59 | WG1898401 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.632 | | 0.0167 | 0.200 | 1 | 08/05/2022 00:08 | WG1903564 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 5.25 | | 0.100 | 1.00 | 5 | 07/30/2022 01:49 | WG1898410 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|--|--------------|-------------------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.0678 | J | 0.0217 | 0.100 | 1 | 07/22/2022 05:20 | WG1897815 |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 107 | | | 77.0-120 | | 07/22/2022 05:20 | WG1897815 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.000467 | 0.00100 | 1 | 07/22/2022 12:58 | WG1899141 |
| Toluene | U | | 0.00130 | 0.00500 | 1 | 07/22/2022 12:58 | WG1899141 |
| Ethylbenzene | U | | 0.000737 | 0.00250 | 1 | 07/22/2022 12:58 | WG1899141 |
| Xylenes, Total | U | | 0.000880 | 0.00650 | 1 | 07/22/2022 12:58 | WG1899141 |
| 1,2,4-Trimethylbenzene | 0.00703 | | 0.00158 | 0.00500 | 1 | 07/22/2022 12:58 | WG1899141 |
| 1,3,5-Trimethylbenzene | 0.0143 | | 0.00200 | 0.00500 | 1 | 07/22/2022 12:58 | WG1899141 |
| (S) Toluene-d8 | 104 | | | 75.0-131 | | 07/22/2022 12:58 | WG1899141 |
| (S) 4-Bromofluorobenzene | 103 | | | 67.0-138 | | 07/22/2022 12:58 | WG1899141 |
| (S) 1,2-Dichloroethane-d4 | 96.3 | | | 70.0-130 | | 07/22/2022 12:58 | WG1899141 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-------------------|--------------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | 2.19 | J | 1.61 | 4.00 | 1 | 07/26/2022 19:54 | WG1900464 |
| C28-C36 Motor Oil Range | 3.54 | J | 0.274 | 4.00 | 1 | 07/26/2022 19:54 | WG1900464 |
| (S) o-Terphenyl | 57.5 | | | 18.0-148 | | 07/26/2022 19:54 | WG1900464 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 07/27/2022 00:39 | WG1900466 |
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 07/27/2022 00:39 | WG1900466 |
| Acenaphthylene | U | | 0.00216 | 0.00600 | 1 | 07/27/2022 00:39 | WG1900466 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 07/27/2022 00:39 | WG1900466 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 07/27/2022 00:39 | WG1900466 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 07/27/2022 00:39 | WG1900466 |
| Benzo(g,h,i)perylene | U | | 0.00177 | 0.00600 | 1 | 07/27/2022 00:39 | WG1900466 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 07/27/2022 00:39 | WG1900466 |
| Chrysene | U | | 0.00232 | 0.00600 | 1 | 07/27/2022 00:39 | WG1900466 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 07/27/2022 00:39 | WG1900466 |
| Fluoranthene | U | | 0.00227 | 0.00600 | 1 | 07/27/2022 00:39 | WG1900466 |
| Fluorene | U | | 0.00205 | 0.00600 | 1 | 07/27/2022 00:39 | WG1900466 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 07/27/2022 00:39 | WG1900466 |
| Naphthalene | U | | 0.00408 | 0.0200 | 1 | 07/27/2022 00:39 | WG1900466 |
| Phenanthrene | U | | 0.00231 | 0.00600 | 1 | 07/27/2022 00:39 | WG1900466 |
| Pyrene | U | | 0.00200 | 0.00600 | 1 | 07/27/2022 00:39 | WG1900466 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 | 1 | 07/27/2022 00:39 | WG1900466 |
| 2-Methylnaphthalene | U | | 0.00427 | 0.0200 | 1 | 07/27/2022 00:39 | WG1900466 |
| 2-Chloronaphthalene | U | | 0.00466 | 0.0200 | 1 | 07/27/2022 00:39 | WG1900466 |
| (S) p-Terphenyl-d14 | 76.1 | | | 23.0-120 | | 07/27/2022 00:39 | WG1900466 |
| (S) Nitrobenzene-d5 | 68.7 | | | 14.0-149 | | 07/27/2022 00:39 | WG1900466 |
| (S) 2-Fluorobiphenyl | 74.4 | | | 34.0-125 | | 07/27/2022 00:39 | WG1900466 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 24.5 | | 1 | 08/01/2022 17:47 | WG1902326 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | U | | 0.255 | 1.00 | 1 | 08/12/2022 09:05 | WG1904736 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|--------------------|----------|----------------------|---------------------------|
| pH | 7.84 | T8 | 1 | 07/20/2022 14:50 | WG1898105 |

Sample Narrative:

L1516270-03 WG1898105: 7.84 at 25C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 13400 | | 10.0 | 1 | 07/31/2022 09:54 | WG1901909 |

Sample Narrative:

L1516270-03 WG1901909: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-------------------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 108 | | 0.0852 | 0.500 | 1 | 07/26/2022 10:48 | WG1898413 |
| Cadmium | 0.470 | J | 0.0471 | 0.500 | 1 | 07/26/2022 10:48 | WG1898413 |
| Copper | 30.2 | | 0.400 | 2.00 | 1 | 07/26/2022 10:48 | WG1898413 |
| Lead | 14.4 | | 0.208 | 0.500 | 1 | 07/26/2022 10:48 | WG1898413 |
| Nickel | 17.6 | | 0.132 | 2.00 | 1 | 07/26/2022 10:48 | WG1898413 |
| Selenium | U | | 0.764 | 2.00 | 1 | 07/26/2022 10:48 | WG1898413 |
| Silver | U | | 0.127 | 1.00 | 1 | 07/26/2022 10:48 | WG1898413 |
| Zinc | 71.6 | | 0.832 | 5.00 | 1 | 07/26/2022 10:48 | WG1898413 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 1.26 | | 0.0167 | 0.200 | 1 | 08/05/2022 00:11 | WG1903564 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 6.06 | | 0.100 | 1.00 | 5 | 07/26/2022 01:08 | WG1898419 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|--|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.224 | | 0.0217 | 0.100 | 1 | 07/22/2022 05:42 | WG1897815 |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 110 | | | 77.0-120 | | 07/22/2022 05:42 | WG1897815 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.000467 | 0.00100 | 1 | 07/22/2022 13:17 | WG1899141 |
| Toluene | U | | 0.00130 | 0.00500 | 1 | 07/22/2022 13:17 | WG1899141 |
| Ethylbenzene | U | | 0.000737 | 0.00250 | 1 | 07/22/2022 13:17 | WG1899141 |
| Xylenes, Total | U | | 0.000880 | 0.00650 | 1 | 07/22/2022 13:17 | WG1899141 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 | 1 | 07/22/2022 13:17 | WG1899141 |
| 1,3,5-Trimethylbenzene | 0.00361 | J | 0.00200 | 0.00500 | 1 | 07/22/2022 13:17 | WG1899141 |
| (S) Toluene-d8 | 107 | | | 75.0-131 | | 07/22/2022 13:17 | WG1899141 |
| (S) 4-Bromofluorobenzene | 105 | | | 67.0-138 | | 07/22/2022 13:17 | WG1899141 |
| (S) 1,2-Dichloroethane-d4 | 97.4 | | | 70.0-130 | | 07/22/2022 13:17 | WG1899141 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | 32.5 | | 1.61 | 4.00 | 1 | 07/26/2022 21:26 | WG1900464 |
| C28-C36 Motor Oil Range | 56.4 | | 0.274 | 4.00 | 1 | 07/26/2022 21:26 | WG1900464 |
| (S) o-Terphenyl | 49.8 | | | 18.0-148 | | 07/26/2022 21:26 | WG1900464 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 07/27/2022 00:57 | WG1900466 |
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 07/27/2022 00:57 | WG1900466 |
| Acenaphthylene | U | | 0.00216 | 0.00600 | 1 | 07/27/2022 00:57 | WG1900466 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 07/27/2022 00:57 | WG1900466 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 07/27/2022 00:57 | WG1900466 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 07/27/2022 00:57 | WG1900466 |
| Benzo(g,h,i)perylene | U | | 0.00177 | 0.00600 | 1 | 07/27/2022 00:57 | WG1900466 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 07/27/2022 00:57 | WG1900466 |
| Chrysene | U | | 0.00232 | 0.00600 | 1 | 07/27/2022 00:57 | WG1900466 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 07/27/2022 00:57 | WG1900466 |
| Fluoranthene | U | | 0.00227 | 0.00600 | 1 | 07/27/2022 00:57 | WG1900466 |
| Fluorene | U | | 0.00205 | 0.00600 | 1 | 07/27/2022 00:57 | WG1900466 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 07/27/2022 00:57 | WG1900466 |
| Naphthalene | U | | 0.00408 | 0.0200 | 1 | 07/27/2022 00:57 | WG1900466 |
| Phenanthrene | U | | 0.00231 | 0.00600 | 1 | 07/27/2022 00:57 | WG1900466 |
| Pyrene | U | | 0.00200 | 0.00600 | 1 | 07/27/2022 00:57 | WG1900466 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 | 1 | 07/27/2022 00:57 | WG1900466 |
| 2-Methylnaphthalene | U | | 0.00427 | 0.0200 | 1 | 07/27/2022 00:57 | WG1900466 |
| 2-Chloronaphthalene | U | | 0.00466 | 0.0200 | 1 | 07/27/2022 00:57 | WG1900466 |
| (S) p-Terphenyl-d14 | 52.7 | | | 23.0-120 | | 07/27/2022 00:57 | WG1900466 |
| (S) Nitrobenzene-d5 | 62.8 | | | 14.0-149 | | 07/27/2022 00:57 | WG1900466 |
| (S) 2-Fluorobiphenyl | 44.8 | | | 34.0-125 | | 07/27/2022 00:57 | WG1900466 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 3.04 | | 1 | 08/01/2022 17:50 | WG1902326 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | U | | 0.255 | 1.00 | 1 | 08/12/2022 09:10 | WG1904736 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|--------------------|----------|----------------------|---------------------------|
| pH | 7.99 | T8 | 1 | 07/20/2022 14:50 | WG1898105 |

Sample Narrative:

L1516270-04 WG1898105: 7.99 at 24.9C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 933 | | 10.0 | 1 | 07/31/2022 09:54 | WG1901909 |

Sample Narrative:

L1516270-04 WG1901909: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 223 | | 0.0852 | 0.500 | 1 | 07/26/2022 10:51 | WG1898413 |
| Cadmium | 0.579 | | 0.0471 | 0.500 | 1 | 07/26/2022 10:51 | WG1898413 |
| Copper | 35.1 | | 0.400 | 2.00 | 1 | 07/26/2022 10:51 | WG1898413 |
| Lead | 12.8 | | 0.208 | 0.500 | 1 | 07/26/2022 10:51 | WG1898413 |
| Nickel | 22.3 | | 0.132 | 2.00 | 1 | 07/26/2022 10:51 | WG1898413 |
| Selenium | U | | 0.764 | 2.00 | 1 | 07/26/2022 10:51 | WG1898413 |
| Silver | U | | 0.127 | 1.00 | 1 | 07/26/2022 10:51 | WG1898413 |
| Zinc | 84.7 | | 0.832 | 5.00 | 1 | 07/26/2022 10:51 | WG1898413 |

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

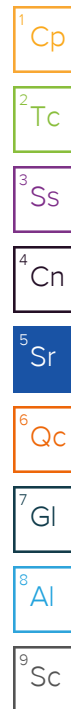
| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 1.42 | | 0.0167 | 0.200 | 1 | 08/05/2022 00:14 | WG1903564 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 3.47 | | 0.100 | 1.00 | 5 | 07/26/2022 01:12 | WG1898419 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|--|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | U | | 0.0217 | 0.100 | 1 | 07/22/2022 06:04 | WG1897815 |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 111 | | | 77.0-120 | | 07/22/2022 06:04 | WG1897815 |



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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.000467 | 0.00100 | 1 | 07/22/2022 13:37 | WG1899141 |
| Toluene | U | | 0.00130 | 0.00500 | 1 | 07/22/2022 13:37 | WG1899141 |
| Ethylbenzene | U | | 0.000737 | 0.00250 | 1 | 07/22/2022 13:37 | WG1899141 |
| Xylenes, Total | U | | 0.000880 | 0.00650 | 1 | 07/22/2022 13:37 | WG1899141 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 | 1 | 07/22/2022 13:37 | WG1899141 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 | 1 | 07/22/2022 13:37 | WG1899141 |
| (S) Toluene-d8 | 104 | | | 75.0-131 | | 07/22/2022 13:37 | WG1899141 |
| (S) 4-Bromofluorobenzene | 102 | | | 67.0-138 | | 07/22/2022 13:37 | WG1899141 |
| (S) 1,2-Dichloroethane-d4 | 99.1 | | | 70.0-130 | | 07/22/2022 13:37 | WG1899141 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | 2.68 | J | 1.61 | 4.00 | 1 | 07/26/2022 20:07 | WG1900464 |
| C28-C36 Motor Oil Range | 3.98 | J | 0.274 | 4.00 | 1 | 07/26/2022 20:07 | WG1900464 |
| (S) o-Terphenyl | 65.5 | | | 18.0-148 | | 07/26/2022 20:07 | WG1900464 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 07/27/2022 01:15 | WG1900466 |
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 07/27/2022 01:15 | WG1900466 |
| Acenaphthylene | U | | 0.00216 | 0.00600 | 1 | 07/27/2022 01:15 | WG1900466 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 07/27/2022 01:15 | WG1900466 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 07/27/2022 01:15 | WG1900466 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 07/27/2022 01:15 | WG1900466 |
| Benzo(g,h,i)perylene | U | | 0.00177 | 0.00600 | 1 | 07/27/2022 01:15 | WG1900466 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 07/27/2022 01:15 | WG1900466 |
| Chrysene | U | | 0.00232 | 0.00600 | 1 | 07/27/2022 01:15 | WG1900466 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 07/27/2022 01:15 | WG1900466 |
| Fluoranthene | U | | 0.00227 | 0.00600 | 1 | 07/27/2022 01:15 | WG1900466 |
| Fluorene | U | | 0.00205 | 0.00600 | 1 | 07/27/2022 01:15 | WG1900466 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 07/27/2022 01:15 | WG1900466 |
| Naphthalene | U | | 0.00408 | 0.0200 | 1 | 07/27/2022 01:15 | WG1900466 |
| Phenanthrene | U | | 0.00231 | 0.00600 | 1 | 07/27/2022 01:15 | WG1900466 |
| Pyrene | U | | 0.00200 | 0.00600 | 1 | 07/27/2022 01:15 | WG1900466 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 | 1 | 07/27/2022 01:15 | WG1900466 |
| 2-Methylnaphthalene | U | | 0.00427 | 0.0200 | 1 | 07/27/2022 01:15 | WG1900466 |
| 2-Chloronaphthalene | U | | 0.00466 | 0.0200 | 1 | 07/27/2022 01:15 | WG1900466 |
| (S) p-Terphenyl-d14 | 68.7 | | | 23.0-120 | | 07/27/2022 01:15 | WG1900466 |
| (S) Nitrobenzene-d5 | 60.7 | | | 14.0-149 | | 07/27/2022 01:15 | WG1900466 |
| (S) 2-Fluorobiphenyl | 65.9 | | | 34.0-125 | | 07/27/2022 01:15 | WG1900466 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 19.3 | | 1 | 08/01/2022 17:53 | WG1902326 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | U | | 0.255 | 1.00 | 1 | 08/12/2022 09:15 | WG1904736 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|--------------------|----------|----------------------|---------------------------|
| pH | 8.73 | T8 | 1 | 07/20/2022 14:50 | WG1898105 |

Sample Narrative:

L1516270-05 WG1898105: 8.73 at 24.7C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 1260 | | 10.0 | 1 | 07/31/2022 09:54 | WG1901909 |

Sample Narrative:

L1516270-05 WG1901909: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-------------------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 156 | | 0.0852 | 0.500 | 1 | 08/05/2022 14:30 | WG1905586 |
| Cadmium | 0.483 | J | 0.0471 | 0.500 | 1 | 08/05/2022 14:30 | WG1905586 |
| Copper | 26.0 | | 0.400 | 2.00 | 1 | 08/05/2022 14:30 | WG1905586 |
| Lead | 18.1 | | 0.208 | 0.500 | 1 | 08/05/2022 14:30 | WG1905586 |
| Nickel | 17.0 | | 0.132 | 2.00 | 1 | 08/05/2022 14:30 | WG1905586 |
| Selenium | U | | 0.764 | 2.00 | 1 | 08/05/2022 14:30 | WG1905586 |
| Silver | U | | 0.127 | 1.00 | 1 | 08/05/2022 14:30 | WG1905586 |
| Zinc | 64.3 | | 0.832 | 5.00 | 1 | 08/05/2022 14:30 | WG1905586 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.676 | | 0.0167 | 0.200 | 1 | 08/05/2022 00:17 | WG1903564 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 4.41 | | 0.100 | 1.00 | 5 | 08/05/2022 13:53 | WG1905637 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|--|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | U | | 0.0217 | 0.100 | 1 | 07/22/2022 06:25 | WG1897815 |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 114 | | | 77.0-120 | | 07/22/2022 06:25 | WG1897815 |



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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.000467 | 0.00100 | 1 | 07/22/2022 09:46 | WG1899168 |
| Toluene | U | | 0.00130 | 0.00500 | 1 | 07/22/2022 09:46 | WG1899168 |
| Ethylbenzene | U | | 0.000737 | 0.00250 | 1 | 07/22/2022 09:46 | WG1899168 |
| Xylenes, Total | U | | 0.000880 | 0.00650 | 1 | 07/22/2022 09:46 | WG1899168 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 | 1 | 07/22/2022 09:46 | WG1899168 |
| 1,3,5-Trimethylbenzene | 0.00213 | J | 0.00200 | 0.00500 | 1 | 07/22/2022 09:46 | WG1899168 |
| (S) Toluene-d8 | 108 | | | 75.0-131 | | 07/22/2022 09:46 | WG1899168 |
| (S) 4-Bromofluorobenzene | 103 | | | 67.0-138 | | 07/22/2022 09:46 | WG1899168 |
| (S) 1,2-Dichloroethane-d4 | 93.8 | | | 70.0-130 | | 07/22/2022 09:46 | WG1899168 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | 27.1 | | 1.61 | 4.00 | 1 | 07/26/2022 20:20 | WG1900464 |
| C28-C36 Motor Oil Range | 15.9 | | 0.274 | 4.00 | 1 | 07/26/2022 20:20 | WG1900464 |
| (S) o-Terphenyl | 55.4 | | | 18.0-148 | | 07/26/2022 20:20 | WG1900464 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 07/27/2022 01:32 | WG1900466 |
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 07/27/2022 01:32 | WG1900466 |
| Acenaphthylene | U | | 0.00216 | 0.00600 | 1 | 07/27/2022 01:32 | WG1900466 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 07/27/2022 01:32 | WG1900466 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 07/27/2022 01:32 | WG1900466 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 07/27/2022 01:32 | WG1900466 |
| Benzo(g,h,i)perylene | U | | 0.00177 | 0.00600 | 1 | 07/27/2022 01:32 | WG1900466 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 07/27/2022 01:32 | WG1900466 |
| Chrysene | U | | 0.00232 | 0.00600 | 1 | 07/27/2022 01:32 | WG1900466 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 07/27/2022 01:32 | WG1900466 |
| Fluoranthene | U | | 0.00227 | 0.00600 | 1 | 07/27/2022 01:32 | WG1900466 |
| Fluorene | U | | 0.00205 | 0.00600 | 1 | 07/27/2022 01:32 | WG1900466 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 07/27/2022 01:32 | WG1900466 |
| Naphthalene | U | | 0.00408 | 0.0200 | 1 | 07/27/2022 01:32 | WG1900466 |
| Phenanthrene | U | | 0.00231 | 0.00600 | 1 | 07/27/2022 01:32 | WG1900466 |
| Pyrene | U | | 0.00200 | 0.00600 | 1 | 07/27/2022 01:32 | WG1900466 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 | 1 | 07/27/2022 01:32 | WG1900466 |
| 2-Methylnaphthalene | U | | 0.00427 | 0.0200 | 1 | 07/27/2022 01:32 | WG1900466 |
| 2-Chloronaphthalene | U | | 0.00466 | 0.0200 | 1 | 07/27/2022 01:32 | WG1900466 |
| (S) p-Terphenyl-d14 | 74.9 | | | 23.0-120 | | 07/27/2022 01:32 | WG1900466 |
| (S) Nitrobenzene-d5 | 69.7 | | | 14.0-149 | | 07/27/2022 01:32 | WG1900466 |
| (S) 2-Fluorobiphenyl | 74.3 | | | 34.0-125 | | 07/27/2022 01:32 | WG1900466 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3825663-1 08/12/22 07:43

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

L1514822-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1514822-03 08/12/22 08:29 • (DUP) R3825663-7 08/12/22 08:34

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------------------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/kg | mg/kg | | % | | % |
| Hexavalent Chromium | 1.15 | 1.17 | 1 | 1.95 | | 20 |

L1516275-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1516275-03 08/12/22 09:31 • (DUP) R3825663-8 08/12/22 09:36

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

Laboratory Control Sample (LCS)

(LCS) R3825663-2 08/12/22 07:49

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------------------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/kg | mg/kg | % | % | |
| Hexavalent Chromium | 10.0 | 10.5 | 105 | 80.0-120 | |

L1514822-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1514822-01 08/12/22 07:55 • (MS) R3825663-3 08/12/22 08:03 • (MSD) R3825663-4 08/12/22 08:08

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Hexavalent Chromium | 20.0 | 1.16 | 20.8 | 20.6 | 98.2 | 97.1 | 1 | 75.0-125 | | | 1.04 | 20 |

L1514822-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1514822-01 08/12/22 07:55 • (MS) R3825663-6 08/12/22 08:18

| | Spike Amount | Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier |
|---------------------|--------------|-----------------|-----------|---------|----------|-------------|--------------|
| Analyte | mg/kg | mg/kg | mg/kg | % | | % | |
| Hexavalent Chromium | 643 | 1.16 | 798 | 124 | 50 | 75.0-125 | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1516270-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1516270-02 07/20/22 14:50 • (DUP) R3817299-2 07/20/22 14:50

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | su | su | | % | | % |
| pH | 8.12 | 8.11 | 1 | 0.123 | | 1 |

Sample Narrative:

OS: 8.12 at 24.8C

DUP: 8.11 at 24.9C



L1516270-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1516270-05 07/20/22 14:50 • (DUP) R3817299-3 07/20/22 14:50

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | su | su | | % | | % |
| pH | 8.73 | 8.75 | 1 | 0.229 | | 1 |

Sample Narrative:

OS: 8.73 at 24.7C

DUP: 8.75 at 24.9C

Laboratory Control Sample (LCS)

(LCS) R3817299-1 07/20/22 14:50

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------|--------------|------------|----------|-------------|---------------|
| Analyte | su | su | % | % | |
| pH | 10.0 | 9.98 | 99.8 | 99.0-101 | |

Sample Narrative:

LCS: 9.98 at 24.4C

Method Blank (MB)

(MB) R3821000-1 07/31/22 09:54

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

Sample Narrative:

BLANK: at 25C

L1516250-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1516250-16 07/31/22 09:54 • (DUP) R3821000-3 07/31/22 09:54

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|----------------------|-----------------------------|------------------------|----------|--------------|---------------|------------------------|
| Specific Conductance | 2250 | 2440 | 1 | 8.01 | | 20 |

Sample Narrative:

OS: at 25C

DUP: at 25C

L1516291-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1516291-05 07/31/22 09:54 • (DUP) R3821000-4 07/31/22 09:54

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|----------------------|-----------------------------|------------------------|----------|--------------|---------------|------------------------|
| Specific Conductance | 238 | 245 | 1 | 2.98 | | 20 |

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3821000-2 07/31/22 09:54

| Analyte | Spike Amount umhos/cm | LCS Result umhos/cm | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------------|--------------------------|------------------------|---------------|------------------|---------------|
| Specific Conductance | 286 | 271 | 94.7 | 85.0-115 | |

Sample Narrative:

LCS: at 25C



Method Blank (MB)

(MB) R3820927-1 07/29/22 22:54

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|----------|--------------------|--------------|-----------------|-----------------|
| Barium | U | | 0.0852 | 0.500 |
| Cadmium | U | | 0.0471 | 0.500 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Zinc | U | | 0.832 | 5.00 |

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

Laboratory Control Sample (LCS)

(LCS) R3820927-2 07/29/22 22:56

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------|-----------------------|---------------------|---------------|------------------|---------------|
| Barium | 100 | 104 | 104 | 80.0-120 | |
| Cadmium | 100 | 99.1 | 99.1 | 80.0-120 | |
| Copper | 100 | 102 | 102 | 80.0-120 | |
| Lead | 100 | 99.8 | 99.8 | 80.0-120 | |
| Nickel | 100 | 99.8 | 99.8 | 80.0-120 | |
| Selenium | 100 | 100 | 100 | 80.0-120 | |
| Silver | 20.0 | 19.3 | 96.7 | 80.0-120 | |
| Zinc | 100 | 99.7 | 99.7 | 80.0-120 | |

7
Gl

8
Al

9
Sc

L1516270-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1516270-02 07/29/22 22:59 • (MS) R3820927-5 07/29/22 23:07 • (MSD) R3820927-6 07/29/22 23:09

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|----------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Barium | 100 | 776 | 1020 | 1080 | 248 | 303 | 1 | 75.0-125 | V | V | 5.20 | 20 |
| Cadmium | 100 | 0.438 | 100 | 105 | 99.6 | 104 | 1 | 75.0-125 | | | 4.72 | 20 |
| Copper | 100 | 27.2 | 130 | 135 | 103 | 108 | 1 | 75.0-125 | | | 3.84 | 20 |
| Lead | 100 | 28.0 | 119 | 123 | 91.1 | 94.8 | 1 | 75.0-125 | | | 3.02 | 20 |
| Nickel | 100 | 17.2 | 113 | 118 | 95.4 | 101 | 1 | 75.0-125 | | | 4.64 | 20 |
| Selenium | 100 | U | 101 | 106 | 101 | 106 | 1 | 75.0-125 | | | 5.26 | 20 |
| Silver | 20.0 | U | 19.6 | 20.6 | 98.1 | 103 | 1 | 75.0-125 | | | 5.00 | 20 |
| Zinc | 100 | 101 | 182 | 191 | 81.2 | 90.2 | 1 | 75.0-125 | | | 4.82 | 20 |

Method Blank (MB)

(MB) R3819281-1 07/26/22 09:29

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|----------|--------------------|--------------|-----------------|-----------------|
| Barium | U | | 0.0852 | 0.500 |
| Cadmium | U | | 0.0471 | 0.500 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Zinc | U | | 0.832 | 5.00 |

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3819281-2 07/26/22 09:32

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------|-----------------------|---------------------|---------------|------------------|---------------|
| Barium | 100 | 99.0 | 99.0 | 80.0-120 | |
| Cadmium | 100 | 94.4 | 94.4 | 80.0-120 | |
| Copper | 100 | 96.8 | 96.8 | 80.0-120 | |
| Lead | 100 | 94.7 | 94.7 | 80.0-120 | |
| Nickel | 100 | 95.1 | 95.1 | 80.0-120 | |
| Selenium | 100 | 94.7 | 94.7 | 80.0-120 | |
| Silver | 20.0 | 18.3 | 91.5 | 80.0-120 | |
| Zinc | 100 | 93.8 | 93.8 | 80.0-120 | |

L1516261-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1516261-06 07/26/22 09:35 • (MS) R3819281-4 07/26/22 09:43 • (MSD) R3819281-5 07/26/22 09:46

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|----------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Barium | 100 | 99.1 | 203 | 205 | 104 | 106 | 1 | 75.0-125 | | | 1.34 | 20 |
| Cadmium | 100 | 0.660 | 107 | 108 | 107 | 108 | 1 | 75.0-125 | | | 1.13 | 20 |
| Copper | 100 | 42.9 | 154 | 155 | 111 | 112 | 1 | 75.0-125 | | | 0.305 | 20 |
| Lead | 100 | 21.3 | 121 | 123 | 100 | 102 | 1 | 75.0-125 | | | 1.46 | 20 |
| Nickel | 100 | 26.4 | 127 | 129 | 100 | 102 | 1 | 75.0-125 | | | 1.51 | 20 |
| Selenium | 100 | U | 105 | 107 | 105 | 107 | 1 | 75.0-125 | | | 1.42 | 20 |
| Silver | 20.0 | U | 21.0 | 21.3 | 105 | 106 | 1 | 75.0-125 | | | 1.26 | 20 |
| Zinc | 100 | 100 | 199 | 201 | 99.0 | 101 | 1 | 75.0-125 | | | 1.17 | 20 |

Method Blank (MB)

