



Illinois Power Resources Generating, LLC
1500 Eastport Plaza Dr.
Collinsville, IL 62234

January 30, 2024

Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Re: Duck Creek Ash Pond No. 1 and No. 2 (IEPA ID: W0578010001-01, 02) 2023 Annual Consolidated Report

Dear Mr. LeCrone:

In accordance with 35 IAC § 845.550, Illinois Power Resources Generating, LLC (IPRG) is submitting the annual consolidated report for the Duck Creek Ash Pond No. 1 and No.2 (IEPA ID: W0578010001-01, 02), as enclosed.

Sincerely,

A handwritten signature in blue ink that reads "Dianna Tickner".

Dianna Tickner
Sr. Director Decommissioning & Demolition

Enclosures

Annual Consolidated Report
Illinois Power Resources Generating, LLC
Duck Creek Power Plant
Ash Pond No. 1 and No. 2; IEPA ID: **W0578010001-01, 02**

In accordance with 35 IAC § 845.550, Illinois Power Resources Generating, LLC (IPRG) has prepared the annual consolidated report. The report is provided in two sections as follows:

Section 1

- 1) Annual CCR fugitive dust control report (Section 845.500(c))

Section 2

- 2) Annual inspection report (Section 845.540(b)), including:

- A) Annual hazard potential classification certification
- B) Annual structural stability assessment certification
- C) Annual safety factor assessment certification
- D) Inflow design flood control system plan certification

Section 3

- 3) Annual Groundwater Monitoring and Corrective Action Report (Section 845.610(e))

Section 1
Annual CCR Fugitive Dust Control Report

Annual CCR Fugitive Dust Control Report

for

Duck Creek Power Plant

Prepared for:



Illinois Power Resources Generating, LLC

**Duck Creek Power Plant
17751 North Cilco Road
Canton, IL 61520**

December 2023

Duck Creek Power Plant
ANNUAL CCR FUGITIVE DUST CONTROL REPORT

Reporting Year: 4th Quarter 2022 through 3rd Quarter 2023

Approved by: Shannon Tidwell

Sr. Director, Decommissioning & Demolition

Name

Title

This Annual CCR Fugitive Dust Control Report has been prepared for the Duck Creek Power Plant in accordance with 40 CFR 257.80(c) and 35 I.A.C. 845.500. Section 1 provides a description of the actions taken to control CCR fugitive dust at the facility during the reporting year, including a summary of any corrective measures taken. Section 2 provides a record of citizen complaints received concerning CCR fugitive dust at the facility during the reporting year, including a summary of any corrective measures taken.

Section 1 Actions Taken to Control CCR Fugitive Dust

In accordance with the Duck Creek Power Plant CCR Fugitive Dust Control Plan (Plan), the following measures were used to control CCR fugitive dust from becoming airborne at the facility during the reporting year:

CCR Activity	Actions Taken to Control CCR Fugitive Dust
Management of CCR in the facility's CCR units	CCR to be emplaced in the landfill is conditioned before emplacement.
	Cover exposed dry CCR in the landfill.
	Wet management of CCR bottom ash and flue gas desulfurization materials in CCR surface impoundments.
	Water areas of exposed CCR in CCR units, as necessary.
	Naturally occurring grass vegetation in areas of exposed CCR in CCR surface impoundments.
	Apply chemical dust suppressant on areas of exposed CCR in CCR units, as necessary.
Handling of CCR at the facility	Wet sluice CCR bottom ash and flue gas desulfurization materials to CCR surface impoundments.
	CCR bottom ash removed from CCR surface impoundments and loaded into trucks for transport remains conditioned during handling.
	Pneumatically convey dry CCR fly ash to storage silos in an enclosed system.

Duck Creek Power Plant
ANNUAL CCR FUGITIVE DUST CONTROL REPORT

CCR Activity	Actions Taken to Control CCR Fugitive Dust
Handling of CCR at the facility	CCR to be emplaced in the landfill is conditioned before emplacement.
	Load CCR transport trucks from the CCR fly ash silos in a partially enclosed area.
	Load CCR transport trucks from the CCR fly ash silos using a telescoping chute.
	Maintain and operate the bin vent filters on each CCR fly ash silo as needed during fly ash loadout.
	Perform housekeeping, as necessary, in the fly ash loading area.
	Operate fly ash handling system in accordance with good operating practices.
	Maintain and repair as necessary dust controls on the fly ash handling system.
Transportation of CCR at the facility	CCR from the CCR fly ash silos to be emplaced in the landfill is conditioned before emplacement.
	Cover or enclose trucks used to transport CCR fly ash.
	Limit the speed of vehicles to no more than 15 mph on facility roads.
	Cover or enclose trucks used to transport CCR other than fly ash, as necessary.
	Sweep or rinse off the outside of the trucks transporting CCR, as necessary.
	Remove CCR, as necessary, deposited on facility road surfaces during transport.

Based on a review of the Plan and inspections associated with CCR fugitive dust control performed in the reporting year, the control measures identified in the Plan as implemented at the facility effectively minimized CCR from becoming airborne at the facility. No revisions or additions to control measures identified in the Plan were needed.

The Illinois Environmental Protection Agency rule 35 IAC 212.314 does not require fugitive dust controls when the wind speed is greater than 25 mph.

No material changes occurred in the reporting year in site conditions potentially resulting in CCR fugitive dust becoming airborne at the facility that warrant an amendment of the Plan.

Duck Creek ceased operation in December of 2019. Not all the CCR activities that are listed in the table occurred after the plant was permanently shut down. For the activities that did occur, the actions taken to control CCR Fugitive Dust that are listed in the table were followed and were adequate to effectively minimize fugitive dust.

Duck Creek Power Plant
ANNUAL CCR FUGITIVE DUST CONTROL REPORT

Section 2 Record of Citizen Complaints

No citizen complaints were received regarding CCR fugitive dust at Duck Creek Power Plant in the reporting year.

Section 2

Annual inspection report (Section 845.540(b)), including:

- A) Annual hazard potential classification certification, if applicable (Section 845.440)
- B) Annual structural stability assessment certification, if applicable (Section 845.450)
- C) Annual safety factor assessment certification, if applicable (Section 845.460)
- D) Inflow design flood control system plan certification (Section 845.510(c))

ANNUAL INSPECTION BY A QUALIFIED PROFESSIONAL ENGINEER

35 IAC § 845.540

- (b)(1) The CCR surface impoundment must be inspected on an annual basis by a qualified professional engineer to ensure that the design, construction, operation, and maintenance of the CCR surface impoundment is consistent with recognized and generally accepted engineering standards. The inspection must, at a minimum, include:
- A) A review of available information regarding the status and condition of the CCR surface impoundment, including files available in the operating record (e.g., CCR surface impoundment design and construction information required by Sections 845.220(a)(1) and 845.230(d)(2)(A), previous structural stability assessments required under Section 845.450, the results of inspections by a qualified person, and results of previous annual inspections);
 - B) A visual inspection of the CCR surface impoundment to identify signs of distress or malfunction of the CCR surface impoundment and appurtenant structures;
 - C) A visual inspection of any hydraulic structures underlying the base of the CCR surface impoundment or passing through the dike of the CCR surface impoundment for structural integrity and continued safe and reliable operation;
 - D) The annual hazard potential classification certification, if applicable (see Section 845.440);
 - E) The annual structural stability assessment certification, if applicable (see Section 845.450);
 - F) The annual safety factor assessment certification, if applicable (see Section 845.460); and
 - G) The inflow design flood control system plan certification (see Section 845.510(c)).

SITE INFORMATION

Site Name / Address / Date of Inspection	Duck Creek Power Station Fulton County, Illinois 61520 10/4/2023
Operator Name / Address	Luminant Generation Company LLC 6555 Sierra Drive, Irving, TX 75039
CCR unit	Ash Pond No. 1

INSPECTION REPORT 35 IAC § 845.540

(b)(1)(D) The annual hazard potential classification certification, if applicable (see Section 845.440).	Based on a review of the CCR unit's annual hazard potential classification, the unit is classified as a Class II CCR surface impoundment.
(b)(2)(A) Any changes in geometry of the structure since the previous annual inspection.	Cap and closure of Ash Pond No. 1 completed.
(b)(2)(B) The location and type of existing instrumentation and the maximum recorded readings of each instrument since the previous annual inspection.	See the attached.
(b)(2)(C) The approximate minimum, maximum, and present depth and elevation of the impounded water and CCR since the previous annual inspection.	See the attached.
(b)(2)(D) The storage capacity of the impounding structure at the time of the inspection	Cap and closure of Ash Pond No. 1 completed.
(b)(2)(E) The approximate volume of the impounded water and CCR contained in the unit at the time of the inspection.	Approximately 2500 acre-feet of CCR material capped and closed.
(b)(2)(F) Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit	Based on a review of the CCR unit's records and visual observation during the on-site inspection, there was no appearance of an actual or potential structural weakness of the CCR unit, nor an existing condition that is disrupting or would disrupt the operation and safety of the unit.

INSPECTION REPORT 35 IAC § 845.540

(b)(2)(G) Any other changes that may have affected the stability or operation of the impounding structure since the previous annual inspection.	Based on a review of the CCR unit's records and visual observation during the on-site inspection, no other changes which may have affected the stability or operation of the CCR unit have taken place since the previous annual inspection.
(b)(1)(G) The inflow design flood control system plan certification (see Section 845.510(c))	Based on a review of the CCR unit's records, the CCR unit is designed, operated, and maintained to adequately manage the flow from the CCR impoundment and control the peak discharge from the inflow design flood.

35 IAC § 845.540 - Annual inspection by a qualified professional engineer.

I, James Knutelski, P.E., certify under penalty of law that the information submitted in this report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the state of Illinois. The information submitted, is to the best of my knowledge and belief, true, accurate and complete. Based on the annual inspection, the design, construction, operation, and maintenance of the CCR Unit is consistent with recognized and generally accepted good engineering standards. Based on a review of the records for the CCR unit and a visual inspection of the unit to document no material changes to the unit, the hazard potential classification was conducted in accordance with the requirements of Section 845.440, the structural stability assessment was conducted in accordance with the requirements of Section 845.450, the safety factor assessment was conducted in accordance with the requirements of Section 845.460, and the inflow design flood control system plan assessment was conducted in accordance with the requirements of Section 845.510.



James Knutelski, PE

Illinois PE No. 062-054206, Expires: 11/30/2025

Date: 01/07/2024

Site Name: Duck Creek Power Station

CCR Unit: Ash Pond No. 1

35 IAC § 845.540 (b)(2)(B)			35 IAC § 845.540 (b)(2)(C)					
Instrument ID #	Type	Maximum recorded reading since previous annual inspection (ft)	Approximate Depth / Elevation					
			Since previous inspection:	Elevation (ft)			Depth (ft)	
PZ1	Piezometer	abandoned		Minimum	Present	Maximum	Minimum	Present
B5	Piezometer	abandoned	Impounded Water		0			0
			CCR	622		655	52	85

ANNUAL INSPECTION BY A QUALIFIED PROFESSIONAL ENGINEER

35 IAC § 845.540

- (b)(1) The CCR surface impoundment must be inspected on an annual basis by a qualified professional engineer to ensure that the design, construction, operation, and maintenance of the CCR surface impoundment is consistent with recognized and generally accepted engineering standards. The inspection must, at a minimum, include:
- A) A review of available information regarding the status and condition of the CCR surface impoundment, including files available in the operating record (e.g., CCR surface impoundment design and construction information required by Sections 845.220(a)(1) and 845.230(d)(2)(A), previous structural stability assessments required under Section 845.450, the results of inspections by a qualified person, and results of previous annual inspections);
 - B) A visual inspection of the CCR surface impoundment to identify signs of distress or malfunction of the CCR surface impoundment and appurtenant structures;
 - C) A visual inspection of any hydraulic structures underlying the base of the CCR surface impoundment or passing through the dike of the CCR surface impoundment for structural integrity and continued safe and reliable operation;
 - D) The annual hazard potential classification certification, if applicable (see Section 845.440);
 - E) The annual structural stability assessment certification, if applicable (see Section 845.450);
 - F) The annual safety factor assessment certification, if applicable (see Section 845.460); and
 - G) The inflow design flood control system plan certification (see Section 845.510(c)).

SITE INFORMATION

Site Name / Address / Date of Inspection	Duck Creek Power Station Fulton County, Illinois 61520 10/4/2023
Operator Name / Address	Luminant Generation Company LLC 6555 Sierra Drive, Irving, TX 75039
CCR unit	Ash Pond No. 2

INSPECTION REPORT 35 IAC § 845.540

(b)(1)(D) The annual hazard potential classification certification, if applicable (see Section 845.440).	Based on a review of the CCR unit's annual hazard potential classification, the unit is classified as a Class II CCR surface impoundment.
(b)(2)(A) Any changes in geometry of the structure since the previous annual inspection.	Cap and Closure activities substantially completed at time of inspection.
(b)(2)(B) The location and type of existing instrumentation and the maximum recorded readings of each instrument since the <u>previous annual inspection</u> .	See the attached.
b)(2)(C) The approximate minimum, maximum, and present depth and elevation of the impounded water and CCR since the <u>previous annual inspection</u> :	See the attached.
b)(2)(D) The storage capacity of the impounding structure at the time of the inspection	Cap and closure substantially completed at time of inspection.
(b)(2)(E) The approximate volume of the impounded water and CCR contained in the unit at the time of the inspection.	Approximately 3750 acre-feet of CCR capped and closed.
(b)(2)(F) Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit	Based on a review of the CCR unit's records and visual observation during the on-site inspection, there was no appearance of an actual or potential structural weakness of the CCR unit, nor an existing condition that is disrupting or would disrupt the operation and safety of the unit.

INSPECTION REPORT 35 IAC § 845.540

(b)(2)(G) Any other changes that may have affected the stability or operation of the impounding structure since the previous annual inspection.	Based on a review of the CCR unit's records and visual observation during the on-site inspection, no other changes which may have affected the stability or operation of the CCR unit have taken place since the previous annual inspection.
(b)(1)(G) The inflow design flood control system plan certification (see Section 845.510(c))	Based on a review of the CCR unit's records, the CCR unit is designed, operated, and maintained to adequately manage the flow from the CCR impoundment and control the peak discharge from the inflow design flood.

35 IAC § 845.540 - Annual inspection by a qualified professional engineer.

I, James Knutelski, P.E., certify under penalty of law that the information submitted in this report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the state of Illinois. The information submitted, is to the best of my knowledge and belief, true, accurate and complete. Based on the annual inspection, the design, construction, operation, and maintenance of the CCR Unit is consistent with recognized and generally accepted good engineering standards. Based on a review of the records for the CCR unit and a visual inspection of the unit to document no material changes to the unit, the hazard potential classification was conducted in accordance with the requirements of Section 845.440, the structural stability assessment was conducted in accordance with the requirements of Section 845.450, the safety factor assessment was conducted in accordance with the requirements of Section 845.460, and the inflow design flood control system plan assessment was conducted in accordance with the requirements of Section 845.510.



James Knutelski, PE

Illinois PE No. 062-054206, Expires: 11/30/2025

Date: 01/07/2024

Site Name: Duck Creek Power Station

CCR Unit: Ash Pond No. 2

35 IAC § 845.540 (b)(2)(B)		
Instrument ID #	Type	Maximum recorded reading since previous annual inspection (ft)
OM31	Piezometer	abandoned
PZ2	Piezometer	abandoned

35 IAC § 845.540 (b)(2)(C)						
Since previous inspection:	Approximate Depth / Elevation					
	Elevation (ft)			Depth (ft)		
Impounded Water	Minimum	Present	Maximum	Minimum	Present	Maximum
CCR	628		635	58		65

Section 3

Annual Groundwater Monitoring and Corrective Action Report (Section 845.610(e))

Prepared for
Illinois Power Resources Generating, LLC

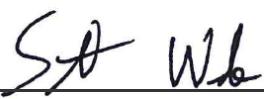
Date
January 31, 2024

Project No.
1940103649-006

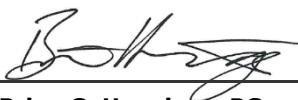
**2023 35 I.A.C. § 845 ANNUAL
GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT
ASH POND NO. 1 AND ASH POND NO. 2
DUCK CREEK POWER PLANT
CANTON, ILLINOIS
IEPA ID NO. W0578010001-01 AND
W0578010001-02**

**2023 35 I.A.C. § 845 ANNUAL GROUNDWATER
MONITORING AND CORRECTIVE ACTION REPORT
DUCK CREEK POWER PLANT ASH POND NO. 1 AND ASH
POND NO. 2**

Project name **Duck Creek Power Plant Ash Pond No. 1 and Ash Pond No. 2**
Project no. **1940103649-006**
Recipient **Illinois Power Resources Generating, LLC**
Document type **Annual Groundwater Monitoring and Corrective Action Report**
Version **FINAL**
Date **January 31, 2024**
Prepared by **Scott S. Woods**
Checked by **Lauren D. Cook**
Approved by **Brian G. Hennings, PG**
Description **Annual Report required by 35 I.A.C. § 845**



Scott S. Woods
Hydrogeologist



Brian G. Hennings, PG
Project Officer, Hydrogeology

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TABLES (IN TEXT)

Table A 35 I.A.C. § 845 Monitoring Program Summary for 2023

TABLES (ATTACHED)

Table 1 Field Parameters and Analytical Results – Quarter 1, 2023
 Field Parameters and Analytical Results – Quarter 2, 2023
 Field Parameters and Analytical Results – Quarter 3, 2023
 Field Parameters and Analytical Results – Quarter 4, 2023

FIGURES (ATTACHED)

Figure 1 Monitoring Well Location Map

ATTACHMENTS

Attachment A Groundwater Elevation Data
Attachment B Laboratory Analytical Reports and Field Data Sheets

ACRONYMS AND ABBREVIATIONS

35 I.A.C.	Title 35 of the Illinois Administrative Code
AP1/AP2	Ash Pond No. 1 and Ash Pond No. 2
CCA	compliance commitment agreement
CCR	coal combustion residuals
CMA	assessment of corrective measures
DCPP	Duck Creek Power Plant
GWPS	groundwater protection standard
ID	identification
IEPA	Illinois Environmental Protection Agency
IPRG	Illinois Power Resources Generating, LLC
NID	National Inventory of Dams
No.	number
R1	first round of sampling to establish background
R2	second round of sampling to establish background
R3	third round of sampling to establish background
R4	fourth round of sampling to establish background
Ramboll	Ramboll Americas Engineering Solutions, Inc.
SI	surface impoundment
SSI	statistically significant increase

EXECUTIVE SUMMARY

This report has been prepared to provide the information required by Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.610(e) (*Annual Groundwater Monitoring and Corrective Action Report*) for Ash Pond No. 1 and Ash Pond No. 2 (AP1/AP2) located at Duck Creek Power Plant (DCPP) near Canton, Illinois. AP1/AP2 is recognized by coal combustion residuals (CCR) unit identification (ID) number (No.) 201/202, Illinois Environmental Protection Agency (IEPA) ID No. W0578010001-01 and W0578010001-02, and National Inventory of Dams (NID) No. IL50715 and IL50014.

AP1 and AP2 were closed in accordance with the Closure and Post Closure Care Plan submitted to IEPA on September 15, 2016. IEPA approved the Closure and Post-Closure Care Plan and Ground Water Management Zone in a letter date November 23, 2016. Closure of AP1/AP2 was completed on December 22, 2020.

As required by 35 I.A.C. § 845, an operating permit application for AP1/AP2 was submitted by Illinois Power Resources Generating, LLC (IPRG) to IEPA by October 31, 2021 in accordance with the requirements specified in 35 I.A.C. § 845.230(d) and is pending approval. IPRG entered into a compliance commitment agreement (CCA) with IEPA on December 28, 2022. After AP1/AP2 has been issued an approved operating permit, groundwater monitoring shall be conducted in accordance with that operating permit. Quarterly groundwater monitoring for the constituents listed in 35 I.A.C. § 845.600 was initiated in the first Quarter of 2023 in accordance with the CCA. A total of eight rounds of samples will be collected and analyzed to establish background for inclusion in the proposed groundwater monitoring plan in accordance with CCA section 5(e). Quarterly groundwater samples were collected from the existing monitoring system monitoring wells. All available groundwater monitoring data collected in 2023 are summarized in **Table 1¹** and groundwater elevation data are provided in **Attachment A**.

This report summarizes the information collected in 2023 for AP1/AP2, and includes the following:

- A map showing the CCR SI and all proposed background (or upgradient) and downgradient monitoring wells, including their identification numbers, that are part of the proposed groundwater monitoring program for AP1/AP2 (**Figure 1**).
- In addition to all the monitoring data obtained under 35 I.A.C. §§ 845.600-680, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, and the dates the samples were collected (**Section 3** and **Table A**).
- A table summarizing the quarterly analytical data and field parameters collected during 2023 (**Table 1**), groundwater elevation data (**Attachment A**), and the laboratory analytical reports and field data sheets (**Attachment B**).

¹ Analytical data received after December 31, 2023 will be reported in an addendum to the Annual Groundwater Monitoring and Corrective Action Report.

Until eight rounds of groundwater samples have been collected, statistically derived values for constituent concentrations observed at compliance monitoring wells will not be determined for comparison with the groundwater protection standards (GWPSS) or for statistical exceedances over background levels.

1. INTRODUCTION

This report has been prepared by Ramboll Americas Engineering Solutions, Inc. (Ramboll) on behalf of IPRG, to provide the information required by 35 I.A.C. § 845.610(e) for AP1/AP2 located at DCPP near Canton, Illinois. The owner or operator of a CCR SI must prepare and submit to IEPA by January 31st of each year an Annual Groundwater Monitoring and Corrective Action Report for the preceding calendar year as part of the Annual Consolidated Report required by 35 I.A.C. § 845.550. The Annual Groundwater Monitoring and Corrective Action Report shall document the status of the groundwater monitoring and corrective action plan for the CCR SI (**Section 2**), summarize key actions completed, including the status of permit applications and Agency approvals (**Section 3**), describe any problems encountered and actions to resolve the problems (**Section 4**), and project key activities for the upcoming year (**Section 5**).

At a minimum, the annual report must contain the following information, to the extent available:

- A. A map, aerial image, or diagram showing the CCR SI and all background (or upgradient) and [downgradient] compliance monitoring wells, including the well identification numbers, that are part of the proposed groundwater monitoring system for the CCR SI, and a visual delineation of any exceedances of the [groundwater protection standard] GWPS.
- B. Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken.
- C. A potentiometric surface map for each groundwater elevation sampling event required by 35 I.A.C. § 845.650(b)(2).
- D. In addition to all the monitoring data obtained under 35 I.A.C. §§ 845.600-680, a summary including the number of groundwater samples that were collected for analysis for each background and [downgradient] compliance well, and the dates the samples were collected (**Section 3** and **Table A**).
- E. A narrative discussion of any statistically significant increases (SSIs) over background levels for the constituents listed in 35 I.A.C. § 845.600.
- F. Other information required to be included in the annual report as specified in 35 I.A.C. §§ 845.600-680.

A section at the beginning of the annual report that provides an overview of the current status of the groundwater monitoring program and corrective action plan for the CCR SI (see **Executive Summary**). At a minimum, the summary must:

- A. Specify whether groundwater monitoring data shows an SSI over background concentrations for one or more constituents listed in 35 I.A.C. § 845.600.
- B. Identify those constituents having an SSI over background concentrations and the names of the monitoring wells associated with the SSI(s).
- C. Specify whether there have been any exceedances of the GWPS for one or more constituents listed in 35 I.A.C. § 845.600.
- D. Identify those constituents with exceedances of the GWPS in 35 I.A.C. § 845.600 and the names of the monitoring wells associated with the exceedance.

- E. Provide the date when the assessment of corrective measures was initiated for the CCR SI.
- F. Provide the date when the assessment of corrective measures was completed for the CCR SI.
- G. Specify whether a remedy was selected under 35 I.A.C. § 845.670 during the current annual reporting period, and if so, the date of remedy selection.
- H. Specify whether remedial activities were initiated or are ongoing under 35 I.A.C. § 845.780 during the current annual reporting period.

This report summarizes the information collected in 2023 for AP1/AP2, and includes the following:

- A map showing the CCR SI and all proposed background (or upgradient) and downgradient monitoring wells, including their identification numbers, that are part of the proposed groundwater monitoring program for AP1/AP2 (**Figure 1**).
- In addition to all the monitoring data obtained under 35 I.A.C. §§ 845.600-680, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, and the dates the samples were collected (**Section 3** and **Table A**).
- A table summarizing the quarterly analytical data and field parameters collected during 2023 (**Table 1**), groundwater elevation data (**Attachment A**), and the laboratory analytical reports and field data sheets (**Attachment B**).

Until eight rounds of groundwater samples have been collected, statistically derived values for constituent concentrations observed at compliance monitoring wells will not be determined for comparison with the groundwater protection standards (GWPSS) or for statistical exceedances over background levels.

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

An operating permit application for AP1/AP2 was submitted by IPRG to IEPA by October 31, 2021 in accordance with the requirements specified in 35 I.A.C. § 845.230(d) and is pending approval. IPRG entered into a CCA with IEPA on December 28, 2022. Groundwater monitoring in accordance with the proposed groundwater monitoring plan and sampling methodologies provided in the operating permit application for AP1/AP2 commenced in the first quarter of 2023. After AP1/AP2 has been issued an approved operating permit, groundwater monitoring shall be conducted in accordance with that operating permit. As specified in the CCA, groundwater sampling requirements that apply to the CCR SI under other existing permit programs will become void upon issuance of an approved operating permit pursuant to 35 I.A.C. § 845. In addition, and in accordance with the CCA, once groundwater monitoring commences, the groundwater monitoring performed under Section 1.5 of the approved Closure and Post-Closure Care Plan will cease.

A total of eight rounds of samples will be collected and analyzed to establish background for inclusion in the proposed groundwater monitoring plan in accordance with CCA section 5(e). Until eight rounds of groundwater samples have been collected, statistically derived values for constituent concentrations observed at compliance monitoring wells will not be determined for comparison with the groundwater protection standards (GWPSs) or for statistical exceedances over background levels.

3. KEY ACTIONS COMPLETED IN 2023

The proposed 35 I.A.C. § 845 monitoring system is presented in **Figure 1**. No wells were installed or decommissioned in 2023. Groundwater monitoring activities as required by other State and Federal programs are summarized in the addendum to the groundwater monitoring plan (Ramboll, 2021).

Monitoring well inspections and redevelopment of the proposed monitoring system monitoring wells that were not sampled in 2022 were completed after initiating groundwater monitoring in the first quarter of 2023. Pressure transducers equipped with data loggers were deployed in the proposed monitoring system wells for measurement of monthly water level elevations as required by 35 I.A.C. § 845.650(b)(2). In 2023, quarterly water level elevations were collected.

Attachment A summarizes the groundwater elevation data collected in 2023.

The initial eight rounds of groundwater monitoring were initiated in the first quarter of 2023. A summary of the samples collected from background and compliance monitoring wells in 2023 is included in **Table A** below. **Table 1** is a summary of the field parameters and analytical results from the 2023 sampling events. Laboratory analytical reports and field data sheets are included in **Attachment B**.

Table A. 35 I.A.C. § 845 Monitoring Program Summary for 2023

Event ID	Sampling Dates ^{1, 2, 3}	Analytical Data Receipt Date
R1	January 9-13, 2023	April 10, 2023
R2	May 8-17, 2023	July 14, 2023
R3	July 17-31, 2023	October 24, 2023
R4	October 17-27, 2023	January 17, 2024

Notes:

TBD: to be determined in 2024

¹ All samples were analyzed for the parameters listed in 35 I.A.C. § 845.600, calcium, and turbidity.

² The following background wells were sampled for each event: BA06, OM16, and OM17

³ The following compliance wells were sampled for each event: OM01, OM04S, OM07, OM12, OM21, OM22D, OM23D, OM24D, OM25S, OR02, OR03D, OR04D, OR06A, OR11, OR13D, OR13S, OR14D, OR19, and OR20

4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

Groundwater monitoring commenced in the first quarter of 2023. Groundwater samples were collected in accordance with the proposed groundwater monitoring plan using sampling methodologies provided in the operating permit application for AP1/AP2. After AP1/AP2 has been issued an approved operating permit, groundwater monitoring shall be conducted in accordance with that operating permit.

Due to malfunctioning pressure transducers, data gaps exist in monthly water level elevations prior to the fourth quarter. Depth to water measurements were collected manually in the fourth quarter. Pressure transducers were refurbished and were redeployed in December 2023 and January 2024.

5. KEY ACTIVITIES PLANNED FOR 2024

The following key activities are planned for 2024:

- Continue collecting the initial eight rounds of groundwater samples from the AP1/AP2 proposed monitoring system for the full list of parameters in 35 I.A.C. § 845.600.
- After AP1/AP2 has been issued an approved operating permit, groundwater monitoring shall be conducted in accordance with that operating permit. As specified in the CCA, groundwater sampling requirements that apply to the CCR SI under other existing permit programs will become void upon issuance of an approved operating permit pursuant to 35 I.A.C. § 845. In addition, and in accordance with the CCA, once groundwater monitoring commences, the groundwater monitoring performed under Section 1.5 of the approved Closure and Post-Closure Care Plan will cease. Groundwater monitoring will include:
 - Monthly groundwater elevations
 - Quarterly groundwater sampling

6. REFERENCES

Illinois Administrative Code, Title 35, Subtitle G, Chapter I, Subchapter J, Part 845: Standards for The Disposal Of Coal Combustion Residuals In Surface Impoundments, effective April 21, 2021.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Addendum to the Groundwater Monitoring Plan*. Duck Creek Power Plant, Ash Pond No. 1 and Ash Pond No. 2, Canton, Illinois. Illinois Power Resources Generating, LLC. October 25, 2021.

TABLES

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2023**

2023 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
BA06	Background	R1	01/10/2023	Antimony, total	0.00043 U	mg/L
BA06	Background	R1	01/10/2023	Arsenic, total	0.00900	mg/L
BA06	Background	R1	01/10/2023	Barium, total	0.120	mg/L
BA06	Background	R1	01/10/2023	Beryllium, total	0.00059 U	mg/L
BA06	Background	R1	01/10/2023	Boron, total	7.30	mg/L
BA06	Background	R1	01/10/2023	Cadmium, total	0.00074 U	mg/L
BA06	Background	R1	01/10/2023	Calcium, total	300	mg/L
BA06	Background	R1	01/10/2023	Chloride, total	590	mg/L
BA06	Background	R1	01/10/2023	Chromium, total	0.0028 U	mg/L
BA06	Background	R1	01/10/2023	Cobalt, total	0.00990	mg/L
BA06	Background	R1	01/10/2023	Dissolved Oxygen	3.60	mg/L
BA06	Background	R1	01/10/2023	Fluoride, total	0.258	mg/L
BA06	Background	R1	01/10/2023	Lead, total	0.00140	mg/L
BA06	Background	R1	01/10/2023	Lithium, total	0.0057 J	mg/L
BA06	Background	R1	01/10/2023	Mercury, total	0.00014 U	mg/L
BA06	Background	R1	01/10/2023	Molybdenum, total	0.00140	mg/L
BA06	Background	R1	01/10/2023	Oxidation Reduction Potential	-26.0	mV
BA06	Background	R1	01/10/2023	pH (field)	6.7	SU
BA06	Background	R1	01/10/2023	Radium 226 + Radium 228, total	1.46	pCi/L
BA06	Background	R1	01/10/2023	Selenium, total	0.00074 U	mg/L
BA06	Background	R1	01/10/2023	Specific Conductance @ 25C (field)	3,090	micromhos/cm
BA06	Background	R1	01/10/2023	Sulfate, total	300	mg/L
BA06	Background	R1	01/10/2023	Temperature (Celsius)	11.7	degrees C
BA06	Background	R1	01/10/2023	Thallium, total	0.00038 U	mg/L
BA06	Background	R1	01/10/2023	Total Dissolved Solids	2,100	mg/L
BA06	Background	R1	01/10/2023	Turbidity, field	1,000	NTU
OM16	Background	R1	01/12/2023	Antimony, total	0.0016 J	mg/L
OM16	Background	R1	01/12/2023	Arsenic, total	0.0840	mg/L
OM16	Background	R1	01/12/2023	Barium, total	0.350	mg/L
OM16	Background	R1	01/12/2023	Beryllium, total	0.00460	mg/L
OM16	Background	R1	01/12/2023	Boron, total	0.0920	mg/L
OM16	Background	R1	01/12/2023	Cadmium, total	0.00440	mg/L
OM16	Background	R1	01/12/2023	Calcium, total	680	mg/L
OM16	Background	R1	01/12/2023	Chloride, total	8.10 B	mg/L
OM16	Background	R1	01/12/2023	Chromium, total	0.140	mg/L
OM16	Background	R1	01/12/2023	Cobalt, total	0.0790	mg/L
OM16	Background	R1	01/12/2023	Dissolved Oxygen	2.00	mg/L
OM16	Background	R1	01/12/2023	Fluoride, total	0.203 J	mg/L
OM16	Background	R1	01/12/2023	Lead, total	0.0710	mg/L
OM16	Background	R1	01/12/2023	Lithium, total	0.140	mg/L
OM16	Background	R1	01/12/2023	Mercury, total	0.000240	mg/L
OM16	Background	R1	01/12/2023	Molybdenum, total	0.00720	mg/L
OM16	Background	R1	01/12/2023	Oxidation Reduction Potential	44.0	mV
OM16	Background	R1	01/12/2023	pH (field)	6.5	SU
OM16	Background	R1	01/12/2023	Radium 226 + Radium 228, total	0.664	pCi/L
OM16	Background	R1	01/12/2023	Selenium, total	0.00440	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM16	Background	R1	01/12/2023	Specific Conductance @ 25C (field)	3,980	micromhos/cm
OM16	Background	R1	01/12/2023	Sulfate, total	2,000 B	mg/L
OM16	Background	R1	01/12/2023	Temperature (Celsius)	9.10	degrees C
OM16	Background	R1	01/12/2023	Thallium, total	0.00100 J	mg/L
OM16	Background	R1	01/12/2023	Total Dissolved Solids	3,400	mg/L
OM16	Background	R1	01/12/2023	Turbidity, field	1,000	NTU
OM17	Background	R1	01/12/2023	Antimony, total	0.00054 J	mg/L
OM17	Background	R1	01/12/2023	Arsenic, total	0.00760	mg/L
OM17	Background	R1	01/12/2023	Barium, total	0.150	mg/L
OM17	Background	R1	01/12/2023	Beryllium, total	0.00120	mg/L
OM17	Background	R1	01/12/2023	Boron, total	0.180	mg/L
OM17	Background	R1	01/12/2023	Cadmium, total	0.00074 U	mg/L
OM17	Background	R1	01/12/2023	Calcium, total	220	mg/L
OM17	Background	R1	01/12/2023	Chloride, total	2.80 B	mg/L
OM17	Background	R1	01/12/2023	Chromium, total	0.0390	mg/L
OM17	Background	R1	01/12/2023	Cobalt, total	0.0140	mg/L
OM17	Background	R1	01/12/2023	Dissolved Oxygen	2.40	mg/L
OM17	Background	R1	01/12/2023	Fluoride, total	0.178 J	mg/L
OM17	Background	R1	01/12/2023	Lead, total	0.0170	mg/L
OM17	Background	R1	01/12/2023	Lithium, total	0.0450	mg/L
OM17	Background	R1	01/12/2023	Mercury, total	0.00014 U	mg/L
OM17	Background	R1	01/12/2023	Molybdenum, total	0.00250	mg/L
OM17	Background	R1	01/12/2023	Oxidation Reduction Potential	42.0	mV
OM17	Background	R1	01/12/2023	pH (field)	6.8	SU
OM17	Background	R1	01/12/2023	Radium 226 + Radium 228, total	4.57	pCi/L
OM17	Background	R1	01/12/2023	Selenium, total	0.00200	mg/L
OM17	Background	R1	01/12/2023	Specific Conductance @ 25C (field)	2,060	micromhos/cm
OM17	Background	R1	01/12/2023	Sulfate, total	370 B	mg/L
OM17	Background	R1	01/12/2023	Temperature (Celsius)	11.0	degrees C
OM17	Background	R1	01/12/2023	Thallium, total	0.00038 U	mg/L
OM17	Background	R1	01/12/2023	Total Dissolved Solids	940	mg/L
OM17	Background	R1	01/12/2023	Turbidity, field	1,000	NTU
OM01	Compliance	R1	01/11/2023	Antimony, total	0.00043 U	mg/L
OM01	Compliance	R1	01/11/2023	Arsenic, total	0.00280	mg/L
OM01	Compliance	R1	01/11/2023	Barium, total	0.0260	mg/L
OM01	Compliance	R1	01/11/2023	Beryllium, total	0.00059 U	mg/L
OM01	Compliance	R1	01/11/2023	Boron, total	0.560	mg/L
OM01	Compliance	R1	01/11/2023	Cadmium, total	0.00074 U	mg/L
OM01	Compliance	R1	01/11/2023	Calcium, total	610	mg/L
OM01	Compliance	R1	01/11/2023	Chloride, total	31.0	mg/L
OM01	Compliance	R1	01/11/2023	Chromium, total	0.0028 U	mg/L
OM01	Compliance	R1	01/11/2023	Cobalt, total	0.0200	mg/L
OM01	Compliance	R1	01/11/2023	Dissolved Oxygen	1.90	mg/L
OM01	Compliance	R1	01/11/2023	Fluoride, total	0.162 J	mg/L
OM01	Compliance	R1	01/11/2023	Lead, total	0.00052 J	mg/L
OM01	Compliance	R1	01/11/2023	Lithium, total	0.005 U	mg/L

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM01	Compliance	R1	01/11/2023	Mercury, total	0.00014 U	mg/L
OM01	Compliance	R1	01/11/2023	Molybdenum, total	0.00074 U	mg/L
OM01	Compliance	R1	01/11/2023	Oxidation Reduction Potential	87.0	mV
OM01	Compliance	R1	01/11/2023	pH (field)	6.3	SU
OM01	Compliance	R1	01/11/2023	Radium 226 + Radium 228, total	1.99	pCi/L
OM01	Compliance	R1	01/11/2023	Selenium, total	0.00074 U	mg/L
OM01	Compliance	R1	01/11/2023	Specific Conductance @ 25C (field)	3,680	micromhos/cm
OM01	Compliance	R1	01/11/2023	Sulfate, total	1,800	mg/L
OM01	Compliance	R1	01/11/2023	Temperature (Celsius)	11.3	degrees C
OM01	Compliance	R1	01/11/2023	Thallium, total	0.00038 U	mg/L
OM01	Compliance	R1	01/11/2023	Total Dissolved Solids	3,500	mg/L
OM01	Compliance	R1	01/11/2023	Turbidity, field	56.8	NTU
OM04S	Compliance	R1	01/12/2023	Antimony, total	0.00043 U	mg/L
OM04S	Compliance	R1	01/12/2023	Arsenic, total	0.00910	mg/L
OM04S	Compliance	R1	01/12/2023	Barium, total	0.0830	mg/L
OM04S	Compliance	R1	01/12/2023	Beryllium, total	0.00059 U	mg/L
OM04S	Compliance	R1	01/12/2023	Boron, total	0.0810	mg/L
OM04S	Compliance	R1	01/12/2023	Cadmium, total	0.00074 U	mg/L
OM04S	Compliance	R1	01/12/2023	Calcium, total	150	mg/L
OM04S	Compliance	R1	01/12/2023	Chloride, total	16.0	mg/L
OM04S	Compliance	R1	01/12/2023	Chromium, total	0.00770	mg/L
OM04S	Compliance	R1	01/12/2023	Cobalt, total	0.00840	mg/L
OM04S	Compliance	R1	01/12/2023	Dissolved Oxygen	3.90	mg/L
OM04S	Compliance	R1	01/12/2023	Fluoride, total	0.249 J	mg/L
OM04S	Compliance	R1	01/12/2023	Lead, total	0.00390	mg/L
OM04S	Compliance	R1	01/12/2023	Lithium, total	0.0073 J	mg/L
OM04S	Compliance	R1	01/12/2023	Mercury, total	0.00014 U	mg/L
OM04S	Compliance	R1	01/12/2023	Molybdenum, total	0.00280	mg/L
OM04S	Compliance	R1	01/12/2023	Oxidation Reduction Potential	28.0	mV
OM04S	Compliance	R1	01/12/2023	pH (field)	7.0	SU
OM04S	Compliance	R1	01/12/2023	Radium 226 + Radium 228, total	0.331	pCi/L
OM04S	Compliance	R1	01/12/2023	Selenium, total	0.00074 U	mg/L
OM04S	Compliance	R1	01/12/2023	Specific Conductance @ 25C (field)	1,190	micromhos/cm
OM04S	Compliance	R1	01/12/2023	Sulfate, total	120	mg/L
OM04S	Compliance	R1	01/12/2023	Temperature (Celsius)	6.60	degrees C
OM04S	Compliance	R1	01/12/2023	Thallium, total	0.00038 U	mg/L
OM04S	Compliance	R1	01/12/2023	Total Dissolved Solids	760	mg/L
OM04S	Compliance	R1	01/12/2023	Turbidity, field	70.9	NTU
OM07	Compliance	R1	01/11/2023	Antimony, total	0.00064 J	mg/L
OM07	Compliance	R1	01/11/2023	Arsenic, total	0.00240	mg/L
OM07	Compliance	R1	01/11/2023	Barium, total	0.0550	mg/L
OM07	Compliance	R1	01/11/2023	Beryllium, total	0.00059 U	mg/L
OM07	Compliance	R1	01/11/2023	Boron, total	0.670	mg/L
OM07	Compliance	R1	01/11/2023	Cadmium, total	0.00074 U	mg/L
OM07	Compliance	R1	01/11/2023	Calcium, total	130	mg/L
OM07	Compliance	R1	01/11/2023	Chloride, total	9.40	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM07	Compliance	R1	01/11/2023	Chromium, total	0.0028 U	mg/L
OM07	Compliance	R1	01/11/2023	Cobalt, total	0.00290	mg/L
OM07	Compliance	R1	01/11/2023	Dissolved Oxygen	5.50	mg/L
OM07	Compliance	R1	01/11/2023	Fluoride, total	0.270	mg/L
OM07	Compliance	R1	01/11/2023	Lead, total	0.00088 J	mg/L
OM07	Compliance	R1	01/11/2023	Lithium, total	0.0058 J	mg/L
OM07	Compliance	R1	01/11/2023	Mercury, total	0.00014 U	mg/L
OM07	Compliance	R1	01/11/2023	Molybdenum, total	0.00120	mg/L
OM07	Compliance	R1	01/11/2023	Oxidation Reduction Potential	-39.0	mV
OM07	Compliance	R1	01/11/2023	pH (field)	7.1	SU
OM07	Compliance	R1	01/11/2023	Radium 226 + Radium 228, total	0.148	pCi/L
OM07	Compliance	R1	01/11/2023	Selenium, total	0.00074 U	mg/L
OM07	Compliance	R1	01/11/2023	Specific Conductance @ 25C (field)	1,200	micromhos/cm
OM07	Compliance	R1	01/11/2023	Sulfate, total	170	mg/L
OM07	Compliance	R1	01/11/2023	Temperature (Celsius)	12.9	degrees C
OM07	Compliance	R1	01/11/2023	Thallium, total	0.00038 U	mg/L
OM07	Compliance	R1	01/11/2023	Total Dissolved Solids	820 J	mg/L
OM07	Compliance	R1	01/11/2023	Turbidity, field	89.7	NTU
OM12	Compliance	R1	01/10/2023	Antimony, total	0.00043 U	mg/L
OM12	Compliance	R1	01/10/2023	Arsenic, total	0.0280	mg/L
OM12	Compliance	R1	01/10/2023	Barium, total	0.290	mg/L
OM12	Compliance	R1	01/10/2023	Beryllium, total	0.00059 U	mg/L
OM12	Compliance	R1	01/10/2023	Boron, total	0.140	mg/L
OM12	Compliance	R1	01/10/2023	Cadmium, total	0.00074 U	mg/L
OM12	Compliance	R1	01/10/2023	Calcium, total	300	mg/L
OM12	Compliance	R1	01/10/2023	Chloride, total	5.50 B	mg/L
OM12	Compliance	R1	01/10/2023	Chromium, total	0.00680	mg/L
OM12	Compliance	R1	01/10/2023	Cobalt, total	0.00430	mg/L
OM12	Compliance	R1	01/10/2023	Dissolved Oxygen	2.60	mg/L
OM12	Compliance	R1	01/10/2023	Fluoride, total	0.252	mg/L
OM12	Compliance	R1	01/10/2023	Lead, total	0.00780	mg/L
OM12	Compliance	R1	01/10/2023	Lithium, total	0.005 U	mg/L
OM12	Compliance	R1	01/10/2023	Mercury, total	0.00014 U	mg/L
OM12	Compliance	R1	01/10/2023	Molybdenum, total	0.00380	mg/L
OM12	Compliance	R1	01/10/2023	Oxidation Reduction Potential	-39.0	mV
OM12	Compliance	R1	01/10/2023	pH (field)	6.6	SU
OM12	Compliance	R1	01/10/2023	Radium 226 + Radium 228, total	0.284	pCi/L
OM12	Compliance	R1	01/10/2023	Selenium, total	0.00074 U	mg/L
OM12	Compliance	R1	01/10/2023	Specific Conductance @ 25C (field)	2,090	micromhos/cm
OM12	Compliance	R1	01/10/2023	Sulfate, total	370	mg/L
OM12	Compliance	R1	01/10/2023	Temperature (Celsius)	12.1	degrees C
OM12	Compliance	R1	01/10/2023	Thallium, total	0.00038 U	mg/L
OM12	Compliance	R1	01/10/2023	Total Dissolved Solids	1,500	mg/L
OM12	Compliance	R1	01/10/2023	Turbidity, field	597	NTU
OM21	Compliance	R1	01/12/2023	Antimony, total	0.00043 U	mg/L
OM21	Compliance	R1	01/12/2023	Arsenic, total	0.00150	mg/L

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM21	Compliance	R1	01/12/2023	Barium, total	0.0160	mg/L
OM21	Compliance	R1	01/12/2023	Beryllium, total	0.00059 U	mg/L
OM21	Compliance	R1	01/12/2023	Boron, total	7.60	mg/L
OM21	Compliance	R1	01/12/2023	Cadmium, total	0.00074 U	mg/L
OM21	Compliance	R1	01/12/2023	Calcium, total	300	mg/L
OM21	Compliance	R1	01/12/2023	Chloride, total	220	mg/L
OM21	Compliance	R1	01/12/2023	Chromium, total	0.0028 U	mg/L
OM21	Compliance	R1	01/12/2023	Cobalt, total	0.00048 U	mg/L
OM21	Compliance	R1	01/12/2023	Dissolved Oxygen	1.90	mg/L
OM21	Compliance	R1	01/12/2023	Fluoride, total	0.273	mg/L
OM21	Compliance	R1	01/12/2023	Lead, total	0.00022 U	mg/L
OM21	Compliance	R1	01/12/2023	Lithium, total	0.0400	mg/L
OM21	Compliance	R1	01/12/2023	Mercury, total	0.00014 U	mg/L
OM21	Compliance	R1	01/12/2023	Molybdenum, total	0.00160	mg/L
OM21	Compliance	R1	01/12/2023	Oxidation Reduction Potential	11.0	mV
OM21	Compliance	R1	01/12/2023	pH (field)	6.7	SU
OM21	Compliance	R1	01/12/2023	Radium 226 + Radium 228, total	0.316	pCi/L
OM21	Compliance	R1	01/12/2023	Selenium, total	0.00074 U	mg/L
OM21	Compliance	R1	01/12/2023	Specific Conductance @ 25C (field)	3,620	micromhos/cm
OM21	Compliance	R1	01/12/2023	Sulfate, total	1,000	mg/L
OM21	Compliance	R1	01/12/2023	Temperature (Celsius)	10.4	degrees C
OM21	Compliance	R1	01/12/2023	Thallium, total	0.00038 U	mg/L
OM21	Compliance	R1	01/12/2023	Total Dissolved Solids	2,600	mg/L
OM21	Compliance	R1	01/12/2023	Turbidity, field	17.7	NTU
OM22D	Compliance	R1	01/10/2023	Antimony, total	0.00043 U	mg/L
OM22D	Compliance	R1	01/10/2023	Arsenic, total	0.00590	mg/L
OM22D	Compliance	R1	01/10/2023	Barium, total	0.0610	mg/L
OM22D	Compliance	R1	01/10/2023	Beryllium, total	0.00059 U	mg/L
OM22D	Compliance	R1	01/10/2023	Boron, total	45.0	mg/L
OM22D	Compliance	R1	01/10/2023	Cadmium, total	0.00074 U	mg/L
OM22D	Compliance	R1	01/10/2023	Calcium, total	550	mg/L
OM22D	Compliance	R1	01/10/2023	Chloride, total	900	mg/L
OM22D	Compliance	R1	01/10/2023	Chromium, total	0.00960	mg/L
OM22D	Compliance	R1	01/10/2023	Cobalt, total	0.00500	mg/L
OM22D	Compliance	R1	01/10/2023	Dissolved Oxygen	2.40	mg/L
OM22D	Compliance	R1	01/10/2023	Fluoride, total	0.195 J	mg/L
OM22D	Compliance	R1	01/10/2023	Lead, total	0.00260	mg/L
OM22D	Compliance	R1	01/10/2023	Lithium, total	0.0470	mg/L
OM22D	Compliance	R1	01/10/2023	Mercury, total	0.00014 U	mg/L
OM22D	Compliance	R1	01/10/2023	Molybdenum, total	0.0900	mg/L
OM22D	Compliance	R1	01/10/2023	Oxidation Reduction Potential	51.0	mV
OM22D	Compliance	R1	01/10/2023	pH (field)	6.7	SU
OM22D	Compliance	R1	01/10/2023	Radium 226 + Radium 228, total	0.118	pCi/L
OM22D	Compliance	R1	01/10/2023	Selenium, total	0.00074 U	mg/L
OM22D	Compliance	R1	01/10/2023	Specific Conductance @ 25C (field)	4,010	micromhos/cm
OM22D	Compliance	R1	01/10/2023	Sulfate, total	640	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM22D	Compliance	R1	01/10/2023	Temperature (Celsius)	12.3	degrees C
OM22D	Compliance	R1	01/10/2023	Thallium, total	0.00038 U	mg/L
OM22D	Compliance	R1	01/10/2023	Total Dissolved Solids	2,900	mg/L
OM22D	Compliance	R1	01/10/2023	Turbidity, field	1,000	NTU
OM23D	Compliance	R1	01/12/2023	Antimony, total	0.00043 U	mg/L
OM23D	Compliance	R1	01/12/2023	Arsenic, total	0.00270	mg/L
OM23D	Compliance	R1	01/12/2023	Barium, total	0.0280	mg/L
OM23D	Compliance	R1	01/12/2023	Beryllium, total	0.00059 U	mg/L
OM23D	Compliance	R1	01/12/2023	Boron, total	1.80	mg/L
OM23D	Compliance	R1	01/12/2023	Cadmium, total	0.00074 U	mg/L
OM23D	Compliance	R1	01/12/2023	Calcium, total	170	mg/L
OM23D	Compliance	R1	01/12/2023	Chloride, total	25.0	mg/L
OM23D	Compliance	R1	01/12/2023	Chromium, total	0.0028 U	mg/L
OM23D	Compliance	R1	01/12/2023	Cobalt, total	0.00083 J	mg/L
OM23D	Compliance	R1	01/12/2023	Dissolved Oxygen	1.60	mg/L
OM23D	Compliance	R1	01/12/2023	Fluoride, total	0.189 J	mg/L
OM23D	Compliance	R1	01/12/2023	Lead, total	0.00081 J	mg/L
OM23D	Compliance	R1	01/12/2023	Lithium, total	0.0370	mg/L
OM23D	Compliance	R1	01/12/2023	Mercury, total	0.00014 U	mg/L
OM23D	Compliance	R1	01/12/2023	Molybdenum, total	0.00230	mg/L
OM23D	Compliance	R1	01/12/2023	Oxidation Reduction Potential	24.0	mV
OM23D	Compliance	R1	01/12/2023	pH (field)	6.8	SU
OM23D	Compliance	R1	01/12/2023	Radium 226 + Radium 228, total	0.864	pCi/L
OM23D	Compliance	R1	01/12/2023	Selenium, total	0.00074 U	mg/L
OM23D	Compliance	R1	01/12/2023	Specific Conductance @ 25C (field)	1,850	micromhos/cm
OM23D	Compliance	R1	01/12/2023	Sulfate, total	380	mg/L
OM23D	Compliance	R1	01/12/2023	Temperature (Celsius)	10.5	degrees C
OM23D	Compliance	R1	01/12/2023	Thallium, total	0.00038 U	mg/L
OM23D	Compliance	R1	01/12/2023	Total Dissolved Solids	1,200	mg/L
OM23D	Compliance	R1	01/12/2023	Turbidity, field	104	NTU
OM24D	Compliance	R1	01/10/2023	Antimony, total	0.00043 U	mg/L
OM24D	Compliance	R1	01/10/2023	Arsenic, total	0.00460	mg/L
OM24D	Compliance	R1	01/10/2023	Barium, total	0.0190	mg/L
OM24D	Compliance	R1	01/10/2023	Beryllium, total	0.00059 U	mg/L
OM24D	Compliance	R1	01/10/2023	Boron, total	23.0	mg/L
OM24D	Compliance	R1	01/10/2023	Cadmium, total	0.00074 U	mg/L
OM24D	Compliance	R1	01/10/2023	Calcium, total	410	mg/L
OM24D	Compliance	R1	01/10/2023	Chloride, total	550	mg/L
OM24D	Compliance	R1	01/10/2023	Chromium, total	0.0028 U	mg/L
OM24D	Compliance	R1	01/10/2023	Cobalt, total	0.00048 U	mg/L
OM24D	Compliance	R1	01/10/2023	Dissolved Oxygen	5.40	mg/L
OM24D	Compliance	R1	01/10/2023	Fluoride, total	0.566	mg/L
OM24D	Compliance	R1	01/10/2023	Lead, total	0.00036 J	mg/L
OM24D	Compliance	R1	01/10/2023	Lithium, total	0.012 J	mg/L
OM24D	Compliance	R1	01/10/2023	Mercury, total	0.00014 U	mg/L
OM24D	Compliance	R1	01/10/2023	Molybdenum, total	0.00510	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM24D	Compliance	R1	01/10/2023	Oxidation Reduction Potential	80.0	mV
OM24D	Compliance	R1	01/10/2023	pH (field)	6.5	SU
OM24D	Compliance	R1	01/10/2023	Radium 226 + Radium 228, total	1.42	pCi/L
OM24D	Compliance	R1	01/10/2023	Selenium, total	0.00074 U	mg/L
OM24D	Compliance	R1	01/10/2023	Specific Conductance @ 25C (field)	3,450	micromhos/cm
OM24D	Compliance	R1	01/10/2023	Sulfate, total	710	mg/L
OM24D	Compliance	R1	01/10/2023	Temperature (Celsius)	11.6	degrees C
OM24D	Compliance	R1	01/10/2023	Thallium, total	0.00038 U	mg/L
OM24D	Compliance	R1	01/10/2023	Total Dissolved Solids	2,500	mg/L
OM24D	Compliance	R1	01/10/2023	Turbidity, field	184	NTU
OM25S	Compliance	R1	01/10/2023	Antimony, total	0.00061 J	mg/L
OM25S	Compliance	R1	01/10/2023	Arsenic, total	0.00310	mg/L
OM25S	Compliance	R1	01/10/2023	Barium, total	0.0420	mg/L
OM25S	Compliance	R1	01/10/2023	Beryllium, total	0.00059 U	mg/L
OM25S	Compliance	R1	01/10/2023	Boron, total	21.0	mg/L
OM25S	Compliance	R1	01/10/2023	Cadmium, total	0.00074 U	mg/L
OM25S	Compliance	R1	01/10/2023	Calcium, total	310	mg/L
OM25S	Compliance	R1	01/10/2023	Chloride, total	550	mg/L
OM25S	Compliance	R1	01/10/2023	Chromium, total	0.00750	mg/L
OM25S	Compliance	R1	01/10/2023	Cobalt, total	0.00650	mg/L
OM25S	Compliance	R1	01/10/2023	Dissolved Oxygen	1.80	mg/L
OM25S	Compliance	R1	01/10/2023	Fluoride, total	0.176 J	mg/L
OM25S	Compliance	R1	01/10/2023	Lead, total	0.00330	mg/L
OM25S	Compliance	R1	01/10/2023	Lithium, total	0.0610	mg/L
OM25S	Compliance	R1	01/10/2023	Mercury, total	0.00014 U	mg/L
OM25S	Compliance	R1	01/10/2023	Molybdenum, total	0.00170	mg/L
OM25S	Compliance	R1	01/10/2023	Oxidation Reduction Potential	49.0	mV
OM25S	Compliance	R1	01/10/2023	pH (field)	6.7	SU
OM25S	Compliance	R1	01/10/2023	Radium 226 + Radium 228, total	4.78	pCi/L
OM25S	Compliance	R1	01/10/2023	Selenium, total	0.00074 U	mg/L
OM25S	Compliance	R1	01/10/2023	Specific Conductance @ 25C (field)	3,780	micromhos/cm
OM25S	Compliance	R1	01/10/2023	Sulfate, total	650	mg/L
OM25S	Compliance	R1	01/10/2023	Temperature (Celsius)	12.7	degrees C
OM25S	Compliance	R1	01/10/2023	Thallium, total	0.00038 U	mg/L
OM25S	Compliance	R1	01/10/2023	Total Dissolved Solids	2,700	mg/L
OM25S	Compliance	R1	01/10/2023	Turbidity, field	1,000	NTU
OR02	Compliance	R1	01/11/2023	Antimony, total	0.00043 U	mg/L
OR02	Compliance	R1	01/11/2023	Arsenic, total	0.0120	mg/L
OR02	Compliance	R1	01/11/2023	Barium, total	0.0720	mg/L
OR02	Compliance	R1	01/11/2023	Beryllium, total	0.00059 U	mg/L
OR02	Compliance	R1	01/11/2023	Boron, total	3.90	mg/L
OR02	Compliance	R1	01/11/2023	Cadmium, total	0.00074 U	mg/L
OR02	Compliance	R1	01/11/2023	Calcium, total	230	mg/L
OR02	Compliance	R1	01/11/2023	Chloride, total	210	mg/L
OR02	Compliance	R1	01/11/2023	Chromium, total	0.00990	mg/L
OR02	Compliance	R1	01/11/2023	Cobalt, total	0.00770	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR02	Compliance	R1	01/11/2023	Dissolved Oxygen	1.30	mg/L
OR02	Compliance	R1	01/11/2023	Fluoride, total	0.238 J	mg/L
OR02	Compliance	R1	01/11/2023	Lead, total	0.00780	mg/L
OR02	Compliance	R1	01/11/2023	Lithium, total	0.0098 J	mg/L
OR02	Compliance	R1	01/11/2023	Mercury, total	0.00014 U	mg/L
OR02	Compliance	R1	01/11/2023	Molybdenum, total	0.00470	mg/L
OR02	Compliance	R1	01/11/2023	Oxidation Reduction Potential	52.0	mV
OR02	Compliance	R1	01/11/2023	pH (field)	6.7	SU
OR02	Compliance	R1	01/11/2023	Radium 226 + Radium 228, total	0.918	pCi/L
OR02	Compliance	R1	01/11/2023	Selenium, total	0.0008 J	mg/L
OR02	Compliance	R1	01/11/2023	Specific Conductance @ 25C (field)	2,140	micromhos/cm
OR02	Compliance	R1	01/11/2023	Sulfate, total	280	mg/L
OR02	Compliance	R1	01/11/2023	Temperature (Celsius)	12.1	degrees C
OR02	Compliance	R1	01/11/2023	Thallium, total	0.00038 U	mg/L
OR02	Compliance	R1	01/11/2023	Total Dissolved Solids	1,600	mg/L
OR02	Compliance	R1	01/11/2023	Turbidity, field	1,000	NTU
OR03D	Compliance	R1	01/11/2023	Antimony, total	0.00043 U	mg/L
OR03D	Compliance	R1	01/11/2023	Arsenic, total	0.00860	mg/L
OR03D	Compliance	R1	01/11/2023	Barium, total	0.110	mg/L
OR03D	Compliance	R1	01/11/2023	Beryllium, total	0.00094 J	mg/L
OR03D	Compliance	R1	01/11/2023	Boron, total	52.0	mg/L
OR03D	Compliance	R1	01/11/2023	Cadmium, total	0.00074 U	mg/L
OR03D	Compliance	R1	01/11/2023	Calcium, total	590	mg/L
OR03D	Compliance	R1	01/11/2023	Chloride, total	1,200	mg/L
OR03D	Compliance	R1	01/11/2023	Chromium, total	0.0290	mg/L
OR03D	Compliance	R1	01/11/2023	Cobalt, total	0.00980	mg/L
OR03D	Compliance	R1	01/11/2023	Dissolved Oxygen	1.80	mg/L
OR03D	Compliance	R1	01/11/2023	Fluoride, total	0.212 J	mg/L
OR03D	Compliance	R1	01/11/2023	Lead, total	0.00830	mg/L
OR03D	Compliance	R1	01/11/2023	Lithium, total	0.0590	mg/L
OR03D	Compliance	R1	01/11/2023	Mercury, total	0.00014 U	mg/L
OR03D	Compliance	R1	01/11/2023	Molybdenum, total	0.00690	mg/L
OR03D	Compliance	R1	01/11/2023	Oxidation Reduction Potential	57.0	mV
OR03D	Compliance	R1	01/11/2023	pH (field)	6.6	SU
OR03D	Compliance	R1	01/11/2023	Radium 226 + Radium 228, total	1.95	pCi/L
OR03D	Compliance	R1	01/11/2023	Selenium, total	0.00100 J	mg/L
OR03D	Compliance	R1	01/11/2023	Specific Conductance @ 25C (field)	5,310	micromhos/cm
OR03D	Compliance	R1	01/11/2023	Sulfate, total	600	mg/L
OR03D	Compliance	R1	01/11/2023	Temperature (Celsius)	14.4	degrees C
OR03D	Compliance	R1	01/11/2023	Thallium, total	0.00038 U	mg/L
OR03D	Compliance	R1	01/11/2023	Total Dissolved Solids	4,300	mg/L
OR03D	Compliance	R1	01/11/2023	Turbidity, field	1,000	NTU
OR04D	Compliance	R1	01/11/2023	Antimony, total	0.00043 U	mg/L
OR04D	Compliance	R1	01/11/2023	Arsenic, total	0.00670	mg/L
OR04D	Compliance	R1	01/11/2023	Barium, total	0.0750	mg/L
OR04D	Compliance	R1	01/11/2023	Beryllium, total	0.00059 U	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR04D	Compliance	R1	01/11/2023	Boron, total	100	mg/L
OR04D	Compliance	R1	01/11/2023	Cadmium, total	0.00074 U	mg/L
OR04D	Compliance	R1	01/11/2023	Calcium, total	760	mg/L
OR04D	Compliance	R1	01/11/2023	Chloride, total	1,400	mg/L
OR04D	Compliance	R1	01/11/2023	Chromium, total	0.0120	mg/L
OR04D	Compliance	R1	01/11/2023	Cobalt, total	0.00480	mg/L
OR04D	Compliance	R1	01/11/2023	Dissolved Oxygen	1.30	mg/L
OR04D	Compliance	R1	01/11/2023	Fluoride, total	0.231 J	mg/L
OR04D	Compliance	R1	01/11/2023	Lead, total	0.00500	mg/L
OR04D	Compliance	R1	01/11/2023	Lithium, total	0.0680	mg/L
OR04D	Compliance	R1	01/11/2023	Mercury, total	0.00014 U	mg/L
OR04D	Compliance	R1	01/11/2023	Molybdenum, total	0.00570	mg/L
OR04D	Compliance	R1	01/11/2023	Oxidation Reduction Potential	-8.00	mV
OR04D	Compliance	R1	01/11/2023	pH (field)	6.6	SU
OR04D	Compliance	R1	01/11/2023	Radium 226 + Radium 228, total	2.96	pCi/L
OR04D	Compliance	R1	01/11/2023	Selenium, total	0.00074 U	mg/L
OR04D	Compliance	R1	01/11/2023	Specific Conductance @ 25C (field)	6,180	micromhos/cm
OR04D	Compliance	R1	01/11/2023	Sulfate, total	1,100	mg/L
OR04D	Compliance	R1	01/11/2023	Temperature (Celsius)	13.7	degrees C
OR04D	Compliance	R1	01/11/2023	Thallium, total	0.00038 U	mg/L
OR04D	Compliance	R1	01/11/2023	Total Dissolved Solids	4,900	mg/L
OR04D	Compliance	R1	01/11/2023	Turbidity, field	154	NTU
OR06A	Compliance	R1	01/11/2023	Antimony, total	0.00088 J	mg/L
OR06A	Compliance	R1	01/11/2023	Arsenic, total	0.0210	mg/L
OR06A	Compliance	R1	01/11/2023	Barium, total	0.100	mg/L
OR06A	Compliance	R1	01/11/2023	Beryllium, total	0.00059 U	mg/L
OR06A	Compliance	R1	01/11/2023	Boron, total	27.0	mg/L
OR06A	Compliance	R1	01/11/2023	Cadmium, total	0.00074 U	mg/L
OR06A	Compliance	R1	01/11/2023	Calcium, total	330	mg/L
OR06A	Compliance	R1	01/11/2023	Chloride, total	390	mg/L
OR06A	Compliance	R1	01/11/2023	Chromium, total	0.0130	mg/L
OR06A	Compliance	R1	01/11/2023	Cobalt, total	0.00820	mg/L
OR06A	Compliance	R1	01/11/2023	Dissolved Oxygen	4.00	mg/L
OR06A	Compliance	R1	01/11/2023	Fluoride, total	0.167 J	mg/L
OR06A	Compliance	R1	01/11/2023	Lead, total	0.00890	mg/L
OR06A	Compliance	R1	01/11/2023	Lithium, total	0.016 J	mg/L
OR06A	Compliance	R1	01/11/2023	Mercury, total	0.00014 U	mg/L
OR06A	Compliance	R1	01/11/2023	Molybdenum, total	0.0230	mg/L
OR06A	Compliance	R1	01/11/2023	Oxidation Reduction Potential	-41.0	mV
OR06A	Compliance	R1	01/11/2023	pH (field)	6.9	SU
OR06A	Compliance	R1	01/11/2023	Radium 226 + Radium 228, total	0.495	pCi/L
OR06A	Compliance	R1	01/11/2023	Selenium, total	0.00074 U	mg/L
OR06A	Compliance	R1	01/11/2023	Specific Conductance @ 25C (field)	2,890	micromhos/cm
OR06A	Compliance	R1	01/11/2023	Sulfate, total	450	mg/L
OR06A	Compliance	R1	01/11/2023	Temperature (Celsius)	12.8	degrees C
OR06A	Compliance	R1	01/11/2023	Thallium, total	0.00038 U	mg/L