(MB) R3823273-1 08/05/22 14:12

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|----------|--------------------|--------------|-----------------|-----------------|
| Barium | U | | 0.0852 | 0.500 |
| Cadmium | U | | 0.0471 | 0.500 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Zinc | U | | 0.832 | 5.00 |

Laboratory Control Sample (LCS)

(LCS) R3823273-2 08/05/22 14:15

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------|-----------------------|---------------------|---------------|------------------|---------------|
| Barium | 100 | 101 | 101 | 80.0-120 | |
| Cadmium | 100 | 96.6 | 96.6 | 80.0-120 | |
| Copper | 100 | 101 | 101 | 80.0-120 | |
| Lead | 100 | 97.1 | 97.1 | 80.0-120 | |
| Nickel | 100 | 98.9 | 98.9 | 80.0-120 | |
| Selenium | 100 | 99.6 | 99.6 | 80.0-120 | |
| Silver | 20.0 | 18.0 | 90.2 | 80.0-120 | |
| Zinc | 100 | 97.2 | 97.2 | 80.0-120 | |

L1521215-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1521215-01 08/05/22 14:17 • (MS) R3823273-5 08/05/22 14:25 • (MSD) R3823273-6 08/05/22 14:28

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|----------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Barium | 100 | 80.7 | 181 | 183 | 101 | 102 | 1 | 75.0-125 | | | 0.951 | 20 |
| Cadmium | 100 | 0.262 | 96.0 | 96.2 | 95.8 | 95.9 | 1 | 75.0-125 | | | 0.156 | 20 |
| Copper | 100 | 14.3 | 116 | 117 | 102 | 102 | 1 | 75.0-125 | | | 0.637 | 20 |
| Lead | 100 | 15.8 | 114 | 115 | 98.7 | 99.6 | 1 | 75.0-125 | | | 0.750 | 20 |
| Nickel | 100 | 13.0 | 114 | 115 | 101 | 102 | 1 | 75.0-125 | | | 0.423 | 20 |
| Selenium | 100 | U | 99.2 | 99.7 | 99.2 | 99.7 | 1 | 75.0-125 | | | 0.490 | 20 |
| Silver | 20.0 | U | 18.1 | 18.2 | 90.6 | 91.1 | 1 | 75.0-125 | | | 0.623 | 20 |
| Zinc | 100 | 51.6 | 145 | 144 | 93.1 | 92.2 | 1 | 75.0-125 | | | 0.643 | 20 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3822918-1 08/04/22 23:18

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

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

(LCS) R3822918-2 08/04/22 23:20 • (LCSD) R3822918-3 08/04/22 23:23

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCSD Result mg/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|----------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Hot Water Sol. Boron | 1.00 | 1.04 | 1.01 | 104 | 101 | 80.0-120 | | | 2.88 | 20 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3820906-1 07/30/22 01:42

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---------|--------------------|--------------|-----------------|-----------------|
| Arsenic | U | | 0.100 | 1.00 |

Laboratory Control Sample (LCS)

(LCS) R3820906-2 07/30/22 01:45

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---------|-----------------------|---------------------|---------------|------------------|---------------|
| Arsenic | 100 | 92.6 | 92.6 | 80.0-120 | |

L1516270-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1516270-02 07/30/22 01:49 • (MS) R3820906-5 07/30/22 01:58 • (MSD) R3820906-6 07/30/22 02:02

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Arsenic | 100 | 5.25 | 97.4 | 92.6 | 92.2 | 87.4 | 5 | 75.0-125 | | | 5.05 | 20 |

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3819057-1 07/25/22 23:37

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---------|--------------------|--------------|-----------------|-----------------|
| Arsenic | U | | 0.100 | 1.00 |

Laboratory Control Sample (LCS)

(LCS) R3819057-2 07/25/22 23:40

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---------|-----------------------|---------------------|---------------|------------------|---------------|
| Arsenic | 100 | 87.1 | 87.1 | 80.0-120 | |

L1516261-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1516261-06 07/25/22 23:43 • (MS) R3819057-5 07/25/22 23:53 • (MSD) R3819057-6 07/25/22 23:56

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Arsenic | 100 | 5.66 | 95.2 | 99.6 | 89.6 | 93.9 | 5 | 75.0-125 | | | 4.50 | 20 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3823127-1 08/05/22 13:30

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---------|--------------------|--------------|-----------------|-----------------|
| Arsenic | U | | 0.100 | 1.00 |

Laboratory Control Sample (LCS)

(LCS) R3823127-2 08/05/22 13:34

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---------|-----------------------|---------------------|---------------|------------------|---------------|
| Arsenic | 100 | 85.9 | 85.9 | 80.0-120 | |

L1521215-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1521215-01 08/05/22 13:37 • (MS) R3823127-5 08/05/22 13:47 • (MSD) R3823127-6 08/05/22 13:50

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Arsenic | 100 | 6.09 | 91.4 | 87.6 | 85.3 | 81.5 | 5 | 75.0-125 | | | 4.22 | 20 |

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3819762-2 07/21/22 21:07

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

Laboratory Control Sample (LCS)

(LCS) R3819762-1 07/21/22 19:22

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| TPH (GC/FID) Low Fraction | 5.50 | 6.27 | 114 | 72.0-127 | |
| (S) a,a,a-Trifluorotoluene(FID) | | | 112 | 77.0-120 | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3819568-3 07/22/22 07:05

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Benzene | U | | 0.000467 | 0.00100 |
| Toluene | U | | 0.00130 | 0.00500 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| (S) Toluene-d8 | 104 | | | 75.0-131 |
| (S) 4-Bromofluorobenzene | 102 | | | 67.0-138 |
| (S) 1,2-Dichloroethane-d4 | 98.1 | | | 70.0-130 |

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

(LCS) R3819568-1 07/22/22 05:47 • (LCSD) R3819568-2 07/22/22 06:06

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene | 0.125 | 0.109 | 0.108 | 87.2 | 86.4 | 70.0-123 | | | 0.922 | 20 |
| Toluene | 0.125 | 0.110 | 0.113 | 88.0 | 90.4 | 75.0-121 | | | 2.69 | 20 |
| Ethylbenzene | 0.125 | 0.115 | 0.116 | 92.0 | 92.8 | 74.0-126 | | | 0.866 | 20 |
| Xylenes, Total | 0.375 | 0.341 | 0.337 | 90.9 | 89.9 | 72.0-127 | | | 1.18 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.123 | 0.126 | 98.4 | 101 | 70.0-126 | | | 2.41 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.115 | 0.118 | 92.0 | 94.4 | 73.0-127 | | | 2.58 | 20 |
| (S) Toluene-d8 | | | | 101 | 102 | 75.0-131 | | | | |
| (S) 4-Bromofluorobenzene | | | | 99.0 | 100 | 67.0-138 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 98.7 | 99.1 | 70.0-130 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3819598-3 07/22/22 08:30

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Benzene | U | | 0.000467 | 0.00100 |
| Toluene | U | | 0.00130 | 0.00500 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| (S) Toluene-d8 | 108 | | | 75.0-131 |
| (S) 4-Bromofluorobenzene | 104 | | | 67.0-138 |
| (S) 1,2-Dichloroethane-d4 | 89.4 | | | 70.0-130 |

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

(LCS) R3819598-1 07/22/22 07:14 • (LCSD) R3819598-2 07/22/22 07:33

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene | 0.125 | 0.121 | 0.137 | 96.8 | 110 | 70.0-123 | | | 12.4 | 20 |
| Toluene | 0.125 | 0.130 | 0.144 | 104 | 115 | 75.0-121 | | | 10.2 | 20 |
| Ethylbenzene | 0.125 | 0.131 | 0.143 | 105 | 114 | 74.0-126 | | | 8.76 | 20 |
| Xylenes, Total | 0.375 | 0.406 | 0.452 | 108 | 121 | 72.0-127 | | | 10.7 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.134 | 0.143 | 107 | 114 | 70.0-126 | | | 6.50 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.126 | 0.137 | 101 | 110 | 73.0-127 | | | 8.37 | 20 |
| (S) Toluene-d8 | | | | 104 | 105 | 75.0-131 | | | | |
| (S) 4-Bromofluorobenzene | | | | 105 | 105 | 67.0-138 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 97.9 | 98.6 | 70.0-130 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3819157-1 07/26/22 04:06

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|-------------------------|--------------------|--------------|-----------------|-----------------|
| C10-C28 Diesel Range | U | | 1.61 | 4.00 |
| C28-C36 Motor Oil Range | U | | 0.274 | 4.00 |
| (S) o-Terphenyl | 64.4 | | | 18.0-148 |

Laboratory Control Sample (LCS)

(LCS) R3819157-2 07/26/22 04:19

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| C10-C28 Diesel Range | 50.0 | 36.3 | 72.6 | 50.0-150 | |
| (S) o-Terphenyl | | | 86.3 | 18.0-148 | |

L1516296-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1516296-02 07/26/22 21:39 • (MS) R3819157-3 07/26/22 21:52 • (MSD) R3819157-4 07/26/22 22:05

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|----------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| C10-C28 Diesel Range | 47.0 | 25.8 | 40.7 | 44.5 | 31.7 | 38.3 | 1 | 50.0-150 | J6 | J6 | 8.92 | 20 |
| (S) o-Terphenyl | | | | | 57.0 | 66.0 | | 18.0-148 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3819686-2 07/26/22 19:36

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|------------------------|--------------------|--------------|-----------------|-----------------|
| Anthracene | U | | 0.00230 | 0.00600 |
| Acenaphthene | U | | 0.00209 | 0.00600 |
| Acenaphthylene | U | | 0.00216 | 0.00600 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 |
| Benzo(g,h,i)perylene | U | | 0.00177 | 0.00600 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 |
| Chrysene | U | | 0.00232 | 0.00600 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 |
| Fluoranthene | U | | 0.00227 | 0.00600 |
| Fluorene | U | | 0.00205 | 0.00600 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 |
| Naphthalene | U | | 0.00408 | 0.0200 |
| Phenanthrene | U | | 0.00231 | 0.00600 |
| Pyrene | U | | 0.00200 | 0.00600 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 |
| 2-Methylnaphthalene | U | | 0.00427 | 0.0200 |
| 2-Chloronaphthalene | U | | 0.00466 | 0.0200 |
| (S) p-Terphenyl-d14 | 73.6 | | | 23.0-120 |
| (S) Nitrobenzene-d5 | 63.2 | | | 14.0-149 |
| (S) 2-Fluorobiphenyl | 69.5 | | | 34.0-125 |

Laboratory Control Sample (LCS)

(LCS) R3819686-1 07/26/22 19:18

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|-----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Anthracene | 0.0800 | 0.0594 | 74.3 | 50.0-126 | |
| Acenaphthene | 0.0800 | 0.0573 | 71.6 | 50.0-120 | |
| Acenaphthylene | 0.0800 | 0.0580 | 72.5 | 50.0-120 | |
| Benzo(a)anthracene | 0.0800 | 0.0601 | 75.1 | 45.0-120 | |
| Benzo(a)pyrene | 0.0800 | 0.0610 | 76.3 | 42.0-120 | |
| Benzo(b)fluoranthene | 0.0800 | 0.0582 | 72.8 | 42.0-121 | |
| Benzo(g,h,i)perylene | 0.0800 | 0.0594 | 74.3 | 45.0-125 | |
| Benzo(k)fluoranthene | 0.0800 | 0.0558 | 69.8 | 49.0-125 | |
| Chrysene | 0.0800 | 0.0609 | 76.1 | 49.0-122 | |
| Dibenz(a,h)anthracene | 0.0800 | 0.0620 | 77.5 | 47.0-125 | |
| Fluoranthene | 0.0800 | 0.0614 | 76.8 | 49.0-129 | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3819686-1 07/26/22 19:18

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Fluorene | 0.0800 | 0.0588 | 73.5 | 49.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.0800 | 0.0657 | 82.1 | 46.0-125 | |
| Naphthalene | 0.0800 | 0.0554 | 69.3 | 50.0-120 | |
| Phenanthrene | 0.0800 | 0.0577 | 72.1 | 47.0-120 | |
| Pyrene | 0.0800 | 0.0612 | 76.5 | 43.0-123 | |
| 1-Methylnaphthalene | 0.0800 | 0.0578 | 72.3 | 51.0-121 | |
| 2-Methylnaphthalene | 0.0800 | 0.0584 | 73.0 | 50.0-120 | |
| 2-Chloronaphthalene | 0.0800 | 0.0557 | 69.6 | 50.0-120 | |
| (S) p-Terphenyl-d14 | | | 77.1 | 23.0-120 | |
| (S) Nitrobenzene-d5 | | | 67.5 | 14.0-149 | |
| (S) 2-Fluorobiphenyl | | | 72.7 | 34.0-125 | |

L1516104-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1516104-01 07/26/22 21:23 • (MS) R3819686-3 07/26/22 21:40 • (MSD) R3819686-4 07/26/22 21:58

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Anthracene | 0.0756 | U | 0.0448 | 0.0487 | 59.3 | 64.8 | 1 | 10.0-145 | | | 8.34 | 30 |
| Acenaphthene | 0.0756 | U | 0.0446 | 0.0487 | 59.0 | 64.8 | 1 | 14.0-127 | | | 8.79 | 27 |
| Acenaphthylene | 0.0756 | U | 0.0441 | 0.0476 | 58.3 | 63.3 | 1 | 21.0-124 | | | 7.63 | 25 |
| Benzo(a)anthracene | 0.0756 | U | 0.0444 | 0.0474 | 58.7 | 63.0 | 1 | 10.0-139 | | | 6.54 | 30 |
| Benzo(a)pyrene | 0.0756 | U | 0.0485 | 0.0517 | 64.2 | 68.8 | 1 | 10.0-141 | | | 6.39 | 31 |
| Benzo(b)fluoranthene | 0.0756 | U | 0.0458 | 0.0501 | 60.6 | 66.6 | 1 | 10.0-140 | | | 8.97 | 36 |
| Benzo(g,h,i)perylene | 0.0756 | U | 0.0480 | 0.0518 | 63.5 | 68.9 | 1 | 10.0-140 | | | 7.62 | 33 |
| Benzo(k)fluoranthene | 0.0756 | U | 0.0441 | 0.0468 | 58.3 | 62.2 | 1 | 10.0-137 | | | 5.94 | 31 |
| Chrysene | 0.0756 | U | 0.0476 | 0.0503 | 63.0 | 66.9 | 1 | 10.0-145 | | | 5.52 | 30 |
| Dibenz(a,h)anthracene | 0.0756 | U | 0.0475 | 0.0508 | 62.8 | 67.6 | 1 | 10.0-132 | | | 6.71 | 31 |
| Fluoranthene | 0.0756 | U | 0.0469 | 0.0513 | 62.0 | 68.2 | 1 | 10.0-153 | | | 8.96 | 33 |
| Fluorene | 0.0756 | U | 0.0460 | 0.0502 | 60.8 | 66.8 | 1 | 11.0-130 | | | 8.73 | 29 |
| Indeno(1,2,3-cd)pyrene | 0.0756 | U | 0.0486 | 0.0528 | 64.3 | 70.2 | 1 | 10.0-137 | | | 8.28 | 32 |
| Naphthalene | 0.0756 | U | 0.0403 | 0.0446 | 53.3 | 59.3 | 1 | 10.0-135 | | | 10.1 | 27 |
| Phenanthrene | 0.0756 | U | 0.0454 | 0.0489 | 60.1 | 65.0 | 1 | 10.0-144 | | | 7.42 | 31 |
| Pyrene | 0.0756 | U | 0.0499 | 0.0535 | 66.0 | 71.1 | 1 | 10.0-148 | | | 6.96 | 35 |
| 1-Methylnaphthalene | 0.0756 | U | 0.0432 | 0.0480 | 57.1 | 63.8 | 1 | 10.0-142 | | | 10.5 | 28 |
| 2-Methylnaphthalene | 0.0756 | U | 0.0437 | 0.0490 | 57.8 | 65.2 | 1 | 10.0-137 | | | 11.4 | 28 |
| 2-Chloronaphthalene | 0.0756 | U | 0.0427 | 0.0472 | 56.5 | 62.8 | 1 | 29.0-120 | | | 10.0 | 24 |
| (S) p-Terphenyl-d14 | | | | | 66.2 | 68.4 | | 23.0-120 | | | | |
| (S) Nitrobenzene-d5 | | | | | 56.9 | 61.9 | | 14.0-149 | | | | |
| (S) 2-Fluorobiphenyl | | | | | 62.3 | 64.9 | | 34.0-125 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

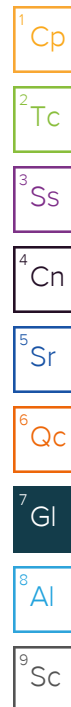
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

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

Qualifier Description

| | |
|----|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| T8 | Sample(s) received past/too close to holding time expiration. |
| V | The sample concentration is too high to evaluate accurate spike recoveries. |



ACCREDITATIONS & LOCATIONS

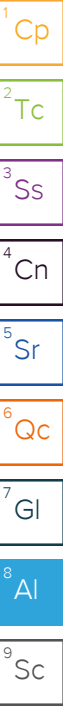
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



YES / NO

Confluence Compliance Companies - CO

Sample Delivery Group: L1517244
Samples Received: 07/21/2022
Project Number: FEDERAL 1-30
Description: P&A

Report To: Chris McKisson
403 ½ Rockwood Lane
Grand Junction, CO 81507

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

TABLE OF CONTENTS

| | |
|---|----|
| Cp: Cover Page | 1 |
| Tc: Table of Contents | 2 |
| Ss: Sample Summary | 3 |
| Cn: Case Narrative | 6 |
| Sr: Sample Results | 7 |
| CAP_TRENCH_END@6' L1517244-01 | 7 |
| METER_INLET@6' L1517244-02 | 9 |
| METER_OUTLET_DEHY_IN/OUTLET@6' L1517244-03 | 11 |
| SEP_INLET@6' L1517244-04 | 13 |
| SEP_OUTLET_TO_OIL@5' L1517244-05 | 15 |
| MID_TRENCH_WH_PJ@4' L1517244-07 | 17 |
| WELL_HEAD_PUMP_JACK@4' L1517244-08 | 19 |
| N_TRENCH@3' L1517244-09 | 21 |
| MID_N_TRENCH@3' L1517244-10 | 23 |
| Qc: Quality Control Summary | 25 |
| Wet Chemistry by Method 7199 | 25 |
| Wet Chemistry by Method 9045D | 27 |
| Wet Chemistry by Method 9050AMod | 30 |
| Metals (ICP) by Method 6010B | 32 |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | 34 |
| Metals (ICPMS) by Method 6020 | 35 |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | 37 |
| Volatile Organic Compounds (GC/MS) by Method 8260B | 38 |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | 39 |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | 41 |
| Gl: Glossary of Terms | 45 |
| Al: Accreditations & Locations | 46 |
| Sc: Sample Chain of Custody | 47 |

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

SAMPLE SUMMARY

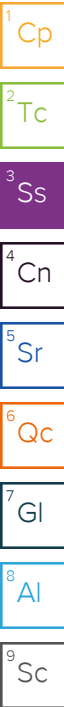
CAP_TRENCH_END@6' L1517244-01 Solid

Collected by
Jana Nilsen

Collected date/time
07/19/22 08:58

Received date/time
07/21/22 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1902865 | 1 | 08/01/22 14:44 | 08/01/22 14:44 | CCE | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1904736 | 1 | 08/10/22 23:49 | 08/12/22 10:23 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1899784 | 1 | 07/23/22 11:00 | 07/23/22 13:00 | GI | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1901859 | 1 | 07/29/22 01:37 | 07/29/22 07:46 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1901308 | 1 | 08/03/22 16:43 | 08/05/22 17:12 | KMG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1903661 | 1 | 08/01/22 11:32 | 08/04/22 21:14 | CCE | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1901310 | 5 | 08/03/22 16:48 | 08/05/22 13:09 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1899210 | 1 | 07/21/22 17:43 | 07/23/22 04:04 | MGF | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1899607 | 1 | 07/21/22 17:43 | 07/22/22 20:37 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1901042 | 1 | 07/27/22 06:46 | 07/27/22 14:56 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1901018 | 1 | 07/26/22 18:32 | 07/27/22 14:19 | DSH | Mt. Juliet, TN |



METER_INLET@6' L1517244-02 Solid

Collected by
Jana Nilsen

Collected date/time
07/19/22 09:02

Received date/time
07/21/22 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1902865 | 1 | 08/01/22 14:47 | 08/01/22 14:47 | CCE | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1904736 | 1 | 08/10/22 23:49 | 08/12/22 10:28 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1899784 | 1 | 07/23/22 11:00 | 07/23/22 13:00 | GI | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1901859 | 1 | 07/29/22 01:37 | 07/29/22 07:46 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1901308 | 1 | 08/03/22 16:43 | 08/05/22 17:14 | KMG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1903661 | 1 | 08/01/22 11:32 | 08/04/22 21:16 | CCE | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1901310 | 5 | 08/03/22 16:48 | 08/05/22 13:13 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1899210 | 1 | 07/21/22 17:43 | 07/23/22 04:27 | MGF | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1899607 | 1 | 07/21/22 17:43 | 07/22/22 20:58 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1901042 | 1 | 07/27/22 06:46 | 07/27/22 15:10 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1901018 | 1 | 07/26/22 18:32 | 07/27/22 14:37 | DSH | Mt. Juliet, TN |

METER_OUTLET_DEHY_IN/OUTLET@6' L1517244-03 Solid

Collected by
Jana Nilsen

Collected date/time
07/19/22 09:10

Received date/time
07/21/22 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1902865 | 1 | 08/01/22 14:50 | 08/01/22 14:50 | CCE | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1905133 | 1 | 08/03/22 17:00 | 08/04/22 03:21 | ERP | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1899784 | 1 | 07/23/22 11:00 | 07/23/22 13:00 | GI | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1901859 | 1 | 07/29/22 01:37 | 07/29/22 07:46 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1901308 | 1 | 08/03/22 16:43 | 08/05/22 17:23 | KMG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1903661 | 1 | 08/01/22 11:32 | 08/04/22 21:19 | CCE | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1901310 | 5 | 08/03/22 16:48 | 08/05/22 13:25 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1899210 | 1 | 07/21/22 17:43 | 07/23/22 04:50 | MGF | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1899607 | 1 | 07/21/22 17:43 | 07/22/22 21:19 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1901042 | 1 | 07/27/22 06:46 | 07/27/22 14:42 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1901018 | 1 | 07/26/22 18:32 | 07/27/22 14:55 | DSH | Mt. Juliet, TN |

SEP_INLET@6' L1517244-04 Solid

Collected by
Jana Nilsen

Collected date/time
07/19/22 09:18

Received date/time
07/21/22 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|----------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1902865 | 1 | 08/01/22 14:53 | 08/01/22 14:53 | CCE | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1905133 | 1 | 08/03/22 17:00 | 08/04/22 03:26 | ERP | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1899784 | 1 | 07/23/22 11:00 | 07/23/22 13:00 | GI | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1901859 | 1 | 07/29/22 01:37 | 07/29/22 07:46 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1901308 | 1 | 08/03/22 16:43 | 08/05/22 17:25 | KMG | Mt. Juliet, TN |

SAMPLE SUMMARY

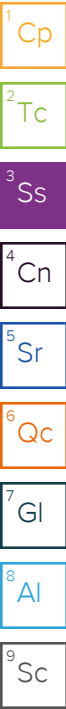
SEP_INLET@6' L1517244-04 Solid

Collected by
Jana Nilsen

Collected date/time
07/19/22 09:18

Received date/time
07/21/22 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1903661 | 1 | 08/01/22 11:32 | 08/04/22 21:22 | CCE | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1901310 | 5 | 08/03/22 16:48 | 08/05/22 13:29 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1899210 | 1 | 07/21/22 17:43 | 07/23/22 05:13 | MGF | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1899607 | 1 | 07/21/22 17:43 | 07/22/22 21:40 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1901042 | 1 | 07/27/22 06:46 | 07/27/22 15:52 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1901018 | 1 | 07/26/22 18:32 | 07/27/22 15:13 | DSH | Mt. Juliet, TN |



SEP_OUTLET_TO_OIL@5' L1517244-05 Solid

Collected by
Jana Nilsen

Collected date/time
07/19/22 09:25

Received date/time
07/21/22 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1902871 | 1 | 08/02/22 20:05 | 08/02/22 20:05 | KMG | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1905133 | 1 | 08/03/22 17:00 | 08/04/22 04:02 | ERP | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1899784 | 1 | 07/23/22 11:00 | 07/23/22 13:00 | GI | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1901859 | 1 | 07/29/22 01:37 | 07/29/22 07:46 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1901316 | 1 | 08/01/22 17:43 | 08/03/22 06:19 | CCE | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1903661 | 1 | 08/01/22 11:32 | 08/04/22 21:24 | CCE | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1901314 | 5 | 08/01/22 17:39 | 08/02/22 17:40 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1899210 | 1 | 07/21/22 17:43 | 07/23/22 05:35 | MGF | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1899607 | 1 | 07/21/22 17:43 | 07/22/22 22:01 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1901042 | 1 | 07/27/22 06:46 | 07/27/22 15:38 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1901020 | 1 | 07/26/22 21:54 | 07/28/22 02:37 | DSH | Mt. Juliet, TN |

MID_TRENCH_WH_PJ@4' L1517244-07 Solid

Collected by
Jana Nilsen

Collected date/time
07/19/22 09:44

Received date/time
07/21/22 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1902871 | 1 | 08/02/22 20:08 | 08/02/22 20:08 | KMG | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1905133 | 1 | 08/03/22 17:00 | 08/04/22 04:07 | ERP | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1899784 | 1 | 07/23/22 11:00 | 07/23/22 13:00 | GI | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1901882 | 1 | 07/31/22 00:52 | 07/31/22 09:05 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1901316 | 1 | 08/01/22 17:43 | 08/03/22 06:22 | CCE | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1903661 | 1 | 08/01/22 11:32 | 08/04/22 21:27 | CCE | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1901314 | 5 | 08/01/22 17:39 | 08/02/22 17:43 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1899210 | 1 | 07/21/22 17:43 | 07/23/22 05:58 | MGF | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1899607 | 1 | 07/21/22 17:43 | 07/22/22 22:22 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1901042 | 1 | 07/27/22 06:46 | 07/27/22 16:06 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1901020 | 1 | 07/26/22 21:54 | 07/28/22 02:55 | DSH | Mt. Juliet, TN |

WELL_HEAD_PUMP_JACK@4' L1517244-08 Solid

Collected by
Jana Nilsen

Collected date/time
07/19/22 09:50

Received date/time
07/21/22 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1902871 | 1 | 08/02/22 20:11 | 08/02/22 20:11 | KMG | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1905133 | 1 | 08/03/22 17:00 | 08/04/22 04:13 | ERP | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1901438 | 1 | 07/27/22 08:49 | 07/27/22 10:00 | SDE | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1901859 | 1 | 07/29/22 01:37 | 07/29/22 07:46 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1901316 | 1 | 08/01/22 17:43 | 08/03/22 06:24 | CCE | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1903661 | 1 | 08/01/22 11:32 | 08/04/22 21:30 | CCE | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1901314 | 5 | 08/01/22 17:39 | 08/02/22 17:46 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1899210 | 1 | 07/21/22 17:43 | 07/23/22 06:21 | MGF | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1899607 | 1 | 07/21/22 17:43 | 07/22/22 22:44 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1901042 | 1 | 07/27/22 06:46 | 07/27/22 15:24 | JAS | Mt. Juliet, TN |

SAMPLE SUMMARY

WELL_HEAD_PUMP_JACK@4' L1517244-08 Solid

Collected by
Jana Nilsen

Collected date/time
07/19/22 09:50

Received date/time
07/21/22 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1901020 | 1 | 07/26/22 21:54 | 07/28/22 03:12 | DSH | Mt. Juliet, TN |

N_TRENCH@3' L1517244-09 Solid

Collected by
Jana Nilsen

Collected date/time
07/19/22 10:02

Received date/time
07/21/22 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1902871 | 1 | 08/02/22 20:14 | 08/02/22 20:14 | KMG | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1905133 | 1 | 08/03/22 17:00 | 08/04/22 04:18 | ERP | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1899769 | 1 | 07/23/22 09:00 | 07/23/22 11:00 | GI | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1901859 | 1 | 07/29/22 01:37 | 07/29/22 07:46 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1901316 | 1 | 08/01/22 17:43 | 08/03/22 06:06 | CCE | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1903661 | 1 | 08/01/22 11:32 | 08/04/22 21:33 | CCE | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1901314 | 5 | 08/01/22 17:39 | 08/02/22 17:23 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1899210 | 1 | 07/21/22 17:43 | 07/23/22 08:39 | MGF | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1899607 | 1 | 07/21/22 17:43 | 07/22/22 23:05 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1901043 | 1 | 07/27/22 07:09 | 07/27/22 14:02 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1901020 | 1 | 07/26/22 21:54 | 07/28/22 04:06 | DSH | Mt. Juliet, TN |