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR06A	Compliance	R1	01/11/2023	Total Dissolved Solids	2,100	mg/L
OR06A	Compliance	R1	01/11/2023	Turbidity, field	506	NTU
OR11	Compliance	R1	01/12/2023	Antimony, total	0.0018 J	mg/L
OR11	Compliance	R1	01/12/2023	Arsenic, total	0.0630	mg/L
OR11	Compliance	R1	01/12/2023	Barium, total	1.10	mg/L
OR11	Compliance	R1	01/12/2023	Beryllium, total	0.00460	mg/L
OR11	Compliance	R1	01/12/2023	Boron, total	9.20	mg/L
OR11	Compliance	R1	01/12/2023	Cadmium, total	0.00091 J	mg/L
OR11	Compliance	R1	01/12/2023	Calcium, total	230	mg/L
OR11	Compliance	R1	01/12/2023	Chloride, total	88.0	mg/L
OR11	Compliance	R1	01/12/2023	Chromium, total	0.0480	mg/L
OR11	Compliance	R1	01/12/2023	Cobalt, total	0.0300	mg/L
OR11	Compliance	R1	01/12/2023	Dissolved Oxygen	6.10	mg/L
OR11	Compliance	R1	01/12/2023	Fluoride, total	0.293	mg/L
OR11	Compliance	R1	01/12/2023	Lead, total	0.100	mg/L
OR11	Compliance	R1	01/12/2023	Lithium, total	0.0630	mg/L
OR11	Compliance	R1	01/12/2023	Mercury, total	0.00014 U	mg/L
OR11	Compliance	R1	01/12/2023	Molybdenum, total	0.0140	mg/L
OR11	Compliance	R1	01/12/2023	Oxidation Reduction Potential	-9.00	mV
OR11	Compliance	R1	01/12/2023	pH (field)	7.2	SU
OR11	Compliance	R1	01/12/2023	Radium 226 + Radium 228, total	8.04	pCi/L
OR11	Compliance	R1	01/12/2023	Selenium, total	0.00410	mg/L
OR11	Compliance	R1	01/12/2023	Specific Conductance @ 25C (field)	1,270	micromhos/cm
OR11	Compliance	R1	01/12/2023	Sulfate, total	170	mg/L
OR11	Compliance	R1	01/12/2023	Temperature (Celsius)	9.80	degrees C
OR11	Compliance	R1	01/12/2023	Thallium, total	0.00038 U	mg/L
OR11	Compliance	R1	01/12/2023	Total Dissolved Solids	820	mg/L
OR11	Compliance	R1	01/12/2023	Turbidity, field	1,000	NTU
OR13S	Compliance	R1	01/12/2023	Antimony, total	0.00300 J	mg/L
OR13S	Compliance	R1	01/12/2023	Arsenic, total	0.130	mg/L
OR13S	Compliance	R1	01/12/2023	Barium, total	0.100	mg/L
OR13S	Compliance	R1	01/12/2023	Beryllium, total	0.00059 U	mg/L
OR13S	Compliance	R1	01/12/2023	Boron, total	3.80	mg/L
OR13S	Compliance	R1	01/12/2023	Cadmium, total	0.00074 U	mg/L
OR13S	Compliance	R1	01/12/2023	Calcium, total	290	mg/L
OR13S	Compliance	R1	01/12/2023	Chloride, total	67.0	mg/L
OR13S	Compliance	R1	01/12/2023	Chromium, total	0.0130	mg/L
OR13S	Compliance	R1	01/12/2023	Cobalt, total	0.00540	mg/L
OR13S	Compliance	R1	01/12/2023	Dissolved Oxygen	3.70	mg/L
OR13S	Compliance	R1	01/12/2023	Fluoride, total	0.277	mg/L
OR13S	Compliance	R1	01/12/2023	Lead, total	0.0190	mg/L
OR13S	Compliance	R1	01/12/2023	Lithium, total	0.0270	mg/L
OR13S	Compliance	R1	01/12/2023	Mercury, total	0.00014 U	mg/L
OR13S	Compliance	R1	01/12/2023	Molybdenum, total	0.0100	mg/L
OR13S	Compliance	R1	01/12/2023	Oxidation Reduction Potential	-43.0	mV
OR13S	Compliance	R1	01/12/2023	pH (field)	6.8	SU

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR13S	Compliance	R1	01/12/2023	Radium 226 + Radium 228, total	3.63	pCi/L
OR13S	Compliance	R1	01/12/2023	Selenium, total	0.00110	mg/L
OR13S	Compliance	R1	01/12/2023	Specific Conductance @ 25C (field)	2,270	micromhos/cm
OR13S	Compliance	R1	01/12/2023	Sulfate, total	670	mg/L
OR13S	Compliance	R1	01/12/2023	Temperature (Celsius)	10.4	degrees C
OR13S	Compliance	R1	01/12/2023	Thallium, total	0.00038 U	mg/L
OR13S	Compliance	R1	01/12/2023	Total Dissolved Solids	1,700	mg/L
OR13S	Compliance	R1	01/12/2023	Turbidity, field	564	NTU
OR13D	Compliance	R1	01/12/2023	Antimony, total	0.00043 U	mg/L
OR13D	Compliance	R1	01/12/2023	Arsenic, total	0.00410	mg/L
OR13D	Compliance	R1	01/12/2023	Barium, total	0.0340	mg/L
OR13D	Compliance	R1	01/12/2023	Beryllium, total	0.00059 U	mg/L
OR13D	Compliance	R1	01/12/2023	Boron, total	1.80	mg/L
OR13D	Compliance	R1	01/12/2023	Cadmium, total	0.00074 U	mg/L
OR13D	Compliance	R1	01/12/2023	Calcium, total	120	mg/L
OR13D	Compliance	R1	01/12/2023	Chloride, total	47.0	mg/L
OR13D	Compliance	R1	01/12/2023	Chromium, total	0.0028 U	mg/L
OR13D	Compliance	R1	01/12/2023	Cobalt, total	0.00048 U	mg/L
OR13D	Compliance	R1	01/12/2023	Dissolved Oxygen	4.40	mg/L
OR13D	Compliance	R1	01/12/2023	Fluoride, total	0.296	mg/L
OR13D	Compliance	R1	01/12/2023	Lead, total	0.00022 U	mg/L
OR13D	Compliance	R1	01/12/2023	Lithium, total	0.0260	mg/L
OR13D	Compliance	R1	01/12/2023	Mercury, total	0.00014 U	mg/L
OR13D	Compliance	R1	01/12/2023	Molybdenum, total	0.00760	mg/L
OR13D	Compliance	R1	01/12/2023	Oxidation Reduction Potential	219	mV
OR13D	Compliance	R1	01/12/2023	pH (field)	6.7	SU
OR13D	Compliance	R1	01/12/2023	Radium 226 + Radium 228, total	1.37	pCi/L
OR13D	Compliance	R1	01/12/2023	Selenium, total	0.00074 U	mg/L
OR13D	Compliance	R1	01/12/2023	Specific Conductance @ 25C (field)	1,880	micromhos/cm
OR13D	Compliance	R1	01/12/2023	Sulfate, total	290	mg/L
OR13D	Compliance	R1	01/12/2023	Temperature (Celsius)	10.7	degrees C
OR13D	Compliance	R1	01/12/2023	Thallium, total	0.00038 U	mg/L
OR13D	Compliance	R1	01/12/2023	Total Dissolved Solids	1,200	mg/L
OR13D	Compliance	R1	01/12/2023	Turbidity, field	139	NTU
OR14D	Compliance	R1	01/12/2023	Antimony, total	0.00043 U	mg/L
OR14D	Compliance	R1	01/12/2023	Arsenic, total	0.00400	mg/L
OR14D	Compliance	R1	01/12/2023	Barium, total	0.0320	mg/L
OR14D	Compliance	R1	01/12/2023	Beryllium, total	0.00059 U	mg/L
OR14D	Compliance	R1	01/12/2023	Boron, total	21.0	mg/L
OR14D	Compliance	R1	01/12/2023	Cadmium, total	0.00074 U	mg/L
OR14D	Compliance	R1	01/12/2023	Calcium, total	440	mg/L
OR14D	Compliance	R1	01/12/2023	Chloride, total	350	mg/L
OR14D	Compliance	R1	01/12/2023	Chromium, total	0.003 J	mg/L
OR14D	Compliance	R1	01/12/2023	Cobalt, total	0.0018 J	mg/L
OR14D	Compliance	R1	01/12/2023	Dissolved Oxygen	3.90	mg/L
OR14D	Compliance	R1	01/12/2023	Fluoride, total	0.269	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR14D	Compliance	R1	01/12/2023	Lead, total	0.00340	mg/L
OR14D	Compliance	R1	01/12/2023	Lithium, total	0.0240	mg/L
OR14D	Compliance	R1	01/12/2023	Mercury, total	0.00014 U	mg/L
OR14D	Compliance	R1	01/12/2023	Molybdenum, total	0.00620	mg/L
OR14D	Compliance	R1	01/12/2023	Oxidation Reduction Potential	6.00	mV
OR14D	Compliance	R1	01/12/2023	pH (field)	6.8	SU
OR14D	Compliance	R1	01/12/2023	Radium 226 + Radium 228, total	0.429	pCi/L
OR14D	Compliance	R1	01/12/2023	Selenium, total	0.00074 U	mg/L
OR14D	Compliance	R1	01/12/2023	Specific Conductance @ 25C (field)	2,960	micromhos/cm
OR14D	Compliance	R1	01/12/2023	Sulfate, total	800	mg/L
OR14D	Compliance	R1	01/12/2023	Temperature (Celsius)	10.2	degrees C
OR14D	Compliance	R1	01/12/2023	Thallium, total	0.00038 U	mg/L
OR14D	Compliance	R1	01/12/2023	Total Dissolved Solids	2,300	mg/L
OR14D	Compliance	R1	01/12/2023	Turbidity, field	287	NTU
OR19	Compliance	R1	01/12/2023	Antimony, total	0.00043 U	mg/L
OR19	Compliance	R1	01/12/2023	Arsenic, total	0.00240	mg/L
OR19	Compliance	R1	01/12/2023	Barium, total	0.0230	mg/L
OR19	Compliance	R1	01/12/2023	Beryllium, total	0.00059 U	mg/L
OR19	Compliance	R1	01/12/2023	Boron, total	16.0	mg/L
OR19	Compliance	R1	01/12/2023	Cadmium, total	0.00074 U	mg/L
OR19	Compliance	R1	01/12/2023	Calcium, total	310	mg/L
OR19	Compliance	R1	01/12/2023	Chloride, total	160	mg/L
OR19	Compliance	R1	01/12/2023	Chromium, total	0.0031 J	mg/L
OR19	Compliance	R1	01/12/2023	Cobalt, total	0.0008 J	mg/L
OR19	Compliance	R1	01/12/2023	Dissolved Oxygen	1.20	mg/L
OR19	Compliance	R1	01/12/2023	Fluoride, total	0.395	mg/L
OR19	Compliance	R1	01/12/2023	Lead, total	0.00120	mg/L
OR19	Compliance	R1	01/12/2023	Lithium, total	0.0220	mg/L
OR19	Compliance	R1	01/12/2023	Mercury, total	0.00014 U	mg/L
OR19	Compliance	R1	01/12/2023	Molybdenum, total	0.00390	mg/L
OR19	Compliance	R1	01/12/2023	Oxidation Reduction Potential	-10.0	mV
OR19	Compliance	R1	01/12/2023	pH (field)	6.8	SU
OR19	Compliance	R1	01/12/2023	Radium 226 + Radium 228, total	1.49	pCi/L
OR19	Compliance	R1	01/12/2023	Selenium, total	0.00074 U	mg/L
OR19	Compliance	R1	01/12/2023	Specific Conductance @ 25C (field)	2,950	micromhos/cm
OR19	Compliance	R1	01/12/2023	Sulfate, total	810	mg/L
OR19	Compliance	R1	01/12/2023	Temperature (Celsius)	11.0	degrees C
OR19	Compliance	R1	01/12/2023	Thallium, total	0.00038 U	mg/L
OR19	Compliance	R1	01/12/2023	Total Dissolved Solids	2,200	mg/L
OR19	Compliance	R1	01/12/2023	Turbidity, field	140	NTU
OR20	Compliance	R1	01/12/2023	Antimony, total	0.00048 J	mg/L
OR20	Compliance	R1	01/12/2023	Arsenic, total	0.00870	mg/L
OR20	Compliance	R1	01/12/2023	Barium, total	0.0410	mg/L
OR20	Compliance	R1	01/12/2023	Beryllium, total	0.00059 U	mg/L
OR20	Compliance	R1	01/12/2023	Boron, total	35.0	mg/L
OR20	Compliance	R1	01/12/2023	Cadmium, total	0.00074 U	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR20	Compliance	R1	01/12/2023	Calcium, total	250	mg/L
OR20	Compliance	R1	01/12/2023	Chloride, total	340	mg/L
OR20	Compliance	R1	01/12/2023	Chromium, total	0.00770	mg/L
OR20	Compliance	R1	01/12/2023	Cobalt, total	0.00280	mg/L
OR20	Compliance	R1	01/12/2023	Dissolved Oxygen	3.10	mg/L
OR20	Compliance	R1	01/12/2023	Fluoride, total	0.499	mg/L
OR20	Compliance	R1	01/12/2023	Lead, total	0.00420	mg/L
OR20	Compliance	R1	01/12/2023	Lithium, total	0.0440	mg/L
OR20	Compliance	R1	01/12/2023	Mercury, total	0.00014 U	mg/L
OR20	Compliance	R1	01/12/2023	Molybdenum, total	0.0380	mg/L
OR20	Compliance	R1	01/12/2023	Oxidation Reduction Potential	-27.0	mV
OR20	Compliance	R1	01/12/2023	pH (field)	7.0	SU
OR20	Compliance	R1	01/12/2023	Radium 226 + Radium 228, total	0.694	pCi/L
OR20	Compliance	R1	01/12/2023	Selenium, total	0.00074 U	mg/L
OR20	Compliance	R1	01/12/2023	Specific Conductance @ 25C (field)	2,640	micromhos/cm
OR20	Compliance	R1	01/12/2023	Sulfate, total	380	mg/L
OR20	Compliance	R1	01/12/2023	Temperature (Celsius)	10.2	degrees C
OR20	Compliance	R1	01/12/2023	Thallium, total	0.00038 U	mg/L
OR20	Compliance	R1	01/12/2023	Total Dissolved Solids	1,700	mg/L
OR20	Compliance	R1	01/12/2023	Turbidity, field	401	NTU

Notes:

C = Celsius

cm = centimeter

mg/L = milligrams per liter

mV = millivolts

NTU = Nephelometric Turbidity Units

pCi/L = picocuries per liter

SU = Standard Units

B = The analyte was found in sample and in associated method blank.