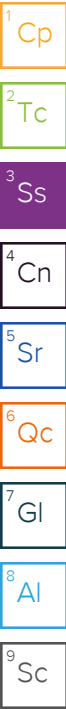
MID_N_TRENCH@3' L1517244-10 Solid

Collected by
Jana Nilsen

Collected date/time
07/19/22 10:06

Received date/time
07/21/22 09:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1902871 | 1 | 08/02/22 20:17 | 08/02/22 20:17 | KMG | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1905133 | 1 | 08/03/22 17:00 | 08/04/22 04:23 | ERP | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1899784 | 1 | 07/23/22 11:00 | 07/23/22 13:00 | GI | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1901882 | 1 | 07/31/22 00:52 | 07/31/22 09:05 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1901316 | 1 | 08/01/22 17:43 | 08/03/22 06:33 | CCE | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1903661 | 1 | 08/01/22 11:32 | 08/04/22 21:36 | CCE | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1901314 | 5 | 08/01/22 17:39 | 08/02/22 17:56 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1899210 | 1 | 07/21/22 17:43 | 07/23/22 09:02 | MGF | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1899607 | 1 | 07/21/22 17:43 | 07/22/22 23:26 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1901043 | 1 | 07/27/22 07:09 | 07/27/22 14:16 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1901020 | 1 | 07/26/22 21:54 | 07/28/22 04:24 | 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



Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 16.5 | | 1 | 08/01/2022 14:44 | WG1902865 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | U | | 0.255 | 1.00 | 1 | 08/12/2022 10:23 | WG1904736 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|--------------------|----------|----------------------|---------------------------|
| pH | 8.50 | T8 | 1 | 07/23/2022 13:00 | WG1899784 |

Sample Narrative:

L1517244-01 WG1899784: 8.5 at 24.8C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 2740 | | 10.0 | 1 | 07/29/2022 07:46 | WG1901859 |

Sample Narrative:

L1517244-01 WG1901859: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-------------------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 105 | | 0.0852 | 0.500 | 1 | 08/05/2022 17:12 | WG1901308 |
| Cadmium | 0.372 | J | 0.0471 | 0.500 | 1 | 08/05/2022 17:12 | WG1901308 |
| Copper | 24.6 | | 0.400 | 2.00 | 1 | 08/05/2022 17:12 | WG1901308 |
| Lead | 15.6 | | 0.208 | 0.500 | 1 | 08/05/2022 17:12 | WG1901308 |
| Nickel | 16.6 | | 0.132 | 2.00 | 1 | 08/05/2022 17:12 | WG1901308 |
| Selenium | U | | 0.764 | 2.00 | 1 | 08/05/2022 17:12 | WG1901308 |
| Silver | U | | 0.127 | 1.00 | 1 | 08/05/2022 17:12 | WG1901308 |
| Zinc | 61.9 | | 0.832 | 5.00 | 1 | 08/05/2022 17:12 | WG1901308 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.503 | | 0.0167 | 0.200 | 1 | 08/04/2022 21:14 | WG1903661 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 6.48 | | 0.100 | 1.00 | 5 | 08/05/2022 13:09 | WG1901310 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|--|--------------|---------------------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.0580 | B J | 0.0217 | 0.100 | 1 | 07/23/2022 04:04 | WG1899210 |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 99.2 | | | 77.0-120 | | 07/23/2022 04:04 | WG1899210 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.000467 | 0.00100 | 1 | 07/22/2022 20:37 | WG1899607 |
| Toluene | U | | 0.00130 | 0.00500 | 1 | 07/22/2022 20:37 | WG1899607 |
| Ethylbenzene | U | | 0.000737 | 0.00250 | 1 | 07/22/2022 20:37 | WG1899607 |
| Xylenes, Total | U | | 0.000880 | 0.00650 | 1 | 07/22/2022 20:37 | WG1899607 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 | 1 | 07/22/2022 20:37 | WG1899607 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 | 1 | 07/22/2022 20:37 | WG1899607 |
| (S) Toluene-d8 | 107 | | | 75.0-131 | | 07/22/2022 20:37 | WG1899607 |
| (S) 4-Bromofluorobenzene | 92.9 | | | 67.0-138 | | 07/22/2022 20:37 | WG1899607 |
| (S) 1,2-Dichloroethane-d4 | 87.6 | | | 70.0-130 | | 07/22/2022 20:37 | WG1899607 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|---------------------|--------------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | U | | 1.61 | 4.00 | 1 | 07/27/2022 14:56 | WG1901042 |
| C28-C36 Motor Oil Range | 3.05 | B J | 0.274 | 4.00 | 1 | 07/27/2022 14:56 | WG1901042 |
| (S) o-Terphenyl | 67.0 | | | 18.0-148 | | 07/27/2022 14:56 | WG1901042 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-------------------|--------------|--------------|----------|-------------------------|---------------------------|
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 07/27/2022 14:19 | WG1901018 |
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 07/27/2022 14:19 | WG1901018 |
| Acenaphthylene | U | | 0.00216 | 0.00600 | 1 | 07/27/2022 14:19 | WG1901018 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 07/27/2022 14:19 | WG1901018 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 07/27/2022 14:19 | WG1901018 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 07/27/2022 14:19 | WG1901018 |
| Benzo(g,h,i)perylene | U | | 0.00177 | 0.00600 | 1 | 07/27/2022 14:19 | WG1901018 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 07/27/2022 14:19 | WG1901018 |
| Chrysene | U | | 0.00232 | 0.00600 | 1 | 07/27/2022 14:19 | WG1901018 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 07/27/2022 14:19 | WG1901018 |
| Fluoranthene | U | | 0.00227 | 0.00600 | 1 | 07/27/2022 14:19 | WG1901018 |
| Fluorene | U | | 0.00205 | 0.00600 | 1 | 07/27/2022 14:19 | WG1901018 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 07/27/2022 14:19 | WG1901018 |
| Naphthalene | 0.00440 | J | 0.00408 | 0.0200 | 1 | 07/27/2022 14:19 | WG1901018 |
| Phenanthrene | U | | 0.00231 | 0.00600 | 1 | 07/27/2022 14:19 | WG1901018 |
| Pyrene | U | | 0.00200 | 0.00600 | 1 | 07/27/2022 14:19 | WG1901018 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 | 1 | 07/27/2022 14:19 | WG1901018 |
| 2-Methylnaphthalene | U | | 0.00427 | 0.0200 | 1 | 07/27/2022 14:19 | WG1901018 |
| 2-Chloronaphthalene | U | | 0.00466 | 0.0200 | 1 | 07/27/2022 14:19 | WG1901018 |
| (S) p-Terphenyl-d14 | 79.4 | | | 23.0-120 | | 07/27/2022 14:19 | WG1901018 |
| (S) Nitrobenzene-d5 | 50.6 | | | 14.0-149 | | 07/27/2022 14:19 | WG1901018 |
| (S) 2-Fluorobiphenyl | 66.3 | | | 34.0-125 | | 07/27/2022 14:19 | WG1901018 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 1.14 | | 1 | 08/01/2022 14:47 | WG1902865 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | U | | 0.255 | 1.00 | 1 | 08/12/2022 10:28 | WG1904736 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|--------------------|----------|----------------------|---------------------------|
| pH | 8.40 | T8 | 1 | 07/23/2022 13:00 | WG1899784 |

Sample Narrative:

L1517244-02 WG1899784: 8.4 at 25.5C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 304 | | 10.0 | 1 | 07/29/2022 07:46 | WG1901859 |

Sample Narrative:

L1517244-02 WG1901859: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-------------------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 123 | | 0.0852 | 0.500 | 1 | 08/05/2022 17:14 | WG1901308 |
| Cadmium | 0.400 | J | 0.0471 | 0.500 | 1 | 08/05/2022 17:14 | WG1901308 |
| Copper | 25.8 | | 0.400 | 2.00 | 1 | 08/05/2022 17:14 | WG1901308 |
| Lead | 14.6 | | 0.208 | 0.500 | 1 | 08/05/2022 17:14 | WG1901308 |
| Nickel | 18.5 | | 0.132 | 2.00 | 1 | 08/05/2022 17:14 | WG1901308 |
| Selenium | U | | 0.764 | 2.00 | 1 | 08/05/2022 17:14 | WG1901308 |
| Silver | U | | 0.127 | 1.00 | 1 | 08/05/2022 17:14 | WG1901308 |
| Zinc | 67.6 | | 0.832 | 5.00 | 1 | 08/05/2022 17:14 | WG1901308 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.712 | | 0.0167 | 0.200 | 1 | 08/04/2022 21:16 | WG1903661 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 5.64 | | 0.100 | 1.00 | 5 | 08/05/2022 13:13 | WG1901310 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|--|--------------|---------------------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.0608 | B J | 0.0217 | 0.100 | 1 | 07/23/2022 04:27 | WG1899210 |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 99.2 | | | 77.0-120 | | 07/23/2022 04:27 | WG1899210 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.000467 | 0.00100 | 1 | 07/22/2022 20:58 | WG1899607 |
| Toluene | U | | 0.00130 | 0.00500 | 1 | 07/22/2022 20:58 | WG1899607 |
| Ethylbenzene | U | | 0.000737 | 0.00250 | 1 | 07/22/2022 20:58 | WG1899607 |
| Xylenes, Total | U | | 0.000880 | 0.00650 | 1 | 07/22/2022 20:58 | WG1899607 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 | 1 | 07/22/2022 20:58 | WG1899607 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 | 1 | 07/22/2022 20:58 | WG1899607 |
| (S) Toluene-d8 | 103 | | | 75.0-131 | | 07/22/2022 20:58 | WG1899607 |
| (S) 4-Bromofluorobenzene | 96.7 | | | 67.0-138 | | 07/22/2022 20:58 | WG1899607 |
| (S) 1,2-Dichloroethane-d4 | 88.7 | | | 70.0-130 | | 07/22/2022 20:58 | WG1899607 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | U | | 1.61 | 4.00 | 1 | 07/27/2022 15:10 | WG1901042 |
| C28-C36 Motor Oil Range | 4.27 | | 0.274 | 4.00 | 1 | 07/27/2022 15:10 | WG1901042 |
| (S) o-Terphenyl | 68.2 | | | 18.0-148 | | 07/27/2022 15:10 | WG1901042 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 07/27/2022 14:37 | WG1901018 |
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 07/27/2022 14:37 | WG1901018 |
| Acenaphthylene | U | | 0.00216 | 0.00600 | 1 | 07/27/2022 14:37 | WG1901018 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 07/27/2022 14:37 | WG1901018 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 07/27/2022 14:37 | WG1901018 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 07/27/2022 14:37 | WG1901018 |
| Benzo(g,h,i)perylene | U | | 0.00177 | 0.00600 | 1 | 07/27/2022 14:37 | WG1901018 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 07/27/2022 14:37 | WG1901018 |
| Chrysene | U | | 0.00232 | 0.00600 | 1 | 07/27/2022 14:37 | WG1901018 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 07/27/2022 14:37 | WG1901018 |
| Fluoranthene | U | | 0.00227 | 0.00600 | 1 | 07/27/2022 14:37 | WG1901018 |
| Fluorene | U | | 0.00205 | 0.00600 | 1 | 07/27/2022 14:37 | WG1901018 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 07/27/2022 14:37 | WG1901018 |
| Naphthalene | U | | 0.00408 | 0.0200 | 1 | 07/27/2022 14:37 | WG1901018 |
| Phenanthrene | U | | 0.00231 | 0.00600 | 1 | 07/27/2022 14:37 | WG1901018 |
| Pyrene | U | | 0.00200 | 0.00600 | 1 | 07/27/2022 14:37 | WG1901018 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 | 1 | 07/27/2022 14:37 | WG1901018 |
| 2-Methylnaphthalene | U | | 0.00427 | 0.0200 | 1 | 07/27/2022 14:37 | WG1901018 |
| 2-Chloronaphthalene | U | | 0.00466 | 0.0200 | 1 | 07/27/2022 14:37 | WG1901018 |
| (S) p-Terphenyl-d14 | 83.4 | | | 23.0-120 | | 07/27/2022 14:37 | WG1901018 |
| (S) Nitrobenzene-d5 | 50.6 | | | 14.0-149 | | 07/27/2022 14:37 | WG1901018 |
| (S) 2-Fluorobiphenyl | 65.5 | | | 34.0-125 | | 07/27/2022 14:37 | WG1901018 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 16.0 | | 1 | 08/01/2022 14:50 | WG1902865 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|---------------------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | 0.441 | B J | 0.255 | 1.00 | 1 | 08/04/2022 03:21 | WG1905133 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|--------------------|----------|----------------------|---------------------------|
| pH | 9.11 | T8 | 1 | 07/23/2022 13:00 | WG1899784 |

Sample Narrative:

L1517244-03 WG1899784: 9.11 at 25.3C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 1000 | | 10.0 | 1 | 07/29/2022 07:46 | WG1901859 |

Sample Narrative:

L1517244-03 WG1901859: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-------------------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 81.6 | | 0.0852 | 0.500 | 1 | 08/05/2022 17:23 | WG1901308 |
| Cadmium | 0.397 | J | 0.0471 | 0.500 | 1 | 08/05/2022 17:23 | WG1901308 |
| Copper | 25.8 | | 0.400 | 2.00 | 1 | 08/05/2022 17:23 | WG1901308 |
| Lead | 13.9 | | 0.208 | 0.500 | 1 | 08/05/2022 17:23 | WG1901308 |
| Nickel | 17.6 | | 0.132 | 2.00 | 1 | 08/05/2022 17:23 | WG1901308 |
| Selenium | U | | 0.764 | 2.00 | 1 | 08/05/2022 17:23 | WG1901308 |
| Silver | U | | 0.127 | 1.00 | 1 | 08/05/2022 17:23 | WG1901308 |
| Zinc | 63.7 | | 0.832 | 5.00 | 1 | 08/05/2022 17:23 | WG1901308 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.848 | | 0.0167 | 0.200 | 1 | 08/04/2022 21:19 | WG1903661 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 5.71 | | 0.100 | 1.00 | 5 | 08/05/2022 13:25 | WG1901310 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|--|--------------|---------------------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.0727 | B J | 0.0217 | 0.100 | 1 | 07/23/2022 04:50 | WG1899210 |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 99.3 | | | 77.0-120 | | 07/23/2022 04:50 | WG1899210 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.000467 | 0.00100 | 1 | 07/22/2022 21:19 | WG1899607 |
| Toluene | U | | 0.00130 | 0.00500 | 1 | 07/22/2022 21:19 | WG1899607 |
| Ethylbenzene | U | | 0.000737 | 0.00250 | 1 | 07/22/2022 21:19 | WG1899607 |
| Xylenes, Total | U | | 0.000880 | 0.00650 | 1 | 07/22/2022 21:19 | WG1899607 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 | 1 | 07/22/2022 21:19 | WG1899607 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 | 1 | 07/22/2022 21:19 | WG1899607 |
| (S) Toluene-d8 | 109 | | | 75.0-131 | | 07/22/2022 21:19 | WG1899607 |
| (S) 4-Bromofluorobenzene | 94.3 | | | 67.0-138 | | 07/22/2022 21:19 | WG1899607 |
| (S) 1,2-Dichloroethane-d4 | 89.1 | | | 70.0-130 | | 07/22/2022 21:19 | WG1899607 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|---------------------|--------------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | U | | 1.61 | 4.00 | 1 | 07/27/2022 14:42 | WG1901042 |
| C28-C36 Motor Oil Range | 1.40 | B J | 0.274 | 4.00 | 1 | 07/27/2022 14:42 | WG1901042 |
| (S) o-Terphenyl | 49.1 | | | 18.0-148 | | 07/27/2022 14:42 | WG1901042 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 07/27/2022 14:55 | WG1901018 |
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 07/27/2022 14:55 | WG1901018 |
| Acenaphthylene | U | | 0.00216 | 0.00600 | 1 | 07/27/2022 14:55 | WG1901018 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 07/27/2022 14:55 | WG1901018 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 07/27/2022 14:55 | WG1901018 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 07/27/2022 14:55 | WG1901018 |
| Benzo(g,h,i)perylene | U | | 0.00177 | 0.00600 | 1 | 07/27/2022 14:55 | WG1901018 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 07/27/2022 14:55 | WG1901018 |
| Chrysene | U | | 0.00232 | 0.00600 | 1 | 07/27/2022 14:55 | WG1901018 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 07/27/2022 14:55 | WG1901018 |
| Fluoranthene | U | | 0.00227 | 0.00600 | 1 | 07/27/2022 14:55 | WG1901018 |
| Fluorene | U | | 0.00205 | 0.00600 | 1 | 07/27/2022 14:55 | WG1901018 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 07/27/2022 14:55 | WG1901018 |
| Naphthalene | U | | 0.00408 | 0.0200 | 1 | 07/27/2022 14:55 | WG1901018 |
| Phenanthrene | U | | 0.00231 | 0.00600 | 1 | 07/27/2022 14:55 | WG1901018 |
| Pyrene | U | | 0.00200 | 0.00600 | 1 | 07/27/2022 14:55 | WG1901018 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 | 1 | 07/27/2022 14:55 | WG1901018 |
| 2-Methylnaphthalene | U | | 0.00427 | 0.0200 | 1 | 07/27/2022 14:55 | WG1901018 |
| 2-Chloronaphthalene | U | | 0.00466 | 0.0200 | 1 | 07/27/2022 14:55 | WG1901018 |
| (S) p-Terphenyl-d14 | 79.9 | | | 23.0-120 | | 07/27/2022 14:55 | WG1901018 |
| (S) Nitrobenzene-d5 | 52.7 | | | 14.0-149 | | 07/27/2022 14:55 | WG1901018 |
| (S) 2-Fluorobiphenyl | 63.5 | | | 34.0-125 | | 07/27/2022 14:55 | WG1901018 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 8.98 | | 1 | 08/01/2022 14:53 | WG1902865 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|---------------------------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | 0.361 | B J J5 J6 | 0.255 | 1.00 | 1 | 08/04/2022 03:26 | WG1905133 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|--------------------|----------|----------------------|---------------------------|
| pH | 8.59 | T8 | 1 | 07/23/2022 13:00 | WG1899784 |

Sample Narrative:

L1517244-04 WG1899784: 8.59 at 25.1C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 1280 | | 10.0 | 1 | 07/29/2022 07:46 | WG1901859 |

Sample Narrative:

L1517244-04 WG1901859: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-------------------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 199 | | 0.0852 | 0.500 | 1 | 08/05/2022 17:25 | WG1901308 |
| Cadmium | 0.294 | J | 0.0471 | 0.500 | 1 | 08/05/2022 17:25 | WG1901308 |
| Copper | 27.3 | | 0.400 | 2.00 | 1 | 08/05/2022 17:25 | WG1901308 |
| Lead | 25.1 | | 0.208 | 0.500 | 1 | 08/05/2022 17:25 | WG1901308 |
| Nickel | 15.2 | | 0.132 | 2.00 | 1 | 08/05/2022 17:25 | WG1901308 |
| Selenium | U | | 0.764 | 2.00 | 1 | 08/05/2022 17:25 | WG1901308 |
| Silver | U | | 0.127 | 1.00 | 1 | 08/05/2022 17:25 | WG1901308 |
| Zinc | 56.7 | | 0.832 | 5.00 | 1 | 08/05/2022 17:25 | WG1901308 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.794 | | 0.0167 | 0.200 | 1 | 08/04/2022 21:22 | WG1903661 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 2.33 | | 0.100 | 1.00 | 5 | 08/05/2022 13:29 | WG1901310 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|--|--------------|---------------------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.0525 | B J | 0.0217 | 0.100 | 1 | 07/23/2022 05:13 | WG1899210 |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 99.2 | | | 77.0-120 | | 07/23/2022 05:13 | WG1899210 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.000467 | 0.00100 | 1 | 07/22/2022 21:40 | WG1899607 |
| Toluene | U | | 0.00130 | 0.00500 | 1 | 07/22/2022 21:40 | WG1899607 |
| Ethylbenzene | U | | 0.000737 | 0.00250 | 1 | 07/22/2022 21:40 | WG1899607 |
| Xylenes, Total | U | | 0.000880 | 0.00650 | 1 | 07/22/2022 21:40 | WG1899607 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 | 1 | 07/22/2022 21:40 | WG1899607 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 | 1 | 07/22/2022 21:40 | WG1899607 |
| (S) Toluene-d8 | 102 | | | 75.0-131 | | 07/22/2022 21:40 | WG1899607 |
| (S) 4-Bromofluorobenzene | 96.5 | | | 67.0-138 | | 07/22/2022 21:40 | WG1899607 |
| (S) 1,2-Dichloroethane-d4 | 91.5 | | | 70.0-130 | | 07/22/2022 21:40 | WG1899607 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | 18.1 | | 1.61 | 4.00 | 1 | 07/27/2022 15:52 | WG1901042 |
| C28-C36 Motor Oil Range | 28.0 | | 0.274 | 4.00 | 1 | 07/27/2022 15:52 | WG1901042 |
| (S) o-Terphenyl | 65.3 | | | 18.0-148 | | 07/27/2022 15:52 | WG1901042 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 07/27/2022 15:13 | WG1901018 |
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 07/27/2022 15:13 | WG1901018 |
| Acenaphthylene | U | | 0.00216 | 0.00600 | 1 | 07/27/2022 15:13 | WG1901018 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 07/27/2022 15:13 | WG1901018 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 07/27/2022 15:13 | WG1901018 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 07/27/2022 15:13 | WG1901018 |
| Benzo(g,h,i)perylene | U | | 0.00177 | 0.00600 | 1 | 07/27/2022 15:13 | WG1901018 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 07/27/2022 15:13 | WG1901018 |
| Chrysene | U | | 0.00232 | 0.00600 | 1 | 07/27/2022 15:13 | WG1901018 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 07/27/2022 15:13 | WG1901018 |
| Fluoranthene | U | | 0.00227 | 0.00600 | 1 | 07/27/2022 15:13 | WG1901018 |
| Fluorene | U | | 0.00205 | 0.00600 | 1 | 07/27/2022 15:13 | WG1901018 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 07/27/2022 15:13 | WG1901018 |
| Naphthalene | U | | 0.00408 | 0.0200 | 1 | 07/27/2022 15:13 | WG1901018 |
| Phenanthrene | U | | 0.00231 | 0.00600 | 1 | 07/27/2022 15:13 | WG1901018 |
| Pyrene | U | | 0.00200 | 0.00600 | 1 | 07/27/2022 15:13 | WG1901018 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 | 1 | 07/27/2022 15:13 | WG1901018 |
| 2-Methylnaphthalene | U | | 0.00427 | 0.0200 | 1 | 07/27/2022 15:13 | WG1901018 |
| 2-Chloronaphthalene | U | | 0.00466 | 0.0200 | 1 | 07/27/2022 15:13 | WG1901018 |
| (S) p-Terphenyl-d14 | 88.1 | | | 23.0-120 | | 07/27/2022 15:13 | WG1901018 |
| (S) Nitrobenzene-d5 | 49.9 | | | 14.0-149 | | 07/27/2022 15:13 | WG1901018 |
| (S) 2-Fluorobiphenyl | 63.6 | | | 34.0-125 | | 07/27/2022 15:13 | WG1901018 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 6.46 | | 1 | 08/02/2022 20:05 | WG1902871 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|---------------------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | 0.425 | B J | 0.255 | 1.00 | 1 | 08/04/2022 04:02 | WG1905133 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|--------------------|----------|----------------------|---------------------------|
| pH | 9.15 | T8 | 1 | 07/23/2022 13:00 | WG1899784 |

Sample Narrative:

L1517244-05 WG1899784: 9.15 at 25C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 507 | | 10.0 | 1 | 07/29/2022 07:46 | WG1901859 |

Sample Narrative:

L1517244-05 WG1901859: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-------------------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 2590 | | 0.0852 | 0.500 | 1 | 08/03/2022 06:19 | WG1901316 |
| Cadmium | 0.362 | J | 0.0471 | 0.500 | 1 | 08/03/2022 06:19 | WG1901316 |
| Copper | 32.0 | | 0.400 | 2.00 | 1 | 08/03/2022 06:19 | WG1901316 |
| Lead | 15.5 | | 0.208 | 0.500 | 1 | 08/03/2022 06:19 | WG1901316 |
| Nickel | 19.6 | | 0.132 | 2.00 | 1 | 08/03/2022 06:19 | WG1901316 |
| Selenium | U | | 0.764 | 2.00 | 1 | 08/03/2022 06:19 | WG1901316 |
| Silver | U | | 0.127 | 1.00 | 1 | 08/03/2022 06:19 | WG1901316 |
| Zinc | 77.6 | | 0.832 | 5.00 | 1 | 08/03/2022 06:19 | WG1901316 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.949 | | 0.0167 | 0.200 | 1 | 08/04/2022 21:24 | WG1903661 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 2.65 | | 0.100 | 1.00 | 5 | 08/02/2022 17:40 | WG1901314 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|--|--------------|-------------------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.104 | B | 0.0217 | 0.100 | 1 | 07/23/2022 05:35 | WG1899210 |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 99.2 | | | 77.0-120 | | 07/23/2022 05:35 | WG1899210 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.000467 | 0.00100 | 1 | 07/22/2022 22:01 | WG1899607 |
| Toluene | U | | 0.00130 | 0.00500 | 1 | 07/22/2022 22:01 | WG1899607 |
| Ethylbenzene | U | | 0.000737 | 0.00250 | 1 | 07/22/2022 22:01 | WG1899607 |
| Xylenes, Total | U | | 0.000880 | 0.00650 | 1 | 07/22/2022 22:01 | WG1899607 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 | 1 | 07/22/2022 22:01 | WG1899607 |
| 1,3,5-Trimethylbenzene | 0.00388 | <u>J</u> | 0.00200 | 0.00500 | 1 | 07/22/2022 22:01 | WG1899607 |
| (S) Toluene-d8 | 107 | | | 75.0-131 | | 07/22/2022 22:01 | WG1899607 |
| (S) 4-Bromofluorobenzene | 91.1 | | | 67.0-138 | | 07/22/2022 22:01 | WG1899607 |
| (S) 1,2-Dichloroethane-d4 | 89.3 | | | 70.0-130 | | 07/22/2022 22:01 | WG1899607 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | 35.3 | | 1.61 | 4.00 | 1 | 07/27/2022 15:38 | WG1901042 |
| C28-C36 Motor Oil Range | 20.1 | | 0.274 | 4.00 | 1 | 07/27/2022 15:38 | WG1901042 |
| (S) o-Terphenyl | 61.9 | | | 18.0-148 | | 07/27/2022 15:38 | WG1901042 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 07/28/2022 02:37 | WG1901020 |
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 07/28/2022 02:37 | WG1901020 |
| Acenaphthylene | U | | 0.00216 | 0.00600 | 1 | 07/28/2022 02:37 | WG1901020 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 07/28/2022 02:37 | WG1901020 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 07/28/2022 02:37 | WG1901020 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 07/28/2022 02:37 | WG1901020 |
| Benzo(g,h,i)perylene | U | | 0.00177 | 0.00600 | 1 | 07/28/2022 02:37 | WG1901020 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 07/28/2022 02:37 | WG1901020 |
| Chrysene | U | | 0.00232 | 0.00600 | 1 | 07/28/2022 02:37 | WG1901020 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 07/28/2022 02:37 | WG1901020 |
| Fluoranthene | U | | 0.00227 | 0.00600 | 1 | 07/28/2022 02:37 | WG1901020 |
| Fluorene | U | | 0.00205 | 0.00600 | 1 | 07/28/2022 02:37 | WG1901020 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 07/28/2022 02:37 | WG1901020 |
| Naphthalene | U | | 0.00408 | 0.0200 | 1 | 07/28/2022 02:37 | WG1901020 |
| Phenanthrene | U | | 0.00231 | 0.00600 | 1 | 07/28/2022 02:37 | WG1901020 |
| Pyrene | U | | 0.00200 | 0.00600 | 1 | 07/28/2022 02:37 | WG1901020 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 | 1 | 07/28/2022 02:37 | WG1901020 |
| 2-Methylnaphthalene | U | | 0.00427 | 0.0200 | 1 | 07/28/2022 02:37 | WG1901020 |
| 2-Chloronaphthalene | U | | 0.00466 | 0.0200 | 1 | 07/28/2022 02:37 | WG1901020 |
| (S) p-Terphenyl-d14 | 70.6 | | | 23.0-120 | | 07/28/2022 02:37 | WG1901020 |
| (S) Nitrobenzene-d5 | 57.6 | | | 14.0-149 | | 07/28/2022 02:37 | WG1901020 |
| (S) 2-Fluorobiphenyl | 61.7 | | | 34.0-125 | | 07/28/2022 02:37 | WG1901020 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 60.7 | | 1 | 08/02/2022 20:08 | WG1902871 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|---------------------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | 0.538 | B J | 0.255 | 1.00 | 1 | 08/04/2022 04:07 | WG1905133 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|--------------------|----------|----------------------|---------------------------|
| pH | 8.86 | T8 | 1 | 07/23/2022 13:00 | WG1899784 |