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023**

2023 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
BA06	Background	R2	05/12/2023	Antimony, total	0.00043 U	mg/L
BA06	Background	R2	05/12/2023	Arsenic, total	0.00520	mg/L
BA06	Background	R2	05/12/2023	Barium, total	0.110	mg/L
BA06	Background	R2	05/12/2023	Beryllium, total	0.00059 U	mg/L
BA06	Background	R2	05/12/2023	Boron, total	8.70	mg/L
BA06	Background	R2	05/12/2023	Cadmium, total	0.00074 U	mg/L
BA06	Background	R2	05/12/2023	Calcium, total	340	mg/L
BA06	Background	R2	05/12/2023	Chloride, total	510	mg/L
BA06	Background	R2	05/12/2023	Chromium, total	0.0035 J	mg/L
BA06	Background	R2	05/12/2023	Cobalt, total	0.00950	mg/L
BA06	Background	R2	05/12/2023	Dissolved Oxygen	0.820	mg/L
BA06	Background	R2	05/12/2023	Fluoride, total	0.231 J	mg/L
BA06	Background	R2	05/12/2023	Lead, total	0.00036 J	mg/L
BA06	Background	R2	05/12/2023	Lithium, total	0.0052 J	mg/L
BA06	Background	R2	05/12/2023	Mercury, total	0.00014 U	mg/L
BA06	Background	R2	05/12/2023	Molybdenum, total	0.00120	mg/L
BA06	Background	R2	05/12/2023	Oxidation Reduction Potential	-39.0	mV
BA06	Background	R2	05/12/2023	pH (field)	6.4	SU
BA06	Background	R2	05/12/2023	Radium 226 + Radium 228, total	1.11	pCi/L
BA06	Background	R2	05/12/2023	Selenium, total	0.00074 U	mg/L
BA06	Background	R2	05/12/2023	Specific Conductance @ 25C (field)	2,930	micromhos/cm
BA06	Background	R2	05/12/2023	Sulfate, total	340	mg/L
BA06	Background	R2	05/12/2023	Temperature (Celsius)	15.7	degrees C
BA06	Background	R2	05/12/2023	Thallium, total	0.00038 U	mg/L
BA06	Background	R2	05/12/2023	Total Dissolved Solids	2,200	mg/L
BA06	Background	R2	05/12/2023	Turbidity, field	55.1	NTU
OM16	Background	R2	05/10/2023	Antimony, total	0.00043 U	mg/L
OM16	Background	R2	05/10/2023	Arsenic, total	0.00870	mg/L
OM16	Background	R2	05/10/2023	Barium, total	0.0570	mg/L
OM16	Background	R2	05/10/2023	Beryllium, total	0.00270 J+	mg/L
OM16	Background	R2	05/10/2023	Boron, total	0.0630 J+	mg/L
OM16	Background	R2	05/10/2023	Cadmium, total	0.00310	mg/L
OM16	Background	R2	05/10/2023	Calcium, total	640	mg/L
OM16	Background	R2	05/10/2023	Chloride, total	8.20	mg/L
OM16	Background	R2	05/10/2023	Chromium, total	0.0140	mg/L
OM16	Background	R2	05/10/2023	Cobalt, total	0.00900	mg/L
OM16	Background	R2	05/10/2023	Dissolved Oxygen	1.20	mg/L
OM16	Background	R2	05/10/2023	Fluoride, total	0.149 J	mg/L
OM16	Background	R2	05/10/2023	Lead, total	0.00540	mg/L
OM16	Background	R2	05/10/2023	Lithium, total	0.0400	mg/L
OM16	Background	R2	05/10/2023	Mercury, total	0.00014 U	mg/L
OM16	Background	R2	05/10/2023	Molybdenum, total	0.00500 J+	mg/L
OM16	Background	R2	05/10/2023	Oxidation Reduction Potential	32.0	mV
OM16	Background	R2	05/10/2023	pH (field)	6.5	SU
OM16	Background	R2	05/10/2023	Radium 226 + Radium 228, total	1.34	pCi/L
OM16	Background	R2	05/10/2023	Selenium, total	0.00074 U	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM16	Background	R2	05/10/2023	Specific Conductance @ 25C (field)	3,470	micromhos/cm
OM16	Background	R2	05/10/2023	Sulfate, total	2,300	mg/L
OM16	Background	R2	05/10/2023	Temperature (Celsius)	26.1	degrees C
OM16	Background	R2	05/10/2023	Thallium, total	0.00038 U	mg/L
OM16	Background	R2	05/10/2023	Total Dissolved Solids	4,100 J	mg/L
OM16	Background	R2	05/10/2023	Turbidity, field	1,000	NTU
OM17	Background	R2	05/10/2023	Antimony, total	0.00043 U	mg/L
OM17	Background	R2	05/10/2023	Arsenic, total	0.00250	mg/L
OM17	Background	R2	05/10/2023	Barium, total	0.110	mg/L
OM17	Background	R2	05/10/2023	Beryllium, total	0.001 U	mg/L
OM17	Background	R2	05/10/2023	Boron, total	0.160 J+	mg/L
OM17	Background	R2	05/10/2023	Cadmium, total	0.00074 U	mg/L
OM17	Background	R2	05/10/2023	Calcium, total	160	mg/L
OM17	Background	R2	05/10/2023	Chloride, total	2.90	mg/L
OM17	Background	R2	05/10/2023	Chromium, total	0.0110	mg/L
OM17	Background	R2	05/10/2023	Cobalt, total	0.00480	mg/L
OM17	Background	R2	05/10/2023	Dissolved Oxygen	2.30	mg/L
OM17	Background	R2	05/10/2023	Fluoride, total	0.0969 J	mg/L
OM17	Background	R2	05/10/2023	Lead, total	0.00390	mg/L
OM17	Background	R2	05/10/2023	Lithium, total	0.016 J	mg/L
OM17	Background	R2	05/10/2023	Mercury, total	0.00014 U	mg/L
OM17	Background	R2	05/10/2023	Molybdenum, total	0.00130 J+	mg/L
OM17	Background	R2	05/10/2023	Oxidation Reduction Potential	17.0	mV
OM17	Background	R2	05/10/2023	pH (field)	6.7	SU
OM17	Background	R2	05/10/2023	Radium 226 + Radium 228, total	0.561	pCi/L
OM17	Background	R2	05/10/2023	Selenium, total	0.00074 U	mg/L
OM17	Background	R2	05/10/2023	Specific Conductance @ 25C (field)	923	micromhos/cm
OM17	Background	R2	05/10/2023	Sulfate, total	240	mg/L
OM17	Background	R2	05/10/2023	Temperature (Celsius)	23.8	degrees C
OM17	Background	R2	05/10/2023	Thallium, total	0.00038 U	mg/L
OM17	Background	R2	05/10/2023	Total Dissolved Solids	860 J	mg/L
OM17	Background	R2	05/10/2023	Turbidity, field	375	NTU
OM01	Compliance	R2	05/16/2023	Antimony, total	0.00043 U	mg/L
OM01	Compliance	R2	05/16/2023	Arsenic, total	0.00069 U	mg/L
OM01	Compliance	R2	05/16/2023	Barium, total	0.0190	mg/L
OM01	Compliance	R2	05/16/2023	Beryllium, total	0.001 U	mg/L
OM01	Compliance	R2	05/16/2023	Boron, total	0.210	mg/L
OM01	Compliance	R2	05/16/2023	Cadmium, total	0.00074 U	mg/L
OM01	Compliance	R2	05/16/2023	Calcium, total	690	mg/L
OM01	Compliance	R2	05/16/2023	Chloride, total	29.0	mg/L
OM01	Compliance	R2	05/16/2023	Chromium, total	0.0028 U	mg/L
OM01	Compliance	R2	05/16/2023	Cobalt, total	0.0140	mg/L
OM01	Compliance	R2	05/16/2023	Dissolved Oxygen	6.20	mg/L
OM01	Compliance	R2	05/16/2023	Fluoride, total	0.142 J	mg/L
OM01	Compliance	R2	05/16/2023	Lead, total	0.00039 J	mg/L
OM01	Compliance	R2	05/16/2023	Lithium, total	0.005 U	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM01	Compliance	R2	05/16/2023	Mercury, total	0.00016 J	mg/L
OM01	Compliance	R2	05/16/2023	Molybdenum, total	0.001 U	mg/L
OM01	Compliance	R2	05/16/2023	Oxidation Reduction Potential	129	mV
OM01	Compliance	R2	05/16/2023	pH (field)	6.3	SU
OM01	Compliance	R2	05/16/2023	Radium 226 + Radium 228, total	0.799	pCi/L
OM01	Compliance	R2	05/16/2023	Selenium, total	0.00074 U	mg/L
OM01	Compliance	R2	05/16/2023	Specific Conductance @ 25C (field)	3,350	micromhos/cm
OM01	Compliance	R2	05/16/2023	Sulfate, total	1,900	mg/L
OM01	Compliance	R2	05/16/2023	Temperature (Celsius)	19.0	degrees C
OM01	Compliance	R2	05/16/2023	Thallium, total	0.00038 U	mg/L
OM01	Compliance	R2	05/16/2023	Total Dissolved Solids	3,300 J	mg/L
OM01	Compliance	R2	05/16/2023	Turbidity, field	117	NTU
OM04S	Compliance	R2	05/16/2023	Antimony, total	0.00043 U	mg/L
OM04S	Compliance	R2	05/16/2023	Arsenic, total	0.00069 U	mg/L
OM04S	Compliance	R2	05/16/2023	Barium, total	0.0450	mg/L
OM04S	Compliance	R2	05/16/2023	Beryllium, total	0.001 U	mg/L
OM04S	Compliance	R2	05/16/2023	Boron, total	0.0950 J+	mg/L
OM04S	Compliance	R2	05/16/2023	Cadmium, total	0.00074 U	mg/L
OM04S	Compliance	R2	05/16/2023	Calcium, total	160	mg/L
OM04S	Compliance	R2	05/16/2023	Chloride, total	17.0	mg/L
OM04S	Compliance	R2	05/16/2023	Chromium, total	0.0028 U	mg/L
OM04S	Compliance	R2	05/16/2023	Cobalt, total	0.00390	mg/L
OM04S	Compliance	R2	05/16/2023	Dissolved Oxygen	0.890	mg/L
OM04S	Compliance	R2	05/16/2023	Fluoride, total	0.22 J	mg/L
OM04S	Compliance	R2	05/16/2023	Lead, total	0.00086 J	mg/L
OM04S	Compliance	R2	05/16/2023	Lithium, total	0.005 U	mg/L
OM04S	Compliance	R2	05/16/2023	Mercury, total	0.00014 U	mg/L
OM04S	Compliance	R2	05/16/2023	Molybdenum, total	0.00150 J+	mg/L
OM04S	Compliance	R2	05/16/2023	Oxidation Reduction Potential	81.2	mV
OM04S	Compliance	R2	05/16/2023	pH (field)	6.7	SU
OM04S	Compliance	R2	05/16/2023	Radium 226 + Radium 228, total	1.28	pCi/L
OM04S	Compliance	R2	05/16/2023	Selenium, total	0.00074 U	mg/L
OM04S	Compliance	R2	05/16/2023	Specific Conductance @ 25C (field)	1,193	micromhos/cm
OM04S	Compliance	R2	05/16/2023	Sulfate, total	140	mg/L
OM04S	Compliance	R2	05/16/2023	Temperature (Celsius)	18.3	degrees C
OM04S	Compliance	R2	05/16/2023	Thallium, total	0.00038 U	mg/L
OM04S	Compliance	R2	05/16/2023	Total Dissolved Solids	740 J	mg/L
OM04S	Compliance	R2	05/16/2023	Turbidity, field	194	NTU
OM07	Compliance	R2	05/17/2023	Antimony, total	0.00043 U	mg/L
OM07	Compliance	R2	05/17/2023	Arsenic, total	0.00350	mg/L
OM07	Compliance	R2	05/17/2023	Barium, total	0.370	mg/L
OM07	Compliance	R2	05/17/2023	Beryllium, total	0.00059 U	mg/L
OM07	Compliance	R2	05/17/2023	Boron, total	0.460	mg/L
OM07	Compliance	R2	05/17/2023	Cadmium, total	0.00074 U	mg/L
OM07	Compliance	R2	05/17/2023	Calcium, total	170	mg/L
OM07	Compliance	R2	05/17/2023	Chloride, total	11.0	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM07	Compliance	R2	05/17/2023	Chromium, total	0.00780	mg/L
OM07	Compliance	R2	05/17/2023	Cobalt, total	0.0150	mg/L
OM07	Compliance	R2	05/17/2023	Dissolved Oxygen	1.60	mg/L
OM07	Compliance	R2	05/17/2023	Fluoride, total	0.244 J	mg/L
OM07	Compliance	R2	05/17/2023	Lead, total	0.00750	mg/L
OM07	Compliance	R2	05/17/2023	Lithium, total	0.0066 J	mg/L
OM07	Compliance	R2	05/17/2023	Mercury, total	0.00014 U	mg/L
OM07	Compliance	R2	05/17/2023	Molybdenum, total	0.0110	mg/L
OM07	Compliance	R2	05/17/2023	Oxidation Reduction Potential	114	mV
OM07	Compliance	R2	05/17/2023	pH (field)	6.9	SU
OM07	Compliance	R2	05/17/2023	Radium 226 + Radium 228, total	0.643	pCi/L
OM07	Compliance	R2	05/17/2023	Selenium, total	0.00074 U	mg/L
OM07	Compliance	R2	05/17/2023	Specific Conductance @ 25C (field)	1,080	micromhos/cm
OM07	Compliance	R2	05/17/2023	Sulfate, total	190	mg/L
OM07	Compliance	R2	05/17/2023	Temperature (Celsius)	15.9	degrees C
OM07	Compliance	R2	05/17/2023	Thallium, total	0.00038 U	mg/L
OM07	Compliance	R2	05/17/2023	Total Dissolved Solids	700	mg/L
OM07	Compliance	R2	05/17/2023	Turbidity, field	125	NTU
OM12	Compliance	R2	05/15/2023	Antimony, total	0.0017 J	mg/L
OM12	Compliance	R2	05/15/2023	Arsenic, total	0.0260	mg/L
OM12	Compliance	R2	05/15/2023	Barium, total	0.280	mg/L
OM12	Compliance	R2	05/15/2023	Beryllium, total	0.00059 U	mg/L
OM12	Compliance	R2	05/15/2023	Boron, total	0.0930 J+	mg/L
OM12	Compliance	R2	05/15/2023	Cadmium, total	0.00074 U	mg/L
OM12	Compliance	R2	05/15/2023	Calcium, total	310	mg/L
OM12	Compliance	R2	05/15/2023	Chloride, total	4.8 U	mg/L
OM12	Compliance	R2	05/15/2023	Chromium, total	0.00870	mg/L
OM12	Compliance	R2	05/15/2023	Cobalt, total	0.00320	mg/L
OM12	Compliance	R2	05/15/2023	Dissolved Oxygen	0.850	mg/L
OM12	Compliance	R2	05/15/2023	Fluoride, total	0.215 J	mg/L
OM12	Compliance	R2	05/15/2023	Lead, total	0.00410	mg/L
OM12	Compliance	R2	05/15/2023	Lithium, total	0.005 U	mg/L
OM12	Compliance	R2	05/15/2023	Mercury, total	0.00014 U	mg/L
OM12	Compliance	R2	05/15/2023	Molybdenum, total	0.00390 J+	mg/L
OM12	Compliance	R2	05/15/2023	Oxidation Reduction Potential	-56.5	mV
OM12	Compliance	R2	05/15/2023	pH (field)	6.7	SU
OM12	Compliance	R2	05/15/2023	Radium 226 + Radium 228, total	1.69	pCi/L
OM12	Compliance	R2	05/15/2023	Selenium, total	0.00074 U	mg/L
OM12	Compliance	R2	05/15/2023	Specific Conductance @ 25C (field)	2,034	micromhos/cm
OM12	Compliance	R2	05/15/2023	Sulfate, total	430	mg/L
OM12	Compliance	R2	05/15/2023	Temperature (Celsius)	16.5	degrees C
OM12	Compliance	R2	05/15/2023	Thallium, total	0.00038 U	mg/L
OM12	Compliance	R2	05/15/2023	Total Dissolved Solids	1,500	mg/L
OM12	Compliance	R2	05/15/2023	Turbidity, field	186	NTU
OM21	Compliance	R2	05/15/2023	Antimony, total	0.00043 U	mg/L
OM21	Compliance	R2	05/15/2023	Arsenic, total	0.00270	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM21	Compliance	R2	05/15/2023	Barium, total	0.0210 J+	mg/L
OM21	Compliance	R2	05/15/2023	Beryllium, total	0.00059 U	mg/L
OM21	Compliance	R2	05/15/2023	Boron, total	11.0	mg/L
OM21	Compliance	R2	05/15/2023	Cadmium, total	0.00074 U	mg/L
OM21	Compliance	R2	05/15/2023	Calcium, total	430	mg/L
OM21	Compliance	R2	05/15/2023	Chloride, total	220	mg/L
OM21	Compliance	R2	05/15/2023	Chromium, total	0.0035 J	mg/L
OM21	Compliance	R2	05/15/2023	Cobalt, total	0.00048 U	mg/L
OM21	Compliance	R2	05/15/2023	Dissolved Oxygen	1.70	mg/L
OM21	Compliance	R2	05/15/2023	Fluoride, total	0.238 J	mg/L
OM21	Compliance	R2	05/15/2023	Lead, total	0.00043 J	mg/L
OM21	Compliance	R2	05/15/2023	Lithium, total	0.0320	mg/L
OM21	Compliance	R2	05/15/2023	Mercury, total	0.00014 U	mg/L
OM21	Compliance	R2	05/15/2023	Molybdenum, total	0.00160 J+	mg/L
OM21	Compliance	R2	05/15/2023	Oxidation Reduction Potential	-29.0	mV
OM21	Compliance	R2	05/15/2023	pH (field)	6.5	SU
OM21	Compliance	R2	05/15/2023	Radium 226 + Radium 228, total	1.53	pCi/L
OM21	Compliance	R2	05/15/2023	Selenium, total	0.00074 U	mg/L
OM21	Compliance	R2	05/15/2023	Specific Conductance @ 25C (field)	3,620	micromhos/cm
OM21	Compliance	R2	05/15/2023	Sulfate, total	1,200	mg/L
OM21	Compliance	R2	05/15/2023	Temperature (Celsius)	13.6	degrees C
OM21	Compliance	R2	05/15/2023	Thallium, total	0.00038 U	mg/L
OM21	Compliance	R2	05/15/2023	Total Dissolved Solids	2,800	mg/L
OM21	Compliance	R2	05/15/2023	Turbidity, field	118	NTU
OM22D	Compliance	R2	05/17/2023	Antimony, total	0.00069 J	mg/L
OM22D	Compliance	R2	05/17/2023	Arsenic, total	0.0150	mg/L
OM22D	Compliance	R2	05/17/2023	Barium, total	0.240	mg/L
OM22D	Compliance	R2	05/17/2023	Beryllium, total	0.012 U	mg/L
OM22D	Compliance	R2	05/17/2023	Boron, total	55.0	mg/L
OM22D	Compliance	R2	05/17/2023	Cadmium, total	0.00074 U	mg/L
OM22D	Compliance	R2	05/17/2023	Calcium, total	610	mg/L
OM22D	Compliance	R2	05/17/2023	Chloride, total	890	mg/L
OM22D	Compliance	R2	05/17/2023	Chromium, total	0.0390	mg/L
OM22D	Compliance	R2	05/17/2023	Cobalt, total	0.0220	mg/L
OM22D	Compliance	R2	05/17/2023	Dissolved Oxygen	1.00	mg/L
OM22D	Compliance	R2	05/17/2023	Fluoride, total	0.2 J	mg/L
OM22D	Compliance	R2	05/17/2023	Lead, total	0.0170	mg/L
OM22D	Compliance	R2	05/17/2023	Lithium, total	0.0700	mg/L
OM22D	Compliance	R2	05/17/2023	Mercury, total	0.00014 U	mg/L
OM22D	Compliance	R2	05/17/2023	Molybdenum, total	0.100	mg/L
OM22D	Compliance	R2	05/17/2023	Oxidation Reduction Potential	33.0	mV
OM22D	Compliance	R2	05/17/2023	pH (field)	6.7	SU
OM22D	Compliance	R2	05/17/2023	Radium 226 + Radium 228, total	1.54	pCi/L
OM22D	Compliance	R2	05/17/2023	Selenium, total	0.00096 J	mg/L
OM22D	Compliance	R2	05/17/2023	Specific Conductance @ 25C (field)	3,600	micromhos/cm
OM22D	Compliance	R2	05/17/2023	Sulfate, total	760	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM22D	Compliance	R2	05/17/2023	Temperature (Celsius)	14.5	degrees C
OM22D	Compliance	R2	05/17/2023	Thallium, total	0.00038 U	mg/L
OM22D	Compliance	R2	05/17/2023	Total Dissolved Solids	3,300	mg/L
OM22D	Compliance	R2	05/17/2023	Turbidity, field	1,000	NTU
OM23D	Compliance	R2	05/15/2023	Antimony, total	0.0013 J	mg/L
OM23D	Compliance	R2	05/15/2023	Arsenic, total	0.00180	mg/L
OM23D	Compliance	R2	05/15/2023	Barium, total	0.0300 J+	mg/L
OM23D	Compliance	R2	05/15/2023	Beryllium, total	0.00059 U	mg/L
OM23D	Compliance	R2	05/15/2023	Boron, total	1.90	mg/L
OM23D	Compliance	R2	05/15/2023	Cadmium, total	0.00074 U	mg/L
OM23D	Compliance	R2	05/15/2023	Calcium, total	170	mg/L
OM23D	Compliance	R2	05/15/2023	Chloride, total	24.0	mg/L
OM23D	Compliance	R2	05/15/2023	Chromium, total	0.0036 J	mg/L
OM23D	Compliance	R2	05/15/2023	Cobalt, total	0.00098 J	mg/L
OM23D	Compliance	R2	05/15/2023	Dissolved Oxygen	2.20	mg/L
OM23D	Compliance	R2	05/15/2023	Fluoride, total	0.196 J	mg/L
OM23D	Compliance	R2	05/15/2023	Lead, total	0.00100	mg/L
OM23D	Compliance	R2	05/15/2023	Lithium, total	0.0360	mg/L
OM23D	Compliance	R2	05/15/2023	Mercury, total	0.00014 U	mg/L
OM23D	Compliance	R2	05/15/2023	Molybdenum, total	0.00240 J+	mg/L
OM23D	Compliance	R2	05/15/2023	Oxidation Reduction Potential	-25.0	mV
OM23D	Compliance	R2	05/15/2023	pH (field)	7.1	SU
OM23D	Compliance	R2	05/15/2023	Radium 226 + Radium 228, total	0.174	pCi/L
OM23D	Compliance	R2	05/15/2023	Selenium, total	0.00074 U	mg/L
OM23D	Compliance	R2	05/15/2023	Specific Conductance @ 25C (field)	1,670	micromhos/cm
OM23D	Compliance	R2	05/15/2023	Sulfate, total	380	mg/L
OM23D	Compliance	R2	05/15/2023	Temperature (Celsius)	13.1	degrees C
OM23D	Compliance	R2	05/15/2023	Thallium, total	0.00038 U	mg/L
OM23D	Compliance	R2	05/15/2023	Total Dissolved Solids	1,200	mg/L
OM23D	Compliance	R2	05/15/2023	Turbidity, field	75.3	NTU
OM24D	Compliance	R2	05/16/2023	Antimony, total	0.00043 U	mg/L
OM24D	Compliance	R2	05/16/2023	Arsenic, total	0.0120	mg/L
OM24D	Compliance	R2	05/16/2023	Barium, total	0.0200	mg/L
OM24D	Compliance	R2	05/16/2023	Beryllium, total	0.001 U	mg/L
OM24D	Compliance	R2	05/16/2023	Boron, total	22.0	mg/L
OM24D	Compliance	R2	05/16/2023	Cadmium, total	0.00074 U	mg/L
OM24D	Compliance	R2	05/16/2023	Calcium, total	410	mg/L
OM24D	Compliance	R2	05/16/2023	Chloride, total	370	mg/L
OM24D	Compliance	R2	05/16/2023	Chromium, total	0.0028 J	mg/L
OM24D	Compliance	R2	05/16/2023	Cobalt, total	0.00048 U	mg/L
OM24D	Compliance	R2	05/16/2023	Dissolved Oxygen	1.20	mg/L
OM24D	Compliance	R2	05/16/2023	Fluoride, total	0.354	mg/L
OM24D	Compliance	R2	05/16/2023	Lead, total	0.00082 J	mg/L
OM24D	Compliance	R2	05/16/2023	Lithium, total	0.0094 J	mg/L
OM24D	Compliance	R2	05/16/2023	Mercury, total	0.00014 U	mg/L
OM24D	Compliance	R2	05/16/2023	Molybdenum, total	0.00570 J+	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM24D	Compliance	R2	05/16/2023	Oxidation Reduction Potential	-17.0	mV
OM24D	Compliance	R2	05/16/2023	pH (field)	6.8	SU
OM24D	Compliance	R2	05/16/2023	Radium 226 + Radium 228, total	0.290	pCi/L
OM24D	Compliance	R2	05/16/2023	Selenium, total	0.00074 U	mg/L
OM24D	Compliance	R2	05/16/2023	Specific Conductance @ 25C (field)	3,005	micromhos/cm
OM24D	Compliance	R2	05/16/2023	Sulfate, total	830	mg/L
OM24D	Compliance	R2	05/16/2023	Temperature (Celsius)	19.1	degrees C
OM24D	Compliance	R2	05/16/2023	Thallium, total	0.00038 U	mg/L
OM24D	Compliance	R2	05/16/2023	Total Dissolved Solids	2,300 J	mg/L
OM24D	Compliance	R2	05/16/2023	Turbidity, field	639	NTU
OM25S	Compliance	R2	05/15/2023	Antimony, total	0.0013 J	mg/L
OM25S	Compliance	R2	05/15/2023	Arsenic, total	0.0450	mg/L
OM25S	Compliance	R2	05/15/2023	Barium, total	0.400	mg/L
OM25S	Compliance	R2	05/15/2023	Beryllium, total	0.00450	mg/L
OM25S	Compliance	R2	05/15/2023	Boron, total	28.0	mg/L
OM25S	Compliance	R2	05/15/2023	Cadmium, total	0.00074 U	mg/L
OM25S	Compliance	R2	05/15/2023	Calcium, total	460	mg/L
OM25S	Compliance	R2	05/15/2023	Chloride, total	560	mg/L
OM25S	Compliance	R2	05/15/2023	Chromium, total	0.130	mg/L
OM25S	Compliance	R2	05/15/2023	Cobalt, total	0.0780	mg/L
OM25S	Compliance	R2	05/15/2023	Dissolved Oxygen	5.30	mg/L
OM25S	Compliance	R2	05/15/2023	Fluoride, total	0.378	mg/L
OM25S	Compliance	R2	05/15/2023	Lead, total	0.0820	mg/L
OM25S	Compliance	R2	05/15/2023	Lithium, total	0.180	mg/L
OM25S	Compliance	R2	05/15/2023	Mercury, total	0.00015 J	mg/L
OM25S	Compliance	R2	05/15/2023	Molybdenum, total	0.00800 J+	mg/L
OM25S	Compliance	R2	05/15/2023	Oxidation Reduction Potential	2.00	mV
OM25S	Compliance	R2	05/15/2023	pH (field)	6.9	SU
OM25S	Compliance	R2	05/15/2023	Radium 226 + Radium 228, total	27.8	pCi/L
OM25S	Compliance	R2	05/15/2023	Selenium, total	0.00400	mg/L
OM25S	Compliance	R2	05/15/2023	Specific Conductance @ 25C (field)	3,280	micromhos/cm
OM25S	Compliance	R2	05/15/2023	Sulfate, total	690	mg/L
OM25S	Compliance	R2	05/15/2023	Temperature (Celsius)	13.5	degrees C
OM25S	Compliance	R2	05/15/2023	Thallium, total	0.00052 J	mg/L
OM25S	Compliance	R2	05/15/2023	Total Dissolved Solids	2,700	mg/L
OM25S	Compliance	R2	05/15/2023	Turbidity, field	726	NTU
OR02	Compliance	R2	05/16/2023	Antimony, total	0.00058 J	mg/L
OR02	Compliance	R2	05/16/2023	Arsenic, total	0.0270	mg/L
OR02	Compliance	R2	05/16/2023	Barium, total	0.110	mg/L
OR02	Compliance	R2	05/16/2023	Beryllium, total	0.001 U	mg/L
OR02	Compliance	R2	05/16/2023	Boron, total	4.90	mg/L
OR02	Compliance	R2	05/16/2023	Cadmium, total	0.00074 U	mg/L
OR02	Compliance	R2	05/16/2023	Calcium, total	240	mg/L
OR02	Compliance	R2	05/16/2023	Chloride, total	210	mg/L
OR02	Compliance	R2	05/16/2023	Chromium, total	0.0140	mg/L
OR02	Compliance	R2	05/16/2023	Cobalt, total	0.0100	mg/L

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR02	Compliance	R2	05/16/2023	Dissolved Oxygen	8.40	mg/L
OR02	Compliance	R2	05/16/2023	Fluoride, total	0.198 J	mg/L
OR02	Compliance	R2	05/16/2023	Lead, total	0.0160	mg/L
OR02	Compliance	R2	05/16/2023	Lithium, total	0.015 J	mg/L
OR02	Compliance	R2	05/16/2023	Mercury, total	0.00014 U	mg/L
OR02	Compliance	R2	05/16/2023	Molybdenum, total	0.00720 J+	mg/L
OR02	Compliance	R2	05/16/2023	Oxidation Reduction Potential	-17.0	mV
OR02	Compliance	R2	05/16/2023	pH (field)	6.6	SU
OR02	Compliance	R2	05/16/2023	Radium 226 + Radium 228, total	1.68	pCi/L
OR02	Compliance	R2	05/16/2023	Selenium, total	0.00110	mg/L
OR02	Compliance	R2	05/16/2023	Specific Conductance @ 25C (field)	2,000	micromhos/cm
OR02	Compliance	R2	05/16/2023	Sulfate, total	270	mg/L
OR02	Compliance	R2	05/16/2023	Temperature (Celsius)	17.3	degrees C
OR02	Compliance	R2	05/16/2023	Thallium, total	0.00038 U	mg/L
OR02	Compliance	R2	05/16/2023	Total Dissolved Solids	1,300 J	mg/L
OR02	Compliance	R2	05/16/2023	Turbidity, field	1,000	NTU
OR03D	Compliance	R2	05/16/2023	Antimony, total	0.00043 U	mg/L
OR03D	Compliance	R2	05/16/2023	Arsenic, total	0.00240 J+	mg/L
OR03D	Compliance	R2	05/16/2023	Barium, total	0.0490	mg/L
OR03D	Compliance	R2	05/16/2023	Beryllium, total	0.001 U	mg/L
OR03D	Compliance	R2	05/16/2023	Boron, total	19.0	mg/L
OR03D	Compliance	R2	05/16/2023	Cadmium, total	0.00074 U	mg/L
OR03D	Compliance	R2	05/16/2023	Calcium, total	310	mg/L
OR03D	Compliance	R2	05/16/2023	Chloride, total	450	mg/L
OR03D	Compliance	R2	05/16/2023	Chromium, total	0.0028 U	mg/L
OR03D	Compliance	R2	05/16/2023	Cobalt, total	0.00210	mg/L
OR03D	Compliance	R2	05/16/2023	Dissolved Oxygen	2.00	mg/L
OR03D	Compliance	R2	05/16/2023	Fluoride, total	0.270	mg/L
OR03D	Compliance	R2	05/16/2023	Lead, total	0.00120	mg/L
OR03D	Compliance	R2	05/16/2023	Lithium, total	0.0300	mg/L
OR03D	Compliance	R2	05/16/2023	Mercury, total	0.00014 U	mg/L
OR03D	Compliance	R2	05/16/2023	Molybdenum, total	0.00390 J+	mg/L
OR03D	Compliance	R2	05/16/2023	Oxidation Reduction Potential	-13.0	mV
OR03D	Compliance	R2	05/16/2023	pH (field)	6.7	SU
OR03D	Compliance	R2	05/16/2023	Radium 226 + Radium 228, total	1.21	pCi/L
OR03D	Compliance	R2	05/16/2023	Selenium, total	0.00074 U	mg/L
OR03D	Compliance	R2	05/16/2023	Specific Conductance @ 25C (field)	3,070	micromhos/cm
OR03D	Compliance	R2	05/16/2023	Sulfate, total	420	mg/L
OR03D	Compliance	R2	05/16/2023	Temperature (Celsius)	17.0	degrees C
OR03D	Compliance	R2	05/16/2023	Thallium, total	0.00038 U	mg/L
OR03D	Compliance	R2	05/16/2023	Total Dissolved Solids	2,900 J	mg/L
OR03D	Compliance	R2	05/16/2023	Turbidity, field	41.0	NTU
OR04D	Compliance	R2	05/16/2023	Antimony, total	0.00043 U	mg/L
OR04D	Compliance	R2	05/16/2023	Arsenic, total	0.00280 J+	mg/L
OR04D	Compliance	R2	05/16/2023	Barium, total	0.0390	mg/L
OR04D	Compliance	R2	05/16/2023	Beryllium, total	0.001 U	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR04D	Compliance	R2	05/16/2023	Boron, total	92.0	mg/L
OR04D	Compliance	R2	05/16/2023	Cadmium, total	0.00074 U	mg/L
OR04D	Compliance	R2	05/16/2023	Calcium, total	730	mg/L
OR04D	Compliance	R2	05/16/2023	Chloride, total	1,100	mg/L
OR04D	Compliance	R2	05/16/2023	Chromium, total	0.00490	mg/L
OR04D	Compliance	R2	05/16/2023	Cobalt, total	0.0015 J	mg/L
OR04D	Compliance	R2	05/16/2023	Dissolved Oxygen	1.10	mg/L
OR04D	Compliance	R2	05/16/2023	Fluoride, total	0.233 J	mg/L
OR04D	Compliance	R2	05/16/2023	Lead, total	0.00140	mg/L
OR04D	Compliance	R2	05/16/2023	Lithium, total	0.0590	mg/L
OR04D	Compliance	R2	05/16/2023	Mercury, total	0.00014 U	mg/L
OR04D	Compliance	R2	05/16/2023	Molybdenum, total	0.00450 J+	mg/L
OR04D	Compliance	R2	05/16/2023	Oxidation Reduction Potential	-15.4	mV
OR04D	Compliance	R2	05/16/2023	pH (field)	6.6	SU
OR04D	Compliance	R2	05/16/2023	Radium 226 + Radium 228, total	2.39	pCi/L
OR04D	Compliance	R2	05/16/2023	Selenium, total	0.00074 U	mg/L
OR04D	Compliance	R2	05/16/2023	Specific Conductance @ 25C (field)	5,865	micromhos/cm
OR04D	Compliance	R2	05/16/2023	Sulfate, total	1,100	mg/L
OR04D	Compliance	R2	05/16/2023	Temperature (Celsius)	17.0	degrees C
OR04D	Compliance	R2	05/16/2023	Thallium, total	0.00038 U	mg/L
OR04D	Compliance	R2	05/16/2023	Total Dissolved Solids	4,200 J	mg/L
OR04D	Compliance	R2	05/16/2023	Turbidity, field	221	NTU
OR06A	Compliance	R2	05/17/2023	Antimony, total	0.00043 U	mg/L
OR06A	Compliance	R2	05/17/2023	Arsenic, total	0.00930	mg/L
OR06A	Compliance	R2	05/17/2023	Barium, total	0.0590	mg/L
OR06A	Compliance	R2	05/17/2023	Beryllium, total	0.00059 U	mg/L
OR06A	Compliance	R2	05/17/2023	Boron, total	67.0	mg/L
OR06A	Compliance	R2	05/17/2023	Cadmium, total	0.00074 U	mg/L
OR06A	Compliance	R2	05/17/2023	Calcium, total	510	mg/L
OR06A	Compliance	R2	05/17/2023	Chloride, total	590	mg/L
OR06A	Compliance	R2	05/17/2023	Chromium, total	0.00540	mg/L
OR06A	Compliance	R2	05/17/2023	Cobalt, total	0.00330	mg/L
OR06A	Compliance	R2	05/17/2023	Dissolved Oxygen	1.10	mg/L
OR06A	Compliance	R2	05/17/2023	Fluoride, total	0.134 J	mg/L
OR06A	Compliance	R2	05/17/2023	Lead, total	0.00210	mg/L
OR06A	Compliance	R2	05/17/2023	Lithium, total	0.0087 J	mg/L
OR06A	Compliance	R2	05/17/2023	Mercury, total	0.00014 U	mg/L
OR06A	Compliance	R2	05/17/2023	Molybdenum, total	0.0660	mg/L
OR06A	Compliance	R2	05/17/2023	Oxidation Reduction Potential	-1.00	mV
OR06A	Compliance	R2	05/17/2023	pH (field)	6.6	SU
OR06A	Compliance	R2	05/17/2023	Radium 226 + Radium 228, total	1.34	pCi/L
OR06A	Compliance	R2	05/17/2023	Selenium, total	0.00074 U	mg/L
OR06A	Compliance	R2	05/17/2023	Specific Conductance @ 25C (field)	2,510	micromhos/cm
OR06A	Compliance	R2	05/17/2023	Sulfate, total	700	mg/L
OR06A	Compliance	R2	05/17/2023	Temperature (Celsius)	15.8	degrees C
OR06A	Compliance	R2	05/17/2023	Thallium, total	0.00038 U	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR06A	Compliance	R2	05/17/2023	Total Dissolved Solids	2,700	mg/L
OR06A	Compliance	R2	05/17/2023	Turbidity, field	444	NTU
OR11	Compliance	R2	05/15/2023	Antimony, total	0.00043 U	mg/L
OR11	Compliance	R2	05/15/2023	Arsenic, total	0.00260	mg/L
OR11	Compliance	R2	05/15/2023	Barium, total	0.0500 J+	mg/L
OR11	Compliance	R2	05/15/2023	Beryllium, total	0.00059 U	mg/L
OR11	Compliance	R2	05/15/2023	Boron, total	7.20	mg/L
OR11	Compliance	R2	05/15/2023	Cadmium, total	0.00074 U	mg/L
OR11	Compliance	R2	05/15/2023	Calcium, total	150	mg/L
OR11	Compliance	R2	05/15/2023	Chloride, total	63.0	mg/L
OR11	Compliance	R2	05/15/2023	Chromium, total	0.00440	mg/L
OR11	Compliance	R2	05/15/2023	Cobalt, total	0.0014 J	mg/L
OR11	Compliance	R2	05/15/2023	Dissolved Oxygen	1.10	mg/L
OR11	Compliance	R2	05/15/2023	Fluoride, total	0.234 J	mg/L
OR11	Compliance	R2	05/15/2023	Lead, total	0.00180	mg/L
OR11	Compliance	R2	05/15/2023	Lithium, total	0.014 J	mg/L
OR11	Compliance	R2	05/15/2023	Mercury, total	0.00014 U	mg/L
OR11	Compliance	R2	05/15/2023	Molybdenum, total	0.00890 J+	mg/L
OR11	Compliance	R2	05/15/2023	Oxidation Reduction Potential	-11.6	mV
OR11	Compliance	R2	05/15/2023	pH (field)	7.0	SU
OR11	Compliance	R2	05/15/2023	Radium 226 + Radium 228, total	0.494	pCi/L
OR11	Compliance	R2	05/15/2023	Selenium, total	0.00074 U	mg/L
OR11	Compliance	R2	05/15/2023	Specific Conductance @ 25C (field)	1,068	micromhos/cm
OR11	Compliance	R2	05/15/2023	Sulfate, total	150	mg/L
OR11	Compliance	R2	05/15/2023	Temperature (Celsius)	16.2	degrees C
OR11	Compliance	R2	05/15/2023	Thallium, total	0.00038 U	mg/L
OR11	Compliance	R2	05/15/2023	Total Dissolved Solids	790	mg/L
OR11	Compliance	R2	05/15/2023	Turbidity, field	217	NTU
OR13S	Compliance	R2	05/17/2023	Antimony, total	0.00043 U	mg/L
OR13S	Compliance	R2	05/17/2023	Arsenic, total	0.00850	mg/L
OR13S	Compliance	R2	05/17/2023	Barium, total	0.0250	mg/L
OR13S	Compliance	R2	05/17/2023	Beryllium, total	0.00059 U	mg/L
OR13S	Compliance	R2	05/17/2023	Boron, total	3.70	mg/L
OR13S	Compliance	R2	05/17/2023	Cadmium, total	0.00074 U	mg/L
OR13S	Compliance	R2	05/17/2023	Calcium, total	330	mg/L
OR13S	Compliance	R2	05/17/2023	Chloride, total	38.0	mg/L
OR13S	Compliance	R2	05/17/2023	Chromium, total	0.0028 U	mg/L
OR13S	Compliance	R2	05/17/2023	Cobalt, total	0.0011 J	mg/L
OR13S	Compliance	R2	05/17/2023	Dissolved Oxygen	1.90	mg/L
OR13S	Compliance	R2	05/17/2023	Fluoride, total	0.245 J	mg/L
OR13S	Compliance	R2	05/17/2023	Lead, total	0.00022 U	mg/L
OR13S	Compliance	R2	05/17/2023	Lithium, total	0.016 J	mg/L
OR13S	Compliance	R2	05/17/2023	Mercury, total	0.00014 U	mg/L
OR13S	Compliance	R2	05/17/2023	Molybdenum, total	0.00810	mg/L
OR13S	Compliance	R2	05/17/2023	Oxidation Reduction Potential	-23.0	mV
OR13S	Compliance	R2	05/17/2023	pH (field)	6.8	SU