Sample Narrative:

L1517244-07 WG1899784: 8.86 at 25C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 8450 | | 10.0 | 1 | 07/31/2022 09:05 | WG1901882 |

Sample Narrative:

L1517244-07 WG1901882: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-------------------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 589 | | 0.0852 | 0.500 | 1 | 08/03/2022 06:22 | WG1901316 |
| Cadmium | 0.384 | J | 0.0471 | 0.500 | 1 | 08/03/2022 06:22 | WG1901316 |
| Copper | 24.8 | | 0.400 | 2.00 | 1 | 08/03/2022 06:22 | WG1901316 |
| Lead | 23.7 | | 0.208 | 0.500 | 1 | 08/03/2022 06:22 | WG1901316 |
| Nickel | 16.3 | | 0.132 | 2.00 | 1 | 08/03/2022 06:22 | WG1901316 |
| Selenium | U | | 0.764 | 2.00 | 1 | 08/03/2022 06:22 | WG1901316 |
| Silver | U | | 0.127 | 1.00 | 1 | 08/03/2022 06:22 | WG1901316 |
| Zinc | 84.2 | | 0.832 | 5.00 | 1 | 08/03/2022 06:22 | WG1901316 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.419 | | 0.0167 | 0.200 | 1 | 08/04/2022 21:27 | WG1903661 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 6.40 | | 0.100 | 1.00 | 5 | 08/02/2022 17:43 | WG1901314 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|--|--------------|---------------------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.0265 | B J | 0.0217 | 0.100 | 1 | 07/23/2022 05:58 | WG1899210 |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 99.6 | | | 77.0-120 | | 07/23/2022 05:58 | WG1899210 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.000467 | 0.00100 | 1 | 07/22/2022 22:22 | WG1899607 |
| Toluene | U | | 0.00130 | 0.00500 | 1 | 07/22/2022 22:22 | WG1899607 |
| Ethylbenzene | U | | 0.000737 | 0.00250 | 1 | 07/22/2022 22:22 | WG1899607 |
| Xylenes, Total | U | | 0.000880 | 0.00650 | 1 | 07/22/2022 22:22 | WG1899607 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 | 1 | 07/22/2022 22:22 | WG1899607 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 | 1 | 07/22/2022 22:22 | WG1899607 |
| (S) Toluene-d8 | 103 | | | 75.0-131 | | 07/22/2022 22:22 | WG1899607 |
| (S) 4-Bromofluorobenzene | 96.1 | | | 67.0-138 | | 07/22/2022 22:22 | WG1899607 |
| (S) 1,2-Dichloroethane-d4 | 92.0 | | | 70.0-130 | | 07/22/2022 22:22 | WG1899607 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | 112 | | 1.61 | 4.00 | 1 | 07/27/2022 16:06 | WG1901042 |
| C28-C36 Motor Oil Range | 30.6 | | 0.274 | 4.00 | 1 | 07/27/2022 16:06 | WG1901042 |
| (S) o-Terphenyl | 56.1 | | | 18.0-148 | | 07/27/2022 16:06 | WG1901042 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 07/28/2022 02:55 | WG1901020 |
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 07/28/2022 02:55 | WG1901020 |
| Acenaphthylene | U | | 0.00216 | 0.00600 | 1 | 07/28/2022 02:55 | WG1901020 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 07/28/2022 02:55 | WG1901020 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 07/28/2022 02:55 | WG1901020 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 07/28/2022 02:55 | WG1901020 |
| Benzo(g,h,i)perylene | U | | 0.00177 | 0.00600 | 1 | 07/28/2022 02:55 | WG1901020 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 07/28/2022 02:55 | WG1901020 |
| Chrysene | U | | 0.00232 | 0.00600 | 1 | 07/28/2022 02:55 | WG1901020 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 07/28/2022 02:55 | WG1901020 |
| Fluoranthene | U | | 0.00227 | 0.00600 | 1 | 07/28/2022 02:55 | WG1901020 |
| Fluorene | U | | 0.00205 | 0.00600 | 1 | 07/28/2022 02:55 | WG1901020 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 07/28/2022 02:55 | WG1901020 |
| Naphthalene | U | | 0.00408 | 0.0200 | 1 | 07/28/2022 02:55 | WG1901020 |
| Phenanthrene | 0.0208 | | 0.00231 | 0.00600 | 1 | 07/28/2022 02:55 | WG1901020 |
| Pyrene | 0.00204 | U | 0.00200 | 0.00600 | 1 | 07/28/2022 02:55 | WG1901020 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 | 1 | 07/28/2022 02:55 | WG1901020 |
| 2-Methylnaphthalene | U | | 0.00427 | 0.0200 | 1 | 07/28/2022 02:55 | WG1901020 |
| 2-Chloronaphthalene | U | | 0.00466 | 0.0200 | 1 | 07/28/2022 02:55 | WG1901020 |
| (S) p-Terphenyl-d14 | 61.5 | | | 23.0-120 | | 07/28/2022 02:55 | WG1901020 |
| (S) Nitrobenzene-d5 | 48.9 | | | 14.0-149 | | 07/28/2022 02:55 | WG1901020 |
| (S) 2-Fluorobiphenyl | 49.9 | | | 34.0-125 | | 07/28/2022 02:55 | WG1901020 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 36.5 | | 1 | 08/02/2022 20:11 | WG1902871 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|-----------|
| Hexavalent Chromium | 1.35 | B | 0.255 | 1.00 | 1 | 08/04/2022 04:13 | WG1905133 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|-----------|----------|----------------------|-----------|
| pH | 8.03 | T8 | 1 | 07/27/2022 10:00 | WG1901438 |

Sample Narrative:

L1517244-08 WG1901438: 8.03 at 23.7C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|-----------|
| Specific Conductance | 9220 | | 10.0 | 1 | 07/29/2022 07:46 | WG1901859 |

Sample Narrative:

L1517244-08 WG1901859: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|-----------|
| Barium | 302 | | 0.0852 | 0.500 | 1 | 08/03/2022 06:24 | WG1901316 |
| Cadmium | 0.456 | J | 0.0471 | 0.500 | 1 | 08/03/2022 06:24 | WG1901316 |
| Copper | 28.7 | | 0.400 | 2.00 | 1 | 08/03/2022 06:24 | WG1901316 |
| Lead | 19.6 | | 0.208 | 0.500 | 1 | 08/03/2022 06:24 | WG1901316 |
| Nickel | 16.2 | | 0.132 | 2.00 | 1 | 08/03/2022 06:24 | WG1901316 |
| Selenium | U | | 0.764 | 2.00 | 1 | 08/03/2022 06:24 | WG1901316 |
| Silver | U | | 0.127 | 1.00 | 1 | 08/03/2022 06:24 | WG1901316 |
| Zinc | 72.2 | | 0.832 | 5.00 | 1 | 08/03/2022 06:24 | WG1901316 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|-----------|
| Hot Water Sol. Boron | 0.935 | | 0.0167 | 0.200 | 1 | 08/04/2022 21:30 | WG1903661 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|-----------|
| Arsenic | 5.95 | | 0.100 | 1.00 | 5 | 08/02/2022 17:46 | WG1901314 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|----------------------|-----------|
| TPH (GC/FID) Low Fraction | 0.428 | B | 0.0217 | 0.100 | 1 | 07/23/2022 06:21 | WG1899210 |
| (S) a,a,a-Trifluorotoluene(FID) | 97.2 | | | 77.0-120 | | 07/23/2022 06:21 | WG1899210 |



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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Benzene | 0.000500 | U | 0.000467 | 0.00100 | 1 | 07/22/2022 22:44 | WG1899607 |
| Toluene | U | | 0.00130 | 0.00500 | 1 | 07/22/2022 22:44 | WG1899607 |
| Ethylbenzene | U | | 0.000737 | 0.00250 | 1 | 07/22/2022 22:44 | WG1899607 |
| Xylenes, Total | 0.00721 | | 0.000880 | 0.00650 | 1 | 07/22/2022 22:44 | WG1899607 |
| 1,2,4-Trimethylbenzene | 0.00660 | | 0.00158 | 0.00500 | 1 | 07/22/2022 22:44 | WG1899607 |
| 1,3,5-Trimethylbenzene | 0.00480 | U | 0.00200 | 0.00500 | 1 | 07/22/2022 22:44 | WG1899607 |
| (S) Toluene-d8 | 107 | | | 75.0-131 | | 07/22/2022 22:44 | WG1899607 |
| (S) 4-Bromofluorobenzene | 92.3 | | | 67.0-138 | | 07/22/2022 22:44 | WG1899607 |
| (S) 1,2-Dichloroethane-d4 | 89.9 | | | 70.0-130 | | 07/22/2022 22:44 | WG1899607 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | 24.9 | | 1.61 | 4.00 | 1 | 07/27/2022 15:24 | WG1901042 |
| C28-C36 Motor Oil Range | 21.5 | | 0.274 | 4.00 | 1 | 07/27/2022 15:24 | WG1901042 |
| (S) o-Terphenyl | 61.6 | | | 18.0-148 | | 07/27/2022 15:24 | WG1901042 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 07/28/2022 03:12 | WG1901020 |
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 07/28/2022 03:12 | WG1901020 |
| Acenaphthylene | U | | 0.00216 | 0.00600 | 1 | 07/28/2022 03:12 | WG1901020 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 07/28/2022 03:12 | WG1901020 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 07/28/2022 03:12 | WG1901020 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 07/28/2022 03:12 | WG1901020 |
| Benzo(g,h,i)perylene | U | | 0.00177 | 0.00600 | 1 | 07/28/2022 03:12 | WG1901020 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 07/28/2022 03:12 | WG1901020 |
| Chrysene | U | | 0.00232 | 0.00600 | 1 | 07/28/2022 03:12 | WG1901020 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 07/28/2022 03:12 | WG1901020 |
| Fluoranthene | U | | 0.00227 | 0.00600 | 1 | 07/28/2022 03:12 | WG1901020 |
| Fluorene | 0.00510 | U | 0.00205 | 0.00600 | 1 | 07/28/2022 03:12 | WG1901020 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 07/28/2022 03:12 | WG1901020 |
| Naphthalene | U | | 0.00408 | 0.0200 | 1 | 07/28/2022 03:12 | WG1901020 |
| Phenanthrene | 0.00947 | | 0.00231 | 0.00600 | 1 | 07/28/2022 03:12 | WG1901020 |
| Pyrene | U | | 0.00200 | 0.00600 | 1 | 07/28/2022 03:12 | WG1901020 |
| 1-Methylnaphthalene | 0.0109 | U | 0.00449 | 0.0200 | 1 | 07/28/2022 03:12 | WG1901020 |
| 2-Methylnaphthalene | 0.00942 | U | 0.00427 | 0.0200 | 1 | 07/28/2022 03:12 | WG1901020 |
| 2-Chloronaphthalene | U | | 0.00466 | 0.0200 | 1 | 07/28/2022 03:12 | WG1901020 |
| (S) p-Terphenyl-d14 | 64.9 | | | 23.0-120 | | 07/28/2022 03:12 | WG1901020 |
| (S) Nitrobenzene-d5 | 74.6 | | | 14.0-149 | | 07/28/2022 03:12 | WG1901020 |
| (S) 2-Fluorobiphenyl | 63.7 | | | 34.0-125 | | 07/28/2022 03:12 | WG1901020 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 42.5 | | 1 | 08/02/2022 20:14 | WG1902871 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|---------------------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | 0.435 | B J | 0.255 | 1.00 | 1 | 08/04/2022 04:18 | WG1905133 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|--------------------|----------|----------------------|---------------------------|
| pH | 9.15 | T8 | 1 | 07/23/2022 11:00 | WG1899769 |

Sample Narrative:

L1517244-09 WG1899769: 9.15 at 24.6C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 3200 | | 10.0 | 1 | 07/29/2022 07:46 | WG1901859 |

Sample Narrative:

L1517244-09 WG1901859: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|----------------------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 2520 | O1 V | 0.0852 | 0.500 | 1 | 08/03/2022 06:06 | WG1901316 |
| Cadmium | 0.382 | J | 0.0471 | 0.500 | 1 | 08/03/2022 06:06 | WG1901316 |
| Copper | 26.1 | | 0.400 | 2.00 | 1 | 08/03/2022 06:06 | WG1901316 |
| Lead | 30.0 | | 0.208 | 0.500 | 1 | 08/03/2022 06:06 | WG1901316 |
| Nickel | 15.4 | | 0.132 | 2.00 | 1 | 08/03/2022 06:06 | WG1901316 |
| Selenium | U | | 0.764 | 2.00 | 1 | 08/03/2022 06:06 | WG1901316 |
| Silver | U | | 0.127 | 1.00 | 1 | 08/03/2022 06:06 | WG1901316 |
| Zinc | 64.5 | | 0.832 | 5.00 | 1 | 08/03/2022 06:06 | WG1901316 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.942 | | 0.0167 | 0.200 | 1 | 08/04/2022 21:33 | WG1903661 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 4.01 | | 0.100 | 1.00 | 5 | 08/02/2022 17:23 | WG1901314 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|--|--------------|---------------------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.0553 | B J | 0.0217 | 0.100 | 1 | 07/23/2022 08:39 | WG1899210 |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 99.6 | | | 77.0-120 | | 07/23/2022 08:39 | WG1899210 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.000467 | 0.00100 | 1 | 07/22/2022 23:05 | WG1899607 |
| Toluene | U | | 0.00130 | 0.00500 | 1 | 07/22/2022 23:05 | WG1899607 |
| Ethylbenzene | U | | 0.000737 | 0.00250 | 1 | 07/22/2022 23:05 | WG1899607 |
| Xylenes, Total | U | | 0.000880 | 0.00650 | 1 | 07/22/2022 23:05 | WG1899607 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 | 1 | 07/22/2022 23:05 | WG1899607 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 | 1 | 07/22/2022 23:05 | WG1899607 |
| (S) Toluene-d8 | 109 | | | 75.0-131 | | 07/22/2022 23:05 | WG1899607 |
| (S) 4-Bromofluorobenzene | 96.1 | | | 67.0-138 | | 07/22/2022 23:05 | WG1899607 |
| (S) 1,2-Dichloroethane-d4 | 88.6 | | | 70.0-130 | | 07/22/2022 23:05 | WG1899607 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | U | | 1.61 | 4.00 | 1 | 07/27/2022 14:02 | WG1901043 |
| C28-C36 Motor Oil Range | 3.30 | J | 0.274 | 4.00 | 1 | 07/27/2022 14:02 | WG1901043 |
| (S) o-Terphenyl | 42.3 | | | 18.0-148 | | 07/27/2022 14:02 | WG1901043 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 07/28/2022 04:06 | WG1901020 |
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 07/28/2022 04:06 | WG1901020 |
| Acenaphthylene | U | | 0.00216 | 0.00600 | 1 | 07/28/2022 04:06 | WG1901020 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 07/28/2022 04:06 | WG1901020 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 07/28/2022 04:06 | WG1901020 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 07/28/2022 04:06 | WG1901020 |
| Benzo(g,h,i)perylene | U | | 0.00177 | 0.00600 | 1 | 07/28/2022 04:06 | WG1901020 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 07/28/2022 04:06 | WG1901020 |
| Chrysene | U | | 0.00232 | 0.00600 | 1 | 07/28/2022 04:06 | WG1901020 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 07/28/2022 04:06 | WG1901020 |
| Fluoranthene | U | | 0.00227 | 0.00600 | 1 | 07/28/2022 04:06 | WG1901020 |
| Fluorene | U | | 0.00205 | 0.00600 | 1 | 07/28/2022 04:06 | WG1901020 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 07/28/2022 04:06 | WG1901020 |
| Naphthalene | U | | 0.00408 | 0.0200 | 1 | 07/28/2022 04:06 | WG1901020 |
| Phenanthrene | U | | 0.00231 | 0.00600 | 1 | 07/28/2022 04:06 | WG1901020 |
| Pyrene | U | | 0.00200 | 0.00600 | 1 | 07/28/2022 04:06 | WG1901020 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 | 1 | 07/28/2022 04:06 | WG1901020 |
| 2-Methylnaphthalene | U | | 0.00427 | 0.0200 | 1 | 07/28/2022 04:06 | WG1901020 |
| 2-Chloronaphthalene | U | | 0.00466 | 0.0200 | 1 | 07/28/2022 04:06 | WG1901020 |
| (S) p-Terphenyl-d14 | 63.3 | | | 23.0-120 | | 07/28/2022 04:06 | WG1901020 |
| (S) Nitrobenzene-d5 | 53.6 | | | 14.0-149 | | 07/28/2022 04:06 | WG1901020 |
| (S) 2-Fluorobiphenyl | 53.2 | | | 34.0-125 | | 07/28/2022 04:06 | WG1901020 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 6.11 | | 1 | 08/02/2022 20:17 | WG1902871 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|---------------------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | 0.854 | B J | 0.255 | 1.00 | 1 | 08/04/2022 04:23 | WG1905133 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|--------------------|----------|----------------------|---------------------------|
| pH | 8.42 | T8 | 1 | 07/23/2022 13:00 | WG1899784 |

Sample Narrative:

L1517244-10 WG1899784: 8.42 at 25C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 1120 | | 10.0 | 1 | 07/31/2022 09:05 | WG1901882 |

Sample Narrative:

L1517244-10 WG1901882: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 196 | | 0.0852 | 0.500 | 1 | 08/03/2022 06:33 | WG1901316 |
| Cadmium | 0.597 | | 0.0471 | 0.500 | 1 | 08/03/2022 06:33 | WG1901316 |
| Copper | 34.3 | | 0.400 | 2.00 | 1 | 08/03/2022 06:33 | WG1901316 |
| Lead | 20.3 | | 0.208 | 0.500 | 1 | 08/03/2022 06:33 | WG1901316 |
| Nickel | 19.5 | | 0.132 | 2.00 | 1 | 08/03/2022 06:33 | WG1901316 |
| Selenium | U | | 0.764 | 2.00 | 1 | 08/03/2022 06:33 | WG1901316 |
| Silver | U | | 0.127 | 1.00 | 1 | 08/03/2022 06:33 | WG1901316 |
| Zinc | 74.4 | | 0.832 | 5.00 | 1 | 08/03/2022 06:33 | WG1901316 |

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

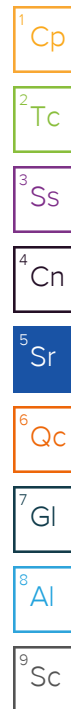
| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.586 | | 0.0167 | 0.200 | 1 | 08/04/2022 21:36 | WG1903661 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 6.05 | | 0.100 | 1.00 | 5 | 08/02/2022 17:56 | WG1901314 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|--|--------------|---------------------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.0402 | B J | 0.0217 | 0.100 | 1 | 07/23/2022 09:02 | WG1899210 |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 99.7 | | | 77.0-120 | | 07/23/2022 09:02 | WG1899210 |



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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Benzene | U | | 0.000467 | 0.00100 | 1 | 07/22/2022 23:26 | WG1899607 |
| Toluene | U | | 0.00130 | 0.00500 | 1 | 07/22/2022 23:26 | WG1899607 |
| Ethylbenzene | U | | 0.000737 | 0.00250 | 1 | 07/22/2022 23:26 | WG1899607 |
| Xylenes, Total | U | | 0.000880 | 0.00650 | 1 | 07/22/2022 23:26 | WG1899607 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 | 1 | 07/22/2022 23:26 | WG1899607 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 | 1 | 07/22/2022 23:26 | WG1899607 |
| (S) Toluene-d8 | 110 | | | 75.0-131 | | 07/22/2022 23:26 | WG1899607 |
| (S) 4-Bromofluorobenzene | 98.8 | | | 67.0-138 | | 07/22/2022 23:26 | WG1899607 |
| (S) 1,2-Dichloroethane-d4 | 86.1 | | | 70.0-130 | | 07/22/2022 23:26 | WG1899607 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| C10-C28 Diesel Range | U | | 1.61 | 4.00 | 1 | 07/27/2022 14:16 | WG1901043 |
| C28-C36 Motor Oil Range | 4.59 | | 0.274 | 4.00 | 1 | 07/27/2022 14:16 | WG1901043 |
| (S) o-Terphenyl | 52.2 | | | 18.0-148 | | 07/27/2022 14:16 | WG1901043 |

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

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Anthracene | U | | 0.00230 | 0.00600 | 1 | 07/28/2022 04:24 | WG1901020 |
| Acenaphthene | U | | 0.00209 | 0.00600 | 1 | 07/28/2022 04:24 | WG1901020 |
| Acenaphthylene | U | | 0.00216 | 0.00600 | 1 | 07/28/2022 04:24 | WG1901020 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 | 1 | 07/28/2022 04:24 | WG1901020 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 | 1 | 07/28/2022 04:24 | WG1901020 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 | 1 | 07/28/2022 04:24 | WG1901020 |
| Benzo(g,h,i)perylene | U | | 0.00177 | 0.00600 | 1 | 07/28/2022 04:24 | WG1901020 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 | 1 | 07/28/2022 04:24 | WG1901020 |
| Chrysene | U | | 0.00232 | 0.00600 | 1 | 07/28/2022 04:24 | WG1901020 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 | 1 | 07/28/2022 04:24 | WG1901020 |
| Fluoranthene | U | | 0.00227 | 0.00600 | 1 | 07/28/2022 04:24 | WG1901020 |
| Fluorene | U | | 0.00205 | 0.00600 | 1 | 07/28/2022 04:24 | WG1901020 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 | 1 | 07/28/2022 04:24 | WG1901020 |
| Naphthalene | U | | 0.00408 | 0.0200 | 1 | 07/28/2022 04:24 | WG1901020 |
| Phenanthrene | U | | 0.00231 | 0.00600 | 1 | 07/28/2022 04:24 | WG1901020 |
| Pyrene | U | | 0.00200 | 0.00600 | 1 | 07/28/2022 04:24 | WG1901020 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 | 1 | 07/28/2022 04:24 | WG1901020 |
| 2-Methylnaphthalene | U | | 0.00427 | 0.0200 | 1 | 07/28/2022 04:24 | WG1901020 |
| 2-Chloronaphthalene | U | | 0.00466 | 0.0200 | 1 | 07/28/2022 04:24 | WG1901020 |
| (S) p-Terphenyl-d14 | 54.8 | | | 23.0-120 | | 07/28/2022 04:24 | WG1901020 |
| (S) Nitrobenzene-d5 | 55.5 | | | 14.0-149 | | 07/28/2022 04:24 | WG1901020 |
| (S) 2-Fluorobiphenyl | 57.1 | | | 34.0-125 | | 07/28/2022 04:24 | WG1901020 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3825663-1 08/12/22 07:43

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

L1514822-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1514822-03 08/12/22 08:29 • (DUP) R3825663-7 08/12/22 08:34

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------------------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/kg | mg/kg | | % | | % |
| Hexavalent Chromium | 1.15 | 1.17 | 1 | 1.95 | | 20 |

L1516275-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1516275-03 08/12/22 09:31 • (DUP) R3825663-8 08/12/22 09:36

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

Laboratory Control Sample (LCS)

(LCS) R3825663-2 08/12/22 07:49

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------------------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/kg | mg/kg | % | % | |
| Hexavalent Chromium | 10.0 | 10.5 | 105 | 80.0-120 | |

L1514822-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1514822-01 08/12/22 07:55 • (MS) R3825663-3 08/12/22 08:03 • (MSD) R3825663-4 08/12/22 08:08

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Hexavalent Chromium | 20.0 | 1.16 | 20.8 | 20.6 | 98.2 | 97.1 | 1 | 75.0-125 | | | 1.04 | 20 |

L1514822-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1514822-01 08/12/22 07:55 • (MS) R3825663-6 08/12/22 08:18

| | Spike Amount | Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier |
|---------------------|--------------|-----------------|-----------|---------|----------|-------------|--------------|
| Analyte | mg/kg | mg/kg | mg/kg | % | | % | |
| Hexavalent Chromium | 643 | 1.16 | 798 | 124 | 50 | 75.0-125 | |

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

Method Blank (MB)

(MB) R3822634-1 08/04/22 02:52

| | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------------------|-----------|----------------|--------|--------|
| Analyte | mg/kg | | mg/kg | mg/kg |
| Hexavalent Chromium | 0.271 | ⬇ | 0.255 | 1.00 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1515310-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1515310-01 08/04/22 03:10 • (DUP) R3822634-3 08/04/22 03:16

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------------------|-----------------|------------|----------|---------|----------------|----------------|
| Analyte | mg/kg | mg/kg | | % | | % |
| Hexavalent Chromium | 0.477 | 0.474 | 1 | 0.517 | ⬇ | 20 |

L1517741-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1517741-01 08/04/22 04:33 • (DUP) R3822634-8 08/04/22 04:39

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------------------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/kg | mg/kg | | % | | % |
| Hexavalent Chromium | 1.21 | 1.20 | 1 | 0.612 | | 20 |

Laboratory Control Sample (LCS)

(LCS) R3822634-2 08/04/22 02:57

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------------------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/kg | mg/kg | % | % | |
| Hexavalent Chromium | 10.0 | 10.7 | 107 | 80.0-120 | |

L1517244-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1517244-04 08/04/22 03:26 • (MS) R3822634-4 08/04/22 03:31 • (MSD) R3822634-5 08/04/22 03:36

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|-----------------|-----------------|------|------------|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Hexavalent Chromium | 20.0 | 0.361 | 33.0 | 31.1 | 163 | 154 | 1 | 75.0-125 | J5 | J5 | 6.04 | 20 |

L1517244-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1517244-04 08/04/22 03:26 • (MS) R3822634-7 08/04/22 03:57

| | Spike Amount | Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier |
|---------------------|--------------|-----------------|-----------|---------|----------|-------------|-----------------|
| Analyte | mg/kg | mg/kg | mg/kg | % | | % | |
| Hexavalent Chromium | 641 | 0.361 | 104 | 16.2 | 50 | 75.0-125 | J6 |

L1517284-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1517284-03 07/23/22 11:00 • (DUP) R3818433-2 07/23/22 11:00

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | su | su | | % | | % |
| pH | 7.52 | 7.49 | 1 | 0.400 | | 1 |

Sample Narrative:

OS: 7.52 at 24.7C

DUP: 7.49 at 24.8C



L1517801-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1517801-03 07/23/22 11:00 • (DUP) R3818433-3 07/23/22 11:00

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | su | su | | % | | % |
| pH | 7.89 | 7.91 | 1 | 0.253 | | 1 |

Sample Narrative:

OS: 7.89 at 24.4C

DUP: 7.91 at 24.4C

Laboratory Control Sample (LCS)

(LCS) R3818433-1 07/23/22 11:00

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | <u>LCS Qualifier</u> |
|---------|--------------|------------|----------|-------------|----------------------|
| Analyte | su | su | % | % | |
| pH | 10.0 | 9.92 | 99.2 | 99.0-101 | |

Sample Narrative:

LCS: 9.92 at 24C

L1517244-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1517244-01 07/23/22 13:00 • (DUP) R3818468-2 07/23/22 13:00

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | su | su | | % | | % |
| pH | 8.50 | 8.53 | 1 | 0.352 | | 1 |

Sample Narrative:

OS: 8.5 at 24.8C

DUP: 8.53 at 25.2C

L1517725-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1517725-02 07/23/22 13:00 • (DUP) R3818468-3 07/23/22 13:00

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | su | su | | % | | % |
| pH | 8.61 | 8.60 | 1 | 0.116 | | 1 |

Sample Narrative:

OS: 8.61 at 25.2C

DUP: 8.6 at 25.4C

Laboratory Control Sample (LCS)

(LCS) R3818468-1 07/23/22 13:00

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | <u>LCS Qualifier</u> |
|---------|--------------|------------|----------|-------------|----------------------|
| Analyte | su | su | % | % | |
| pH | 10.0 | 9.92 | 99.2 | 99.0-101 | |

Sample Narrative:

LCS: 9.92 at 24.1C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1517824-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1517824-01 07/27/22 10:00 • (DUP) R3819661-2 07/27/22 10:00

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | pH | su | | % | | % |
| pH | 8.66 | 8.63 | 1 | 0.347 | | 1 |

Sample Narrative:

OS: 8.66 at 23.5C

DUP: 8.63 at 23.5C

L1518221-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1518221-02 07/27/22 10:00 • (DUP) R3819661-3 07/27/22 10:00

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | pH | su | | % | | % |
| pH | 8.96 | 8.96 | 1 | 0.000 | | 1 |

Sample Narrative:

OS: 8.96 at 23.6C

DUP: 8.96 at 23.6C

Laboratory Control Sample (LCS)

(LCS) R3819661-1 07/27/22 10:00

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

Sample Narrative:

LCS: 10.01 at 23.9C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3820470-1 07/29/22 07:46

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

Sample Narrative:

BLANK: at 25C

L1516783-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1516783-02 07/29/22 07:46 • (DUP) R3820470-3 07/29/22 07:46

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|----------------------|-----------------------------|------------------------|----------|--------------|---------------|------------------------|
| Specific Conductance | 3020 | 2970 | 1 | 1.70 | | 20 |

Sample Narrative:

OS: at 25C

DUP: at 25C

L1517244-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1517244-08 07/29/22 07:46 • (DUP) R3820470-4 07/29/22 07:46

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|----------------------|-----------------------------|------------------------|----------|--------------|---------------|------------------------|
| Specific Conductance | 9220 | 9140 | 1 | 0.871 | | 20 |

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3820470-2 07/29/22 07:46

| Analyte | Spike Amount umhos/cm | LCS Result umhos/cm | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------------|--------------------------|------------------------|---------------|------------------|---------------|
| Specific Conductance | 286 | 286 | 99.9 | 85.0-115 | |

Sample Narrative:

LCS: at 25C



Method Blank (MB)

(MB) R3820998-1 07/31/22 09:05

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

Sample Narrative:

BLANK: at 25C

L1516407-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1516407-06 07/31/22 09:05 • (DUP) R3820998-3 07/31/22 09:05

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|----------------------|-----------------------------|------------------------|----------|--------------|---------------|------------------------|
| Specific Conductance | 11700 | 13000 | 1 | 10.9 | | 20 |

Sample Narrative:

OS: at 25C

DUP: at 25C

L1517252-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1517252-01 07/31/22 09:05 • (DUP) R3820998-4 07/31/22 09:05

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|----------------------|-----------------------------|------------------------|----------|--------------|---------------|------------------------|
| Specific Conductance | 5070 | 5360 | 1 | 5.56 | | 20 |

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3820998-2 07/31/22 09:05

| Analyte | Spike Amount umhos/cm | LCS Result umhos/cm | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------------|--------------------------|------------------------|---------------|------------------|---------------|
| Specific Conductance | 286 | 281 | 98.1 | 85.0-115 | |

Sample Narrative:

LCS: at 25C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3823275-1 08/05/22 16:15

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|----------|--------------------|--------------|-----------------|-----------------|
| Barium | U | | 0.0852 | 0.500 |
| Cadmium | U | | 0.0471 | 0.500 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Zinc | U | | 0.832 | 5.00 |

Laboratory Control Sample (LCS)

(LCS) R3823275-2 08/05/22 16:17

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------|-----------------------|---------------------|---------------|------------------|---------------|
| Barium | 100 | 98.9 | 98.9 | 80.0-120 | |
| Cadmium | 100 | 94.7 | 94.7 | 80.0-120 | |
| Copper | 100 | 97.4 | 97.4 | 80.0-120 | |
| Lead | 100 | 95.0 | 95.0 | 80.0-120 | |
| Nickel | 100 | 96.3 | 96.3 | 80.0-120 | |
| Selenium | 100 | 98.2 | 98.2 | 80.0-120 | |
| Silver | 20.0 | 17.9 | 89.3 | 80.0-120 | |
| Zinc | 100 | 94.9 | 94.9 | 80.0-120 | |

L1517897-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1517897-01 08/05/22 16:20 • (MS) R3823275-5 08/05/22 16:29 • (MSD) R3823275-6 08/05/22 16:32

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|----------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Barium | 100 | 350 | 1290 | 249 | 943 | 0.000 | 1 | 75.0-125 | J5 | J3 J6 | 135 | 20 |
| Cadmium | 100 | 0.820 | 106 | 97.9 | 105 | 97.0 | 1 | 75.0-125 | | | 7.81 | 20 |
| Copper | 100 | 12.9 | 122 | 113 | 110 | 100 | 1 | 75.0-125 | | | 7.86 | 20 |
| Lead | 100 | 24.6 | 127 | 114 | 102 | 89.3 | 1 | 75.0-125 | | | 10.6 | 20 |
| Nickel | 100 | 16.9 | 125 | 113 | 108 | 96.4 | 1 | 75.0-125 | | | 10.1 | 20 |
| Selenium | 100 | U | 108 | 101 | 108 | 101 | 1 | 75.0-125 | | | 6.78 | 20 |
| Silver | 20.0 | U | 21.2 | 19.3 | 106 | 96.6 | 1 | 75.0-125 | | | 9.12 | 20 |
| Zinc | 100 | 169 | 288 | 253 | 119 | 84.0 | 1 | 75.0-125 | | | 13.0 | 20 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3822087-1 08/03/22 06:01

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|----------|--------------------|--------------|-----------------|-----------------|
| Barium | U | | 0.0852 | 0.500 |
| Cadmium | U | | 0.0471 | 0.500 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Zinc | U | | 0.832 | 5.00 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3822087-2 08/03/22 06:03

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------|-----------------------|---------------------|---------------|------------------|---------------|
| Barium | 100 | 97.1 | 97.1 | 80.0-120 | |
| Cadmium | 100 | 93.4 | 93.4 | 80.0-120 | |
| Copper | 100 | 95.4 | 95.4 | 80.0-120 | |
| Lead | 100 | 92.0 | 92.0 | 80.0-120 | |
| Nickel | 100 | 92.5 | 92.5 | 80.0-120 | |
| Selenium | 100 | 94.0 | 94.0 | 80.0-120 | |
| Silver | 20.0 | 17.9 | 89.7 | 80.0-120 | |
| Zinc | 100 | 91.4 | 91.4 | 80.0-120 | |

L1517244-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1517244-09 08/03/22 06:06 • (MS) R3822087-5 08/03/22 06:14 • (MSD) R3822087-6 08/03/22 06:16

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|----------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Barium | 100 | 2520 | 2180 | 2670 | 0.000 | 150 | 1 | 75.0-125 | V | V | 20.0 | 20 |
| Cadmium | 100 | 0.382 | 92.2 | 93.5 | 91.8 | 93.2 | 1 | 75.0-125 | | | 1.48 | 20 |
| Copper | 100 | 26.1 | 122 | 125 | 95.9 | 98.9 | 1 | 75.0-125 | | | 2.41 | 20 |
| Lead | 100 | 30.0 | 109 | 116 | 79.5 | 85.5 | 1 | 75.0-125 | | | 5.34 | 20 |
| Nickel | 100 | 15.4 | 103 | 105 | 87.7 | 89.8 | 1 | 75.0-125 | | | 2.02 | 20 |
| Selenium | 100 | U | 92.3 | 92.9 | 92.3 | 92.9 | 1 | 75.0-125 | | | 0.607 | 20 |
| Silver | 20.0 | U | 17.7 | 18.1 | 88.4 | 90.5 | 1 | 75.0-125 | | | 2.35 | 20 |
| Zinc | 100 | 64.5 | 145 | 151 | 80.2 | 86.3 | 1 | 75.0-125 | | | 4.10 | 20 |

Method Blank (MB)

(MB) R3822916-1 08/04/22 20:39

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

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

(LCS) R3822916-2 08/04/22 20:41 • (LCSD) R3822916-3 08/04/22 20:44

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCSD Result mg/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|----------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Hot Water Sol. Boron | 1.00 | 1.05 | 1.03 | 105 | 103 | 80.0-120 | | | 1.89 | 20 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3823121-1 08/05/22 12:02

| | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
| Analyte | mg/kg | | mg/kg | mg/kg |
| Arsenic | U | | 0.100 | 1.00 |

Laboratory Control Sample (LCS)

(LCS) R3823121-2 08/05/22 12:06

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/kg | mg/kg | % | % | |
| Arsenic | 100 | 89.8 | 89.8 | 80.0-120 | |

L1517897-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1517897-01 08/05/22 12:09 • (MS) R3823121-5 08/05/22 12:18 • (MSD) R3823121-6 08/05/22 12:22

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Arsenic | 100 | 18.2 | 112 | 102 | 94.0 | 83.8 | 5 | 75.0-125 | | | 9.47 | 20 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3821900-1 08/02/22 17:17

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---------|--------------------|--------------|-----------------|-----------------|
| Arsenic | U | | 0.100 | 1.00 |

Laboratory Control Sample (LCS)

(LCS) R3821900-2 08/02/22 17:20

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---------|-----------------------|---------------------|---------------|------------------|---------------|
| Arsenic | 100 | 88.6 | 88.6 | 80.0-120 | |

L1517244-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1517244-09 08/02/22 17:23 • (MS) R3821900-5 08/02/22 17:33 • (MSD) R3821900-6 08/02/22 17:36

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Arsenic | 100 | 4.01 | 84.0 | 90.3 | 79.9 | 86.3 | 5 | 75.0-125 | | | 7.28 | 20 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3820157-2 07/22/22 20:49

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| TPH (GC/FID) Low Fraction | 0.0515 | ⬇ | 0.0217 | 0.100 |
| (S) a,a,a-Trifluorotoluene(FID) | 100 | | | 77.0-120 |

Laboratory Control Sample (LCS)

(LCS) R3820157-1 07/22/22 19:38

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| TPH (GC/FID) Low Fraction | 5.50 | 5.04 | 91.6 | 72.0-127 | |
| (S) a,a,a-Trifluorotoluene(FID) | | | 106 | 77.0-120 | |

L1516840-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1516840-19 07/22/22 21:50 • (MS) R3820157-3 07/23/22 10:56 • (MSD) R3820157-4 07/23/22 12:21

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|------------------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| TPH (GC/FID) Low Fraction | 5.50 | U | 3.24 | 3.08 | 58.9 | 56.0 | 1 | 10.0-151 | | | 5.06 | 28 |
| (S) a,a,a-Trifluorotoluene(FID) | | | | | 99.6 | 99.1 | | 77.0-120 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3818444-3 07/22/22 18:09

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Benzene | U | | 0.000467 | 0.00100 |
| Toluene | U | | 0.00130 | 0.00500 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| (S) Toluene-d8 | 106 | | | 75.0-131 |
| (S) 4-Bromofluorobenzene | 95.9 | | | 67.0-138 |
| (S) 1,2-Dichloroethane-d4 | 89.4 | | | 70.0-130 |

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

(LCS) R3818444-1 07/22/22 16:44 • (LCSD) R3818444-2 07/22/22 17:05

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene | 0.125 | 0.124 | 0.130 | 99.2 | 104 | 70.0-123 | | | 4.72 | 20 |
| Toluene | 0.125 | 0.125 | 0.125 | 100 | 100 | 75.0-121 | | | 0.000 | 20 |
| Ethylbenzene | 0.125 | 0.123 | 0.129 | 98.4 | 103 | 74.0-126 | | | 4.76 | 20 |
| Xylenes, Total | 0.375 | 0.384 | 0.400 | 102 | 107 | 72.0-127 | | | 4.08 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.134 | 0.138 | 107 | 110 | 70.0-126 | | | 2.94 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.129 | 0.136 | 103 | 109 | 73.0-127 | | | 5.28 | 20 |
| (S) Toluene-d8 | | | | 102 | 101 | 75.0-131 | | | | |
| (S) 4-Bromofluorobenzene | | | | 98.4 | 94.4 | 67.0-138 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 102 | 101 | 70.0-130 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3819801-1 07/27/22 13:42

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|-------------------------|--------------------|--------------|-----------------|-----------------|
| C10-C28 Diesel Range | U | | 1.61 | 4.00 |
| C28-C36 Motor Oil Range | 0.366 | ⬇ | 0.274 | 4.00 |
| (S) o-Terphenyl | 83.6 | | | 18.0-148 |

Laboratory Control Sample (LCS)

(LCS) R3819801-2 07/27/22 13:55

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| C10-C28 Diesel Range | 50.0 | 33.7 | 67.4 | 50.0-150 | |
| (S) o-Terphenyl | | | 69.7 | 18.0-148 | |

L1517071-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1517071-02 07/27/22 18:56 • (MS) R3820048-2 07/27/22 17:17 • (MSD) R3820048-1 07/27/22 17:03

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|----------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| C10-C28 Diesel Range | 49.4 | 8.98 | 36.4 | 43.6 | 55.5 | 70.1 | 1 | 50.0-150 | | | 18.0 | 20 |
| (S) o-Terphenyl | | | | | 65.8 | 72.9 | | 18.0-148 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3819736-1 07/27/22 12:30

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|-------------------------|--------------------|--------------|-----------------|-----------------|
| C10-C28 Diesel Range | U | | 1.61 | 4.00 |
| C28-C36 Motor Oil Range | U | | 0.274 | 4.00 |
| (S) o-Terphenyl | 64.4 | | | 18.0-148 |

Laboratory Control Sample (LCS)

(LCS) R3819736-2 07/27/22 12:43

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| C10-C28 Diesel Range | 50.0 | 35.3 | 70.6 | 50.0-150 | |
| (S) o-Terphenyl | | | 88.3 | 18.0-148 | |

L1517291-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1517291-04 07/27/22 17:33 • (MS) R3819736-3 07/27/22 17:47 • (MSD) R3819736-4 07/27/22 18:00

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|----------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| C10-C28 Diesel Range | 49.8 | 358 | U | U | 0.000 | 0.000 | 20 | 50.0-150 | V | V | 0.000 | 20 |
| (S) o-Terphenyl | | | | | 0.000 | 0.000 | | 18.0-148 | J7 | J7 | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3819696-2 07/27/22 08:39

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|------------------------|--------------------|--------------|-----------------|-----------------|
| Anthracene | U | | 0.00230 | 0.00600 |
| Acenaphthene | U | | 0.00209 | 0.00600 |
| Acenaphthylene | U | | 0.00216 | 0.00600 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 |
| Benzo(g,h,i)perylene | U | | 0.00177 | 0.00600 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 |
| Chrysene | U | | 0.00232 | 0.00600 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 |
| Fluoranthene | U | | 0.00227 | 0.00600 |
| Fluorene | U | | 0.00205 | 0.00600 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 |
| Naphthalene | U | | 0.00408 | 0.0200 |
| Phenanthrene | U | | 0.00231 | 0.00600 |
| Pyrene | U | | 0.00200 | 0.00600 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 |
| 2-Methylnaphthalene | U | | 0.00427 | 0.0200 |
| 2-Chloronaphthalene | U | | 0.00466 | 0.0200 |
| (S) p-Terphenyl-d14 | 56.8 | | | 23.0-120 |
| (S) Nitrobenzene-d5 | 38.0 | | | 14.0-149 |
| (S) 2-Fluorobiphenyl | 45.9 | | | 34.0-125 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3819696-1 07/27/22 08:21

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|-----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Anthracene | 0.0800 | 0.0522 | 65.3 | 50.0-126 | |
| Acenaphthene | 0.0800 | 0.0485 | 60.6 | 50.0-120 | |
| Acenaphthylene | 0.0800 | 0.0500 | 62.5 | 50.0-120 | |
| Benzo(a)anthracene | 0.0800 | 0.0545 | 68.1 | 45.0-120 | |
| Benzo(a)pyrene | 0.0800 | 0.0535 | 66.9 | 42.0-120 | |
| Benzo(b)fluoranthene | 0.0800 | 0.0481 | 60.1 | 42.0-121 | |
| Benzo(g,h,i)perylene | 0.0800 | 0.0490 | 61.3 | 45.0-125 | |
| Benzo(k)fluoranthene | 0.0800 | 0.0480 | 60.0 | 49.0-125 | |
| Chrysene | 0.0800 | 0.0529 | 66.1 | 49.0-122 | |
| Dibenz(a,h)anthracene | 0.0800 | 0.0525 | 65.6 | 47.0-125 | |
| Fluoranthene | 0.0800 | 0.0547 | 68.4 | 49.0-129 | |

Laboratory Control Sample (LCS)

(LCS) R3819696-1 07/27/22 08:21

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Fluorene | 0.0800 | 0.0524 | 65.5 | 49.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.0800 | 0.0538 | 67.3 | 46.0-125 | |
| Naphthalene | 0.0800 | 0.0445 | 55.6 | 50.0-120 | |
| Phenanthrene | 0.0800 | 0.0509 | 63.6 | 47.0-120 | |
| Pyrene | 0.0800 | 0.0549 | 68.6 | 43.0-123 | |
| 1-Methylnaphthalene | 0.0800 | 0.0474 | 59.3 | 51.0-121 | |
| 2-Methylnaphthalene | 0.0800 | 0.0485 | 60.6 | 50.0-120 | |
| 2-Chloronaphthalene | 0.0800 | 0.0451 | 56.4 | 50.0-120 | |
| (S) p-Terphenyl-d14 | | | 78.3 | 23.0-120 | |
| (S) Nitrobenzene-d5 | | | 59.5 | 14.0-149 | |
| (S) 2-Fluorobiphenyl | | | 67.1 | 34.0-125 | |

L1515904-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1515904-14 07/27/22 09:15 • (MS) R3819696-3 07/27/22 09:33 • (MSD) R3819696-4 07/27/22 09:51

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Anthracene | 0.0788 | U | 0.0488 | 0.0442 | 61.9 | 56.1 | 1 | 10.0-145 | | | 9.89 | 30 |
| Acenaphthene | 0.0788 | U | 0.0471 | 0.0403 | 59.8 | 51.1 | 1 | 14.0-127 | | | 15.6 | 27 |
| Acenaphthylene | 0.0788 | U | 0.0481 | 0.0411 | 61.0 | 52.2 | 1 | 21.0-124 | | | 15.7 | 25 |
| Benzo(a)anthracene | 0.0788 | U | 0.0521 | 0.0472 | 66.1 | 59.9 | 1 | 10.0-139 | | | 9.87 | 30 |
| Benzo(a)pyrene | 0.0788 | U | 0.0549 | 0.0519 | 69.7 | 65.9 | 1 | 10.0-141 | | | 5.62 | 31 |
| Benzo(b)fluoranthene | 0.0788 | U | 0.0502 | 0.0460 | 63.7 | 58.4 | 1 | 10.0-140 | | | 8.73 | 36 |
| Benzo(g,h,i)perylene | 0.0788 | U | 0.0515 | 0.0500 | 65.4 | 63.5 | 1 | 10.0-140 | | | 2.96 | 33 |
| Benzo(k)fluoranthene | 0.0788 | U | 0.0492 | 0.0465 | 62.4 | 59.0 | 1 | 10.0-137 | | | 5.64 | 31 |
| Chrysene | 0.0788 | U | 0.0547 | 0.0507 | 69.4 | 64.3 | 1 | 10.0-145 | | | 7.59 | 30 |
| Dibenz(a,h)anthracene | 0.0788 | U | 0.0534 | 0.0514 | 67.8 | 65.2 | 1 | 10.0-132 | | | 3.82 | 31 |
| Fluoranthene | 0.0788 | U | 0.0539 | 0.0466 | 68.4 | 59.1 | 1 | 10.0-153 | | | 14.5 | 33 |
| Fluorene | 0.0788 | U | 0.0503 | 0.0431 | 63.8 | 54.7 | 1 | 11.0-130 | | | 15.4 | 29 |
| Indeno(1,2,3-cd)pyrene | 0.0788 | U | 0.0545 | 0.0509 | 69.2 | 64.6 | 1 | 10.0-137 | | | 6.83 | 32 |
| Naphthalene | 0.0788 | U | 0.0430 | 0.0389 | 54.6 | 49.4 | 1 | 10.0-135 | | | 10.0 | 27 |
| Phenanthrene | 0.0788 | U | 0.0508 | 0.0437 | 64.5 | 55.5 | 1 | 10.0-144 | | | 15.0 | 31 |
| Pyrene | 0.0788 | U | 0.0563 | 0.0497 | 71.4 | 63.1 | 1 | 10.0-148 | | | 12.5 | 35 |
| 1-Methylnaphthalene | 0.0788 | U | 0.0456 | 0.0399 | 57.9 | 50.6 | 1 | 10.0-142 | | | 13.3 | 28 |
| 2-Methylnaphthalene | 0.0788 | U | 0.0460 | 0.0401 | 58.4 | 50.9 | 1 | 10.0-137 | | | 13.7 | 28 |
| 2-Chloronaphthalene | 0.0788 | U | 0.0438 | 0.0386 | 55.5 | 48.9 | 1 | 29.0-120 | | | 12.6 | 24 |
| (S) p-Terphenyl-d14 | | | | | 83.4 | 73.1 | | 23.0-120 | | | | |
| (S) Nitrobenzene-d5 | | | | | 75.9 | 73.8 | | 14.0-149 | | | | |
| (S) 2-Fluorobiphenyl | | | | | 78.6 | 71.7 | | 34.0-125 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3821029-2 07/28/22 02:19

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|------------------------|--------------------|--------------|-----------------|-----------------|
| Anthracene | U | | 0.00230 | 0.00600 |
| Acenaphthene | U | | 0.00209 | 0.00600 |
| Acenaphthylene | U | | 0.00216 | 0.00600 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 |
| Benzo(g,h,i)perylene | U | | 0.00177 | 0.00600 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 |
| Chrysene | U | | 0.00232 | 0.00600 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 |
| Fluoranthene | U | | 0.00227 | 0.00600 |
| Fluorene | U | | 0.00205 | 0.00600 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 |
| Naphthalene | U | | 0.00408 | 0.0200 |
| Phenanthrene | U | | 0.00231 | 0.00600 |
| Pyrene | U | | 0.00200 | 0.00600 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 |
| 2-Methylnaphthalene | U | | 0.00427 | 0.0200 |
| 2-Chloronaphthalene | U | | 0.00466 | 0.0200 |
| (S) p-Terphenyl-d14 | 63.2 | | | 23.0-120 |
| (S) Nitrobenzene-d5 | 57.3 | | | 14.0-149 |
| (S) 2-Fluorobiphenyl | 60.0 | | | 34.0-125 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3821029-1 07/28/22 02:01

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|-----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Anthracene | 0.0800 | 0.0651 | 81.4 | 50.0-126 | |
| Acenaphthene | 0.0800 | 0.0632 | 79.0 | 50.0-120 | |
| Acenaphthylene | 0.0800 | 0.0658 | 82.3 | 50.0-120 | |
| Benzo(a)anthracene | 0.0800 | 0.0672 | 84.0 | 45.0-120 | |
| Benzo(a)pyrene | 0.0800 | 0.0662 | 82.8 | 42.0-120 | |
| Benzo(b)fluoranthene | 0.0800 | 0.0595 | 74.4 | 42.0-121 | |
| Benzo(g,h,i)perylene | 0.0800 | 0.0608 | 76.0 | 45.0-125 | |
| Benzo(k)fluoranthene | 0.0800 | 0.0582 | 72.8 | 49.0-125 | |
| Chrysene | 0.0800 | 0.0664 | 83.0 | 49.0-122 | |
| Dibenz(a,h)anthracene | 0.0800 | 0.0644 | 80.5 | 47.0-125 | |
| Fluoranthene | 0.0800 | 0.0669 | 83.6 | 49.0-129 | |

Laboratory Control Sample (LCS)

(LCS) R3821029-1 07/28/22 02:01

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Fluorene | 0.0800 | 0.0658 | 82.3 | 49.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.0800 | 0.0677 | 84.6 | 46.0-125 | |
| Naphthalene | 0.0800 | 0.0616 | 77.0 | 50.0-120 | |
| Phenanthrene | 0.0800 | 0.0616 | 77.0 | 47.0-120 | |
| Pyrene | 0.0800 | 0.0643 | 80.4 | 43.0-123 | |
| 1-Methylnaphthalene | 0.0800 | 0.0641 | 80.1 | 51.0-121 | |
| 2-Methylnaphthalene | 0.0800 | 0.0660 | 82.5 | 50.0-120 | |
| 2-Chloronaphthalene | 0.0800 | 0.0611 | 76.4 | 50.0-120 | |
| (S) p-Terphenyl-d14 | | | 81.8 | 23.0-120 | |
| (S) Nitrobenzene-d5 | | | 78.7 | 14.0-149 | |
| (S) 2-Fluorobiphenyl | | | 79.1 | 34.0-125 | |

L1517244-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1517244-08 07/28/22 03:12 • (MS) R3821029-3 07/28/22 03:30 • (MSD) R3821029-4 07/28/22 03:48

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Anthracene | 0.0792 | U | 0.0566 | 0.0533 | 71.5 | 67.3 | 1 | 10.0-145 | | | 6.01 | 30 |
| Acenaphthene | 0.0792 | U | 0.0535 | 0.0517 | 67.6 | 65.3 | 1 | 14.0-127 | | | 3.42 | 27 |
| Acenaphthylene | 0.0792 | U | 0.0556 | 0.0532 | 70.2 | 67.2 | 1 | 21.0-124 | | | 4.41 | 25 |
| Benzo(a)anthracene | 0.0792 | U | 0.0565 | 0.0533 | 71.3 | 67.3 | 1 | 10.0-139 | | | 5.83 | 30 |
| Benzo(a)pyrene | 0.0792 | U | 0.0573 | 0.0541 | 72.3 | 68.3 | 1 | 10.0-141 | | | 5.75 | 31 |
| Benzo(b)fluoranthene | 0.0792 | U | 0.0495 | 0.0472 | 62.5 | 59.6 | 1 | 10.0-140 | | | 4.76 | 36 |
| Benzo(g,h,i)perylene | 0.0792 | U | 0.0517 | 0.0493 | 65.3 | 62.2 | 1 | 10.0-140 | | | 4.75 | 33 |
| Benzo(k)fluoranthene | 0.0792 | U | 0.0479 | 0.0462 | 60.5 | 58.3 | 1 | 10.0-137 | | | 3.61 | 31 |
| Chrysene | 0.0792 | U | 0.0559 | 0.0530 | 70.6 | 66.9 | 1 | 10.0-145 | | | 5.33 | 30 |
| Dibenz(a,h)anthracene | 0.0792 | U | 0.0531 | 0.0506 | 67.0 | 63.9 | 1 | 10.0-132 | | | 4.82 | 31 |
| Fluoranthene | 0.0792 | U | 0.0578 | 0.0552 | 73.0 | 69.7 | 1 | 10.0-153 | | | 4.60 | 33 |
| Fluorene | 0.0792 | 0.00510 | 0.0570 | 0.0560 | 65.5 | 64.3 | 1 | 11.0-130 | | | 1.77 | 29 |
| Indeno(1,2,3-cd)pyrene | 0.0792 | U | 0.0574 | 0.0543 | 72.5 | 68.6 | 1 | 10.0-137 | | | 5.55 | 32 |
| Naphthalene | 0.0792 | U | 0.0529 | 0.0506 | 66.8 | 63.9 | 1 | 10.0-135 | | | 4.44 | 27 |
| Phenanthrene | 0.0792 | 0.00947 | 0.0553 | 0.0539 | 57.9 | 56.1 | 1 | 10.0-144 | | | 2.56 | 31 |
| Pyrene | 0.0792 | U | 0.0558 | 0.0525 | 70.5 | 66.3 | 1 | 10.0-148 | | | 6.09 | 35 |
| 1-Methylnaphthalene | 0.0792 | 0.0109 | 0.0607 | 0.0599 | 62.9 | 61.9 | 1 | 10.0-142 | | | 1.33 | 28 |
| 2-Methylnaphthalene | 0.0792 | 0.00942 | 0.0597 | 0.0593 | 63.5 | 63.0 | 1 | 10.0-137 | | | 0.672 | 28 |
| 2-Chloronaphthalene | 0.0792 | U | 0.0514 | 0.0497 | 64.9 | 62.8 | 1 | 29.0-120 | | | 3.36 | 24 |
| (S) p-Terphenyl-d14 | | | | | 64.4 | 64.6 | | 23.0-120 | | | | |
| (S) Nitrobenzene-d5 | | | | | 68.8 | 61.0 | | 14.0-149 | | | | |
| (S) 2-Fluorobiphenyl | | | | | 65.9 | 63.0 | | 34.0-125 | | | | |

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

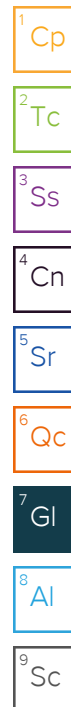
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

| Qualifier | Description |
|-----------|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| J7 | Surrogate recovery cannot be used for control limit evaluation due to dilution. |
| O1 | The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference. |
| T8 | Sample(s) received past/too close to holding time expiration. |
| V | The sample concentration is too high to evaluate accurate spike recoveries. |



ACCREDITATIONS & LOCATIONS

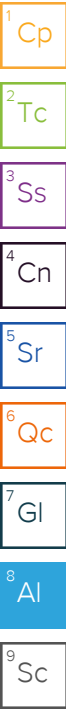
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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





CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

| | |
|--|--|
| Company: Confluence Compliance Companies | Billing Information: Info on file |
| Address: Info on file | |
| Report To: Chris McKisson | Email To: Info on file |
| Copy To: remediation@confluence-cc.com | Site Collection Info/Address: |
| Customer Project Name/Number: P&A | State: County/City: Time Zone Collected: / [] PT [] MT [] CT [] ET |

| | | |
|---|---|---|
| Phone: | Site/Facility ID #: Federal 1-30 | Compliance Monitoring? [] Yes [X] No |
| Email: | | |
| Collected By (print): Jana Nilsen | Purchase Order #: | DW PWS ID #: |
| | Quote #: | DW Location Code: |
| Collected By (signature): | Turnaround Date Required: | Immediately Packed on Ice: [X] Yes [] No |
| Sample Disposal: [] Dispose as appropriate [] Return [] Archive: [] Hold: | Rush: (Expedite Charges Apply) [] Same Day [X] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day | Field Filtered (if applicable): [] Yes [] No Analysis: _____ |

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) | | Composite End | | Res Cl | # of Ctns | Container Type: Plastic (P) or Glass (G) |
|-------------------------------------|----------|-------------|--------------------------------|------|---------------|------|--------|-----------|--|
| | | | Date | Time | Date | Time | | | |
| Sample Prefix: 20220719-FED_1-30_FL | | | | | | | | | |
| CAP_TRENCH_END@6' | SS | G | 7/19/2022 | 0858 | | | | 3 | G |
| METER_INLET@6' | SS | G | 7/19/2022 | 0902 | | | | 3 | G |
| METER_OUTLET_DEHY_IN/OUTLET@ | SS | G | 7/19/2022 | 0910 | | | | 3 | G |
| SEP_INLET@6' | SS | G | 7/19/2022 | 0918 | | | | 3 | G |
| SEP_OUTLET_TO_OIL@5' | SS | G | 7/19/2022 | 0925 | | | | 3 | G |
| SEP_OUTLET_GAS@2' | SS | G | 7/19/2022 | 0935 | | | | 3 | G |
| MID_TRENCH_WH_PJ@4' | SS | G | 7/19/2022 | 0944 | | | | 3 | G |
| WELL_HEAD_PUMP_JACK@4' | SS | G | 7/19/2022 | 0950 | | | | 3 | G |
| N_TRENCH@3' | SS | G | 7/19/2022 | 1002 | | | | 3 | G |
| MID_N_TRENCH@3' | SS | G | 7/19/2022 | 1006 | | | | 3 | G |

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via:

FEDEX UPS Client Courier Pace Courier

| | |
|-------------------------------|--------|
| Lab Profile/Line: | |
| Lab Sample Receipt Checklist: | |
| Custody Seals Present/Intact | Y N NA |
| Custody Signatures Present | Y N NA |
| Collector Signature Present | Y N NA |
| Bottles Intact | Y N NA |
| Correct Bottles | Y N NA |
| Sufficient Volume | Y N NA |
| Samples Received on Ice | Y N NA |
| VOA - Headspace Acceptable | Y N NA |
| USDA Regulated Soils | Y N NA |
| Samples in Holding Time | Y N NA |
| Residual Chlorine Present | Y N NA |
| Cl Strips: | |
| Sample pH Acceptable | Y N NA |
| pH Strips: | |
| Sulfide Present | Y N NA |
| Lead Acetate Strips: | |

LAB USE ONLY:

Lab Sample # / Comments:

L1517244

LAB Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#:

Cooler 1 Temp Upon Receipt: 18.4

Cooler 1 Therm Corr. Factor: 0.0

Cooler 1 Corrected Temp: 18.4

Comments: 18.4 + 0.0 = 18.4

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): Page:
YES / NO of:

Relinquished by/Company: (Signature)

Date/Time:

07/20/22 1700

Received by/Company: (Signature)

Date/Time:

E226

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Accumulate:
Template:
Prelogin:

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

2-21 08:15



PM:
PB:

07/21-L1517244-NCF CONCOMGJCO

R5

Time estimate: oh Time spent: oh Grouping date: 26 July 2022

Members

 Cole Medley (responsible)  Chris WardDue on ~~25 July 2022~~ 5:00 PM for target ~~Done~~ (Was done by Cole Medley at 26 July 2022 9:29 AM)

- ☐ 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: 7/21/22@1329 _____
- ☒ PM initials: CMW _____
- ☒ Client Contact: Chris McKisson _____

Comments

Cole Medley 21 July 2022 1:28 PM

OOT @ 18.4 Deg C; Ice Melted.