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR13S	Compliance	R2	05/17/2023	Radium 226 + Radium 228, total	0.320	pCi/L
OR13S	Compliance	R2	05/17/2023	Selenium, total	0.00074 U	mg/L
OR13S	Compliance	R2	05/17/2023	Specific Conductance @ 25C (field)	1,960	micromhos/cm
OR13S	Compliance	R2	05/17/2023	Sulfate, total	860	mg/L
OR13S	Compliance	R2	05/17/2023	Temperature (Celsius)	16.3	degrees C
OR13S	Compliance	R2	05/17/2023	Thallium, total	0.00038 U	mg/L
OR13S	Compliance	R2	05/17/2023	Total Dissolved Solids	1,800	mg/L
OR13S	Compliance	R2	05/17/2023	Turbidity, field	56.1	NTU
OR13D	Compliance	R2	05/10/2023	Antimony, total	0.00043 U	mg/L
OR13D	Compliance	R2	05/10/2023	Arsenic, total	0.0280	mg/L
OR13D	Compliance	R2	05/10/2023	Barium, total	0.0650	mg/L
OR13D	Compliance	R2	05/10/2023	Beryllium, total	0.001 U	mg/L
OR13D	Compliance	R2	05/10/2023	Boron, total	1.70	mg/L
OR13D	Compliance	R2	05/10/2023	Cadmium, total	0.00074 U	mg/L
OR13D	Compliance	R2	05/10/2023	Calcium, total	120	mg/L
OR13D	Compliance	R2	05/10/2023	Chloride, total	42.0	mg/L
OR13D	Compliance	R2	05/10/2023	Chromium, total	0.0130	mg/L
OR13D	Compliance	R2	05/10/2023	Cobalt, total	0.00360	mg/L
OR13D	Compliance	R2	05/10/2023	Dissolved Oxygen	1.50	mg/L
OR13D	Compliance	R2	05/10/2023	Fluoride, total	0.269	mg/L
OR13D	Compliance	R2	05/10/2023	Lead, total	0.00570	mg/L
OR13D	Compliance	R2	05/10/2023	Lithium, total	0.0300	mg/L
OR13D	Compliance	R2	05/10/2023	Mercury, total	0.00014 U	mg/L
OR13D	Compliance	R2	05/10/2023	Molybdenum, total	0.00860 J+	mg/L
OR13D	Compliance	R2	05/10/2023	Oxidation Reduction Potential	-60.0	mV
OR13D	Compliance	R2	05/10/2023	pH (field)	6.9	SU
OR13D	Compliance	R2	05/10/2023	Radium 226 + Radium 228, total	0.853	pCi/L
OR13D	Compliance	R2	05/10/2023	Selenium, total	0.00091 J	mg/L
OR13D	Compliance	R2	05/10/2023	Specific Conductance @ 25C (field)	1,610	micromhos/cm
OR13D	Compliance	R2	05/10/2023	Sulfate, total	300	mg/L
OR13D	Compliance	R2	05/10/2023	Temperature (Celsius)	22.2	degrees C
OR13D	Compliance	R2	05/10/2023	Thallium, total	0.00038 U	mg/L
OR13D	Compliance	R2	05/10/2023	Total Dissolved Solids	1,300 J	mg/L
OR13D	Compliance	R2	05/10/2023	Turbidity, field	1,000	NTU
OR14D	Compliance	R2	05/15/2023	Antimony, total	0.00043 U	mg/L
OR14D	Compliance	R2	05/15/2023	Arsenic, total	0.00540	mg/L
OR14D	Compliance	R2	05/15/2023	Barium, total	0.0310 J+	mg/L
OR14D	Compliance	R2	05/15/2023	Beryllium, total	0.00059 U	mg/L
OR14D	Compliance	R2	05/15/2023	Boron, total	20.0	mg/L
OR14D	Compliance	R2	05/15/2023	Cadmium, total	0.00074 U	mg/L
OR14D	Compliance	R2	05/15/2023	Calcium, total	430	mg/L
OR14D	Compliance	R2	05/15/2023	Chloride, total	270	mg/L
OR14D	Compliance	R2	05/15/2023	Chromium, total	0.00490	mg/L
OR14D	Compliance	R2	05/15/2023	Cobalt, total	0.0016 J	mg/L
OR14D	Compliance	R2	05/15/2023	Dissolved Oxygen	5.00	mg/L
OR14D	Compliance	R2	05/15/2023	Fluoride, total	0.219 J	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR14D	Compliance	R2	05/15/2023	Lead, total	0.00320	mg/L
OR14D	Compliance	R2	05/15/2023	Lithium, total	0.0200	mg/L
OR14D	Compliance	R2	05/15/2023	Mercury, total	0.00014 U	mg/L
OR14D	Compliance	R2	05/15/2023	Molybdenum, total	0.00600 J+	mg/L
OR14D	Compliance	R2	05/15/2023	Oxidation Reduction Potential	44.0	mV
OR14D	Compliance	R2	05/15/2023	pH (field)	6.5	SU
OR14D	Compliance	R2	05/15/2023	Radium 226 + Radium 228, total	0.199	pCi/L
OR14D	Compliance	R2	05/15/2023	Selenium, total	0.00074 U	mg/L
OR14D	Compliance	R2	05/15/2023	Specific Conductance @ 25C (field)	2,630	micromhos/cm
OR14D	Compliance	R2	05/15/2023	Sulfate, total	850	mg/L
OR14D	Compliance	R2	05/15/2023	Temperature (Celsius)	15.1	degrees C
OR14D	Compliance	R2	05/15/2023	Thallium, total	0.00038 U	mg/L
OR14D	Compliance	R2	05/15/2023	Total Dissolved Solids	2,200	mg/L
OR14D	Compliance	R2	05/15/2023	Turbidity, field	184	NTU
OR19	Compliance	R2	05/15/2023	Antimony, total	0.00043 U	mg/L
OR19	Compliance	R2	05/15/2023	Arsenic, total	0.00140	mg/L
OR19	Compliance	R2	05/15/2023	Barium, total	0.0250 J+	mg/L
OR19	Compliance	R2	05/15/2023	Beryllium, total	0.00059 U	mg/L
OR19	Compliance	R2	05/15/2023	Boron, total	17.0	mg/L
OR19	Compliance	R2	05/15/2023	Cadmium, total	0.00074 U	mg/L
OR19	Compliance	R2	05/15/2023	Calcium, total	330	mg/L
OR19	Compliance	R2	05/15/2023	Chloride, total	160	mg/L
OR19	Compliance	R2	05/15/2023	Chromium, total	0.0039 J	mg/L
OR19	Compliance	R2	05/15/2023	Cobalt, total	0.00048 U	mg/L
OR19	Compliance	R2	05/15/2023	Dissolved Oxygen	0.780	mg/L
OR19	Compliance	R2	05/15/2023	Fluoride, total	0.451	mg/L
OR19	Compliance	R2	05/15/2023	Lead, total	0.00085 J	mg/L
OR19	Compliance	R2	05/15/2023	Lithium, total	0.0200	mg/L
OR19	Compliance	R2	05/15/2023	Mercury, total	0.00014 U	mg/L
OR19	Compliance	R2	05/15/2023	Molybdenum, total	0.00370 J+	mg/L
OR19	Compliance	R2	05/15/2023	Oxidation Reduction Potential	-35.6	mV
OR19	Compliance	R2	05/15/2023	pH (field)	6.8	SU
OR19	Compliance	R2	05/15/2023	Radium 226 + Radium 228, total	0.849	pCi/L
OR19	Compliance	R2	05/15/2023	Selenium, total	0.00074 U	mg/L
OR19	Compliance	R2	05/15/2023	Specific Conductance @ 25C (field)	2,622	micromhos/cm
OR19	Compliance	R2	05/15/2023	Sulfate, total	940	mg/L
OR19	Compliance	R2	05/15/2023	Temperature (Celsius)	18.2	degrees C
OR19	Compliance	R2	05/15/2023	Thallium, total	0.00038 U	mg/L
OR19	Compliance	R2	05/15/2023	Total Dissolved Solids	2,400	mg/L
OR19	Compliance	R2	05/15/2023	Turbidity, field	356	NTU
OR20	Compliance	R2	05/15/2023	Antimony, total	0.00043 U	mg/L
OR20	Compliance	R2	05/15/2023	Arsenic, total	0.00790	mg/L
OR20	Compliance	R2	05/15/2023	Barium, total	0.0370 J+	mg/L
OR20	Compliance	R2	05/15/2023	Beryllium, total	0.00059 U	mg/L
OR20	Compliance	R2	05/15/2023	Boron, total	41.0	mg/L
OR20	Compliance	R2	05/15/2023	Cadmium, total	0.00074 U	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR20	Compliance	R2	05/15/2023	Calcium, total	250	mg/L
OR20	Compliance	R2	05/15/2023	Chloride, total	370	mg/L
OR20	Compliance	R2	05/15/2023	Chromium, total	0.00640	mg/L
OR20	Compliance	R2	05/15/2023	Cobalt, total	0.0014 J	mg/L
OR20	Compliance	R2	05/15/2023	Dissolved Oxygen	0.990	mg/L
OR20	Compliance	R2	05/15/2023	Fluoride, total	0.416	mg/L
OR20	Compliance	R2	05/15/2023	Lead, total	0.00160	mg/L
OR20	Compliance	R2	05/15/2023	Lithium, total	0.0400	mg/L
OR20	Compliance	R2	05/15/2023	Mercury, total	0.00014 U	mg/L
OR20	Compliance	R2	05/15/2023	Molybdenum, total	0.0390	mg/L
OR20	Compliance	R2	05/15/2023	Oxidation Reduction Potential	1.90	mV
OR20	Compliance	R2	05/15/2023	pH (field)	6.9	SU
OR20	Compliance	R2	05/15/2023	Radium 226 + Radium 228, total	0.127	pCi/L
OR20	Compliance	R2	05/15/2023	Selenium, total	0.00074 U	mg/L
OR20	Compliance	R2	05/15/2023	Specific Conductance @ 25C (field)	2,592	micromhos/cm
OR20	Compliance	R2	05/15/2023	Sulfate, total	430	mg/L
OR20	Compliance	R2	05/15/2023	Temperature (Celsius)	16.5	degrees C
OR20	Compliance	R2	05/15/2023	Thallium, total	0.00038 U	mg/L
OR20	Compliance	R2	05/15/2023	Total Dissolved Solids	1,800	mg/L
OR20	Compliance	R2	05/15/2023	Turbidity, field	170	NTU

Notes:

C = Celsius

cm = centimeter

mg/L = milligrams per liter

mV = millivolts

NTU = Nephelometric Turbidity Units

pCi/L = picocuries per liter

SU = Standard Units

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ = The result is an estimated quantity, but the result may be biased high.

U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
BA06	Background	R3	07/24/2023	Antimony, total	0.00043 U	mg/L
BA06	Background	R3	07/24/2023	Arsenic, total	0.00420	mg/L
BA06	Background	R3	07/24/2023	Barium, total	0.0930	mg/L
BA06	Background	R3	07/24/2023	Beryllium, total	0.00059 U	mg/L
BA06	Background	R3	07/24/2023	Boron, total	9.00	mg/L
BA06	Background	R3	07/24/2023	Cadmium, total	0.00074 U	mg/L
BA06	Background	R3	07/24/2023	Calcium, total	280	mg/L
BA06	Background	R3	07/24/2023	Chloride, total	560	mg/L
BA06	Background	R3	07/24/2023	Chromium, total	0.0028 U	mg/L
BA06	Background	R3	07/24/2023	Cobalt, total	0.00970	mg/L
BA06	Background	R3	07/24/2023	Dissolved Oxygen	2.50	mg/L
BA06	Background	R3	07/24/2023	Fluoride, total	0.264 J+	mg/L
BA06	Background	R3	07/24/2023	Lead, total	0.00022 U	mg/L
BA06	Background	R3	07/24/2023	Lithium, total	0.005 U	mg/L
BA06	Background	R3	07/24/2023	Mercury, total	0.00014 U	mg/L
BA06	Background	R3	07/24/2023	Molybdenum, total	0.00120	mg/L
BA06	Background	R3	07/24/2023	Oxidation Reduction Potential	-40.0	mV
BA06	Background	R3	07/24/2023	pH (field)	6.5	SU
BA06	Background	R3	07/24/2023	Radium 226 + Radium 228, total	0.223	pCi/L
BA06	Background	R3	07/24/2023	Selenium, total	0.00074 U	mg/L
BA06	Background	R3	07/24/2023	Specific Conductance @ 25C (field)	3,140	micromhos/cm
BA06	Background	R3	07/24/2023	Sulfate, total	360	mg/L
BA06	Background	R3	07/24/2023	Temperature (Celsius)	18.7	degrees C
BA06	Background	R3	07/24/2023	Thallium, total	0.00038 U	mg/L
BA06	Background	R3	07/24/2023	Total Dissolved Solids	2,300	mg/L
BA06	Background	R3	07/24/2023	Turbidity, field	5.30	NTU
OM16	Background	R3	07/24/2023	Antimony, total	0.00043 U	mg/L
OM16	Background	R3	07/24/2023	Arsenic, total	0.00140	mg/L
OM16	Background	R3	07/24/2023	Barium, total	0.0160	mg/L
OM16	Background	R3	07/24/2023	Beryllium, total	0.00059 U	mg/L
OM16	Background	R3	07/24/2023	Boron, total	0.0550 J+	mg/L
OM16	Background	R3	07/24/2023	Cadmium, total	0.00074 U	mg/L
OM16	Background	R3	07/24/2023	Calcium, total	480	mg/L
OM16	Background	R3	07/24/2023	Chloride, total	10.0	mg/L
OM16	Background	R3	07/24/2023	Chromium, total	0.0028 U	mg/L
OM16	Background	R3	07/24/2023	Cobalt, total	0.00270	mg/L
OM16	Background	R3	07/24/2023	Dissolved Oxygen	0.450	mg/L
OM16	Background	R3	07/24/2023	Fluoride, total	0.25 UJ	mg/L
OM16	Background	R3	07/24/2023	Lead, total	0.00055 J	mg/L
OM16	Background	R3	07/24/2023	Lithium, total	0.0310	mg/L
OM16	Background	R3	07/24/2023	Mercury, total	0.00014 U	mg/L
OM16	Background	R3	07/24/2023	Molybdenum, total	0.00074 U	mg/L
OM16	Background	R3	07/24/2023	Oxidation Reduction Potential	0.500	mV
OM16	Background	R3	07/24/2023	pH (field)	6.5	SU
OM16	Background	R3	07/24/2023	Radium 226 + Radium 228, total	0.642	pCi/L
OM16	Background	R3	07/24/2023	Selenium, total	0.00074 U	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM16	Background	R3	07/24/2023	Specific Conductance @ 25C (field)	3,986	micromhos/cm
OM16	Background	R3	07/24/2023	Sulfate, total	2,300	mg/L
OM16	Background	R3	07/24/2023	Temperature (Celsius)	17.9	degrees C
OM16	Background	R3	07/24/2023	Thallium, total	0.00038 U	mg/L
OM16	Background	R3	07/24/2023	Total Dissolved Solids	4,200	mg/L
OM16	Background	R3	07/24/2023	Turbidity, field	1,090	NTU
OM17	Background	R3	07/25/2023	Antimony, total	0.00082 UJ	mg/L
OM17	Background	R3	07/25/2023	Arsenic, total	0.0340	mg/L
OM17	Background	R3	07/25/2023	Barium, total	1.30	mg/L
OM17	Background	R3	07/25/2023	Beryllium, total	0.0160	mg/L
OM17	Background	R3	07/25/2023	Boron, total	0.470 J	mg/L
OM17	Background	R3	07/25/2023	Cadmium, total	0.00920	mg/L
OM17	Background	R3	07/25/2023	Calcium, total	290	mg/L
OM17	Background	R3	07/25/2023	Chloride, total	2.80	mg/L
OM17	Background	R3	07/25/2023	Chromium, total	0.440	mg/L
OM17	Background	R3	07/25/2023	Cobalt, total	0.240	mg/L
OM17	Background	R3	07/25/2023	Dissolved Oxygen	0.490	mg/L
OM17	Background	R3	07/25/2023	Fluoride, total	0.25 UJ	mg/L
OM17	Background	R3	07/25/2023	Lead, total	0.320	mg/L
OM17	Background	R3	07/25/2023	Lithium, total	0.400	mg/L
OM17	Background	R3	07/25/2023	Mercury, total	0.000830	mg/L
OM17	Background	R3	07/25/2023	Molybdenum, total	0.00630 J-	mg/L
OM17	Background	R3	07/25/2023	Oxidation Reduction Potential	-28.8	mV
OM17	Background	R3	07/25/2023	pH (field)	6.8	SU
OM17	Background	R3	07/25/2023	Radium 226 + Radium 228, total	17.5	pCi/L
OM17	Background	R3	07/25/2023	Selenium, total	0.0140 J-	mg/L
OM17	Background	R3	07/25/2023	Specific Conductance @ 25C (field)	1,092	micromhos/cm
OM17	Background	R3	07/25/2023	Sulfate, total	350	mg/L
OM17	Background	R3	07/25/2023	Temperature (Celsius)	19.4	degrees C
OM17	Background	R3	07/25/2023	Thallium, total	0.00340	mg/L
OM17	Background	R3	07/25/2023	Total Dissolved Solids	960	mg/L
OM17	Background	R3	07/25/2023	Turbidity, field	1,840	NTU
OM01	Compliance	R3	07/20/2023	Antimony, total	0.00043 U	mg/L
OM01	Compliance	R3	07/20/2023	Arsenic, total	0.00069 U	mg/L
OM01	Compliance	R3	07/20/2023	Barium, total	0.0190 J+	mg/L
OM01	Compliance	R3	07/20/2023	Beryllium, total	0.00059 U	mg/L
OM01	Compliance	R3	07/20/2023	Boron, total	0.210 J+	mg/L
OM01	Compliance	R3	07/20/2023	Cadmium, total	0.00074 U	mg/L
OM01	Compliance	R3	07/20/2023	Calcium, total	530	mg/L
OM01	Compliance	R3	07/20/2023	Chloride, total	36.0	mg/L
OM01	Compliance	R3	07/20/2023	Chromium, total	0.0028 U	mg/L
OM01	Compliance	R3	07/20/2023	Cobalt, total	0.0180	mg/L
OM01	Compliance	R3	07/20/2023	Dissolved Oxygen	1.40	mg/L
OM01	Compliance	R3	07/20/2023	Fluoride, total	0.151 J	mg/L
OM01	Compliance	R3	07/20/2023	Lead, total	0.001 UJ	mg/L
OM01	Compliance	R3	07/20/2023	Lithium, total	0.005 U	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM01	Compliance	R3	07/20/2023	Mercury, total	0.00014 U	mg/L
OM01	Compliance	R3	07/20/2023	Molybdenum, total	0.00074 U	mg/L
OM01	Compliance	R3	07/20/2023	Oxidation Reduction Potential	7.40	mV
OM01	Compliance	R3	07/20/2023	pH (field)	6.3	SU
OM01	Compliance	R3	07/20/2023	Radium 226 + Radium 228, total	0.714	pCi/L
OM01	Compliance	R3	07/20/2023	Selenium, total	0.00074 U	mg/L
OM01	Compliance	R3	07/20/2023	Specific Conductance @ 25C (field)	3,520	micromhos/cm
OM01	Compliance	R3	07/20/2023	Sulfate, total	2,000	mg/L
OM01	Compliance	R3	07/20/2023	Temperature (Celsius)	20.1	degrees C
OM01	Compliance	R3	07/20/2023	Thallium, total	0.00038 U	mg/L
OM01	Compliance	R3	07/20/2023	Total Dissolved Solids	3,700 J	mg/L
OM01	Compliance	R3	07/20/2023	Turbidity, field	89.6	NTU
OM04S	Compliance	R3	07/25/2023	Antimony, total	0.00043 U	mg/L
OM04S	Compliance	R3	07/25/2023	Arsenic, total	0.00069 U	mg/L
OM04S	Compliance	R3	07/25/2023	Barium, total	0.0510	mg/L
OM04S	Compliance	R3	07/25/2023	Beryllium, total	0.00059 U	mg/L
OM04S	Compliance	R3	07/25/2023	Boron, total	0.0640 J+	mg/L
OM04S	Compliance	R3	07/25/2023	Cadmium, total	0.00074 U	mg/L
OM04S	Compliance	R3	07/25/2023	Calcium, total	150	mg/L
OM04S	Compliance	R3	07/25/2023	Chloride, total	16.0	mg/L
OM04S	Compliance	R3	07/25/2023	Chromium, total	0.0028 U	mg/L
OM04S	Compliance	R3	07/25/2023	Cobalt, total	0.00890	mg/L
OM04S	Compliance	R3	07/25/2023	Dissolved Oxygen	0.960	mg/L
OM04S	Compliance	R3	07/25/2023	Fluoride, total	0.25 UJ	mg/L
OM04S	Compliance	R3	07/25/2023	Lead, total	0.00049 J	mg/L
OM04S	Compliance	R3	07/25/2023	Lithium, total	0.005 U	mg/L
OM04S	Compliance	R3	07/25/2023	Mercury, total	0.000220	mg/L
OM04S	Compliance	R3	07/25/2023	Molybdenum, total	0.00130	mg/L
OM04S	Compliance	R3	07/25/2023	Oxidation Reduction Potential	-1.90	mV
OM04S	Compliance	R3	07/25/2023	pH (field)	6.7	SU
OM04S	Compliance	R3	07/25/2023	Radium 226 + Radium 228, total	0.599	pCi/L
OM04S	Compliance	R3	07/25/2023	Selenium, total	0.00074 U	mg/L
OM04S	Compliance	R3	07/25/2023	Specific Conductance @ 25C (field)	1,208	micromhos/cm
OM04S	Compliance	R3	07/25/2023	Sulfate, total	150	mg/L
OM04S	Compliance	R3	07/25/2023	Temperature (Celsius)	21.2	degrees C
OM04S	Compliance	R3	07/25/2023	Thallium, total	0.00038 U	mg/L
OM04S	Compliance	R3	07/25/2023	Total Dissolved Solids	740	mg/L
OM04S	Compliance	R3	07/25/2023	Turbidity, field	122	NTU
OM07	Compliance	R3	07/26/2023	Antimony, total	0.00043 U	mg/L
OM07	Compliance	R3	07/26/2023	Arsenic, total	0.00250	mg/L
OM07	Compliance	R3	07/26/2023	Barium, total	0.100	mg/L
OM07	Compliance	R3	07/26/2023	Beryllium, total	0.00059 U	mg/L
OM07	Compliance	R3	07/26/2023	Boron, total	1.80	mg/L
OM07	Compliance	R3	07/26/2023	Cadmium, total	0.00074 U	mg/L
OM07	Compliance	R3	07/26/2023	Calcium, total	140	mg/L
OM07	Compliance	R3	07/27/2023	Chloride, total	12.0	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM07	Compliance	R3	07/26/2023	Chromium, total	0.0028 U	mg/L
OM07	Compliance	R3	07/26/2023	Cobalt, total	0.00680	mg/L
OM07	Compliance	R3	07/26/2023	Dissolved Oxygen	1.40	mg/L
OM07	Compliance	R3	07/27/2023	Fluoride, total	0.192 J	mg/L
OM07	Compliance	R3	07/26/2023	Lead, total	0.00130	mg/L
OM07	Compliance	R3	07/26/2023	Lithium, total	0.0051 J	mg/L
OM07	Compliance	R3	07/26/2023	Mercury, total	0.00014 U	mg/L
OM07	Compliance	R3	07/26/2023	Molybdenum, total	0.00130	mg/L
OM07	Compliance	R3	07/26/2023	Oxidation Reduction Potential	-22.2	mV
OM07	Compliance	R3	07/26/2023	pH (field)	6.9	SU
OM07	Compliance	R3	07/26/2023	Radium 226 + Radium 228, total	0.945	pCi/L
OM07	Compliance	R3	07/26/2023	Selenium, total	0.00074 U	mg/L
OM07	Compliance	R3	07/26/2023	Specific Conductance @ 25C (field)	1,101	micromhos/cm
OM07	Compliance	R3	07/27/2023	Sulfate, total	180	mg/L
OM07	Compliance	R3	07/26/2023	Temperature (Celsius)	21.8	degrees C
OM07	Compliance	R3	07/26/2023	Thallium, total	0.00038 U	mg/L
OM07	Compliance	R3	08/10/2023	Total Dissolved Solids	880	mg/L
OM07	Compliance	R3	07/26/2023	Turbidity, field	319	NTU
OM12	Compliance	R3	07/27/2023	Antimony, total	0.0021 J	mg/L
OM12	Compliance	R3	07/27/2023	Arsenic, total	0.0100	mg/L
OM12	Compliance	R3	07/27/2023	Barium, total	0.170	mg/L
OM12	Compliance	R3	07/27/2023	Beryllium, total	0.00059 U	mg/L
OM12	Compliance	R3	07/27/2023	Boron, total	0.0920 J+	mg/L
OM12	Compliance	R3	07/27/2023	Cadmium, total	0.00074 U	mg/L
OM12	Compliance	R3	07/27/2023	Calcium, total	300	mg/L
OM12	Compliance	R3	07/27/2023	Chloride, total	3.30	mg/L
OM12	Compliance	R3	07/27/2023	Chromium, total	0.0028 U	mg/L
OM12	Compliance	R3	07/27/2023	Cobalt, total	0.00087 J	mg/L
OM12	Compliance	R3	07/27/2023	Dissolved Oxygen	2.40	mg/L
OM12	Compliance	R3	07/27/2023	Fluoride, total	0.257	mg/L
OM12	Compliance	R3	07/27/2023	Lead, total	0.00150	mg/L
OM12	Compliance	R3	07/27/2023	Lithium, total	0.005 U	mg/L
OM12	Compliance	R3	07/27/2023	Mercury, total	0.00018 J	mg/L
OM12	Compliance	R3	07/27/2023	Molybdenum, total	0.00190	mg/L
OM12	Compliance	R3	07/27/2023	Oxidation Reduction Potential	-87.6	mV
OM12	Compliance	R3	07/27/2023	pH (field)	7.3	SU
OM12	Compliance	R3	07/27/2023	Radium 226 + Radium 228, total	0.943	pCi/L
OM12	Compliance	R3	07/27/2023	Selenium, total	0.00074 U	mg/L
OM12	Compliance	R3	07/27/2023	Specific Conductance @ 25C (field)	1,937	micromhos/cm
OM12	Compliance	R3	07/27/2023	Sulfate, total	460	mg/L
OM12	Compliance	R3	07/27/2023	Temperature (Celsius)	20.0	degrees C
OM12	Compliance	R3	07/27/2023	Thallium, total	0.00038 U	mg/L
OM12	Compliance	R3	07/27/2023	Total Dissolved Solids	1,400	mg/L
OM12	Compliance	R3	07/27/2023	Turbidity, field	66.3	NTU
OM21	Compliance	R3	07/19/2023	Antimony, total	0.00043 U	mg/L
OM21	Compliance	R3	07/19/2023	Arsenic, total	0.00360	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM21	Compliance	R3	07/19/2023	Barium, total	0.0620 J+	mg/L
OM21	Compliance	R3	07/19/2023	Beryllium, total	0.00059 U	mg/L
OM21	Compliance	R3	07/19/2023	Boron, total	9.80	mg/L
OM21	Compliance	R3	07/19/2023	Cadmium, total	0.00074 U	mg/L
OM21	Compliance	R3	07/19/2023	Calcium, total	300	mg/L
OM21	Compliance	R3	07/19/2023	Chloride, total	270	mg/L
OM21	Compliance	R3	07/19/2023	Chromium, total	0.0170	mg/L
OM21	Compliance	R3	07/19/2023	Cobalt, total	0.00660	mg/L
OM21	Compliance	R3	07/19/2023	Dissolved Oxygen	2.70	mg/L
OM21	Compliance	R3	07/19/2023	Fluoride, total	0.04 U	mg/L
OM21	Compliance	R3	07/19/2023	Lead, total	0.00690	mg/L
OM21	Compliance	R3	07/19/2023	Lithium, total	0.0450	mg/L
OM21	Compliance	R3	07/19/2023	Mercury, total	0.00014 J	mg/L
OM21	Compliance	R3	07/19/2023	Molybdenum, total	0.00330	mg/L
OM21	Compliance	R3	07/19/2023	Oxidation Reduction Potential	-47.6	mV
OM21	Compliance	R3	07/19/2023	pH (field)	6.5	SU
OM21	Compliance	R3	07/19/2023	Radium 226 + Radium 228, total	2.96	pCi/L
OM21	Compliance	R3	07/19/2023	Selenium, total	0.00074 U	mg/L
OM21	Compliance	R3	07/19/2023	Specific Conductance @ 25C (field)	3,344	micromhos/cm
OM21	Compliance	R3	07/19/2023	Sulfate, total	1,200	mg/L
OM21	Compliance	R3	07/19/2023	Temperature (Celsius)	18.8	degrees C
OM21	Compliance	R3	07/19/2023	Thallium, total	0.00038 U	mg/L
OM21	Compliance	R3	07/19/2023	Total Dissolved Solids	2,700	mg/L
OM21	Compliance	R3	07/19/2023	Turbidity, field	1,890	NTU
OM22D	Compliance	R3	07/19/2023	Antimony, total	0.00044 J	mg/L
OM22D	Compliance	R3	07/19/2023	Arsenic, total	0.0120	mg/L
OM22D	Compliance	R3	07/19/2023	Barium, total	0.280	mg/L
OM22D	Compliance	R3	07/19/2023	Beryllium, total	0.00170	mg/L
OM22D	Compliance	R3	07/19/2023	Boron, total	52.0	mg/L
OM22D	Compliance	R3	07/19/2023	Cadmium, total	0.00074 U	mg/L
OM22D	Compliance	R3	07/19/2023	Calcium, total	490	mg/L
OM22D	Compliance	R3	07/19/2023	Chloride, total	940	mg/L
OM22D	Compliance	R3	07/19/2023	Chromium, total	0.0470	mg/L
OM22D	Compliance	R3	07/19/2023	Cobalt, total	0.0270	mg/L
OM22D	Compliance	R3	07/19/2023	Dissolved Oxygen	2.60	mg/L
OM22D	Compliance	R3	07/19/2023	Fluoride, total	0.213 J	mg/L
OM22D	Compliance	R3	07/19/2023	Lead, total	0.0160	mg/L
OM22D	Compliance	R3	07/19/2023	Lithium, total	0.0800	mg/L
OM22D	Compliance	R3	07/19/2023	Mercury, total	0.00014 U	mg/L
OM22D	Compliance	R3	07/19/2023	Molybdenum, total	0.0930	mg/L
OM22D	Compliance	R3	07/19/2023	Oxidation Reduction Potential	2.20	mV
OM22D	Compliance	R3	07/19/2023	pH (field)	6.7	SU
OM22D	Compliance	R3	07/19/2023	Radium 226 + Radium 228, total	5.51	pCi/L
OM22D	Compliance	R3	07/19/2023	Selenium, total	0.00120	mg/L
OM22D	Compliance	R3	07/19/2023	Specific Conductance @ 25C (field)	3,907	micromhos/cm
OM22D	Compliance	R3	07/19/2023	Sulfate, total	800	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM22D	Compliance	R3	07/19/2023	Temperature (Celsius)	18.7	degrees C
OM22D	Compliance	R3	07/19/2023	Thallium, total	0.00038 U	mg/L
OM22D	Compliance	R3	07/19/2023	Total Dissolved Solids	4,300	mg/L
OM22D	Compliance	R3	07/19/2023	Turbidity, field	6,540	NTU
OM23D	Compliance	R3	07/27/2023	Antimony, total	0.00065 J	mg/L
OM23D	Compliance	R3	07/27/2023	Arsenic, total	0.00150	mg/L
OM23D	Compliance	R3	07/27/2023	Barium, total	0.0330	mg/L
OM23D	Compliance	R3	07/27/2023	Beryllium, total	0.00059 U	mg/L
OM23D	Compliance	R3	07/27/2023	Boron, total	2.00	mg/L
OM23D	Compliance	R3	07/27/2023	Cadmium, total	0.00074 U	mg/L
OM23D	Compliance	R3	07/27/2023	Calcium, total	170	mg/L
OM23D	Compliance	R3	07/27/2023	Chloride, total	29.0	mg/L
OM23D	Compliance	R3	07/27/2023	Chromium, total	0.0028 U	mg/L
OM23D	Compliance	R3	07/27/2023	Cobalt, total	0.00085 J	mg/L
OM23D	Compliance	R3	07/27/2023	Dissolved Oxygen	8.70	mg/L
OM23D	Compliance	R3	07/27/2023	Fluoride, total	0.284	mg/L
OM23D	Compliance	R3	07/27/2023	Lead, total	0.00083 J	mg/L
OM23D	Compliance	R3	07/27/2023	Lithium, total	0.0330	mg/L
OM23D	Compliance	R3	07/27/2023	Mercury, total	0.000230	mg/L
OM23D	Compliance	R3	07/27/2023	Molybdenum, total	0.00250	mg/L
OM23D	Compliance	R3	07/27/2023	Oxidation Reduction Potential	-20.0	mV
OM23D	Compliance	R3	07/27/2023	pH (field)	6.3	SU
OM23D	Compliance	R3	07/27/2023	Radium 226 + Radium 228, total	0.389	pCi/L
OM23D	Compliance	R3	07/27/2023	Selenium, total	0.00074 U	mg/L
OM23D	Compliance	R3	07/27/2023	Specific Conductance @ 25C (field)	1,610	micromhos/cm
OM23D	Compliance	R3	07/27/2023	Sulfate, total	410	mg/L
OM23D	Compliance	R3	07/27/2023	Temperature (Celsius)	14.3	degrees C
OM23D	Compliance	R3	07/27/2023	Thallium, total	0.00038 U	mg/L
OM23D	Compliance	R3	07/27/2023	Total Dissolved Solids	1,200	mg/L
OM23D	Compliance	R3	07/27/2023	Turbidity, field	113	NTU
OM24D	Compliance	R3	07/27/2023	Antimony, total	0.00043 U	mg/L
OM24D	Compliance	R3	07/27/2023	Arsenic, total	0.00580	mg/L
OM24D	Compliance	R3	07/27/2023	Barium, total	0.0250	mg/L
OM24D	Compliance	R3	07/27/2023	Beryllium, total	0.00059 U	mg/L
OM24D	Compliance	R3	07/27/2023	Boron, total	18.0	mg/L
OM24D	Compliance	R3	07/27/2023	Cadmium, total	0.00074 U	mg/L
OM24D	Compliance	R3	07/27/2023	Calcium, total	420	mg/L
OM24D	Compliance	R3	07/27/2023	Chloride, total	450	mg/L
OM24D	Compliance	R3	07/27/2023	Chromium, total	0.0028 U	mg/L
OM24D	Compliance	R3	07/27/2023	Cobalt, total	0.00072 J	mg/L
OM24D	Compliance	R3	07/27/2023	Dissolved Oxygen	1.90	mg/L
OM24D	Compliance	R3	07/27/2023	Fluoride, total	0.199 J	mg/L
OM24D	Compliance	R3	07/27/2023	Lead, total	0.00190	mg/L
OM24D	Compliance	R3	07/27/2023	Lithium, total	0.0083 J	mg/L
OM24D	Compliance	R3	07/27/2023	Mercury, total	0.0029 U	mg/L
OM24D	Compliance	R3	07/27/2023	Molybdenum, total	0.00530	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM24D	Compliance	R3	07/27/2023	Oxidation Reduction Potential	-61.0	mV
OM24D	Compliance	R3	07/27/2023	pH (field)	6.3	SU
OM24D	Compliance	R3	07/27/2023	Radium 226 + Radium 228, total	1.55	pCi/L
OM24D	Compliance	R3	07/27/2023	Selenium, total	0.00074 U	mg/L
OM24D	Compliance	R3	07/27/2023	Specific Conductance @ 25C (field)	2,640	micromhos/cm
OM24D	Compliance	R3	07/27/2023	Sulfate, total	770	mg/L
OM24D	Compliance	R3	07/27/2023	Temperature (Celsius)	28.8	degrees C
OM24D	Compliance	R3	07/27/2023	Thallium, total	0.00038 U	mg/L
OM24D	Compliance	R3	07/27/2023	Total Dissolved Solids	2,500	mg/L
OM24D	Compliance	R3	07/27/2023	Turbidity, field	710	NTU
OM25S	Compliance	R3	07/26/2023	Antimony, total	0.0007 J	mg/L
OM25S	Compliance	R3	07/26/2023	Arsenic, total	0.0210	mg/L
OM25S	Compliance	R3	07/26/2023	Barium, total	0.390	mg/L
OM25S	Compliance	R3	07/26/2023	Beryllium, total	0.00420	mg/L
OM25S	Compliance	R3	07/26/2023	Boron, total	29.0	mg/L
OM25S	Compliance	R3	07/26/2023	Cadmium, total	0.00074 U	mg/L
OM25S	Compliance	R3	07/26/2023	Calcium, total	460	mg/L
OM25S	Compliance	R3	07/27/2023	Chloride, total	610	mg/L
OM25S	Compliance	R3	07/26/2023	Chromium, total	0.120	mg/L
OM25S	Compliance	R3	07/26/2023	Cobalt, total	0.0780	mg/L
OM25S	Compliance	R3	07/26/2023	Dissolved Oxygen	1.80	mg/L
OM25S	Compliance	R3	07/27/2023	Fluoride, total	0.151 J	mg/L
OM25S	Compliance	R3	07/26/2023	Lead, total	0.0700	mg/L
OM25S	Compliance	R3	07/26/2023	Lithium, total	0.170	mg/L
OM25S	Compliance	R3	07/26/2023	Mercury, total	0.000210	mg/L
OM25S	Compliance	R3	07/26/2023	Molybdenum, total	0.00770	mg/L
OM25S	Compliance	R3	07/26/2023	Oxidation Reduction Potential	0.900	mV
OM25S	Compliance	R3	07/26/2023	pH (field)	6.9	SU
OM25S	Compliance	R3	07/26/2023	Radium 226 + Radium 228, total	17.7	pCi/L
OM25S	Compliance	R3	07/26/2023	Selenium, total	0.00400	mg/L
OM25S	Compliance	R3	07/26/2023	Specific Conductance @ 25C (field)	3,223	micromhos/cm
OM25S	Compliance	R3	07/27/2023	Sulfate, total	710	mg/L
OM25S	Compliance	R3	07/26/2023	Temperature (Celsius)	18.3	degrees C
OM25S	Compliance	R3	07/26/2023	Thallium, total	0.00059 J	mg/L
OM25S	Compliance	R3	08/10/2023	Total Dissolved Solids	2,800	mg/L
OM25S	Compliance	R3	07/26/2023	Turbidity, field	409	NTU
OR02	Compliance	R3	07/20/2023	Antimony, total	0.00043 U	mg/L
OR02	Compliance	R3	07/20/2023	Arsenic, total	0.0230	mg/L
OR02	Compliance	R3	07/20/2023	Barium, total	0.0900	mg/L
OR02	Compliance	R3	07/20/2023	Beryllium, total	0.0012 U	mg/L
OR02	Compliance	R3	07/20/2023	Boron, total	4.90	mg/L
OR02	Compliance	R3	07/20/2023	Cadmium, total	0.00074 U	mg/L
OR02	Compliance	R3	07/20/2023	Calcium, total	110	mg/L
OR02	Compliance	R3	07/20/2023	Chloride, total	230	mg/L
OR02	Compliance	R3	07/20/2023	Chromium, total	0.0160	mg/L
OR02	Compliance	R3	07/20/2023	Cobalt, total	0.0100	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR02	Compliance	R3	07/20/2023	Dissolved Oxygen	1.30	mg/L
OR02	Compliance	R3	07/20/2023	Fluoride, total	0.187 J	mg/L
OR02	Compliance	R3	07/20/2023	Lead, total	0.0180	mg/L
OR02	Compliance	R3	07/20/2023	Lithium, total	0.018 J	mg/L
OR02	Compliance	R3	07/20/2023	Mercury, total	0.00014 U	mg/L
OR02	Compliance	R3	07/20/2023	Molybdenum, total	0.00570	mg/L
OR02	Compliance	R3	07/20/2023	Oxidation Reduction Potential	-34.2	mV
OR02	Compliance	R3	07/20/2023	pH (field)	6.6	SU
OR02	Compliance	R3	07/20/2023	Radium 226 + Radium 228, total	2.09	pCi/L
OR02	Compliance	R3	07/20/2023	Selenium, total	0.00150	mg/L
OR02	Compliance	R3	07/20/2023	Specific Conductance @ 25C (field)	1,972	micromhos/cm
OR02	Compliance	R3	07/20/2023	Sulfate, total	270	mg/L
OR02	Compliance	R3	07/20/2023	Temperature (Celsius)	21.8	degrees C
OR02	Compliance	R3	07/20/2023	Thallium, total	0.00038 U	mg/L
OR02	Compliance	R3	07/20/2023	Total Dissolved Solids	1,400	mg/L
OR02	Compliance	R3	07/20/2023	Turbidity, field	4,350	NTU
OR03D	Compliance	R3	07/31/2023	Antimony, total	0.0012 J	mg/L
OR03D	Compliance	R3	07/31/2023	Arsenic, total	0.0360	mg/L
OR03D	Compliance	R3	07/31/2023	Barium, total	1.00	mg/L
OR03D	Compliance	R3	07/31/2023	Beryllium, total	0.00660	mg/L
OR03D	Compliance	R3	07/31/2023	Boron, total	41.0	mg/L
OR03D	Compliance	R3	07/31/2023	Cadmium, total	0.00074 U	mg/L
OR03D	Compliance	R3	07/31/2023	Calcium, total	730	mg/L
OR03D	Compliance	R3	07/31/2023	Chloride, total	1,100	mg/L
OR03D	Compliance	R3	07/31/2023	Chromium, total	0.230	mg/L
OR03D	Compliance	R3	07/31/2023	Cobalt, total	0.120	mg/L
OR03D	Compliance	R3	07/31/2023	Dissolved Oxygen	3.40	mg/L
OR03D	Compliance	R3	07/31/2023	Fluoride, total	0.218 J	mg/L
OR03D	Compliance	R3	07/31/2023	Lead, total	0.0960	mg/L
OR03D	Compliance	R3	07/31/2023	Lithium, total	0.220	mg/L
OR03D	Compliance	R3	07/31/2023	Mercury, total	0.00014 U	mg/L
OR03D	Compliance	R3	07/31/2023	Molybdenum, total	0.0140	mg/L
OR03D	Compliance	R3	07/31/2023	Oxidation Reduction Potential	-14.0	mV
OR03D	Compliance	R3	07/31/2023	pH (field)	7.0	SU
OR03D	Compliance	R3	07/31/2023	Radium 226 + Radium 228, total	16.2	pCi/L
OR03D	Compliance	R3	07/31/2023	Selenium, total	0.00074 U	mg/L
OR03D	Compliance	R3	07/31/2023	Specific Conductance @ 25C (field)	4,020	micromhos/cm
OR03D	Compliance	R3	07/31/2023	Sulfate, total	630	mg/L
OR03D	Compliance	R3	07/31/2023	Temperature (Celsius)	15.5	degrees C
OR03D	Compliance	R3	07/31/2023	Thallium, total	0.00038 U	mg/L
OR03D	Compliance	R3	07/31/2023	Total Dissolved Solids	5,200	mg/L
OR03D	Compliance	R3	07/31/2023	Turbidity, field	1,000 U	NTU
OR04D	Compliance	R3	07/25/2023	Antimony, total	0.00043 U	mg/L
OR04D	Compliance	R3	07/25/2023	Arsenic, total	0.00330	mg/L
OR04D	Compliance	R3	07/25/2023	Barium, total	0.0290	mg/L
OR04D	Compliance	R3	07/25/2023	Beryllium, total	0.00059 U	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR04D	Compliance	R3	07/25/2023	Boron, total	71.0	mg/L
OR04D	Compliance	R3	07/25/2023	Cadmium, total	0.00074 U	mg/L
OR04D	Compliance	R3	07/25/2023	Calcium, total	650	mg/L
OR04D	Compliance	R3	07/25/2023	Chloride, total	1,100	mg/L
OR04D	Compliance	R3	07/25/2023	Chromium, total	0.00550	mg/L
OR04D	Compliance	R3	07/25/2023	Cobalt, total	0.00094 J	mg/L
OR04D	Compliance	R3	07/25/2023	Dissolved Oxygen	0.430	mg/L
OR04D	Compliance	R3	07/25/2023	Fluoride, total	0.25 UJ	mg/L
OR04D	Compliance	R3	07/25/2023	Lead, total	0.00110	mg/L
OR04D	Compliance	R3	07/25/2023	Lithium, total	0.0580	mg/L
OR04D	Compliance	R3	07/25/2023	Mercury, total	0.00014 U	mg/L
OR04D	Compliance	R3	07/25/2023	Molybdenum, total	0.00390	mg/L
OR04D	Compliance	R3	07/25/2023	Oxidation Reduction Potential	-30.2	mV
OR04D	Compliance	R3	07/25/2023	pH (field)	6.7	SU
OR04D	Compliance	R3	07/25/2023	Radium 226 + Radium 228, total	1.24	pCi/L
OR04D	Compliance	R3	07/25/2023	Selenium, total	0.00074 U	mg/L
OR04D	Compliance	R3	07/25/2023	Specific Conductance @ 25C (field)	5,280	micromhos/cm
OR04D	Compliance	R3	07/25/2023	Sulfate, total	1,200	mg/L
OR04D	Compliance	R3	07/25/2023	Temperature (Celsius)	21.3	degrees C
OR04D	Compliance	R3	07/25/2023	Thallium, total	0.00038 U	mg/L
OR04D	Compliance	R3	07/25/2023	Total Dissolved Solids	4,700	mg/L
OR04D	Compliance	R3	07/25/2023	Turbidity, field	2,150	NTU
OR06A	Compliance	R3	07/26/2023	Antimony, total	0.00043 U	mg/L
OR06A	Compliance	R3	07/26/2023	Arsenic, total	0.0120	mg/L
OR06A	Compliance	R3	07/26/2023	Barium, total	0.0540	mg/L
OR06A	Compliance	R3	07/26/2023	Beryllium, total	0.00059 U	mg/L
OR06A	Compliance	R3	07/26/2023	Boron, total	66.0	mg/L
OR06A	Compliance	R3	07/26/2023	Cadmium, total	0.00074 U	mg/L
OR06A	Compliance	R3	07/26/2023	Calcium, total	480	mg/L
OR06A	Compliance	R3	07/27/2023	Chloride, total	180	mg/L
OR06A	Compliance	R3	07/26/2023	Chromium, total	0.0031 J	mg/L
OR06A	Compliance	R3	07/26/2023	Cobalt, total	0.00380	mg/L
OR06A	Compliance	R3	07/26/2023	Dissolved Oxygen	2.40	mg/L
OR06A	Compliance	R3	07/27/2023	Fluoride, total	0.136 J	mg/L
OR06A	Compliance	R3	07/26/2023	Lead, total	0.00360	mg/L
OR06A	Compliance	R3	07/26/2023	Lithium, total	0.0092 J	mg/L
OR06A	Compliance	R3	07/26/2023	Mercury, total	0.00014 U	mg/L
OR06A	Compliance	R3	07/26/2023	Molybdenum, total	0.0920	mg/L
OR06A	Compliance	R3	07/26/2023	Oxidation Reduction Potential	-32.8	mV
OR06A	Compliance	R3	07/26/2023	pH (field)	6.8	SU
OR06A	Compliance	R3	07/26/2023	Radium 226 + Radium 228, total	0.837	pCi/L
OR06A	Compliance	R3	07/26/2023	Selenium, total	0.00074 U	mg/L
OR06A	Compliance	R3	07/26/2023	Specific Conductance @ 25C (field)	3,301	micromhos/cm
OR06A	Compliance	R3	07/27/2023	Sulfate, total	390	mg/L
OR06A	Compliance	R3	07/26/2023	Temperature (Celsius)	18.4	degrees C
OR06A	Compliance	R3	07/26/2023	Thallium, total	0.00038 U	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR06A	Compliance	R3	08/10/2023	Total Dissolved Solids	2,100	mg/L
OR06A	Compliance	R3	07/26/2023	Turbidity, field	382	NTU
OR11	Compliance	R3	07/26/2023	Antimony, total	0.001 J	mg/L
OR11	Compliance	R3	07/26/2023	Arsenic, total	0.00550	mg/L
OR11	Compliance	R3	07/26/2023	Barium, total	0.100	mg/L
OR11	Compliance	R3	07/26/2023	Beryllium, total	0.00059 U	mg/L
OR11	Compliance	R3	07/26/2023	Boron, total	9.80	mg/L
OR11	Compliance	R3	07/26/2023	Cadmium, total	0.00074 U	mg/L
OR11	Compliance	R3	07/26/2023	Calcium, total	160	mg/L
OR11	Compliance	R3	07/27/2023	Chloride, total	60.0	mg/L
OR11	Compliance	R3	07/26/2023	Chromium, total	0.00590	mg/L
OR11	Compliance	R3	07/26/2023	Cobalt, total	0.00460	mg/L
OR11	Compliance	R3	07/26/2023	Dissolved Oxygen	2.90	mg/L
OR11	Compliance	R3	07/27/2023	Fluoride, total	0.281	mg/L
OR11	Compliance	R3	07/26/2023	Lead, total	0.00710	mg/L
OR11	Compliance	R3	07/26/2023	Lithium, total	0.0200	mg/L
OR11	Compliance	R3	07/26/2023	Mercury, total	0.00014 J	mg/L
OR11	Compliance	R3	07/26/2023	Molybdenum, total	0.00710	mg/L
OR11	Compliance	R3	07/26/2023	Oxidation Reduction Potential	2.80	mV
OR11	Compliance	R3	07/26/2023	pH (field)	7.0	SU
OR11	Compliance	R3	07/26/2023	Radium 226 + Radium 228, total	1.80	pCi/L
OR11	Compliance	R3	07/26/2023	Selenium, total	0.00074 U	mg/L
OR11	Compliance	R3	07/26/2023	Specific Conductance @ 25C (field)	1,214	micromhos/cm
OR11	Compliance	R3	07/27/2023	Sulfate, total	130	mg/L
OR11	Compliance	R3	07/26/2023	Temperature (Celsius)	15.2	degrees C
OR11	Compliance	R3	07/26/2023	Thallium, total	0.00038 U	mg/L
OR11	Compliance	R3	08/10/2023	Total Dissolved Solids	890	mg/L
OR11	Compliance	R3	07/26/2023	Turbidity, field	534	NTU
OR13S	Compliance	R3	07/26/2023	Antimony, total	0.00043 U	mg/L
OR13S	Compliance	R3	07/26/2023	Arsenic, total	0.0160	mg/L
OR13S	Compliance	R3	07/26/2023	Barium, total	0.0260	mg/L
OR13S	Compliance	R3	07/26/2023	Beryllium, total	0.00059 U	mg/L
OR13S	Compliance	R3	07/26/2023	Boron, total	3.10	mg/L
OR13S	Compliance	R3	07/26/2023	Cadmium, total	0.00074 U	mg/L
OR13S	Compliance	R3	07/26/2023	Calcium, total	290	mg/L
OR13S	Compliance	R3	07/27/2023	Chloride, total	28.0	mg/L
OR13S	Compliance	R3	07/26/2023	Chromium, total	0.0028 U	mg/L
OR13S	Compliance	R3	07/26/2023	Cobalt, total	0.0012 J	mg/L
OR13S	Compliance	R3	07/26/2023	Dissolved Oxygen	2.10	mg/L
OR13S	Compliance	R3	07/27/2023	Fluoride, total	0.196 J	mg/L
OR13S	Compliance	R3	07/26/2023	Lead, total	0.00056 J	mg/L
OR13S	Compliance	R3	07/26/2023	Lithium, total	0.016 J	mg/L
OR13S	Compliance	R3	07/26/2023	Mercury, total	0.00016 J	mg/L
OR13S	Compliance	R3	07/26/2023	Molybdenum, total	0.00720	mg/L
OR13S	Compliance	R3	07/26/2023	Oxidation Reduction Potential	-33.0	mV
OR13S	Compliance	R3	07/26/2023	pH (field)	6.5	SU

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR13S	Compliance	R3	07/26/2023	Radium 226 + Radium 228, total	0.883	pCi/L
OR13S	Compliance	R3	07/26/2023	Selenium, total	0.00074 U	mg/L
OR13S	Compliance	R3	07/26/2023	Specific Conductance @ 25C (field)	2,110	micromhos/cm
OR13S	Compliance	R3	07/27/2023	Sulfate, total	520	mg/L
OR13S	Compliance	R3	07/26/2023	Temperature (Celsius)	21.0	degrees C
OR13S	Compliance	R3	07/26/2023	Thallium, total	0.00038 U	mg/L
OR13S	Compliance	R3	08/10/2023	Total Dissolved Solids	1,700	mg/L
OR13S	Compliance	R3	07/26/2023	Turbidity, field	530	NTU
OR13D	Compliance	R3	07/26/2023	Antimony, total	0.00043 U	mg/L
OR13D	Compliance	R3	07/26/2023	Arsenic, total	0.00830	mg/L
OR13D	Compliance	R3	07/26/2023	Barium, total	0.0330	mg/L
OR13D	Compliance	R3	07/26/2023	Beryllium, total	0.00059 U	mg/L
OR13D	Compliance	R3	07/26/2023	Boron, total	1.80	mg/L
OR13D	Compliance	R3	07/26/2023	Cadmium, total	0.00074 U	mg/L
OR13D	Compliance	R3	07/26/2023	Calcium, total	120	mg/L
OR13D	Compliance	R3	07/27/2023	Chloride, total	43.0	mg/L
OR13D	Compliance	R3	07/26/2023	Chromium, total	0.0028 U	mg/L
OR13D	Compliance	R3	07/26/2023	Cobalt, total	0.00048 U	mg/L
OR13D	Compliance	R3	07/26/2023	Dissolved Oxygen	0.490	mg/L
OR13D	Compliance	R3	07/27/2023	Fluoride, total	0.343	mg/L
OR13D	Compliance	R3	07/26/2023	Lead, total	0.00078 J	mg/L
OR13D	Compliance	R3	07/26/2023	Lithium, total	0.0260	mg/L
OR13D	Compliance	R3	07/26/2023	Mercury, total	0.00019 J	mg/L
OR13D	Compliance	R3	07/26/2023	Molybdenum, total	0.00740	mg/L
OR13D	Compliance	R3	07/26/2023	Oxidation Reduction Potential	-69.0	mV
OR13D	Compliance	R3	07/26/2023	pH (field)	6.7	SU
OR13D	Compliance	R3	07/26/2023	Radium 226 + Radium 228, total	5.58	pCi/L
OR13D	Compliance	R3	07/26/2023	Selenium, total	0.00074 U	mg/L
OR13D	Compliance	R3	07/26/2023	Specific Conductance @ 25C (field)	1,850	micromhos/cm
OR13D	Compliance	R3	07/27/2023	Sulfate, total	290	mg/L
OR13D	Compliance	R3	07/26/2023	Temperature (Celsius)	24.8	degrees C
OR13D	Compliance	R3	07/26/2023	Thallium, total	0.00038 U	mg/L
OR13D	Compliance	R3	08/10/2023	Total Dissolved Solids	740 J	mg/L
OR13D	Compliance	R3	07/26/2023	Turbidity, field	1,000 U	NTU
OR14D	Compliance	R3	07/24/2023	Antimony, total	0.00043 U	mg/L
OR14D	Compliance	R3	07/24/2023	Arsenic, total	0.00620	mg/L
OR14D	Compliance	R3	07/24/2023	Barium, total	0.0460	mg/L
OR14D	Compliance	R3	07/24/2023	Beryllium, total	0.00059 U	mg/L
OR14D	Compliance	R3	07/24/2023	Boron, total	12.0	mg/L
OR14D	Compliance	R3	07/24/2023	Cadmium, total	0.00074 U	mg/L
OR14D	Compliance	R3	07/24/2023	Calcium, total	370	mg/L
OR14D	Compliance	R3	07/24/2023	Chloride, total	240	mg/L
OR14D	Compliance	R3	07/24/2023	Chromium, total	0.00720	mg/L
OR14D	Compliance	R3	07/24/2023	Cobalt, total	0.00460	mg/L
OR14D	Compliance	R3	07/24/2023	Dissolved Oxygen	0.350	mg/L
OR14D	Compliance	R3	07/24/2023	Fluoride, total	0.252 J+	mg/L

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR14D	Compliance	R3	07/24/2023	Lead, total	0.00470	mg/L
OR14D	Compliance	R3	07/24/2023	Lithium, total	0.0310	mg/L
OR14D	Compliance	R3	07/24/2023	Mercury, total	0.000220	mg/L
OR14D	Compliance	R3	07/24/2023	Molybdenum, total	0.00720	mg/L
OR14D	Compliance	R3	07/24/2023	Oxidation Reduction Potential	-96.3	mV
OR14D	Compliance	R3	07/24/2023	pH (field)	6.7	SU
OR14D	Compliance	R3	07/24/2023	Radium 226 + Radium 228, total	1.58	pCi/L
OR14D	Compliance	R3	07/24/2023	Selenium, total	0.00074 U	mg/L
OR14D	Compliance	R3	07/24/2023	Specific Conductance @ 25C (field)	2,624	micromhos/cm
OR14D	Compliance	R3	07/24/2023	Sulfate, total	890	mg/L
OR14D	Compliance	R3	07/24/2023	Temperature (Celsius)	19.4	degrees C
OR14D	Compliance	R3	07/24/2023	Thallium, total	0.00038 U	mg/L
OR14D	Compliance	R3	07/24/2023	Total Dissolved Solids	2,300	mg/L
OR14D	Compliance	R3	07/24/2023	Turbidity, field	2,920	NTU
OR19	Compliance	R3	07/31/2023	Antimony, total	0.00043 U	mg/L
OR19	Compliance	R3	07/31/2023	Arsenic, total	0.00140	mg/L
OR19	Compliance	R3	07/31/2023	Barium, total	0.0400	mg/L
OR19	Compliance	R3	07/31/2023	Beryllium, total	0.00059 U	mg/L
OR19	Compliance	R3	07/31/2023	Boron, total	13.0	mg/L
OR19	Compliance	R3	07/31/2023	Cadmium, total	0.00074 U	mg/L
OR19	Compliance	R3	07/31/2023	Calcium, total	360	mg/L
OR19	Compliance	R3	07/31/2023	Chloride, total	160	mg/L
OR19	Compliance	R3	07/31/2023	Chromium, total	0.00820	mg/L
OR19	Compliance	R3	07/31/2023	Cobalt, total	0.00066 J	mg/L
OR19	Compliance	R3	07/31/2023	Dissolved Oxygen	1.50	mg/L
OR19	Compliance	R3	07/31/2023	Fluoride, total	0.384	mg/L
OR19	Compliance	R3	07/31/2023	Lead, total	0.00430	mg/L
OR19	Compliance	R3	07/31/2023	Lithium, total	0.0220	mg/L
OR19	Compliance	R3	07/31/2023	Mercury, total	0.000220	mg/L
OR19	Compliance	R3	07/31/2023	Molybdenum, total	0.00400	mg/L
OR19	Compliance	R3	07/31/2023	Oxidation Reduction Potential	-41.0	mV
OR19	Compliance	R3	07/31/2023	pH (field)	6.7	SU
OR19	Compliance	R3	07/31/2023	Radium 226 + Radium 228, total	2.94	pCi/L
OR19	Compliance	R3	07/31/2023	Selenium, total	0.00074 U	mg/L
OR19	Compliance	R3	07/31/2023	Specific Conductance @ 25C (field)	2,710	micromhos/cm
OR19	Compliance	R3	07/31/2023	Sulfate, total	910	mg/L
OR19	Compliance	R3	07/31/2023	Temperature (Celsius)	20.8	degrees C
OR19	Compliance	R3	07/31/2023	Thallium, total	0.00056 J	mg/L
OR19	Compliance	R3	07/31/2023	Total Dissolved Solids	2,500	mg/L
OR19	Compliance	R3	07/31/2023	Turbidity, field	1,000 U	NTU
OR20	Compliance	R3	07/24/2023	Antimony, total	0.00043 U	mg/L
OR20	Compliance	R3	07/24/2023	Arsenic, total	0.00800	mg/L
OR20	Compliance	R3	07/24/2023	Barium, total	0.0310	mg/L
OR20	Compliance	R3	07/24/2023	Beryllium, total	0.00059 U	mg/L
OR20	Compliance	R3	07/24/2023	Boron, total	23.0	mg/L
OR20	Compliance	R3	07/24/2023	Cadmium, total	0.00074 U	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR20	Compliance	R3	07/24/2023	Calcium, total	210	mg/L
OR20	Compliance	R3	07/24/2023	Chloride, total	330	mg/L
OR20	Compliance	R3	07/24/2023	Chromium, total	0.003 J	mg/L
OR20	Compliance	R3	07/24/2023	Cobalt, total	0.0018 J	mg/L
OR20	Compliance	R3	07/24/2023	Dissolved Oxygen	0.340	mg/L
OR20	Compliance	R3	07/24/2023	Fluoride, total	0.511 J+	mg/L
OR20	Compliance	R3	07/24/2023	Lead, total	0.00240	mg/L
OR20	Compliance	R3	07/24/2023	Lithium, total	0.0350	mg/L
OR20	Compliance	R3	07/24/2023	Mercury, total	0.00014 U	mg/L
OR20	Compliance	R3	07/24/2023	Molybdenum, total	0.0330	mg/L
OR20	Compliance	R3	07/24/2023	Oxidation Reduction Potential	-42.2	mV
OR20	Compliance	R3	07/24/2023	pH (field)	6.8	SU
OR20	Compliance	R3	07/24/2023	Radium 226 + Radium 228, total	4.18	pCi/L
OR20	Compliance	R3	07/24/2023	Selenium, total	0.00074 U	mg/L
OR20	Compliance	R3	07/24/2023	Specific Conductance @ 25C (field)	2,509	micromhos/cm
OR20	Compliance	R3	07/24/2023	Sulfate, total	390	mg/L
OR20	Compliance	R3	07/24/2023	Temperature (Celsius)	18.1	degrees C
OR20	Compliance	R3	07/24/2023	Thallium, total	0.00038 U	mg/L
OR20	Compliance	R3	07/24/2023	Total Dissolved Solids	1,800	mg/L
OR20	Compliance	R3	07/24/2023	Turbidity, field	4,250	NTU

Notes:

C = Celsius

cm = centimeter

mg/L = milligrams per liter

mV = millivolts

NTU = Nephelometric Turbidity Units

pCi/L = picocuries per liter

SU = Standard Units

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J- = The result is an estimated quantity, but the result may be biased low.