Cole Medley
Any Word? 26 July 2022 7:59 AMChris Ward
Client notified, please proceed 26 July 2022 9:28 AMCole Medley
Done. 26 July 2022 9:29 AM

Confluence Compliance Companies - CO

Sample Delivery Group: L1494266
Samples Received: 05/14/2022
Project Number: FEDERAL 1-30
Description: P & A
Site: FEDERAL 1-30
Report To: Chris McKisson
403 ½ Rockwood Lane
Grand Junction, CO 81507

Entire Report Reviewed By:



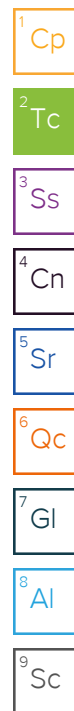
Chris Ward
Project Manager

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

TABLE OF CONTENTS

| | |
|--|----|
| Cp: Cover Page | 1 |
| Tc: Table of Contents | 2 |
| Ss: Sample Summary | 3 |
| Cn: Case Narrative | 4 |
| Sr: Sample Results | 5 |
| 20220513-FED_1-30-BGN (1205) L1494266-01 | 5 |
| 20220513-FED_1-30-BGN (1215) L1494266-02 | 6 |
| 20220513-FED_1-30-BGN (1220) L1494266-03 | 7 |
| 20220513-FED_1-30-BGN (1235) L1494266-04 | 8 |
| Qc: Quality Control Summary | 9 |
| Wet Chemistry by Method 7199 | 9 |
| Wet Chemistry by Method 9045D | 10 |
| Wet Chemistry by Method 9050AMod | 11 |
| Metals (ICP) by Method 6010B | 12 |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | 13 |
| Metals (ICPMS) by Method 6020 | 14 |
| Gl: Glossary of Terms | 15 |
| Al: Accreditations & Locations | 16 |
| Sc: Sample Chain of Custody | 17 |



SAMPLE SUMMARY

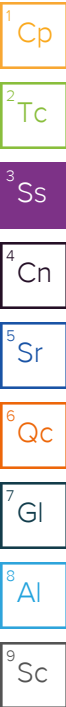
20220513-FED_1-30-BGN (1205) L1494266-01 Solid

Collected by
Alex Slorby

Collected date/time
05/13/22 12:05

Received date/time
05/14/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1866951 | 1 | 05/23/22 18:44 | 05/23/22 18:44 | ZSA | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1867789 | 1 | 05/23/22 03:24 | 05/23/22 11:59 | SCM | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1866926 | 1 | 05/20/22 13:20 | 05/20/22 13:25 | EPW | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1867394 | 1 | 05/21/22 09:52 | 05/22/22 12:27 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1867053 | 1 | 05/22/22 17:28 | 05/23/22 00:00 | CCE | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1866967 | 1 | 05/22/22 17:20 | 05/24/22 11:40 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1867058 | 5 | 05/22/22 17:31 | 05/22/22 20:46 | LD | Mt. Juliet, TN |



20220513-FED_1-30-BGN (1215) L1494266-02 Solid

Collected by
Alex Slorby

Collected date/time
05/13/22 12:15

Received date/time
05/14/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1866951 | 1 | 05/23/22 18:46 | 05/23/22 18:46 | ZSA | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1867789 | 1 | 05/23/22 03:24 | 05/23/22 12:04 | SCM | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1866926 | 1 | 05/20/22 13:20 | 05/20/22 13:25 | EPW | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1867394 | 1 | 05/21/22 09:52 | 05/22/22 12:27 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1867053 | 1 | 05/22/22 17:28 | 05/23/22 00:14 | CCE | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1866967 | 1 | 05/22/22 17:20 | 05/24/22 11:49 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1867058 | 5 | 05/22/22 17:31 | 05/22/22 21:03 | LD | Mt. Juliet, TN |

20220513-FED_1-30-BGN (1220) L1494266-03 Solid

Collected by
Alex Slorby

Collected date/time
05/13/22 12:20

Received date/time
05/14/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1866951 | 1 | 05/23/22 18:49 | 05/23/22 18:49 | ZSA | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1867789 | 1 | 05/23/22 03:24 | 05/23/22 12:15 | SCM | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1866926 | 1 | 05/20/22 13:20 | 05/20/22 13:25 | EPW | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1867394 | 1 | 05/21/22 09:52 | 05/22/22 12:27 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1867053 | 1 | 05/22/22 17:28 | 05/23/22 00:17 | CCE | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1866967 | 1 | 05/22/22 17:20 | 05/24/22 11:52 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1867058 | 5 | 05/22/22 17:31 | 05/22/22 21:06 | LD | Mt. Juliet, TN |

20220513-FED_1-30-BGN (1235) L1494266-04 Solid

Collected by
Alex Slorby

Collected date/time
05/13/22 12:35

Received date/time
05/14/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1866951 | 1 | 05/24/22 13:49 | 05/24/22 13:49 | ZSA | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1867789 | 1 | 05/23/22 03:24 | 05/23/22 12:20 | SCM | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1866926 | 1 | 05/20/22 13:20 | 05/20/22 13:25 | EPW | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1867394 | 1 | 05/21/22 09:52 | 05/22/22 12:27 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1867053 | 1 | 05/22/22 17:28 | 05/23/22 00:19 | CCE | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1866967 | 1 | 05/22/22 17:20 | 05/24/22 11:55 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1867058 | 5 | 05/22/22 17:31 | 05/22/22 21:10 | LD | 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



Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 0.378 | | 1 | 05/23/2022 18:44 | WG1866951 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | U | | 0.255 | 1.00 | 1 | 05/23/2022 11:59 | WG1867789 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|--------------------|----------|----------------------|---------------------------|
| pH | 8.13 | T8 | 1 | 05/20/2022 13:25 | WG1866926 |

Sample Narrative:

L1494266-01 WG1866926: 8.13 at 22.9C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 120 | | 10.0 | 1 | 05/22/2022 12:27 | WG1867394 |

Sample Narrative:

L1494266-01 WG1867394: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-----------------------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 28.2 | | 0.0852 | 0.500 | 1 | 05/23/2022 00:00 | WG1867053 |
| Cadmium | 0.582 | | 0.0471 | 0.500 | 1 | 05/23/2022 00:00 | WG1867053 |
| Copper | 41.3 | | 0.400 | 2.00 | 1 | 05/23/2022 00:00 | WG1867053 |
| Lead | 20.5 | O1 | 0.208 | 0.500 | 1 | 05/23/2022 00:00 | WG1867053 |
| Nickel | 24.1 | O1 | 0.132 | 2.00 | 1 | 05/23/2022 00:00 | WG1867053 |
| Selenium | U | J3 J6 | 0.764 | 2.00 | 1 | 05/23/2022 00:00 | WG1867053 |
| Silver | U | O1 | 0.127 | 1.00 | 1 | 05/23/2022 00:00 | WG1867053 |
| Zinc | 91.6 | J6 | 0.832 | 5.00 | 1 | 05/23/2022 00:00 | WG1867053 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.316 | | 0.0167 | 0.200 | 1 | 05/24/2022 11:40 | WG1866967 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|--------------------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 1.47 | O1 | 0.100 | 1.00 | 5 | 05/22/2022 20:46 | WG1867058 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 1.38 | | 1 | 05/23/2022 18:46 | WG1866951 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|----------------------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | 0.414 | J P1 | 0.255 | 1.00 | 1 | 05/23/2022 12:04 | WG1867789 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|--------------------|----------|----------------------|---------------------------|
| pH | 8.25 | T8 | 1 | 05/20/2022 13:25 | WG1866926 |

Sample Narrative:

L1494266-02 WG1866926: 8.25 at 22.8C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 59.2 | | 10.0 | 1 | 05/22/2022 12:27 | WG1867394 |

Sample Narrative:

L1494266-02 WG1867394: at 25C

Metals (ICP) by Method 6010B

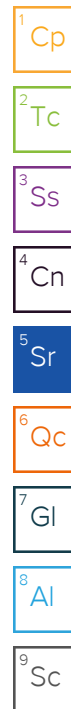
| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-------------------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 18.2 | | 0.0852 | 0.500 | 1 | 05/23/2022 00:14 | WG1867053 |
| Cadmium | 0.131 | J | 0.0471 | 0.500 | 1 | 05/23/2022 00:14 | WG1867053 |
| Copper | 46.9 | | 0.400 | 2.00 | 1 | 05/23/2022 00:14 | WG1867053 |
| Lead | 21.2 | | 0.208 | 0.500 | 1 | 05/23/2022 00:14 | WG1867053 |
| Nickel | 13.1 | | 0.132 | 2.00 | 1 | 05/23/2022 00:14 | WG1867053 |
| Selenium | U | | 0.764 | 2.00 | 1 | 05/23/2022 00:14 | WG1867053 |
| Silver | U | | 0.127 | 1.00 | 1 | 05/23/2022 00:14 | WG1867053 |
| Zinc | 56.3 | | 0.832 | 5.00 | 1 | 05/23/2022 00:14 | WG1867053 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.502 | | 0.0167 | 0.200 | 1 | 05/24/2022 11:49 | WG1866967 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-------------------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 0.843 | J | 0.100 | 1.00 | 5 | 05/22/2022 21:03 | WG1867058 |



Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 0.306 | | 1 | 05/23/2022 18:49 | WG1866951 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | 0.344 | J | 0.255 | 1.00 | 1 | 05/23/2022 12:15 | WG1867789 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|-----------|----------|----------------------|---------------------------|
| pH | 8.52 | T8 | 1 | 05/20/2022 13:25 | WG1866926 |

Sample Narrative:

L1494266-03 WG1866926: 8.52 at 22.9C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 136 | | 10.0 | 1 | 05/22/2022 12:27 | WG1867394 |

Sample Narrative:

L1494266-03 WG1867394: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 38.1 | | 0.0852 | 0.500 | 1 | 05/23/2022 00:17 | WG1867053 |
| Cadmium | 0.344 | J | 0.0471 | 0.500 | 1 | 05/23/2022 00:17 | WG1867053 |
| Copper | 33.6 | | 0.400 | 2.00 | 1 | 05/23/2022 00:17 | WG1867053 |
| Lead | 18.2 | | 0.208 | 0.500 | 1 | 05/23/2022 00:17 | WG1867053 |
| Nickel | 18.0 | | 0.132 | 2.00 | 1 | 05/23/2022 00:17 | WG1867053 |
| Selenium | U | | 0.764 | 2.00 | 1 | 05/23/2022 00:17 | WG1867053 |
| Silver | U | | 0.127 | 1.00 | 1 | 05/23/2022 00:17 | WG1867053 |
| Zinc | 74.3 | | 0.832 | 5.00 | 1 | 05/23/2022 00:17 | WG1867053 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.283 | | 0.0167 | 0.200 | 1 | 05/24/2022 11:52 | WG1866967 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 2.52 | | 0.100 | 1.00 | 5 | 05/22/2022 21:06 | WG1867058 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 2030 | | 1 | 05/24/2022 13:49 | WG1866951 |

1
Cp

2
Tc

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | 0.298 | J | 0.255 | 1.00 | 1 | 05/23/2022 12:20 | WG1867789 |

3
Ss

4
Cn

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|-----------|----------|----------------------|---------------------------|
| pH | 10.1 | T8 | 1 | 05/20/2022 13:25 | WG1866926 |

5
Sr

6
Qc

Sample Narrative:

L1494266-04 WG1866926: 10.1 at 22.8C

7
Gl

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 20200 | | 10.0 | 1 | 05/22/2022 12:27 | WG1867394 |

8
Al

9
Sc

Sample Narrative:

L1494266-04 WG1867394: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 36.1 | | 0.0852 | 0.500 | 1 | 05/23/2022 00:19 | WG1867053 |
| Cadmium | 0.292 | J | 0.0471 | 0.500 | 1 | 05/23/2022 00:19 | WG1867053 |
| Copper | 23.0 | | 0.400 | 2.00 | 1 | 05/23/2022 00:19 | WG1867053 |
| Lead | 12.5 | | 0.208 | 0.500 | 1 | 05/23/2022 00:19 | WG1867053 |
| Nickel | 12.9 | | 0.132 | 2.00 | 1 | 05/23/2022 00:19 | WG1867053 |
| Selenium | U | | 0.764 | 2.00 | 1 | 05/23/2022 00:19 | WG1867053 |
| Silver | U | | 0.127 | 1.00 | 1 | 05/23/2022 00:19 | WG1867053 |
| Zinc | 54.6 | | 0.832 | 5.00 | 1 | 05/23/2022 00:19 | WG1867053 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 6.29 | | 0.0167 | 0.200 | 1 | 05/24/2022 11:55 | WG1866967 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 6.76 | | 0.100 | 1.00 | 5 | 05/22/2022 21:10 | WG1867058 |

Method Blank (MB)

(MB) R3795014-1 05/23/22 10:44

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

L1494266-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1494266-02 05/23/22 12:04 • (DUP) R3795014-3 05/23/22 12:10

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------------------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/kg | mg/kg | | % | | % |
| Hexavalent Chromium | 0.414 | 0.306 | 1 | 30.0 | J P1 | 20 |

L1495823-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1495823-02 05/23/22 13:22 • (DUP) R3795014-8 05/23/22 13:27

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

Laboratory Control Sample (LCS)

(LCS) R3795014-2 05/23/22 10:52

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------------------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/kg | mg/kg | % | % | |
| Hexavalent Chromium | 10.0 | 9.56 | 95.6 | 80.0-120 | |

L1495416-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1495416-01 05/23/22 12:36 • (MS) R3795014-4 05/23/22 12:51 • (MSD) R3795014-5 05/23/22 12:56

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Hexavalent Chromium | 20.0 | 0.444 | 15.4 | 17.4 | 74.9 | 85.0 | 1 | 75.0-125 | J6 | | 12.3 | 20 |

L1495416-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1495416-01 05/23/22 12:36 • (MS) R3795014-6 05/23/22 13:02

| | Spike Amount | Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier |
|---------------------|--------------|-----------------|-----------|---------|----------|-------------|--------------|
| Analyte | mg/kg | mg/kg | mg/kg | % | | % | |
| Hexavalent Chromium | 685 | 0.444 | 617 | 90.0 | 50 | 75.0-125 | |



L1494261-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1494261-21 05/20/22 13:25 • (DUP) R3794440-2 05/20/22 13:25

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | pH | su | | % | | % |
| pH | 8.83 | 8.82 | 1 | 0.113 | | 1 |

Sample Narrative:

OS: 8.83 at 23.4C

DUP: 8.82 at 23.6C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1494266-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1494266-01 05/20/22 13:25 • (DUP) R3794440-3 05/20/22 13:25

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | su | su | | % | | % |
| pH | 8.13 | 8.09 | 1 | 0.493 | | 1 |

Sample Narrative:

OS: 8.13 at 22.9C

DUP: 8.09 at 23C

Laboratory Control Sample (LCS)

(LCS) R3794440-1 05/20/22 13:25

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | <u>LCS Qualifier</u> |
|---------|--------------|------------|----------|-------------|----------------------|
| Analyte | su | su | % | % | |
| pH | 10.0 | 9.93 | 99.3 | 99.0-101 | |

Sample Narrative:

LCS: 9.93 at 23.3C

Method Blank (MB)

(MB) R3794617-1 05/22/22 12:27

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

Sample Narrative:

BLANK: at 25C

L1494261-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1494261-21 05/22/22 12:27 • (DUP) R3794617-3 05/22/22 12:27

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|----------------------|-----------------------------|------------------------|----------|--------------|---------------|------------------------|
| Specific Conductance | 3470 | 3810 | 1 | 9.34 | | 20 |

Sample Narrative:

OS: at 25C

DUP: at 25C

L1494266-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1494266-01 05/22/22 12:27 • (DUP) R3794617-4 05/22/22 12:27

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|----------------------|-----------------------------|------------------------|----------|--------------|---------------|------------------------|
| Specific Conductance | 120 | 111 | 1 | 8.33 | | 20 |

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3794617-2 05/22/22 12:27

| Analyte | Spike Amount umhos/cm | LCS Result umhos/cm | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------------|--------------------------|------------------------|---------------|------------------|---------------|
| Specific Conductance | 268 | 279 | 104 | 85.0-115 | |

Sample Narrative:

LCS: at 25C

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3794756-1 05/22/22 23:54

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|----------|--------------------|--------------|-----------------|-----------------|
| Barium | U | | 0.0852 | 0.500 |
| Cadmium | U | | 0.0471 | 0.500 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Zinc | U | | 0.832 | 5.00 |

Laboratory Control Sample (LCS)

(LCS) R3794756-2 05/22/22 23:57

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------|-----------------------|---------------------|---------------|------------------|---------------|
| Barium | 100 | 84.2 | 84.2 | 80.0-120 | |
| Cadmium | 100 | 80.9 | 80.9 | 80.0-120 | |
| Copper | 100 | 81.9 | 81.9 | 80.0-120 | |
| Lead | 100 | 81.4 | 81.4 | 80.0-120 | |
| Nickel | 100 | 82.3 | 82.3 | 80.0-120 | |
| Selenium | 100 | 81.7 | 81.7 | 80.0-120 | |
| Silver | 20.0 | 16.1 | 80.7 | 80.0-120 | |
| Zinc | 100 | 81.0 | 81.0 | 80.0-120 | |

L1494266-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1494266-01 05/23/22 00:00 • (MS) R3794756-5 05/23/22 00:08 • (MSD) R3794756-6 05/23/22 00:11

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|----------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Barium | 100 | 28.2 | 113 | 116 | 84.8 | 87.4 | 1 | 75.0-125 | | | 2.28 | 20 |
| Cadmium | 100 | 0.582 | 87.6 | 86.3 | 87.0 | 85.7 | 1 | 75.0-125 | | | 1.50 | 20 |
| Copper | 100 | 41.3 | 124 | 134 | 82.7 | 92.6 | 1 | 75.0-125 | | | 7.69 | 20 |
| Lead | 100 | 20.5 | 111 | 112 | 90.2 | 91.0 | 1 | 75.0-125 | | | 0.792 | 20 |
| Nickel | 100 | 24.1 | 116 | 117 | 91.4 | 93.3 | 1 | 75.0-125 | | | 1.66 | 20 |
| Selenium | 100 | U | 67.0 | 82.2 | 67.0 | 82.2 | 1 | 75.0-125 | J6 | J3 | 20.3 | 20 |
| Silver | 20.0 | U | 17.6 | 17.3 | 88.0 | 86.4 | 1 | 75.0-125 | | | 1.85 | 20 |
| Zinc | 100 | 91.6 | 159 | 177 | 67.5 | 85.8 | 1 | 75.0-125 | J6 | | 10.9 | 20 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3795575-1 05/24/22 11:15

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

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

(LCS) R3795575-2 05/24/22 11:17 • (LCSD) R3795575-3 05/24/22 11:20

| 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 % |
|----------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Hot Water Sol. Boron | 1.00 | 1.02 | 1.01 | 102 | 101 | 80.0-120 | | | 0.513 | 20 |

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3794688-1 05/22/22 20:40

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---------|--------------------|--------------|-----------------|-----------------|
| Arsenic | U | | 0.100 | 1.00 |

Laboratory Control Sample (LCS)

(LCS) R3794688-2 05/22/22 20:43

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---------|-----------------------|---------------------|---------------|------------------|---------------|
| Arsenic | 100 | 80.1 | 80.1 | 80.0-120 | |

L1494266-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1494266-01 05/22/22 20:46 • (MS) R3794688-5 05/22/22 20:56 • (MSD) R3794688-6 05/22/22 21:00

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Arsenic | 100 | 1.47 | 85.1 | 82.7 | 83.7 | 81.3 | 5 | 75.0-125 | | | 2.85 | 20 |

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

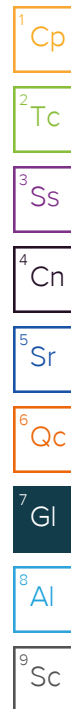
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

| Qualifier | Description |
|-----------|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| O1 | The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference. |
| P1 | RPD value not applicable for sample concentrations less than 5 times the reporting limit. |
| T8 | Sample(s) received past/too close to holding time expiration. |



ACCREDITATIONS & LOCATIONS

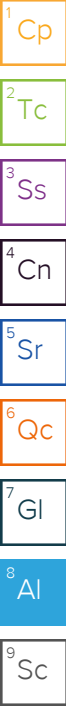
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



4 PM:

Confluence Compliance Companies - CO

Sample Delivery Group: L1516275
Samples Received: 07/19/2022
Project Number:
Description: Federal 1-30 Backgrounds
Site: FEDERAL 1-30
Report To: Chris McKisson
403 ½ Rockwood Lane
Grand Junction, CO 81507

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

TABLE OF CONTENTS

| | |
|--|----|
| Cp: Cover Page | 1 |
| Tc: Table of Contents | 2 |
| Ss: Sample Summary | 3 |
| Cn: Case Narrative | 4 |
| Sr: Sample Results | 5 |
| 220713-FED_1-30BG(0930)@1' L1516275-01 | 5 |
| 220713-FED_1-30BG(0935)@0.5' L1516275-02 | 6 |
| 220713-FED_1-30BG(0945)@0.5' L1516275-03 | 7 |
| Qc: Quality Control Summary | 8 |
| Wet Chemistry by Method 7199 | 8 |
| Wet Chemistry by Method 9045D | 9 |
| Wet Chemistry by Method 9050AMod | 10 |
| Metals (ICP) by Method 6010B | 11 |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | 12 |
| Metals (ICPMS) by Method 6020 | 13 |
| Gl: Glossary of Terms | 14 |
| Al: Accreditations & Locations | 15 |
| Sc: Sample Chain of Custody | 16 |



SAMPLE SUMMARY

220713-FED_1-30BG(0930)@1' L1516275-01 Solid

Collected by
Andrew Smith

Collected date/time
07/13/22 09:30

Received date/time
07/19/22 10:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1902326 | 1 | 08/01/22 17:56 | 08/01/22 17:56 | CCE | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1904736 | 1 | 08/10/22 23:49 | 08/12/22 09:21 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1899278 | 1 | 07/22/22 08:00 | 07/22/22 10:00 | GI | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1901909 | 1 | 07/31/22 07:01 | 07/31/22 09:54 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1905586 | 1 | 08/04/22 14:06 | 08/05/22 14:33 | KMG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1903564 | 1 | 07/31/22 17:02 | 08/05/22 00:20 | CCE | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1905637 | 5 | 08/04/22 13:53 | 08/05/22 13:57 | JPD | Mt. Juliet, TN |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

220713-FED_1-30BG(0935)@0.5' L1516275-02 Solid

Collected by
Andrew Smith

Collected date/time
07/13/22 09:35

Received date/time
07/19/22 10:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1902326 | 1 | 08/01/22 17:59 | 08/01/22 17:59 | CCE | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1904736 | 1 | 08/10/22 23:49 | 08/12/22 09:26 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1899278 | 1 | 07/22/22 08:00 | 07/22/22 10:00 | GI | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1901909 | 1 | 07/31/22 07:01 | 07/31/22 09:54 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1905586 | 1 | 08/04/22 14:06 | 08/05/22 14:36 | KMG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1903564 | 1 | 07/31/22 17:02 | 08/05/22 00:23 | CCE | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1905637 | 5 | 08/04/22 13:53 | 08/05/22 14:00 | JPD | Mt. Juliet, TN |

⁶Qc

⁷Gl

⁸Al

⁹Sc

220713-FED_1-30BG(0945)@0.5' L1516275-03 Solid

Collected by
Andrew Smith

Collected date/time
07/13/22 09:45

Received date/time
07/19/22 10:15

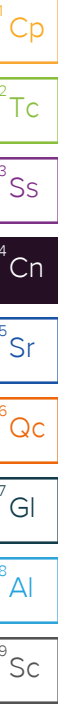
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1902326 | 1 | 08/01/22 18:01 | 08/01/22 18:01 | CCE | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1904736 | 1 | 08/10/22 23:49 | 08/12/22 09:31 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1899278 | 1 | 07/22/22 08:00 | 07/22/22 10:00 | GI | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1901909 | 1 | 07/31/22 07:01 | 07/31/22 09:54 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1905586 | 1 | 08/04/22 14:06 | 08/05/22 14:44 | KMG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1903564 | 1 | 07/31/22 17:02 | 08/05/22 00:26 | CCE | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1905637 | 5 | 08/04/22 13:53 | 08/05/22 14:10 | JPD | 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



Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 55.3 | | 1 | 08/01/2022 17:56 | WG1902326 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | U | | 0.255 | 1.00 | 1 | 08/12/2022 09:21 | WG1904736 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|--------------------|----------|----------------------|---------------------------|
| pH | 9.57 | T8 | 1 | 07/22/2022 10:00 | WG1899278 |

Sample Narrative:

L1516275-01 WG1899278: 9.57 at 24.6C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 1630 | | 10.0 | 1 | 07/31/2022 09:54 | WG1901909 |

Sample Narrative:

L1516275-01 WG1901909: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-------------------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 44.6 | | 0.0852 | 0.500 | 1 | 08/05/2022 14:33 | WG1905586 |
| Cadmium | 0.281 | J | 0.0471 | 0.500 | 1 | 08/05/2022 14:33 | WG1905586 |
| Copper | 10.0 | | 0.400 | 2.00 | 1 | 08/05/2022 14:33 | WG1905586 |
| Lead | 7.66 | | 0.208 | 0.500 | 1 | 08/05/2022 14:33 | WG1905586 |
| Nickel | 7.28 | | 0.132 | 2.00 | 1 | 08/05/2022 14:33 | WG1905586 |
| Selenium | U | | 0.764 | 2.00 | 1 | 08/05/2022 14:33 | WG1905586 |
| Silver | U | | 0.127 | 1.00 | 1 | 08/05/2022 14:33 | WG1905586 |
| Zinc | 29.0 | | 0.832 | 5.00 | 1 | 08/05/2022 14:33 | WG1905586 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 1.32 | | 0.0167 | 0.200 | 1 | 08/05/2022 00:20 | WG1903564 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 3.83 | | 0.100 | 1.00 | 5 | 08/05/2022 13:57 | WG1905637 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 308 | | 1 | 08/01/2022 17:59 | WG1902326 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | U | | 0.255 | 1.00 | 1 | 08/12/2022 09:26 | WG1904736 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|--------------------|----------|----------------------|---------------------------|
| pH | 9.84 | T8 | 1 | 07/22/2022 10:00 | WG1899278 |

Sample Narrative:

L1516275-02 WG1899278: 9.84 at 24.3C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 6460 | | 10.0 | 1 | 07/31/2022 09:54 | WG1901909 |

Sample Narrative:

L1516275-02 WG1901909: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-------------------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 34.9 | | 0.0852 | 0.500 | 1 | 08/05/2022 14:36 | WG1905586 |
| Cadmium | 0.210 | J | 0.0471 | 0.500 | 1 | 08/05/2022 14:36 | WG1905586 |
| Copper | 7.56 | | 0.400 | 2.00 | 1 | 08/05/2022 14:36 | WG1905586 |
| Lead | 5.95 | | 0.208 | 0.500 | 1 | 08/05/2022 14:36 | WG1905586 |
| Nickel | 5.97 | | 0.132 | 2.00 | 1 | 08/05/2022 14:36 | WG1905586 |
| Selenium | U | | 0.764 | 2.00 | 1 | 08/05/2022 14:36 | WG1905586 |
| Silver | U | | 0.127 | 1.00 | 1 | 08/05/2022 14:36 | WG1905586 |
| Zinc | 24.3 | | 0.832 | 5.00 | 1 | 08/05/2022 14:36 | WG1905586 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 2.36 | | 0.0167 | 0.200 | 1 | 08/05/2022 00:23 | WG1903564 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 2.68 | | 0.100 | 1.00 | 5 | 08/05/2022 14:00 | WG1905637 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 306 | | 1 | 08/01/2022 18:01 | WG1902326 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | U | | 0.255 | 1.00 | 1 | 08/12/2022 09:31 | WG1904736 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|--------------------|----------|----------------------|---------------------------|
| pH | 10.3 | T8 | 1 | 07/22/2022 10:00 | WG1899278 |

Sample Narrative:

L1516275-03 WG1899278: 10.25 at 24.2C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 8600 | | 10.0 | 1 | 07/31/2022 09:54 | WG1901909 |

Sample Narrative:

L1516275-03 WG1901909: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-------------------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 95.6 | | 0.0852 | 0.500 | 1 | 08/05/2022 14:44 | WG1905586 |
| Cadmium | 0.172 | J | 0.0471 | 0.500 | 1 | 08/05/2022 14:44 | WG1905586 |
| Copper | 8.71 | | 0.400 | 2.00 | 1 | 08/05/2022 14:44 | WG1905586 |
| Lead | 6.62 | | 0.208 | 0.500 | 1 | 08/05/2022 14:44 | WG1905586 |
| Nickel | 5.91 | | 0.132 | 2.00 | 1 | 08/05/2022 14:44 | WG1905586 |
| Selenium | U | | 0.764 | 2.00 | 1 | 08/05/2022 14:44 | WG1905586 |
| Silver | U | | 0.127 | 1.00 | 1 | 08/05/2022 14:44 | WG1905586 |
| Zinc | 24.8 | | 0.832 | 5.00 | 1 | 08/05/2022 14:44 | WG1905586 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 1.89 | | 0.0167 | 0.200 | 1 | 08/05/2022 00:26 | WG1903564 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 2.72 | | 0.100 | 1.00 | 5 | 08/05/2022 14:10 | WG1905637 |



Method Blank (MB)

(MB) R3825663-1 08/12/22 07:43

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

L1514822-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1514822-03 08/12/22 08:29 • (DUP) R3825663-7 08/12/22 08:34

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------------------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/kg | mg/kg | | % | | % |
| Hexavalent Chromium | 1.15 | 1.17 | 1 | 1.95 | | 20 |

L1516275-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1516275-03 08/12/22 09:31 • (DUP) R3825663-8 08/12/22 09:36

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

Laboratory Control Sample (LCS)

(LCS) R3825663-2 08/12/22 07:49

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------------------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/kg | mg/kg | % | % | |
| Hexavalent Chromium | 10.0 | 10.5 | 105 | 80.0-120 | |

L1514822-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1514822-01 08/12/22 07:55 • (MS) R3825663-3 08/12/22 08:03 • (MSD) R3825663-4 08/12/22 08:08

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Hexavalent Chromium | 20.0 | 1.16 | 20.8 | 20.6 | 98.2 | 97.1 | 1 | 75.0-125 | | | 1.04 | 20 |

L1514822-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1514822-01 08/12/22 07:55 • (MS) R3825663-6 08/12/22 08:18

| | Spike Amount | Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier |
|---------------------|--------------|-----------------|-----------|---------|----------|-------------|--------------|
| Analyte | mg/kg | mg/kg | mg/kg | % | | % | |
| Hexavalent Chromium | 643 | 1.16 | 798 | 124 | 50 | 75.0-125 | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1516296-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1516296-01 07/22/22 10:00 • (DUP) R3818103-2 07/22/22 10:00

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | su | su | | % | | % |
| pH | 8.57 | 8.53 | 1 | 0.468 | | 1 |

Sample Narrative:

OS: 8.57 at 24.4C

DUP: 8.53 at 24.2C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1516557-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1516557-01 07/22/22 10:00 • (DUP) R3818103-3 07/22/22 10:00

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | su | su | | % | | % |
| pH | 7.01 | 7.02 | 1 | 0.143 | | 1 |

Sample Narrative:

OS: 7.01 at 24.2C

DUP: 7.02 at 24.3C

Laboratory Control Sample (LCS)

(LCS) R3818103-1 07/22/22 10:00

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | <u>LCS Qualifier</u> |
|---------|--------------|------------|----------|-------------|----------------------|
| Analyte | su | su | % | % | |
| pH | 10.0 | 9.90 | 99.0 | 99.0-101 | |

Sample Narrative:

LCS: 9.9 at 23.5C

Method Blank (MB)

(MB) R3821000-1 07/31/22 09:54

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

Sample Narrative:

BLANK: at 25C

L1516250-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1516250-16 07/31/22 09:54 • (DUP) R3821000-3 07/31/22 09:54

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|----------------------|-----------------------------|------------------------|----------|--------------|---------------|------------------------|
| Specific Conductance | 2250 | 2440 | 1 | 8.01 | | 20 |

Sample Narrative:

OS: at 25C

DUP: at 25C

L1516291-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1516291-05 07/31/22 09:54 • (DUP) R3821000-4 07/31/22 09:54

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|----------------------|-----------------------------|------------------------|----------|--------------|---------------|------------------------|
| Specific Conductance | 238 | 245 | 1 | 2.98 | | 20 |

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3821000-2 07/31/22 09:54

| Analyte | Spike Amount umhos/cm | LCS Result umhos/cm | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------------|--------------------------|------------------------|---------------|------------------|---------------|
| Specific Conductance | 286 | 271 | 94.7 | 85.0-115 | |

Sample Narrative:

LCS: at 25C

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3823273-1 08/05/22 14:12

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|----------|--------------------|--------------|-----------------|-----------------|
| Barium | U | | 0.0852 | 0.500 |
| Cadmium | U | | 0.0471 | 0.500 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Zinc | U | | 0.832 | 5.00 |

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

Laboratory Control Sample (LCS)

(LCS) R3823273-2 08/05/22 14:15

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------|-----------------------|---------------------|---------------|------------------|---------------|
| Barium | 100 | 101 | 101 | 80.0-120 | |
| Cadmium | 100 | 96.6 | 96.6 | 80.0-120 | |
| Copper | 100 | 101 | 101 | 80.0-120 | |
| Lead | 100 | 97.1 | 97.1 | 80.0-120 | |
| Nickel | 100 | 98.9 | 98.9 | 80.0-120 | |
| Selenium | 100 | 99.6 | 99.6 | 80.0-120 | |
| Silver | 20.0 | 18.0 | 90.2 | 80.0-120 | |
| Zinc | 100 | 97.2 | 97.2 | 80.0-120 | |

7
Gl

8
Al

9
Sc

L1521215-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1521215-01 08/05/22 14:17 • (MS) R3823273-5 08/05/22 14:25 • (MSD) R3823273-6 08/05/22 14:28

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|----------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Barium | 100 | 80.7 | 181 | 183 | 101 | 102 | 1 | 75.0-125 | | | 0.951 | 20 |
| Cadmium | 100 | 0.262 | 96.0 | 96.2 | 95.8 | 95.9 | 1 | 75.0-125 | | | 0.156 | 20 |
| Copper | 100 | 14.3 | 116 | 117 | 102 | 102 | 1 | 75.0-125 | | | 0.637 | 20 |
| Lead | 100 | 15.8 | 114 | 115 | 98.7 | 99.6 | 1 | 75.0-125 | | | 0.750 | 20 |
| Nickel | 100 | 13.0 | 114 | 115 | 101 | 102 | 1 | 75.0-125 | | | 0.423 | 20 |
| Selenium | 100 | U | 99.2 | 99.7 | 99.2 | 99.7 | 1 | 75.0-125 | | | 0.490 | 20 |
| Silver | 20.0 | U | 18.1 | 18.2 | 90.6 | 91.1 | 1 | 75.0-125 | | | 0.623 | 20 |
| Zinc | 100 | 51.6 | 145 | 144 | 93.1 | 92.2 | 1 | 75.0-125 | | | 0.643 | 20 |

Method Blank (MB)

(MB) R3822918-1 08/04/22 23:18

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

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

(LCS) R3822918-2 08/04/22 23:20 • (LCSD) R3822918-3 08/04/22 23:23

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCSD Result mg/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD % | RPD Limits % |
|----------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Hot Water Sol. Boron | 1.00 | 1.04 | 1.01 | 104 | 101 | 80.0-120 | | | 2.88 | 20 |

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3823127-1 08/05/22 13:30

| | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
| Analyte | mg/kg | | mg/kg | mg/kg |
| Arsenic | U | | 0.100 | 1.00 |

Laboratory Control Sample (LCS)

(LCS) R3823127-2 08/05/22 13:34

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/kg | mg/kg | % | % | |
| Arsenic | 100 | 85.9 | 85.9 | 80.0-120 | |

L1521215-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1521215-01 08/05/22 13:37 • (MS) R3823127-5 08/05/22 13:47 • (MSD) R3823127-6 08/05/22 13:50

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Arsenic | 100 | 6.09 | 91.4 | 87.6 | 85.3 | 81.5 | 5 | 75.0-125 | | | 4.22 | 20 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier Description

| | |
|----|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| T8 | Sample(s) received past/too close to holding time expiration. |

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

ACCREDITATIONS & LOCATIONS

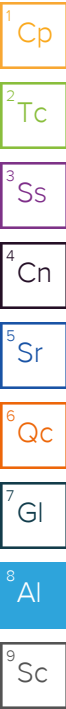
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



07/19-L1516275-NCF CONCOMGJCO

R5

Time estimate: oh

Time spent: oh

Grouping date: 19 July 2022

Members



Cole Medley (responsible)



Chris Ward

Due on ~~22 July 2022 5:00 PM~~ for target ~~Done~~ (Was done by Cole Medley at 19 July 2022 3:39 PM)

- ☒ Login Clarification needed
- ☐ Chain of custody is incomplete
- ☐ Please specify Metals requested
- ☐ Please specify TCLP requested
- ☐ Received additional samples not listed on COC
- ☐ Sample IDs on containers do not match IDs on COC
- ☐ Client did not "X" analysis
- ☐ Chain of Custody is missing
- ☐ If no COC; Received by: _____
- ☐ If no COC; Date/Time: _____
- ☐ If no COC; Temp./Cont. Rec./pH: _____
- ☐ If no COC; Carrier: _____
- ☐ If no COC; Tracking #: _____
- ☐ Client informed by call
- ☒ Client informed by Email
- ☐ Client informed by Voicemail
- ☒ Date/Time: 7/19/22@1534
- ☒ PM initials: CMW
- ☒ Client Contact: Andy Smith

Comments

Cole Medley

19 July 2022 2:24 PM

Times listed on containers don't match COC.

IDs:

220713-FED_1-30BG(0930)@1' 07/13/22 0930(COC)= 0900 (Container)

Logged per COC.

220713-FED_1-30BG(0935)@0.5' 07/13/22 0935(COC)= 0905 (Container)

Logged per COC.

220713-FED_1-30BG(0945)@0.5' 07/13/22 0945(COC)= 0910 (Container)

Logged per COC.

Chris Ward

19 July 2022 3:36 PM

Please log per COC

Cole Medley

Done.

19 July 2022 3:38 PM

Confluence Compliance Companies - CO

Sample Delivery Group: L1541683
Samples Received: 09/30/2022
Project Number: FEDERAL 1-30
Description: Federal 1-30
Site: FEDERAL 1-30
Report To: Chris McKisson
403 ½ Rockwood Lane
Grand Junction, CO 81507

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

TABLE OF CONTENTS

| | | |
|---|---|-----------------|
| Cp: Cover Page | 1 | ¹ Cp |
| Tc: Table of Contents | 2 | |
| Ss: Sample Summary | 3 | ² Tc |
| Cn: Case Narrative | 4 | |
| Sr: Sample Results | 5 | ³ Ss |
| FL_WELL_HEAD_PUMP_JACK @ 7' L1541683-01 | 5 | ⁴ Cn |
| Qc: Quality Control Summary | 6 | |
| Wet Chemistry by Method 7199 | 6 | ⁵ Sr |
| Gl: Glossary of Terms | 7 | |
| Al: Accreditations & Locations | 8 | ⁶ Qc |
| Sc: Sample Chain of Custody | 9 | ⁷ Gl |
| | | ⁸ Al |
| | | ⁹ Sc |

SAMPLE SUMMARY

| | | | |
|---|-------------|----------------|----------------|
| FL_WELL_HEAD_PUMP_JACK @ 7' L1541683-01 Solid | Alex Slorby | 09/28/22 08:45 | 09/30/22 10:00 |
|---|-------------|----------------|----------------|

| | | |
|--------------|---------------------|--------------------|
| Collected by | Collected date/time | Received date/time |
| Alex Slorby | 09/28/22 08:45 | 09/30/22 10:00 |

| | |
|---------------------|--------------------|
| Collected date/time | Received date/time |
| 09/28/22 08:45 | 09/30/22 10:00 |

Received date/time
09/30/22 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 7199 | WG1939667 | 1 | 10/09/22 00:36 | 10/13/22 06:25 | ARD | Mt. Juliet, TN |

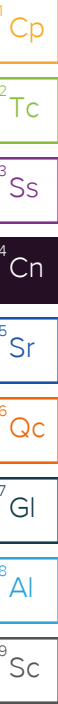
¹Cp ${}^2\text{Tc}$ 3S_s ${}^4\text{Cn}$ ${}^5\text{Sr}$ ${}^6\text{Qc}$ ${}^7\text{Gf}$ ${}^8\text{Al}$ ${}^9\text{Sc}$

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



Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|-----------------|-----------|--------------|--------------|----------|-------------------------|---------------------------|
| Hexavalent Chromium | U | | 0.255 | 1.00 | 1 | 10/13/2022 06:25 | WG1939667 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3850788-1 10/13/22 02:48

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

L1541423-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1541423-01 10/13/22 06:08 • (DUP) R3850788-3 10/13/22 06:15

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

L1541862-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1541862-02 10/13/22 09:47 • (DUP) R3850788-8 10/13/22 10:04

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

Laboratory Control Sample (LCS)

(LCS) R3850788-2 10/13/22 02:56

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------------------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/kg | mg/kg | % | % | |
| Hexavalent Chromium | 10.0 | 9.98 | 99.8 | 80.0-120 | |

L1541860-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541860-03 10/13/22 09:03 • (MS) R3850788-5 10/13/22 09:14 • (MSD) R3850788-6 10/13/22 09:19

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Hexavalent Chromium | 20.0 | U | 18.6 | 17.9 | 92.8 | 89.5 | 1 | 75.0-125 | | | 3.63 | 20 |

L1541860-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1541860-03 10/13/22 09:03 • (MS) R3850788-7 10/13/22 09:24

| | Spike Amount | Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier |
|---------------------|--------------|-----------------|-----------|---------|----------|-------------|--------------|
| Analyte | mg/kg | mg/kg | mg/kg | % | | % | |
| Hexavalent Chromium | 641 | U | 582 | 90.9 | 50 | 75.0-125 | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

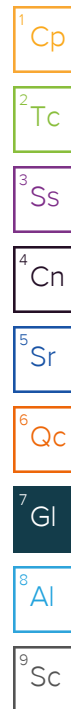
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

| | |
|------------------------------|--|
| MDL | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| 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

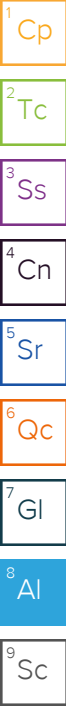
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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



Confluence Compliance Companies - CO

Sample Delivery Group: L1551283
Samples Received: 10/27/2022
Project Number: FED 1-30
Description: Fed 1-30 Backgrounds
Site: FEDERAL 1-30
Report To: Chris McKisson
403 ½ Rockwood Lane
Grand Junction, CO 81507

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

TABLE OF CONTENTS

| | |
|--|----|
| Cp: Cover Page | 1 |
| Tc: Table of Contents | 2 |
| Ss: Sample Summary | 3 |
| Cn: Case Narrative | 5 |
| Sr: Sample Results | 6 |
| 221025-FED_1-30-BG01@7.5'-10' L1551283-01 | 6 |
| 221025-FED_1-30-BG01@12.5'-15' L1551283-02 | 7 |
| 221025-FED_1-30-BG02@12.5'-15' L1551283-03 | 8 |
| 221025-FED_1-30-BG02@17.5'-20' L1551283-04 | 9 |
| 221025-FED_1-30-BG03@12.5'-15' L1551283-05 | 10 |
| 221025-FED_1-30-BG03@17.5'-20' L1551283-06 | 11 |
| 221025-FED_1-30-BG04@7.5'-10' L1551283-07 | 12 |
| 221025-FED_1-30-BG04@12.5'-15' L1551283-08 | 13 |
| 221025-FED_1-30-BG04@17.5'-20' L1551283-09 | 14 |
| Qc: Quality Control Summary | 15 |
| Wet Chemistry by Method 7199 | 15 |
| Wet Chemistry by Method 9045D | 17 |
| Wet Chemistry by Method 9050AMod | 18 |
| Metals (ICP) by Method 6010B | 21 |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | 22 |
| Metals (ICPMS) by Method 6020 | 23 |
| Gl: Glossary of Terms | 24 |
| Al: Accreditations & Locations | 25 |
| Sc: Sample Chain of Custody | 26 |

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

SAMPLE SUMMARY

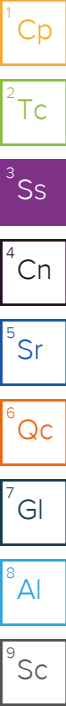
221025-FED_1-30-BG01@7.5'-10' L1551283-01 Solid

Collected by
A. Smith

Collected date/time
10/25/22 09:10

Received date/time
10/27/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1953791 | 1 | 11/04/22 15:32 | 11/04/22 15:32 | KMG | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1952779 | 1 | 11/02/22 17:53 | 11/03/22 09:33 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1953399 | 1 | 11/04/22 06:16 | 11/04/22 08:16 | NTG | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1951039 | 1 | 10/29/22 07:50 | 10/29/22 10:10 | NTG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1950971 | 1 | 11/06/22 18:46 | 11/08/22 04:16 | CCE | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1950671 | 1 | 11/02/22 14:54 | 11/08/22 12:59 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1950975 | 5 | 11/06/22 18:58 | 11/07/22 18:29 | LD | Mt. Juliet, TN |



221025-FED_1-30-BG01@12.5'-15' L1551283-02 Solid

Collected by
A. Smith

Collected date/time
10/25/22 09:25

Received date/time
10/27/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1953791 | 1 | 11/04/22 15:35 | 11/04/22 15:35 | KMG | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1952779 | 1 | 11/02/22 17:53 | 11/03/22 09:38 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1953399 | 1 | 11/04/22 06:16 | 11/04/22 08:16 | NTG | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1952173 | 1 | 11/01/22 09:57 | 11/01/22 13:00 | NTG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1950971 | 1 | 11/06/22 18:46 | 11/08/22 04:19 | CCE | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1950671 | 1 | 11/02/22 14:54 | 11/08/22 13:02 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1950975 | 5 | 11/06/22 18:58 | 11/07/22 18:33 | LD | Mt. Juliet, TN |

221025-FED_1-30-BG02@12.5'-15' L1551283-03 Solid

Collected by
A. Smith

Collected date/time
10/25/22 09:45

Received date/time
10/27/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1953791 | 1 | 11/04/22 15:37 | 11/04/22 15:37 | KMG | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1952779 | 1 | 11/02/22 17:53 | 11/03/22 09:43 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1953399 | 1 | 11/04/22 06:16 | 11/04/22 08:16 | NTG | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1957628 | 1 | 11/10/22 16:54 | 11/11/22 07:23 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1950971 | 1 | 11/06/22 18:46 | 11/08/22 04:22 | CCE | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1950671 | 1 | 11/02/22 14:54 | 11/08/22 13:05 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1950975 | 5 | 11/06/22 18:58 | 11/07/22 18:36 | LD | Mt. Juliet, TN |

221025-FED_1-30-BG02@17.5'-20' L1551283-04 Solid

Collected by
A. Smith

Collected date/time
10/25/22 09:50

Received date/time
10/27/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1953791 | 1 | 11/04/22 15:40 | 11/04/22 15:40 | KMG | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1952779 | 1 | 11/02/22 17:53 | 11/03/22 10:04 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1953399 | 1 | 11/04/22 06:16 | 11/04/22 08:16 | NTG | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1951039 | 1 | 10/29/22 07:50 | 10/29/22 10:10 | NTG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1950971 | 1 | 11/06/22 18:46 | 11/08/22 04:30 | CCE | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1950671 | 1 | 11/02/22 14:54 | 11/08/22 13:08 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1950975 | 5 | 11/06/22 18:58 | 11/07/22 18:45 | LD | Mt. Juliet, TN |

221025-FED_1-30-BG03@12.5'-15' L1551283-05 Solid

Collected by
A. Smith

Collected date/time
10/25/22 10:10

Received date/time
10/27/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|----------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1953791 | 1 | 11/04/22 15:43 | 11/04/22 15:43 | KMG | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1952779 | 1 | 11/02/22 17:53 | 11/03/22 10:30 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1953399 | 1 | 11/04/22 06:16 | 11/04/22 08:16 | NTG | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1952173 | 1 | 11/01/22 09:57 | 11/01/22 13:00 | NTG | Mt. Juliet, TN |

SAMPLE SUMMARY

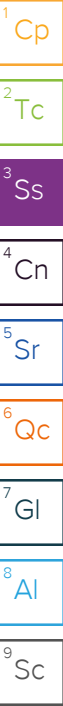
221025-FED_1-30-BG03@12.5'-15' L1551283-05 Solid

Collected by
A. Smith

Collected date/time
10/25/22 10:10

Received date/time
10/27/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Metals (ICP) by Method 6010B | WG1950971 | 1 | 11/06/22 18:46 | 11/08/22 04:33 | CCE | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1950671 | 1 | 11/02/22 14:54 | 11/08/22 13:11 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1950975 | 5 | 11/06/22 18:58 | 11/07/22 18:49 | LD | Mt. Juliet, TN |



221025-FED_1-30-BG03@17.5'-20' L1551283-06 Solid

Collected by
A. Smith

Collected date/time
10/25/22 10:15

Received date/time
10/27/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1953791 | 1 | 11/04/22 15:46 | 11/04/22 15:46 | KMG | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1952779 | 1 | 11/02/22 17:53 | 11/03/22 10:35 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1953399 | 1 | 11/04/22 06:16 | 11/04/22 08:16 | NTG | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1952173 | 1 | 11/01/22 09:57 | 11/01/22 13:00 | NTG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1950971 | 1 | 11/06/22 18:46 | 11/08/22 04:36 | CCE | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1950671 | 1 | 11/02/22 14:54 | 11/08/22 13:14 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1950975 | 5 | 11/06/22 18:58 | 11/07/22 18:52 | LD | Mt. Juliet, TN |

221025-FED_1-30-BG04@7.5'-10' L1551283-07 Solid

Collected by
A. Smith

Collected date/time
10/25/22 10:45

Received date/time
10/27/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1953791 | 1 | 11/04/22 15:49 | 11/04/22 15:49 | KMG | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1952780 | 1 | 11/02/22 21:04 | 11/03/22 11:36 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1953399 | 1 | 11/04/22 06:16 | 11/04/22 08:16 | NTG | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1952173 | 1 | 11/01/22 09:57 | 11/01/22 13:00 | NTG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1950971 | 1 | 11/06/22 18:46 | 11/08/22 04:39 | CCE | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1950671 | 1 | 11/02/22 14:54 | 11/08/22 13:17 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1950975 | 5 | 11/06/22 18:58 | 11/07/22 18:55 | LD | Mt. Juliet, TN |

221025-FED_1-30-BG04@12.5'-15' L1551283-08 Solid

Collected by
A. Smith

Collected date/time
10/25/22 10:50

Received date/time
10/27/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1953791 | 1 | 11/04/22 14:20 | 11/04/22 14:20 | KMG | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1952780 | 1 | 11/02/22 21:04 | 11/03/22 11:41 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1953399 | 1 | 11/04/22 06:16 | 11/04/22 08:16 | NTG | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1951039 | 1 | 10/29/22 07:50 | 10/29/22 10:10 | NTG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1950971 | 1 | 11/06/22 18:46 | 11/08/22 04:42 | CCE | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1950671 | 1 | 11/02/22 14:54 | 11/08/22 13:20 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1950975 | 5 | 11/06/22 18:58 | 11/07/22 18:58 | LD | Mt. Juliet, TN |

221025-FED_1-30-BG04@17.5'-20' L1551283-09 Solid

Collected by
A. Smith

Collected date/time
10/25/22 10:55

Received date/time
10/27/22 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Calculated Results | WG1953886 | 1 | 11/04/22 22:25 | 11/04/22 22:25 | ZSA | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG1952780 | 1 | 11/02/22 21:04 | 11/03/22 11:46 | ARD | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG1953399 | 1 | 11/04/22 06:16 | 11/04/22 08:16 | NTG | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG1952173 | 1 | 11/01/22 09:57 | 11/01/22 13:00 | NTG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1950971 | 1 | 11/06/22 18:46 | 11/08/22 04:45 | CCE | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG1950671 | 1 | 11/02/22 14:54 | 11/08/22 13:29 | ZSA | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020 | WG1950975 | 5 | 11/06/22 18:58 | 11/07/22 19:01 | LD | 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



Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 10.0 | | 1 | 11/04/2022 15:32 | WG1953791 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | 0.594 | J | 0.255 | 1.00 | 1 | 11/03/2022 09:33 | WG1952779 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|-----------|----------|----------------------|---------------------------|
| pH | 7.79 | T8 | 1 | 11/04/2022 08:16 | WG1953399 |

Sample Narrative:

L1551283-01 WG1953399: 7.79 at 20.7C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 4380 | | 10.0 | 1 | 10/29/2022 10:10 | WG1951039 |

Sample Narrative:

L1551283-01 WG1951039: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 21.7 | | 0.0852 | 0.500 | 1 | 11/08/2022 04:16 | WG1950971 |
| Cadmium | 0.145 | J | 0.0471 | 0.500 | 1 | 11/08/2022 04:16 | WG1950971 |
| Copper | 9.44 | | 0.400 | 2.00 | 1 | 11/08/2022 04:16 | WG1950971 |
| Lead | 6.39 | | 0.208 | 0.500 | 1 | 11/08/2022 04:16 | WG1950971 |
| Nickel | 5.64 | | 0.132 | 2.00 | 1 | 11/08/2022 04:16 | WG1950971 |
| Selenium | U | | 0.764 | 2.00 | 1 | 11/08/2022 04:16 | WG1950971 |
| Silver | U | | 0.127 | 1.00 | 1 | 11/08/2022 04:16 | WG1950971 |
| Zinc | 23.1 | | 0.832 | 5.00 | 1 | 11/08/2022 04:16 | WG1950971 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 1.51 | | 0.0167 | 0.200 | 1 | 11/08/2022 12:59 | WG1950671 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 1.17 | | 0.100 | 1.00 | 5 | 11/07/2022 18:29 | WG1950975 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 9.14 | | 1 | 11/04/2022 15:35 | WG1953791 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | 0.308 | J | 0.255 | 1.00 | 1 | 11/03/2022 09:38 | WG1952779 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|-----------|----------|----------------------|---------------------------|
| pH | 7.45 | T8 | 1 | 11/04/2022 08:16 | WG1953399 |

Sample Narrative:

L1551283-02 WG1953399: 7.45 at 20.7C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 6370 | | 10.0 | 1 | 11/01/2022 13:00 | WG1952173 |

Sample Narrative:

L1551283-02 WG1952173: at 25C

Metals (ICP) by Method 6010B

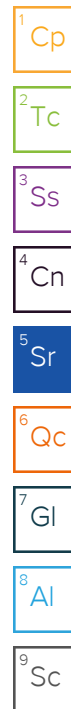
| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 91.0 | | 0.0852 | 0.500 | 1 | 11/08/2022 04:19 | WG1950971 |
| Cadmium | 1.46 | | 0.0471 | 0.500 | 1 | 11/08/2022 04:19 | WG1950971 |
| Copper | 56.2 | | 0.400 | 2.00 | 1 | 11/08/2022 04:19 | WG1950971 |
| Lead | 30.3 | | 0.208 | 0.500 | 1 | 11/08/2022 04:19 | WG1950971 |
| Nickel | 42.3 | | 0.132 | 2.00 | 1 | 11/08/2022 04:19 | WG1950971 |
| Selenium | U | | 0.764 | 2.00 | 1 | 11/08/2022 04:19 | WG1950971 |
| Silver | U | | 0.127 | 1.00 | 1 | 11/08/2022 04:19 | WG1950971 |
| Zinc | 129 | | 0.832 | 5.00 | 1 | 11/08/2022 04:19 | WG1950971 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 3.18 | | 0.0167 | 0.200 | 1 | 11/08/2022 13:02 | WG1950671 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 25.4 | | 0.100 | 1.00 | 5 | 11/07/2022 18:33 | WG1950975 |



Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 17.9 | | 1 | 11/04/2022 15:37 | WG1953791 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | 0.384 | J | 0.255 | 1.00 | 1 | 11/03/2022 09:43 | WG1952779 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|-----------|----------|----------------------|---------------------------|
| pH | 8.04 | T8 | 1 | 11/04/2022 08:16 | WG1953399 |

Sample Narrative:

L1551283-03 WG1953399: 8.04 at 20.7C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 4580 | | 10.0 | 1 | 11/11/2022 07:23 | WG1957628 |

Sample Narrative:

L1551283-03 WG1957628: at 25C

Metals (ICP) by Method 6010B

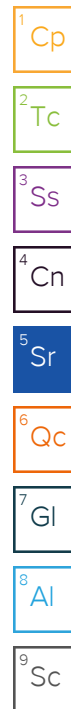
| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 135 | | 0.0852 | 0.500 | 1 | 11/08/2022 04:22 | WG1950971 |
| Cadmium | 0.612 | | 0.0471 | 0.500 | 1 | 11/08/2022 04:22 | WG1950971 |
| Copper | 42.9 | | 0.400 | 2.00 | 1 | 11/08/2022 04:22 | WG1950971 |
| Lead | 28.4 | | 0.208 | 0.500 | 1 | 11/08/2022 04:22 | WG1950971 |
| Nickel | 24.2 | | 0.132 | 2.00 | 1 | 11/08/2022 04:22 | WG1950971 |
| Selenium | U | | 0.764 | 2.00 | 1 | 11/08/2022 04:22 | WG1950971 |
| Silver | U | | 0.127 | 1.00 | 1 | 11/08/2022 04:22 | WG1950971 |
| Zinc | 96.1 | | 0.832 | 5.00 | 1 | 11/08/2022 04:22 | WG1950971 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.794 | | 0.0167 | 0.200 | 1 | 11/08/2022 13:05 | WG1950671 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 7.62 | | 0.100 | 1.00 | 5 | 11/07/2022 18:36 | WG1950975 |



Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 21.6 | | 1 | 11/04/2022 15:40 | WG1953791 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | 0.296 | J | 0.255 | 1.00 | 1 | 11/03/2022 10:04 | WG1952779 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|-----------|----------|----------------------|---------------------------|
| pH | 8.32 | T8 | 1 | 11/04/2022 08:16 | WG1953399 |

Sample Narrative:

L1551283-04 WG1953399: 8.32 at 20.8C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 3350 | | 10.0 | 1 | 10/29/2022 10:10 | WG1951039 |

Sample Narrative:

L1551283-04 WG1951039: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 70.6 | | 0.0852 | 0.500 | 1 | 11/08/2022 04:30 | WG1950971 |
| Cadmium | 0.315 | J | 0.0471 | 0.500 | 1 | 11/08/2022 04:30 | WG1950971 |
| Copper | 23.7 | | 0.400 | 2.00 | 1 | 11/08/2022 04:30 | WG1950971 |
| Lead | 20.7 | | 0.208 | 0.500 | 1 | 11/08/2022 04:30 | WG1950971 |
| Nickel | 12.8 | | 0.132 | 2.00 | 1 | 11/08/2022 04:30 | WG1950971 |
| Selenium | U | | 0.764 | 2.00 | 1 | 11/08/2022 04:30 | WG1950971 |
| Silver | U | | 0.127 | 1.00 | 1 | 11/08/2022 04:30 | WG1950971 |
| Zinc | 55.1 | | 0.832 | 5.00 | 1 | 11/08/2022 04:30 | WG1950971 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.564 | | 0.0167 | 0.200 | 1 | 11/08/2022 13:08 | WG1950671 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 2.95 | | 0.100 | 1.00 | 5 | 11/07/2022 18:45 | WG1950975 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 45.4 | | 1 | 11/04/2022 15:43 | WG1953791 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | 0.281 | J | 0.255 | 1.00 | 1 | 11/03/2022 10:30 | WG1952779 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|-----------|----------|----------------------|---------------------------|
| pH | 8.26 | T8 | 1 | 11/04/2022 08:16 | WG1953399 |

Sample Narrative:

L1551283-05 WG1953399: 8.26 at 20.8C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 3250 | | 10.0 | 1 | 11/01/2022 13:00 | WG1952173 |

Sample Narrative:

L1551283-05 WG1952173: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 86.1 | | 0.0852 | 0.500 | 1 | 11/08/2022 04:33 | WG1950971 |
| Cadmium | 0.474 | J | 0.0471 | 0.500 | 1 | 11/08/2022 04:33 | WG1950971 |
| Copper | 31.2 | | 0.400 | 2.00 | 1 | 11/08/2022 04:33 | WG1950971 |
| Lead | 20.1 | | 0.208 | 0.500 | 1 | 11/08/2022 04:33 | WG1950971 |
| Nickel | 19.0 | | 0.132 | 2.00 | 1 | 11/08/2022 04:33 | WG1950971 |
| Selenium | U | | 0.764 | 2.00 | 1 | 11/08/2022 04:33 | WG1950971 |
| Silver | U | | 0.127 | 1.00 | 1 | 11/08/2022 04:33 | WG1950971 |
| Zinc | 71.7 | | 0.832 | 5.00 | 1 | 11/08/2022 04:33 | WG1950971 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.609 | | 0.0167 | 0.200 | 1 | 11/08/2022 13:11 | WG1950671 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 6.36 | | 0.100 | 1.00 | 5 | 11/07/2022 18:49 | WG1950975 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 117 | | 1 | 11/04/2022 15:46 | WG1953791 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | 0.327 | J | 0.255 | 1.00 | 1 | 11/03/2022 10:35 | WG1952779 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|-----------|----------|----------------------|---------------------------|
| pH | 9.58 | T8 | 1 | 11/04/2022 08:16 | WG1953399 |

Sample Narrative:

L1551283-06 WG1953399: 9.58 at 20.6C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 3280 | | 10.0 | 1 | 11/01/2022 13:00 | WG1952173 |

Sample Narrative:

L1551283-06 WG1952173: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 220 | | 0.0852 | 0.500 | 1 | 11/08/2022 04:36 | WG1950971 |
| Cadmium | 0.617 | | 0.0471 | 0.500 | 1 | 11/08/2022 04:36 | WG1950971 |
| Copper | 51.7 | | 0.400 | 2.00 | 1 | 11/08/2022 04:36 | WG1950971 |
| Lead | 34.8 | | 0.208 | 0.500 | 1 | 11/08/2022 04:36 | WG1950971 |
| Nickel | 28.1 | | 0.132 | 2.00 | 1 | 11/08/2022 04:36 | WG1950971 |
| Selenium | U | | 0.764 | 2.00 | 1 | 11/08/2022 04:36 | WG1950971 |
| Silver | U | | 0.127 | 1.00 | 1 | 11/08/2022 04:36 | WG1950971 |
| Zinc | 111 | | 0.832 | 5.00 | 1 | 11/08/2022 04:36 | WG1950971 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 1.25 | | 0.0167 | 0.200 | 1 | 11/08/2022 13:14 | WG1950671 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 6.27 | | 0.100 | 1.00 | 5 | 11/07/2022 18:52 | WG1950975 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 24.9 | | 1 | 11/04/2022 15:49 | WG1953791 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | 0.431 | J | 0.255 | 1.00 | 1 | 11/03/2022 11:36 | WG1952780 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|-----------|----------|----------------------|---------------------------|
| pH | 9.81 | T8 | 1 | 11/04/2022 08:16 | WG1953399 |

Sample Narrative:

L1551283-07 WG1953399: 9.81 at 20.6C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 2300 | | 10.0 | 1 | 11/01/2022 13:00 | WG1952173 |

Sample Narrative:

L1551283-07 WG1952173: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 88.0 | | 0.0852 | 0.500 | 1 | 11/08/2022 04:39 | WG1950971 |
| Cadmium | 0.731 | | 0.0471 | 0.500 | 1 | 11/08/2022 04:39 | WG1950971 |
| Copper | 18.0 | | 0.400 | 2.00 | 1 | 11/08/2022 04:39 | WG1950971 |
| Lead | 18.7 | | 0.208 | 0.500 | 1 | 11/08/2022 04:39 | WG1950971 |
| Nickel | 12.8 | | 0.132 | 2.00 | 1 | 11/08/2022 04:39 | WG1950971 |
| Selenium | 2.73 | | 0.764 | 2.00 | 1 | 11/08/2022 04:39 | WG1950971 |
| Silver | U | | 0.127 | 1.00 | 1 | 11/08/2022 04:39 | WG1950971 |
| Zinc | 54.2 | | 0.832 | 5.00 | 1 | 11/08/2022 04:39 | WG1950971 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 1.70 | | 0.0167 | 0.200 | 1 | 11/08/2022 13:17 | WG1950671 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 11.0 | | 0.100 | 1.00 | 5 | 11/07/2022 18:55 | WG1950975 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 13.5 | | 1 | 11/04/2022 14:20 | WG1953791 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | U | | 0.255 | 1.00 | 1 | 11/03/2022 11:41 | WG1952780 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|--------------------|----------|----------------------|---------------------------|
| pH | 9.69 | T8 | 1 | 11/04/2022 08:16 | WG1953399 |

Sample Narrative:

L1551283-08 WG1953399: 9.69 at 20.7C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 1260 | | 10.0 | 1 | 10/29/2022 10:10 | WG1951039 |

Sample Narrative:

L1551283-08 WG1951039: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 81.8 | | 0.0852 | 0.500 | 1 | 11/08/2022 04:42 | WG1950971 |
| Cadmium | 0.657 | | 0.0471 | 0.500 | 1 | 11/08/2022 04:42 | WG1950971 |
| Copper | 20.9 | | 0.400 | 2.00 | 1 | 11/08/2022 04:42 | WG1950971 |
| Lead | 17.9 | | 0.208 | 0.500 | 1 | 11/08/2022 04:42 | WG1950971 |
| Nickel | 16.3 | | 0.132 | 2.00 | 1 | 11/08/2022 04:42 | WG1950971 |
| Selenium | U | | 0.764 | 2.00 | 1 | 11/08/2022 04:42 | WG1950971 |
| Silver | U | | 0.127 | 1.00 | 1 | 11/08/2022 04:42 | WG1950971 |
| Zinc | 60.2 | | 0.832 | 5.00 | 1 | 11/08/2022 04:42 | WG1950971 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.908 | | 0.0167 | 0.200 | 1 | 11/08/2022 13:20 | WG1950671 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 5.47 | | 0.100 | 1.00 | 5 | 11/07/2022 18:58 | WG1950975 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|-----------|
| Sodium Adsorption Ratio | 4.56 | | 1 | 11/04/2022 22:25 | WG1953886 |

Wet Chemistry by Method 7199

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Hexavalent Chromium | U | | 0.255 | 1.00 | 1 | 11/03/2022 11:46 | WG1952780 |

Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---------|-----------|--------------------|----------|----------------------|---------------------------|
| pH | 9.77 | T8 | 1 | 11/04/2022 08:16 | WG1953399 |

Sample Narrative:

L1551283-09 WG1953399: 9.77 at 20.7C

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | RDL umhos/cm | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|--------------|----------|----------------------|---------------------------|
| Specific Conductance | 1040 | | 10.0 | 1 | 11/01/2022 13:00 | WG1952173 |

Sample Narrative:

L1551283-09 WG1952173: at 25C

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Barium | 87.5 | | 0.0852 | 0.500 | 1 | 11/08/2022 04:45 | WG1950971 |
| Cadmium | 0.568 | | 0.0471 | 0.500 | 1 | 11/08/2022 04:45 | WG1950971 |
| Copper | 35.9 | | 0.400 | 2.00 | 1 | 11/08/2022 04:45 | WG1950971 |
| Lead | 23.4 | | 0.208 | 0.500 | 1 | 11/08/2022 04:45 | WG1950971 |
| Nickel | 23.1 | | 0.132 | 2.00 | 1 | 11/08/2022 04:45 | WG1950971 |
| Selenium | U | | 0.764 | 2.00 | 1 | 11/08/2022 04:45 | WG1950971 |
| Silver | U | | 0.127 | 1.00 | 1 | 11/08/2022 04:45 | WG1950971 |
| Zinc | 84.1 | | 0.832 | 5.00 | 1 | 11/08/2022 04:45 | WG1950971 |

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

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|----------------------|-------------|-----------|----------|----------|----------|----------------------|---------------------------|
| Hot Water Sol. Boron | 0.925 | | 0.0167 | 0.200 | 1 | 11/08/2022 13:29 | WG1950671 |

Metals (ICPMS) by Method 6020

| Analyte | Result mg/kg | Qualifier | MDL mg/kg | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Arsenic | 6.55 | | 0.100 | 1.00 | 5 | 11/07/2022 19:01 | WG1950975 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3857722-1 11/03/22 07:23

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

L1551008-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1551008-07 11/03/22 07:57 • (DUP) R3857722-3 11/03/22 08:02

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

L1551283-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1551283-03 11/03/22 09:43 • (DUP) R3857722-4 11/03/22 09:59

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------------------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/kg | mg/kg | | % | | % |
| Hexavalent Chromium | 0.384 | 0.316 | 1 | 19.4 | ⬇ | 20 |

Laboratory Control Sample (LCS)

(LCS) R3857722-2 11/03/22 07:31

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------------------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/kg | mg/kg | % | % | |
| Hexavalent Chromium | 10.0 | 9.99 | 99.9 | 80.0-120 | |

L1551283-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1551283-04 11/03/22 10:04 • (MS) R3857722-6 11/03/22 10:14 • (MSD) R3857722-7 11/03/22 10:19

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Hexavalent Chromium | 20.0 | 0.296 | 20.2 | 19.4 | 99.4 | 95.6 | 1 | 75.0-125 | | | 3.77 | 20 |

L1551283-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1551283-04 11/03/22 10:04 • (MS) R3857722-8 11/03/22 10:25

| | Spike Amount | Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier |
|---------------------|--------------|-----------------|-----------|---------|----------|-------------|--------------|
| Analyte | mg/kg | mg/kg | mg/kg | % | | % | |
| Hexavalent Chromium | 641 | 0.296 | 728 | 114 | 50 | 75.0-125 | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3857934-1 11/03/22 11:23

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

L1551444-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1551444-05 11/03/22 12:12 • (DUP) R3857934-3 11/03/22 12:28

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------------------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/kg | mg/kg | | % | | % |
| Hexavalent Chromium | 1.63 | 1.69 | 1 | 3.75 | | 20 |

L1551444-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1551444-12 11/03/22 13:35 • (DUP) R3857934-8 11/03/22 13:40

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------------------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/kg | mg/kg | | % | | % |
| Hexavalent Chromium | 1.47 | 1.19 | 1 | 20.8 | P1 | 20 |

Laboratory Control Sample (LCS)

(LCS) R3857934-2 11/03/22 11:31

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------------------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/kg | mg/kg | % | % | |
| Hexavalent Chromium | 10.0 | 10.5 | 105 | 80.0-120 | |

L1551444-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1551444-10 11/03/22 12:54 • (MS) R3857934-4 11/03/22 12:59 • (MSD) R3857934-5 11/03/22 13:04

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Hexavalent Chromium | 20.0 | 1.68 | 20.4 | 21.0 | 93.5 | 96.8 | 1 | 75.0-125 | | | 3.23 | 20 |

L1551444-10 Original Sample (OS) • Matrix Spike (MS)

(OS) L1551444-10 11/03/22 12:54 • (MS) R3857934-7 11/03/22 13:14

| | Spike Amount | Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier |
|---------------------|--------------|-----------------|-----------|---------|----------|-------------|--------------|
| Analyte | mg/kg | mg/kg | mg/kg | % | | % | |
| Hexavalent Chromium | 638 | 1.68 | 663 | 104 | 50 | 75.0-125 | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1551283-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1551283-03 11/04/22 08:16 • (DUP) R3856891-2 11/04/22 08:16

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | su | su | | % | | % |
| pH | 8.04 | 8.08 | 1 | 0.496 | | 1 |

Sample Narrative:

OS: 8.04 at 20.7C

DUP: 8.08 at 20.8C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1552416-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1552416-08 11/04/22 08:16 • (DUP) R3856891-3 11/04/22 08:16

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | su | su | | % | | % |
| pH | 8.03 | 8.02 | 1 | 0.125 | | 1 |

Sample Narrative:

OS: 8.03 at 20.8C

DUP: 8.02 at 20.8C

Laboratory Control Sample (LCS)

(LCS) R3856891-1 11/04/22 08:16

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | <u>LCS Qualifier</u> |
|---------|--------------|------------|----------|-------------|----------------------|
| Analyte | su | su | % | % | |
| pH | 10.0 | 9.91 | 99.1 | 99.0-101 | |

Sample Narrative:

LCS: 9.91 at 21.2C

Method Blank (MB)

(MB) R3854533-1 10/29/22 10:10

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

Sample Narrative:

BLANK: at 25C

L1551267-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1551267-08 10/29/22 10:10 • (DUP) R3854533-3 10/29/22 10:10

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|----------------------|-----------------------------|------------------------|----------|--------------|---------------|------------------------|
| Specific Conductance | 245 | 244 | 1 | 0.573 | | 20 |

Sample Narrative:

OS: at 25C

DUP: at 25C

L1551283-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1551283-04 10/29/22 10:10 • (DUP) R3854533-4 10/29/22 10:10

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|----------------------|-----------------------------|------------------------|----------|--------------|---------------|------------------------|
| Specific Conductance | 3350 | 3300 | 1 | 1.50 | | 20 |

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3854533-2 10/29/22 10:10

| Analyte | Spike Amount umhos/cm | LCS Result umhos/cm | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------------|--------------------------|------------------------|---------------|------------------|---------------|
| Specific Conductance | 1120 | 1140 | 102 | 85.0-115 | |

Sample Narrative:

LCS: at 25C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3855470-1 11/01/22 13:00

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

Sample Narrative:

BLANK: at 25C

L1551267-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1551267-07 11/01/22 13:00 • (DUP) R3855470-3 11/01/22 13:00

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|----------------------|-----------------------------|------------------------|----------|--------------|---------------|------------------------|
| Specific Conductance | 2820 | 2800 | 1 | 0.890 | | 20 |

Sample Narrative:

OS: at 25C

DUP: at 25C

L1551816-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1551816-02 11/01/22 13:00 • (DUP) R3855470-4 11/01/22 13:00

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|----------------------|-----------------------------|------------------------|----------|--------------|---------------|------------------------|
| Specific Conductance | 139 | 138 | 1 | 0.796 | | 20 |

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3855470-2 11/01/22 13:00

| Analyte | Spike Amount umhos/cm | LCS Result umhos/cm | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------------|--------------------------|------------------------|---------------|------------------|---------------|
| Specific Conductance | 1120 | 1110 | 98.7 | 85.0-115 | |

Sample Narrative:

LCS: at 25C

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3859776-1 11/11/22 07:23

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

Sample Narrative:

BLANK: at 25C

L1550229-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1550229-01 11/11/22 07:23 • (DUP) R3859776-3 11/11/22 07:23

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|----------------------|-----------------------------|------------------------|----------|--------------|---------------|------------------------|
| Specific Conductance | 261 | 258 | 1 | 1.23 | | 20 |

Sample Narrative:

OS: at 25C

DUP: at 25C

L1553463-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1553463-04 11/11/22 07:23 • (DUP) R3859776-4 11/11/22 07:23

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|----------------------|-----------------------------|------------------------|----------|--------------|---------------|------------------------|
| Specific Conductance | 179 | 188 | 1 | 4.58 | | 20 |

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3859776-2 11/11/22 07:23

| Analyte | Spike Amount umhos/cm | LCS Result umhos/cm | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------------|--------------------------|------------------------|---------------|------------------|---------------|
| Specific Conductance | 1120 | 1130 | 100 | 85.0-115 | |

Sample Narrative:

LCS: at 25C

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3858101-1 11/08/22 03:20

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|----------|--------------------|--------------|-----------------|-----------------|
| Barium | U | | 0.0852 | 0.500 |
| Cadmium | U | | 0.0471 | 0.500 |
| Copper | U | | 0.400 | 2.00 |
| Lead | U | | 0.208 | 0.500 |
| Nickel | U | | 0.132 | 2.00 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |
| Zinc | U | | 0.832 | 5.00 |

Laboratory Control Sample (LCS)

(LCS) R3858101-2 11/08/22 03:23

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------|-----------------------|---------------------|---------------|------------------|---------------|
| Barium | 100 | 106 | 106 | 80.0-120 | |
| Cadmium | 100 | 101 | 101 | 80.0-120 | |
| Copper | 100 | 103 | 103 | 80.0-120 | |
| Lead | 100 | 99.6 | 99.6 | 80.0-120 | |
| Nickel | 100 | 100 | 100 | 80.0-120 | |
| Selenium | 100 | 102 | 102 | 80.0-120 | |
| Silver | 20.0 | 19.1 | 95.4 | 80.0-120 | |
| Zinc | 100 | 101 | 101 | 80.0-120 | |

L1550304-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1550304-01 11/08/22 03:26 • (MS) R3858101-5 11/08/22 03:34 • (MSD) R3858101-6 11/08/22 03:37

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|----------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Barium | 100 | 131 | 229 | 229 | 97.5 | 97.9 | 1 | 75.0-125 | | | 0.192 | 20 |
| Cadmium | 100 | 0.141 | 105 | 101 | 105 | 100 | 1 | 75.0-125 | | | 4.33 | 20 |
| Copper | 100 | 8.73 | 116 | 113 | 107 | 104 | 1 | 75.0-125 | | | 3.02 | 20 |
| Lead | 100 | 13.1 | 118 | 115 | 105 | 102 | 1 | 75.0-125 | | | 2.89 | 20 |
| Nickel | 100 | 19.2 | 124 | 121 | 105 | 101 | 1 | 75.0-125 | | | 2.95 | 20 |
| Selenium | 100 | U | 104 | 100 | 104 | 100 | 1 | 75.0-125 | | | 3.44 | 20 |
| Silver | 20.0 | U | 19.3 | 18.7 | 96.4 | 93.6 | 1 | 75.0-125 | | | 3.01 | 20 |
| Zinc | 100 | 49.1 | 149 | 141 | 99.9 | 92.3 | 1 | 75.0-125 | | | 5.25 | 20 |



Method Blank (MB)

(MB) R3858463-1 11/08/22 12:18

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

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

(LCS) R3858463-2 11/08/22 12:21 • (LCSD) R3858463-3 11/08/22 12:24

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCSD Result mg/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|----------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Hot Water Sol. Boron | 1.00 | 1.02 | 1.04 | 102 | 104 | 80.0-120 | | | 1.52 | 20 |

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3858049-1 11/07/22 17:27

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---------|--------------------|--------------|-----------------|-----------------|
| Arsenic | U | | 0.100 | 1.00 |

Laboratory Control Sample (LCS)

(LCS) R3858049-2 11/07/22 17:31

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---------|-----------------------|---------------------|---------------|------------------|---------------|
| Arsenic | 100 | 98.9 | 98.9 | 80.0-120 | |

L1550304-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1550304-01 11/07/22 17:34 • (MS) R3858049-5 11/07/22 17:43 • (MSD) R3858049-6 11/07/22 17:46

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Arsenic | 100 | 5.19 | 98.9 | 94.5 | 93.7 | 89.3 | 5 | 75.0-125 | | | 4.53 | 20 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier Description

| | |
|----|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| P1 | RPD value not applicable for sample concentrations less than 5 times the reporting limit. |
| T8 | Sample(s) received past/too close to holding time expiration. |

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



| Container Preservative Type ** | | | | | | | | | | Lab Project Manager: | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____ | | | | | | | | | | | | | | | | | | | |
| Analyses | | | | | | | | | | Lab Profile/Line: | | | | | | | | | |
| EC, SAR, pH Table 915-1 Metals Boron - Hot Water Soluble CR6IC | | | | | | | | | | Lab Sample Receipt Checklist: Custody Seals Present/Intact: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N NA Custody Signatures Present: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N NA Collector Signature Present: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N NA Bottles Intact: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N NA Correct Bottles: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N NA Sufficient Volume: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N NA Samples Received on Ice: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N NA VOA - Headspace Acceptable: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N NA USDA Regulated Soils: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N NA Samples in Holding Time: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N NA Residual Chlorine Present: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N NA Cl Strips: _____ Sample pH Acceptable: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N NA pH Strips: _____ Sulfide Present: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N NA Lead Acetate Strips: _____ | | | | | | | | | |
| | | | | | | | | | | LAB USE ONLY: | | | | | | | | | |
| | | | | | | | | | | Lab Sample # / Comments: | | | | | | | | | |
| | | | | | | | | | | 15551283 -01 -02 -03 -04 -05 -06 -07 -08 -09 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| SHORT HOLDS PRESENT (<72 hours): Y N N/A | | | | | | | | | | LAB Sample Temperature Info: | | | | | | | | | |
| Lab Tracking #: 5016 1232 1717 | | | | | | | | | | Temp Blank Received: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N NA | | | | | | | | | |
| Samples received via: FEDEX UPS Client Courier Pace Courier | | | | | | | | | | Therm ID#: GBA7 1.910 = 1.0 | | | | | | | | | |
| | | | | | | | | | | Cooler 1 Temp Upon Receipt: ____ °C | | | | | | | | | |
| | | | | | | | | | | Cooler 1 Therm Corr. Factor: ____ °C | | | | | | | | | |
| | | | | | | | | | | Cooler 1 Corrected Temp: ____ °C | | | | | | | | | |
| | | | | | | | | | | Comments: | | | | | | | | | |
| Date/Time: | | | | | | | | | | MTIL LAB USE ONLY | | | | | | | | | |
| Date/Time: | | | | | | | | | | G200 | | | | | | | | | |
| Date/Time: | | | | | | | | | | Template: Prelogin: | | | | | | | | | |
| Date/Time: | | | | | | | | | | Trip Blank Received: Y N NA | | | | | | | | | |
| | | | | | | | | | | HCL MeOH TSP Other | | | | | | | | | |
| Date/Time: | | | | | | | | | | Non Conformance(s): | | | | | | | | | |
| | | | | | | | | | | Page: ____ | | | | | | | | | |
| | | | | | | | | | | YES / NO | | | | | | | | | |
| | | | | | | | | | | of: ____ | | | | | | | | | |