J+ = The result is an estimated quantity, but the result may be biased high.

U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
BA06	Background	R4	10/19/2023	Antimony, total	0.00043 U	mg/L
BA06	Background	R4	10/19/2023	Arsenic, total	0.00300	mg/L
BA06	Background	R4	10/19/2023	Barium, total	0.0950	mg/L
BA06	Background	R4	10/19/2023	Beryllium, total	0.00059 U	mg/L
BA06	Background	R4	10/19/2023	Boron, total	9.90	mg/L
BA06	Background	R4	10/19/2023	Cadmium, total	0.00074 U	mg/L
BA06	Background	R4	10/19/2023	Calcium, total	300	mg/L
BA06	Background	R4	10/19/2023	Chloride, total	510	mg/L
BA06	Background	R4	10/19/2023	Chromium, total	0.0028 U	mg/L
BA06	Background	R4	10/19/2023	Cobalt, total	0.00700	mg/L
BA06	Background	R4	10/19/2023	Dissolved Oxygen	0	mg/L
BA06	Background	R4	10/19/2023	Fluoride, total	0.231	mg/L
BA06	Background	R4	10/19/2023	Lead, total	0.00022 U	mg/L
BA06	Background	R4	10/19/2023	Lithium, total	0.0064	mg/L
BA06	Background	R4	10/19/2023	Mercury, total	0.000250	mg/L
BA06	Background	R4	10/19/2023	Molybdenum, total	0.00110	mg/L
BA06	Background	R4	10/19/2023	Oxidation Reduction Potential	-38.0	mV
BA06	Background	R4	10/19/2023	pH (field)	6.6	SU
BA06	Background	R4	10/19/2023	Radium 226 + Radium 228, total	0.409	pCi/L
BA06	Background	R4	10/19/2023	Selenium, total	0.00074 U	mg/L
BA06	Background	R4	10/19/2023	Specific Conductance @ 25C (field)	3,170	micromhos/cm
BA06	Background	R4	10/19/2023	Sulfate, total	370	mg/L
BA06	Background	R4	10/19/2023	Temperature (Celsius)	13.3	degrees C
BA06	Background	R4	10/19/2023	Thallium, total	0.00038 U	mg/L
BA06	Background	R4	10/19/2023	Total Dissolved Solids	2,000	mg/L
BA06	Background	R4	10/19/2023	Turbidity, field	3.30	NTU
OM16	Background	R4	10/24/2023	Antimony, total	0.00043 U	mg/L
OM16	Background	R4	10/24/2023	Arsenic, total	0.00860	mg/L
OM16	Background	R4	10/24/2023	Barium, total	0.0480 J+	mg/L
OM16	Background	R4	10/24/2023	Beryllium, total	0.00059 U	mg/L
OM16	Background	R4	10/24/2023	Boron, total	0.0660 J+	mg/L
OM16	Background	R4	10/24/2023	Cadmium, total	0.00760	mg/L
OM16	Background	R4	10/24/2023	Calcium, total	530	mg/L
OM16	Background	R4	10/24/2023	Chloride, total	8.00	mg/L
OM16	Background	R4	10/24/2023	Chromium, total	0.0120	mg/L
OM16	Background	R4	10/24/2023	Cobalt, total	0.0120	mg/L
OM16	Background	R4	10/24/2023	Dissolved Oxygen	2.50	mg/L
OM16	Background	R4	10/24/2023	Fluoride, total	0.16	mg/L
OM16	Background	R4	10/24/2023	Lead, total	0.00630	mg/L
OM16	Background	R4	10/24/2023	Lithium, total	0.0300	mg/L
OM16	Background	R4	10/24/2023	Mercury, total	0.00014 U	mg/L
OM16	Background	R4	10/24/2023	Molybdenum, total	0.00120	mg/L
OM16	Background	R4	10/24/2023	Oxidation Reduction Potential	-16.0	mV
OM16	Background	R4	10/24/2023	pH (field)	6.7	SU
OM16	Background	R4	10/24/2023	Radium 226 + Radium 228, total	0.972	pCi/L
OM16	Background	R4	10/24/2023	Selenium, total	0.00074 U	mg/L

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM16	Background	R4	10/24/2023	Specific Conductance @ 25C (field)	4,020	micromhos/cm
OM16	Background	R4	10/24/2023	Sulfate, total	2,000	mg/L
OM16	Background	R4	10/24/2023	Temperature (Celsius)	15.5	degrees C
OM16	Background	R4	10/24/2023	Thallium, total	0.00038 U	mg/L
OM16	Background	R4	10/24/2023	Total Dissolved Solids	3,700	mg/L
OM16	Background	R4	10/24/2023	Turbidity, field	1,000	NTU
OM01	Compliance	R4	10/27/2023	Antimony, total	0.00043 U	mg/L
OM01	Compliance	R4	10/27/2023	Arsenic, total	0.00530	mg/L
OM01	Compliance	R4	10/27/2023	Barium, total	0.120	mg/L
OM01	Compliance	R4	10/27/2023	Beryllium, total	0.00059 U	mg/L
OM01	Compliance	R4	10/27/2023	Boron, total	0.210 J+	mg/L
OM01	Compliance	R4	10/27/2023	Cadmium, total	0.00074 U	mg/L
OM01	Compliance	R4	10/27/2023	Calcium, total	590	mg/L
OM01	Compliance	R4	10/27/2023	Chloride, total	30.0	mg/L
OM01	Compliance	R4	10/27/2023	Chromium, total	0.0130	mg/L
OM01	Compliance	R4	10/27/2023	Cobalt, total	0.0230	mg/L
OM01	Compliance	R4	10/27/2023	Dissolved Oxygen	2.20	mg/L
OM01	Compliance	R4	10/27/2023	Fluoride, total	0.159	mg/L
OM01	Compliance	R4	10/27/2023	Lead, total	0.00610	mg/L
OM01	Compliance	R4	10/27/2023	Lithium, total	0.0099	mg/L
OM01	Compliance	R4	10/27/2023	Mercury, total	0.00018	mg/L
OM01	Compliance	R4	10/27/2023	Molybdenum, total	0.00074 U	mg/L
OM01	Compliance	R4	10/27/2023	Oxidation Reduction Potential	-33.0	mV
OM01	Compliance	R4	10/27/2023	pH (field)	6.8	SU
OM01	Compliance	R4	10/27/2023	Radium 226 + Radium 228, total	2.13	pCi/L
OM01	Compliance	R4	10/27/2023	Selenium, total	0.00074 U	mg/L
OM01	Compliance	R4	10/27/2023	Specific Conductance @ 25C (field)	3,590	micromhos/cm
OM01	Compliance	R4	10/27/2023	Sulfate, total	1,800	mg/L
OM01	Compliance	R4	10/27/2023	Temperature (Celsius)	16.0	degrees C
OM01	Compliance	R4	10/27/2023	Thallium, total	0.00038 U	mg/L
OM01	Compliance	R4	10/27/2023	Total Dissolved Solids	3,500	mg/L
OM01	Compliance	R4	10/27/2023	Turbidity, field	209	NTU
OM04S	Compliance	R4	10/25/2023	Antimony, total	0.00043 U	mg/L
OM04S	Compliance	R4	10/25/2023	Arsenic, total	0.00220	mg/L
OM04S	Compliance	R4	10/25/2023	Barium, total	0.0530	mg/L
OM04S	Compliance	R4	10/25/2023	Beryllium, total	0.00059 U	mg/L
OM04S	Compliance	R4	10/25/2023	Boron, total	0.0530 J+	mg/L
OM04S	Compliance	R4	10/25/2023	Cadmium, total	0.00074 U	mg/L
OM04S	Compliance	R4	10/25/2023	Calcium, total	160	mg/L
OM04S	Compliance	R4	10/25/2023	Chloride, total	16.0 J	mg/L
OM04S	Compliance	R4	10/25/2023	Chromium, total	0.0028 U	mg/L
OM04S	Compliance	R4	10/25/2023	Cobalt, total	0.00630 J+	mg/L
OM04S	Compliance	R4	10/25/2023	Dissolved Oxygen	8.30	mg/L
OM04S	Compliance	R4	10/25/2023	Fluoride, total	0.143 J	mg/L
OM04S	Compliance	R4	10/25/2023	Lead, total	0.00110 J+	mg/L
OM04S	Compliance	R4	10/25/2023	Lithium, total	0.005 U	mg/L

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ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM04S	Compliance	R4	10/25/2023	Mercury, total	0.000480	mg/L
OM04S	Compliance	R4	10/25/2023	Molybdenum, total	0.00120	mg/L
OM04S	Compliance	R4	10/25/2023	Oxidation Reduction Potential	-1.00	mV
OM04S	Compliance	R4	10/25/2023	pH (field)	7.4	SU
OM04S	Compliance	R4	10/25/2023	Radium 226 + Radium 228, total	1.23	pCi/L
OM04S	Compliance	R4	10/25/2023	Selenium, total	0.00074 U	mg/L
OM04S	Compliance	R4	10/25/2023	Specific Conductance @ 25C (field)	1,490	micromhos/cm
OM04S	Compliance	R4	10/25/2023	Sulfate, total	140 J	mg/L
OM04S	Compliance	R4	10/25/2023	Temperature (Celsius)	15.2	degrees C
OM04S	Compliance	R4	10/25/2023	Thallium, total	0.00038 U	mg/L
OM04S	Compliance	R4	10/25/2023	Total Dissolved Solids	780	mg/L
OM04S	Compliance	R4	10/25/2023	Turbidity, field	28.7	NTU
OM07	Compliance	R4	10/26/2023	Antimony, total	0.00043 U	mg/L
OM07	Compliance	R4	10/26/2023	Arsenic, total	0.00130	mg/L
OM07	Compliance	R4	10/26/2023	Barium, total	0.0440	mg/L
OM07	Compliance	R4	10/26/2023	Beryllium, total	0.00059 U	mg/L
OM07	Compliance	R4	10/26/2023	Boron, total	0.450 J+	mg/L
OM07	Compliance	R4	10/26/2023	Cadmium, total	0.00074 U	mg/L
OM07	Compliance	R4	10/26/2023	Calcium, total	130	mg/L
OM07	Compliance	R4	10/26/2023	Chloride, total	7.20	mg/L
OM07	Compliance	R4	10/26/2023	Chromium, total	0.0028 U	mg/L
OM07	Compliance	R4	10/26/2023	Cobalt, total	0.002 UJ	mg/L
OM07	Compliance	R4	10/26/2023	Dissolved Oxygen	1.70	mg/L
OM07	Compliance	R4	10/26/2023	Fluoride, total	0.141	mg/L
OM07	Compliance	R4	10/26/2023	Lead, total	0.00022 U	mg/L
OM07	Compliance	R4	10/26/2023	Lithium, total	0.005 U	mg/L
OM07	Compliance	R4	10/26/2023	Mercury, total	0.00014 U	mg/L
OM07	Compliance	R4	10/26/2023	Molybdenum, total	0.00110	mg/L
OM07	Compliance	R4	10/26/2023	Oxidation Reduction Potential	-63.0	mV
OM07	Compliance	R4	10/26/2023	pH (field)	6.8	SU
OM07	Compliance	R4	10/26/2023	Radium 226 + Radium 228, total	0.681	pCi/L
OM07	Compliance	R4	10/26/2023	Selenium, total	0.00074 U	mg/L
OM07	Compliance	R4	10/26/2023	Specific Conductance @ 25C (field)	1,260	micromhos/cm
OM07	Compliance	R4	10/26/2023	Sulfate, total	170	mg/L
OM07	Compliance	R4	10/26/2023	Temperature (Celsius)	15.6	degrees C
OM07	Compliance	R4	10/26/2023	Thallium, total	0.00038 U	mg/L
OM07	Compliance	R4	10/26/2023	Total Dissolved Solids	790	mg/L
OM07	Compliance	R4	10/26/2023	Turbidity, field	10.9	NTU
OM12	Compliance	R4	10/26/2023	Antimony, total	0.00084	mg/L
OM12	Compliance	R4	10/26/2023	Arsenic, total	0.0540	mg/L
OM12	Compliance	R4	10/26/2023	Barium, total	0.250	mg/L
OM12	Compliance	R4	10/26/2023	Beryllium, total	0.00059 U	mg/L
OM12	Compliance	R4	10/26/2023	Boron, total	0.0590 J+	mg/L
OM12	Compliance	R4	10/26/2023	Cadmium, total	0.00074 U	mg/L
OM12	Compliance	R4	10/26/2023	Calcium, total	270	mg/L
OM12	Compliance	R4	10/26/2023	Chloride, total	4.8 U	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM12	Compliance	R4	10/26/2023	Chromium, total	0.00520	mg/L
OM12	Compliance	R4	10/26/2023	Cobalt, total	0.00420 J+	mg/L
OM12	Compliance	R4	10/26/2023	Dissolved Oxygen	4.70	mg/L
OM12	Compliance	R4	10/26/2023	Fluoride, total	0.146	mg/L
OM12	Compliance	R4	10/26/2023	Lead, total	0.00620	mg/L
OM12	Compliance	R4	10/26/2023	Lithium, total	0.005 U	mg/L
OM12	Compliance	R4	10/26/2023	Mercury, total	0.00014 U	mg/L
OM12	Compliance	R4	10/26/2023	Molybdenum, total	0.00460	mg/L
OM12	Compliance	R4	10/26/2023	Oxidation Reduction Potential	-29.0	mV
OM12	Compliance	R4	10/26/2023	pH (field)	6.5	SU
OM12	Compliance	R4	10/26/2023	Radium 226 + Radium 228, total	1.24	pCi/L
OM12	Compliance	R4	10/26/2023	Selenium, total	0.00074 U	mg/L
OM12	Compliance	R4	10/26/2023	Specific Conductance @ 25C (field)	1,700	micromhos/cm
OM12	Compliance	R4	10/26/2023	Sulfate, total	380	mg/L
OM12	Compliance	R4	10/26/2023	Temperature (Celsius)	15.8	degrees C
OM12	Compliance	R4	10/26/2023	Thallium, total	0.00038 U	mg/L
OM12	Compliance	R4	10/26/2023	Total Dissolved Solids	1,500	mg/L
OM12	Compliance	R4	10/26/2023	Turbidity, field	514	NTU
OM21	Compliance	R4	10/25/2023	Antimony, total	0.00043 U	mg/L
OM21	Compliance	R4	10/25/2023	Arsenic, total	0.00130	mg/L
OM21	Compliance	R4	10/25/2023	Barium, total	0.0260	mg/L
OM21	Compliance	R4	10/25/2023	Beryllium, total	0.00059 U	mg/L
OM21	Compliance	R4	10/25/2023	Boron, total	8.10	mg/L
OM21	Compliance	R4	10/25/2023	Cadmium, total	0.00074 U	mg/L
OM21	Compliance	R4	10/25/2023	Calcium, total	320	mg/L
OM21	Compliance	R4	10/25/2023	Chloride, total	270	mg/L
OM21	Compliance	R4	10/25/2023	Chromium, total	0.0033	mg/L
OM21	Compliance	R4	10/25/2023	Cobalt, total	0.002 UJ	mg/L
OM21	Compliance	R4	10/25/2023	Dissolved Oxygen	0.590	mg/L
OM21	Compliance	R4	10/25/2023	Fluoride, total	0.260	mg/L
OM21	Compliance	R4	10/25/2023	Lead, total	0.00170 J+	mg/L
OM21	Compliance	R4	10/25/2023	Lithium, total	0.0400	mg/L
OM21	Compliance	R4	10/25/2023	Mercury, total	0.000520	mg/L
OM21	Compliance	R4	10/25/2023	Molybdenum, total	0.00210	mg/L
OM21	Compliance	R4	10/25/2023	Oxidation Reduction Potential	-35.0	mV
OM21	Compliance	R4	10/25/2023	pH (field)	6.7	SU
OM21	Compliance	R4	10/25/2023	Radium 226 + Radium 228, total	1.39	pCi/L
OM21	Compliance	R4	10/25/2023	Selenium, total	0.00074 U	mg/L
OM21	Compliance	R4	10/25/2023	Specific Conductance @ 25C (field)	3,840	micromhos/cm
OM21	Compliance	R4	10/25/2023	Sulfate, total	1,100	mg/L
OM21	Compliance	R4	10/25/2023	Temperature (Celsius)	15.3	degrees C
OM21	Compliance	R4	10/25/2023	Thallium, total	0.00038 U	mg/L
OM21	Compliance	R4	10/25/2023	Total Dissolved Solids	2,600	mg/L
OM21	Compliance	R4	10/25/2023	Turbidity, field	209	NTU
OM22D	Compliance	R4	10/23/2023	Antimony, total	0.00043 U	mg/L
OM22D	Compliance	R4	10/23/2023	Arsenic, total	0.00270	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023**

2023 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM22D	Compliance	R4	10/23/2023	Barium, total	0.0490 J+	mg/L
OM22D	Compliance	R4	10/23/2023	Beryllium, total	0.00059 U	mg/L
OM22D	Compliance	R4	10/23/2023	Boron, total	60.0	mg/L
OM22D	Compliance	R4	10/23/2023	Cadmium, total	0.00074 U	mg/L
OM22D	Compliance	R4	10/23/2023	Calcium, total	610	mg/L
OM22D	Compliance	R4	10/23/2023	Chloride, total	810	mg/L
OM22D	Compliance	R4	10/23/2023	Chromium, total	0.00730	mg/L
OM22D	Compliance	R4	10/23/2023	Cobalt, total	0.00420	mg/L
OM22D	Compliance	R4	10/23/2023	Dissolved Oxygen	0.380	mg/L
OM22D	Compliance	R4	10/23/2023	Fluoride, total	0.229	mg/L
OM22D	Compliance	R4	10/23/2023	Lead, total	0.00190	mg/L
OM22D	Compliance	R4	10/23/2023	Lithium, total	0.0450	mg/L
OM22D	Compliance	R4	10/23/2023	Mercury, total	0.00014 U	mg/L
OM22D	Compliance	R4	10/23/2023	Molybdenum, total	0.120	mg/L
OM22D	Compliance	R4	10/23/2023	Oxidation Reduction Potential	-13.8	mV
OM22D	Compliance	R4	10/23/2023	pH (field)	6.9	SU
OM22D	Compliance	R4	10/23/2023	Radium 226 + Radium 228, total	2.45	pCi/L
OM22D	Compliance	R4	10/23/2023	Selenium, total	0.00074 U	mg/L
OM22D	Compliance	R4	10/23/2023	Specific Conductance @ 25C (field)	4,426	micromhos/cm
OM22D	Compliance	R4	10/23/2023	Sulfate, total	920	mg/L
OM22D	Compliance	R4	10/23/2023	Temperature (Celsius)	14.3	degrees C
OM22D	Compliance	R4	10/23/2023	Thallium, total	0.00038 U	mg/L
OM22D	Compliance	R4	10/23/2023	Total Dissolved Solids	4,000	mg/L
OM22D	Compliance	R4	10/23/2023	Turbidity, field	889	NTU
OM23D	Compliance	R4	10/23/2023	Antimony, total	0.00043 U	mg/L
OM23D	Compliance	R4	10/23/2023	Arsenic, total	0.00180	mg/L
OM23D	Compliance	R4	10/23/2023	Barium, total	0.0380 J+	mg/L
OM23D	Compliance	R4	10/23/2023	Beryllium, total	0.00059 U	mg/L
OM23D	Compliance	R4	10/23/2023	Cadmium, total	0.00074 U	mg/L
OM23D	Compliance	R4	10/23/2023	Calcium, total	160	mg/L
OM23D	Compliance	R4	10/23/2023	Chloride, total	31.0	mg/L
OM23D	Compliance	R4	10/23/2023	Chromium, total	0.00400	mg/L
OM23D	Compliance	R4	10/23/2023	Cobalt, total	0.00220	mg/L
OM23D	Compliance	R4	10/23/2023	Dissolved Oxygen	0.730	mg/L
OM23D	Compliance	R4	10/23/2023	Fluoride, total	0.123	mg/L
OM23D	Compliance	R4	10/23/2023	Lead, total	0.00250	mg/L
OM23D	Compliance	R4	10/23/2023	Lithium, total	0.0360	mg/L
OM23D	Compliance	R4	10/23/2023	Mercury, total	0.00014 U	mg/L
OM23D	Compliance	R4	10/23/2023	Molybdenum, total	0.00240	mg/L
OM23D	Compliance	R4	10/23/2023	Oxidation Reduction Potential	-42.9	mV
OM23D	Compliance	R4	10/23/2023	pH (field)	7.0	SU
OM23D	Compliance	R4	10/23/2023	Radium 226 + Radium 228, total	1.26	pCi/L
OM23D	Compliance	R4	10/23/2023	Selenium, total	0.00074 U	mg/L
OM23D	Compliance	R4	10/23/2023	Specific Conductance @ 25C (field)	1,771	micromhos/cm
OM23D	Compliance	R4	10/23/2023	Sulfate, total	360	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM23D	Compliance	R4	10/23/2023	Temperature (Celsius)	14.6	degrees C
OM23D	Compliance	R4	10/23/2023	Thallium, total	0.00038 U	mg/L
OM23D	Compliance	R4	10/23/2023	Total Dissolved Solids	1,200	mg/L
OM23D	Compliance	R4	10/23/2023	Turbidity, field	1,000	NTU
OM24D	Compliance	R4	10/23/2023	Antimony, total	0.00043 U	mg/L
OM24D	Compliance	R4	10/23/2023	Arsenic, total	0.00530	mg/L
OM24D	Compliance	R4	10/23/2023	Barium, total	0.0820	mg/L
OM24D	Compliance	R4	10/23/2023	Beryllium, total	0.00059 U	mg/L
OM24D	Compliance	R4	10/23/2023	Boron, total	23.0	mg/L
OM24D	Compliance	R4	10/23/2023	Cadmium, total	0.00074 U	mg/L
OM24D	Compliance	R4	10/23/2023	Calcium, total	400	mg/L
OM24D	Compliance	R4	10/23/2023	Chloride, total	500	mg/L
OM24D	Compliance	R4	10/23/2023	Chromium, total	0.00790	mg/L
OM24D	Compliance	R4	10/23/2023	Cobalt, total	0.00340	mg/L
OM24D	Compliance	R4	10/23/2023	Dissolved Oxygen	1.30	mg/L
OM24D	Compliance	R4	10/23/2023	Fluoride, total	0.266	mg/L
OM24D	Compliance	R4	10/23/2023	Lead, total	0.00740	mg/L
OM24D	Compliance	R4	10/23/2023	Lithium, total	0.014	mg/L
OM24D	Compliance	R4	10/23/2023	Mercury, total	0.00014 U	mg/L
OM24D	Compliance	R4	10/23/2023	Molybdenum, total	0.00670	mg/L
OM24D	Compliance	R4	10/23/2023	Oxidation Reduction Potential	-45.2	mV
OM24D	Compliance	R4	10/23/2023	pH (field)	6.7	SU
OM24D	Compliance	R4	10/23/2023	Radium 226 + Radium 228, total	1.74	pCi/L
OM24D	Compliance	R4	10/23/2023	Selenium, total	0.00074 U	mg/L
OM24D	Compliance	R4	10/23/2023	Specific Conductance @ 25C (field)	3,344	micromhos/cm
OM24D	Compliance	R4	10/23/2023	Sulfate, total	820	mg/L
OM24D	Compliance	R4	10/23/2023	Temperature (Celsius)	15.6	degrees C
OM24D	Compliance	R4	10/23/2023	Thallium, total	0.00038 U	mg/L
OM24D	Compliance	R4	10/23/2023	Total Dissolved Solids	2,600	mg/L
OM24D	Compliance	R4	10/23/2023	Turbidity, field	371	NTU
OM25S	Compliance	R4	10/23/2023	Antimony, total	0.001	mg/L
OM25S	Compliance	R4	10/23/2023	Arsenic, total	0.0500	mg/L
OM25S	Compliance	R4	10/23/2023	Barium, total	0.630	mg/L
OM25S	Compliance	R4	10/23/2023	Beryllium, total	0.012 U	mg/L
OM25S	Compliance	R4	10/23/2023	Boron, total	34.0	mg/L
OM25S	Compliance	R4	10/23/2023	Cadmium, total	0.00088	mg/L
OM25S	Compliance	R4	10/23/2023	Calcium, total	480	mg/L
OM25S	Compliance	R4	10/23/2023	Chloride, total	650	mg/L
OM25S	Compliance	R4	10/23/2023	Chromium, total	0.190	mg/L
OM25S	Compliance	R4	10/23/2023	Cobalt, total	0.120	mg/L
OM25S	Compliance	R4	10/23/2023	Dissolved Oxygen	2.50	mg/L
OM25S	Compliance	R4	10/23/2023	Fluoride, total	0.175	mg/L
OM25S	Compliance	R4	10/23/2023	Lead, total	0.110	mg/L
OM25S	Compliance	R4	10/23/2023	Lithium, total	0.270	mg/L
OM25S	Compliance	R4	10/23/2023	Mercury, total	0.000230	mg/L
OM25S	Compliance	R4	10/23/2023	Molybdenum, total	0.0120	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OM25S	Compliance	R4	10/23/2023	Oxidation Reduction Potential	-9.30	mV
OM25S	Compliance	R4	10/23/2023	pH (field)	6.8	SU
OM25S	Compliance	R4	10/23/2023	Radium 226 + Radium 228, total	7.02	pCi/L
OM25S	Compliance	R4	10/23/2023	Selenium, total	0.00360	mg/L
OM25S	Compliance	R4	10/23/2023	Specific Conductance @ 25C (field)	3,656	micromhos/cm
OM25S	Compliance	R4	10/23/2023	Sulfate, total	730	mg/L
OM25S	Compliance	R4	10/23/2023	Temperature (Celsius)	14.4	degrees C
OM25S	Compliance	R4	10/23/2023	Thallium, total	0.00110	mg/L
OM25S	Compliance	R4	10/23/2023	Total Dissolved Solids	2,900	mg/L
OM25S	Compliance	R4	10/23/2023	Turbidity, field	1,670	NTU
OR02	Compliance	R4	10/27/2023	Antimony, total	0.00059 J-	mg/L
OR02	Compliance	R4	10/27/2023	Arsenic, total	0.0280	mg/L
OR02	Compliance	R4	10/27/2023	Barium, total	0.220	mg/L
OR02	Compliance	R4	10/27/2023	Beryllium, total	0.00140	mg/L
OR02	Compliance	R4	10/27/2023	Boron, total	5.00	mg/L
OR02	Compliance	R4	10/27/2023	Cadmium, total	0.00074 U	mg/L
OR02	Compliance	R4	10/27/2023	Calcium, total	230	mg/L
OR02	Compliance	R4	10/27/2023	Chloride, total	190	mg/L
OR02	Compliance	R4	10/27/2023	Chromium, total	0.0370	mg/L
OR02	Compliance	R4	10/27/2023	Cobalt, total	0.0240	mg/L
OR02	Compliance	R4	10/27/2023	Dissolved Oxygen	2.30	mg/L
OR02	Compliance	R4	10/27/2023	Fluoride, total	0.123	mg/L
OR02	Compliance	R4	10/27/2023	Lead, total	0.0340	mg/L
OR02	Compliance	R4	10/27/2023	Lithium, total	0.0230	mg/L
OR02	Compliance	R4	10/27/2023	Mercury, total	0.00016	mg/L
OR02	Compliance	R4	10/27/2023	Molybdenum, total	0.00940	mg/L
OR02	Compliance	R4	10/27/2023	Oxidation Reduction Potential	-15.0	mV
OR02	Compliance	R4	10/27/2023	pH (field)	7.0	SU
OR02	Compliance	R4	10/27/2023	Radium 226 + Radium 228, total	4.54	pCi/L
OR02	Compliance	R4	10/27/2023	Selenium, total	0.00310	mg/L
OR02	Compliance	R4	10/27/2023	Specific Conductance @ 25C (field)	1,920	micromhos/cm
OR02	Compliance	R4	10/27/2023	Sulfate, total	230	mg/L
OR02	Compliance	R4	10/27/2023	Temperature (Celsius)	15.7	degrees C
OR02	Compliance	R4	10/27/2023	Thallium, total	0.00042	mg/L
OR02	Compliance	R4	10/27/2023	Total Dissolved Solids	1,300 J	mg/L
OR02	Compliance	R4	10/27/2023	Turbidity, field	1,000	NTU
OR03D	Compliance	R4	10/23/2023	Antimony, total	0.00084	mg/L
OR03D	Compliance	R4	10/23/2023	Arsenic, total	0.0200	mg/L
OR03D	Compliance	R4	10/23/2023	Barium, total	0.580	mg/L
OR03D	Compliance	R4	10/23/2023	Beryllium, total	0.00390	mg/L
OR03D	Compliance	R4	10/23/2023	Boron, total	27.0	mg/L
OR03D	Compliance	R4	10/23/2023	Cadmium, total	0.00091	mg/L
OR03D	Compliance	R4	10/23/2023	Calcium, total	420	mg/L
OR03D	Compliance	R4	10/23/2023	Chloride, total	820	mg/L
OR03D	Compliance	R4	10/23/2023	Chromium, total	0.140	mg/L
OR03D	Compliance	R4	10/23/2023	Cobalt, total	0.0680	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR03D	Compliance	R4	10/23/2023	Dissolved Oxygen	8.90	mg/L
OR03D	Compliance	R4	10/23/2023	Fluoride, total	0.228	mg/L
OR03D	Compliance	R4	10/23/2023	Lead, total	0.0500	mg/L
OR03D	Compliance	R4	10/23/2023	Lithium, total	0.140	mg/L
OR03D	Compliance	R4	10/23/2023	Mercury, total	0.00017	mg/L
OR03D	Compliance	R4	10/23/2023	Molybdenum, total	0.0110	mg/L
OR03D	Compliance	R4	10/23/2023	Oxidation Reduction Potential	-29.1	mV
OR03D	Compliance	R4	10/23/2023	pH (field)	7.4	SU
OR03D	Compliance	R4	10/23/2023	Radium 226 + Radium 228, total	6.16	pCi/L
OR03D	Compliance	R4	10/23/2023	Selenium, total	0.00500	mg/L
OR03D	Compliance	R4	10/23/2023	Specific Conductance @ 25C (field)	3,684	micromhos/cm
OR03D	Compliance	R4	10/23/2023	Sulfate, total	490	mg/L
OR03D	Compliance	R4	10/23/2023	Temperature (Celsius)	22.2	degrees C
OR03D	Compliance	R4	10/23/2023	Thallium, total	0.00082	mg/L
OR03D	Compliance	R4	10/23/2023	Total Dissolved Solids	4,800	mg/L
OR03D	Compliance	R4	10/23/2023	Turbidity, field	1,000	NTU
OR04D	Compliance	R4	10/25/2023	Antimony, total	0.00043 U	mg/L
OR04D	Compliance	R4	10/25/2023	Arsenic, total	0.00490	mg/L
OR04D	Compliance	R4	10/25/2023	Barium, total	0.0510	mg/L
OR04D	Compliance	R4	10/25/2023	Beryllium, total	0.00059 U	mg/L
OR04D	Compliance	R4	10/25/2023	Boron, total	80.0	mg/L
OR04D	Compliance	R4	10/25/2023	Cadmium, total	0.00074 U	mg/L
OR04D	Compliance	R4	10/25/2023	Calcium, total	660	mg/L
OR04D	Compliance	R4	10/25/2023	Chloride, total	1,100	mg/L
OR04D	Compliance	R4	10/25/2023	Chromium, total	0.00750	mg/L
OR04D	Compliance	R4	10/25/2023	Cobalt, total	0.00430 J+	mg/L
OR04D	Compliance	R4	10/25/2023	Dissolved Oxygen	3.30	mg/L
OR04D	Compliance	R4	10/25/2023	Fluoride, total	0.233	mg/L
OR04D	Compliance	R4	10/25/2023	Lead, total	0.00420	mg/L
OR04D	Compliance	R4	10/25/2023	Lithium, total	0.0630	mg/L
OR04D	Compliance	R4	10/25/2023	Mercury, total	0.000210	mg/L
OR04D	Compliance	R4	10/25/2023	Molybdenum, total	0.00520	mg/L
OR04D	Compliance	R4	10/25/2023	Oxidation Reduction Potential	-27.0	mV
OR04D	Compliance	R4	10/25/2023	pH (field)	6.5	SU
OR04D	Compliance	R4	10/25/2023	Radium 226 + Radium 228, total	0.500	pCi/L
OR04D	Compliance	R4	10/25/2023	Selenium, total	0.00074 U	mg/L
OR04D	Compliance	R4	10/25/2023	Specific Conductance @ 25C (field)	6,410	micromhos/cm
OR04D	Compliance	R4	10/25/2023	Sulfate, total	1,100	mg/L
OR04D	Compliance	R4	10/25/2023	Temperature (Celsius)	15.5	degrees C
OR04D	Compliance	R4	10/25/2023	Thallium, total	0.00038 U	mg/L
OR04D	Compliance	R4	10/25/2023	Total Dissolved Solids	4,000	mg/L
OR04D	Compliance	R4	10/25/2023	Turbidity, field	821	NTU
OR06A	Compliance	R4	10/26/2023	Antimony, total	0.00043 U	mg/L
OR06A	Compliance	R4	10/26/2023	Arsenic, total	0.0110	mg/L
OR06A	Compliance	R4	10/26/2023	Barium, total	0.0400	mg/L
OR06A	Compliance	R4	10/26/2023	Beryllium, total	0.00059 U	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR06A	Compliance	R4	10/26/2023	Boron, total	70.0	mg/L
OR06A	Compliance	R4	10/26/2023	Cadmium, total	0.00074 U	mg/L
OR06A	Compliance	R4	10/26/2023	Calcium, total	490	mg/L
OR06A	Compliance	R4	10/26/2023	Chloride, total	510	mg/L
OR06A	Compliance	R4	10/26/2023	Chromium, total	0.0028 U	mg/L
OR06A	Compliance	R4	10/26/2023	Cobalt, total	0.00220 J+	mg/L
OR06A	Compliance	R4	10/26/2023	Dissolved Oxygen	2.90	mg/L
OR06A	Compliance	R4	10/26/2023	Fluoride, total	0.157	mg/L
OR06A	Compliance	R4	10/26/2023	Lead, total	0.001 UJ	mg/L
OR06A	Compliance	R4	10/26/2023	Lithium, total	0.011	mg/L
OR06A	Compliance	R4	10/26/2023	Mercury, total	0.00014 U	mg/L
OR06A	Compliance	R4	10/26/2023	Molybdenum, total	0.0920	mg/L
OR06A	Compliance	R4	10/26/2023	Oxidation Reduction Potential	-30.0	mV
OR06A	Compliance	R4	10/26/2023	pH (field)	6.6	SU
OR06A	Compliance	R4	10/26/2023	Radium 226 + Radium 228, total	1.17	pCi/L
OR06A	Compliance	R4	10/26/2023	Selenium, total	0.00074 U	mg/L
OR06A	Compliance	R4	10/26/2023	Specific Conductance @ 25C (field)	3,430	micromhos/cm
OR06A	Compliance	R4	10/26/2023	Sulfate, total	650	mg/L
OR06A	Compliance	R4	10/26/2023	Temperature (Celsius)	17.3	degrees C
OR06A	Compliance	R4	10/26/2023	Thallium, total	0.00038 U	mg/L
OR06A	Compliance	R4	10/26/2023	Total Dissolved Solids	2,800	mg/L
OR06A	Compliance	R4	10/26/2023	Turbidity, field	368	NTU
OR11	Compliance	R4	10/24/2023	Antimony, total	0.00043 U	mg/L
OR11	Compliance	R4	10/24/2023	Arsenic, total	0.00270	mg/L
OR11	Compliance	R4	10/24/2023	Barium, total	0.0660	mg/L
OR11	Compliance	R4	10/24/2023	Beryllium, total	0.00059 U	mg/L
OR11	Compliance	R4	10/24/2023	Boron, total	11.0	mg/L
OR11	Compliance	R4	10/24/2023	Cadmium, total	0.00074 U	mg/L
OR11	Compliance	R4	10/24/2023	Calcium, total	140	mg/L
OR11	Compliance	R4	10/24/2023	Chloride, total	89.0	mg/L
OR11	Compliance	R4	10/24/2023	Chromium, total	0.00590	mg/L
OR11	Compliance	R4	10/24/2023	Cobalt, total	0.00360	mg/L
OR11	Compliance	R4	10/24/2023	Dissolved Oxygen	5.20	mg/L
OR11	Compliance	R4	10/24/2023	Fluoride, total	0.296	mg/L
OR11	Compliance	R4	10/24/2023	Lead, total	0.00390	mg/L
OR11	Compliance	R4	10/24/2023	Lithium, total	0.0210	mg/L
OR11	Compliance	R4	10/24/2023	Mercury, total	0.000270	mg/L
OR11	Compliance	R4	10/24/2023	Molybdenum, total	0.00780	mg/L
OR11	Compliance	R4	10/24/2023	Oxidation Reduction Potential	2.00	mV
OR11	Compliance	R4	10/24/2023	pH (field)	7.3	SU
OR11	Compliance	R4	10/24/2023	Radium 226 + Radium 228, total	1.10	pCi/L
OR11	Compliance	R4	10/24/2023	Selenium, total	0.00074 U	mg/L
OR11	Compliance	R4	10/24/2023	Specific Conductance @ 25C (field)	1,350	micromhos/cm
OR11	Compliance	R4	10/24/2023	Sulfate, total	170	mg/L
OR11	Compliance	R4	10/24/2023	Temperature (Celsius)	15.5	degrees C
OR11	Compliance	R4	10/24/2023	Thallium, total	0.00038 U	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR11	Compliance	R4	10/24/2023	Total Dissolved Solids	840	mg/L
OR11	Compliance	R4	10/24/2023	Turbidity, field	450	NTU
OR13S	Compliance	R4	10/17/2023	Antimony, total	0.00076	mg/L
OR13S	Compliance	R4	10/17/2023	Arsenic, total	0.0400	mg/L
OR13S	Compliance	R4	10/17/2023	Barium, total	0.0780	mg/L
OR13S	Compliance	R4	10/17/2023	Beryllium, total	0.00059 U	mg/L
OR13S	Compliance	R4	10/17/2023	Boron, total	3.30	mg/L
OR13S	Compliance	R4	10/17/2023	Cadmium, total	0.00074 U	mg/L
OR13S	Compliance	R4	10/17/2023	Calcium, total	260	mg/L
OR13S	Compliance	R4	10/17/2023	Chloride, total	39.0	mg/L
OR13S	Compliance	R4	10/17/2023	Chromium, total	0.00660	mg/L
OR13S	Compliance	R4	10/17/2023	Cobalt, total	0.00500	mg/L
OR13S	Compliance	R4	10/17/2023	Dissolved Oxygen	3.80	mg/L
OR13S	Compliance	R4	10/17/2023	Fluoride, total	0.218	mg/L
OR13S	Compliance	R4	10/17/2023	Lead, total	0.0130	mg/L
OR13S	Compliance	R4	10/17/2023	Lithium, total	0.0210	mg/L
OR13S	Compliance	R4	10/17/2023	Mercury, total	0.00014 U	mg/L
OR13S	Compliance	R4	10/17/2023	Molybdenum, total	0.00880	mg/L
OR13S	Compliance	R4	10/17/2023	Oxidation Reduction Potential	20.0	mV
OR13S	Compliance	R4	10/17/2023	pH (field)	6.1	SU
OR13S	Compliance	R4	10/17/2023	Radium 226 + Radium 228, total	1.55	pCi/L
OR13S	Compliance	R4	10/17/2023	Selenium, total	0.00087	mg/L
OR13S	Compliance	R4	10/17/2023	Specific Conductance @ 25C (field)	1,900	micromhos/cm
OR13S	Compliance	R4	10/17/2023	Sulfate, total	560	mg/L
OR13S	Compliance	R4	10/17/2023	Temperature (Celsius)	15.0	degrees C
OR13S	Compliance	R4	10/17/2023	Thallium, total	0.00038 U	mg/L
OR13S	Compliance	R4	10/17/2023	Total Dissolved Solids	1,400	mg/L
OR13S	Compliance	R4	10/17/2023	Turbidity, field	210	NTU
OR13D	Compliance	R4	10/26/2023	Antimony, total	0.00044	mg/L
OR13D	Compliance	R4	10/26/2023	Arsenic, total	0.0300	mg/L
OR13D	Compliance	R4	10/26/2023	Barium, total	0.120	mg/L
OR13D	Compliance	R4	10/26/2023	Beryllium, total	0.00074	mg/L
OR13D	Compliance	R4	10/26/2023	Boron, total	1.80	mg/L
OR13D	Compliance	R4	10/26/2023	Cadmium, total	0.00074 U	mg/L
OR13D	Compliance	R4	10/26/2023	Calcium, total	130	mg/L
OR13D	Compliance	R4	10/26/2023	Chloride, total	37.0	mg/L
OR13D	Compliance	R4	10/26/2023	Chromium, total	0.0300	mg/L
OR13D	Compliance	R4	10/26/2023	Cobalt, total	0.00620 J+	mg/L
OR13D	Compliance	R4	10/26/2023	Dissolved Oxygen	3.30	mg/L
OR13D	Compliance	R4	10/26/2023	Fluoride, total	0.126	mg/L
OR13D	Compliance	R4	10/26/2023	Lead, total	0.0110	mg/L
OR13D	Compliance	R4	10/26/2023	Lithium, total	0.0320	mg/L
OR13D	Compliance	R4	10/26/2023	Mercury, total	0.00014 U	mg/L
OR13D	Compliance	R4	10/26/2023	Molybdenum, total	0.00940	mg/L
OR13D	Compliance	R4	10/26/2023	Oxidation Reduction Potential	-53.0	mV
OR13D	Compliance	R4	10/26/2023	pH (field)	6.8	SU

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR13D	Compliance	R4	10/26/2023	Radium 226 + Radium 228, total	0.440	pCi/L
OR13D	Compliance	R4	10/26/2023	Selenium, total	0.00130	mg/L
OR13D	Compliance	R4	10/26/2023	Specific Conductance @ 25C (field)	1,920	micromhos/cm
OR13D	Compliance	R4	10/26/2023	Sulfate, total	280	mg/L
OR13D	Compliance	R4	10/26/2023	Temperature (Celsius)	15.7	degrees C
OR13D	Compliance	R4	10/26/2023	Thallium, total	0.00038 U	mg/L
OR13D	Compliance	R4	10/26/2023	Total Dissolved Solids	1,200	mg/L
OR13D	Compliance	R4	10/26/2023	Turbidity, field	1,000	NTU
OR14D	Compliance	R4	10/25/2023	Antimony, total	0.0013	mg/L
OR14D	Compliance	R4	10/25/2023	Arsenic, total	0.0300	mg/L
OR14D	Compliance	R4	10/25/2023	Barium, total	0.260	mg/L
OR14D	Compliance	R4	10/25/2023	Beryllium, total	0.00220	mg/L
OR14D	Compliance	R4	10/25/2023	Boron, total	19.0	mg/L
OR14D	Compliance	R4	10/25/2023	Cadmium, total	0.00410	mg/L
OR14D	Compliance	R4	10/25/2023	Calcium, total	480	mg/L
OR14D	Compliance	R4	10/25/2023	Chloride, total	360	mg/L
OR14D	Compliance	R4	10/25/2023	Chromium, total	0.0650	mg/L
OR14D	Compliance	R4	10/25/2023	Cobalt, total	0.0380	mg/L
OR14D	Compliance	R4	10/25/2023	Dissolved Oxygen	2.30	mg/L
OR14D	Compliance	R4	10/25/2023	Fluoride, total	0.253	mg/L
OR14D	Compliance	R4	10/25/2023	Lead, total	0.0490	mg/L
OR14D	Compliance	R4	10/25/2023	Lithium, total	0.0830	mg/L
OR14D	Compliance	R4	10/25/2023	Mercury, total	0.000230	mg/L
OR14D	Compliance	R4	10/25/2023	Molybdenum, total	0.0140	mg/L
OR14D	Compliance	R4	10/25/2023	Oxidation Reduction Potential	-42.0	mV
OR14D	Compliance	R4	10/25/2023	pH (field)	7.0	SU
OR14D	Compliance	R4	10/25/2023	Radium 226 + Radium 228, total	2.65	pCi/L
OR14D	Compliance	R4	10/25/2023	Selenium, total	0.00610	mg/L
OR14D	Compliance	R4	10/25/2023	Specific Conductance @ 25C (field)	3,150	micromhos/cm
OR14D	Compliance	R4	10/25/2023	Sulfate, total	780	mg/L
OR14D	Compliance	R4	10/25/2023	Temperature (Celsius)	16.7	degrees C
OR14D	Compliance	R4	10/25/2023	Thallium, total	0.0008	mg/L
OR14D	Compliance	R4	10/25/2023	Total Dissolved Solids	2,200	mg/L
OR14D	Compliance	R4	10/25/2023	Turbidity, field	1,000	NTU
OR19	Compliance	R4	10/25/2023	Antimony, total	0.00043 U	mg/L
OR19	Compliance	R4	10/25/2023	Arsenic, total	0.00690	mg/L
OR19	Compliance	R4	10/25/2023	Barium, total	0.110	mg/L
OR19	Compliance	R4	10/25/2023	Beryllium, total	0.00100	mg/L
OR19	Compliance	R4	10/25/2023	Boron, total	13.0	mg/L
OR19	Compliance	R4	10/25/2023	Cadmium, total	0.00074 U	mg/L
OR19	Compliance	R4	10/25/2023	Calcium, total	340	mg/L
OR19	Compliance	R4	10/25/2023	Chloride, total	160	mg/L
OR19	Compliance	R4	10/25/2023	Chromium, total	0.0270	mg/L
OR19	Compliance	R4	10/25/2023	Cobalt, total	0.0120	mg/L
OR19	Compliance	R4	10/25/2023	Dissolved Oxygen	7.50	mg/L
OR19	Compliance	R4	10/25/2023	Fluoride, total	0.366	mg/L

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
OR19	Compliance	R4	10/25/2023	Lead, total	0.0170	mg/L
OR19	Compliance	R4	10/25/2023	Lithium, total	0.0370	mg/L
OR19	Compliance	R4	10/25/2023	Mercury, total	0.00014	mg/L
OR19	Compliance	R4	10/25/2023	Molybdenum, total	0.00520	mg/L
OR19	Compliance	R4	10/25/2023	Oxidation Reduction Potential	-53.0	mV
OR19	Compliance	R4	10/25/2023	pH (field)	7.0	SU
OR19	Compliance	R4	10/25/2023	Radium 226 + Radium 228, total	2.15	pCi/L
OR19	Compliance	R4	10/25/2023	Selenium, total	0.00120	mg/L
OR19	Compliance	R4	10/25/2023	Specific Conductance @ 25C (field)	2,950	micromhos/cm
OR19	Compliance	R4	10/25/2023	Sulfate, total	920	mg/L
OR19	Compliance	R4	10/25/2023	Temperature (Celsius)	16.3	degrees C
OR19	Compliance	R4	10/25/2023	Thallium, total	0.00038 U	mg/L
OR19	Compliance	R4	10/25/2023	Total Dissolved Solids	2,200	mg/L
OR19	Compliance	R4	10/25/2023	Turbidity, field	1,000	NTU
OR20	Compliance	R4	10/24/2023	Antimony, total	0.0013	mg/L
OR20	Compliance	R4	10/24/2023	Arsenic, total	0.0440	mg/L
OR20	Compliance	R4	10/24/2023	Barium, total	0.100	mg/L
OR20	Compliance	R4	10/24/2023	Beryllium, total	0.00110	mg/L
OR20	Compliance	R4	10/24/2023	Boron, total	31.0	mg/L
OR20	Compliance	R4	10/24/2023	Cadmium, total	0.00074 U	mg/L
OR20	Compliance	R4	10/24/2023	Calcium, total	220	mg/L
OR20	Compliance	R4	10/24/2023	Chloride, total	300	mg/L
OR20	Compliance	R4	10/24/2023	Chromium, total	0.0220	mg/L
OR20	Compliance	R4	10/24/2023	Cobalt, total	0.0130	mg/L
OR20	Compliance	R4	10/24/2023	Dissolved Oxygen	2.30	mg/L
OR20	Compliance	R4	10/24/2023	Fluoride, total	0.499	mg/L
OR20	Compliance	R4	10/24/2023	Lead, total	0.0190	mg/L
OR20	Compliance	R4	10/24/2023	Lithium, total	0.0560	mg/L
OR20	Compliance	R4	10/24/2023	Mercury, total	0.00014 U	mg/L
OR20	Compliance	R4	10/24/2023	Molybdenum, total	0.0420	mg/L
OR20	Compliance	R4	10/24/2023	Oxidation Reduction Potential	-48.0	mV
OR20	Compliance	R4	10/24/2023	pH (field)	6.8	SU
OR20	Compliance	R4	10/24/2023	Radium 226 + Radium 228, total	0.493	pCi/L
OR20	Compliance	R4	10/24/2023	Selenium, total	0.00100	mg/L
OR20	Compliance	R4	10/24/2023	Specific Conductance @ 25C (field)	2,590	micromhos/cm
OR20	Compliance	R4	10/24/2023	Sulfate, total	360	mg/L
OR20	Compliance	R4	10/24/2023	Temperature (Celsius)	14.7	degrees C
OR20	Compliance	R4	10/24/2023	Thallium, total	0.00038 U	mg/L
OR20	Compliance	R4	10/24/2023	Total Dissolved Solids	1,600	mg/L
OR20	Compliance	R4	10/24/2023	Turbidity, field	1,000	NTU

TABLE 1.**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Notes:

C = Celsius

cm = centimeter

mg/L = milligrams per liter

mV = millivolts

NTU = Nephelometric Turbidity Units

pCi/L = picocuries per liter

SU = Standard Units

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

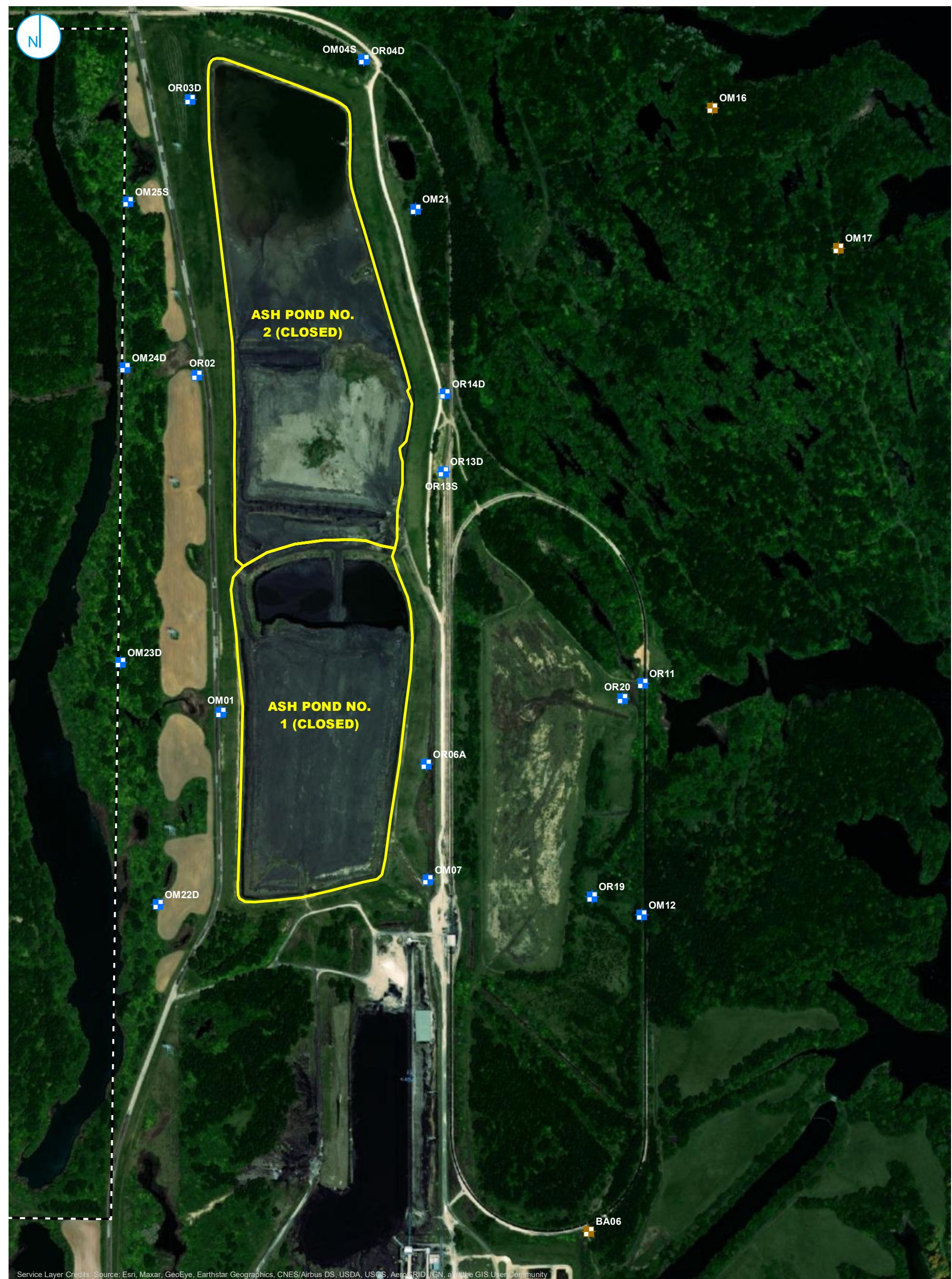
J- = The result is an estimated quantity, but the result may be biased low.

J+ = The result is an estimated quantity, but the result may be biased high.

U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

FIGURES



- BACKGROUND WELL
- COMPLIANCE WELL
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY

MONITORING WELL LOCATION MAP

FIGURE 1

ATTACHMENTS

ATTACHMENT A
GROUNDWATER ELEVATION DATA

ATTACHMENT A**GROUNDWATER ELEVATION DATA**

2023 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
BA06	Background	UA	01/09/2023	28.19	567.44
BA06	Background	UA	04/08/2023	20.99	574.64
BA06	Background	UA	05/08/2023	21.46	574.17
BA06	Background	UA	06/17/2023	26.66	568.97
BA06	Background	UA	07/17/2023	24.89	570.74
BA06	Background	UA	08/16/2023	22.00	573.63
BA06	Background	UA	09/16/2023	23.52	572.11
BA06	Background	UA	10/16/2023	24.70	570.93
BA06	Background	UA	11/20/2023	24.38	571.25
BA06	Background	UA	12/04/2023	22.62	573.01
OM01	Compliance	MS	01/09/2023	13.87	581.57
OM01	Compliance	MS	04/08/2023	9.99	585.44
OM01	Compliance	MS	05/08/2023	10.34	585.09
OM01	Compliance	MS	06/17/2023	11.84	583.60
OM01	Compliance	MS	07/17/2023	11.97	583.47
OM01	Compliance	MS	08/16/2023	11.79	583.65
OM01	Compliance	MS	09/16/2023	12.16	583.28
OM01	Compliance	MS	10/16/2023	13.01	582.43
OM01	Compliance	MS	11/20/2023	13.73	581.71
OM01	Compliance	MS	12/05/2023	13.78	581.66
OM04S	Compliance	MS	01/09/2023	21.09	586.15
OM04S	Compliance	MS	04/08/2023	17.27	589.96
OM04S	Compliance	MS	05/08/2023	17.50	589.73
OM04S	Compliance	MS	06/17/2023	18.87	588.36
OM04S	Compliance	MS	07/17/2023	19.80	587.43
OM04S	Compliance	MS	08/16/2023	20.26	586.97
OM04S	Compliance	MS	09/16/2023	20.60	586.63
OM04S	Compliance	MS	10/16/2023	21.19	586.05
OM04S	Compliance	MS	11/20/2023	21.37	585.87
OM04S	Compliance	MS	12/05/2023	21.48	585.76
OM07	Compliance	MS	01/09/2023	13.17	583.23
OM07	Compliance	MS	04/08/2023	12.95	583.44
OM07	Compliance	MS	05/08/2023	12.09	584.29
OM07	Compliance	MS	06/17/2023	12.13	584.26
OM07	Compliance	MS	07/17/2023	12.50	583.89
OM07	Compliance	MS	08/16/2023	12.71	583.68
OM07	Compliance	MS	09/16/2023	12.80	583.59
OM07	Compliance	MS	10/16/2023	13.11	583.29
OM07	Compliance	MS	11/20/2023	13.21	583.19
OM07	Compliance	MS	12/04/2023	13.37	583.03
OM12	Compliance	MS	01/09/2023	17.61	577.66
OM12	Compliance	MS	04/08/2023	18.40	576.86
OM12	Compliance	MS	05/08/2023	15.85	579.41
OM12	Compliance	MS	06/17/2023	14.06	581.20
OM12	Compliance	MS	07/17/2023	14.92	580.35
OM12	Compliance	MS	08/16/2023	14.90	580.37

ATTACHMENT A**GROUNDWATER ELEVATION DATA**

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DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
OM12	Compliance	MS	09/16/2023	15.15	580.12
OM12	Compliance	MS	10/16/2023	15.89	579.38
OM12	Compliance	MS	11/20/2023	18.22	577.05
OM12	Compliance	MS	12/04/2023	18.45	576.82
OM16	Background	MS	01/09/2023	24.90	582.86
OM16	Background	MS	04/08/2023	24.58	583.17
OM16	Background	MS	05/08/2023	22.95	584.80
OM16	Background	MS	06/17/2023	22.99	584.76
OM16	Background	MS	07/17/2023	24.21	583.54
OM16	Background	MS	08/16/2023	25.13	582.62
OM16	Background	MS	09/16/2023	25.99	581.76
OM16	Background	MS	10/16/2023	26.94	580.82
OM16	Background	MS	11/21/2023	28.64	579.12
OM16	Background	MS	12/04/2023	27.86	579.90
OM17	Background	MS	01/09/2023	13.21	578.76
OM17	Background	MS	08/16/2023	11.44	580.53
OM17	Background	MS	10/16/2023	15.26	576.71
OM17	Background	MS	11/21/2023	12.85	579.12
OM17	Background	MS	12/04/2023	12.11	579.86
OM21	Compliance	MS	01/09/2023	11.88	594.56
OM21	Compliance	MS	04/08/2023	8.92	597.51
OM21	Compliance	MS	05/08/2023	8.39	598.03
OM21	Compliance	MS	06/17/2023	9.74	596.69
OM21	Compliance	MS	07/17/2023	10.70	595.73
OM21	Compliance	MS	10/16/2023	12.66	593.78
OM21	Compliance	MS	11/20/2023	12.64	593.80
OM21	Compliance	MS	12/04/2023	12.87	593.57
OM22D	Compliance	MS	01/09/2023	20.70	578.16
OM22D	Compliance	MS	04/08/2023	17.50	581.34
OM22D	Compliance	MS	05/08/2023	17.80	581.04
OM22D	Compliance	MS	06/17/2023	18.92	579.93
OM22D	Compliance	MS	07/17/2023	18.72	580.13
OM22D	Compliance	MS	08/16/2023	18.49	580.36
OM22D	Compliance	MS	09/16/2023	18.92	579.93
OM22D	Compliance	MS	10/16/2023	20.08	578.78
OM22D	Compliance	MS	11/20/2023	20.43	578.43
OM22D	Compliance	MS	12/05/2023	26.43	572.43
OM23D	Compliance	MS	01/09/2023	39.29	573.76
OM23D	Compliance	MS	04/08/2023	37.96	575.08
OM23D	Compliance	MS	05/08/2023	37.65	575.40
OM23D	Compliance	MS	06/17/2023	38.08	574.97
OM23D	Compliance	MS	07/17/2023	38.54	574.51
OM23D	Compliance	MS	10/16/2023	38.95	574.10
OM23D	Compliance	MS	11/20/2023	39.26	573.79
OM23D	Compliance	MS	12/05/2023	39.36	573.69
OM24D	Compliance	MS	01/09/2023	4.00	572.72

ATTACHMENT A**GROUNDWATER ELEVATION DATA**

2023 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
OM24D	Compliance	MS	04/08/2023	1.82	574.90
OM24D	Compliance	MS	05/08/2023	1.90	574.82
OM24D	Compliance	MS	11/21/2023	4.77	571.95
OM24D	Compliance	MS	12/04/2023	4.32	572.40
OM25S	Compliance	MS	01/09/2023	57.97	570.77
OM25S	Compliance	MS	04/08/2023	57.70	571.04
OM25S	Compliance	MS	05/08/2023	57.78	570.96
OM25S	Compliance	MS	10/16/2023	15.20	613.54
OM25S	Compliance	MS	11/21/2023	58.18	570.56
OM25S	Compliance	MS	12/04/2023	58.24	570.50
OR02	Compliance	MS	01/09/2023	6.27	595.04
OR02	Compliance	MS	04/08/2023	4.44	596.85
OR02	Compliance	MS	05/08/2023	3.74	597.56
OR02	Compliance	MS	06/17/2023	7.08	594.22
OR02	Compliance	MS	07/17/2023	5.95	595.35
OR02	Compliance	MS	08/16/2023	6.04	595.26
OR02	Compliance	MS	09/16/2023	7.80	593.50
OR02	Compliance	MS	10/16/2023	7.81	593.50
OR02	Compliance	MS	11/21/2023	7.55	593.76
OR02	Compliance	MS	12/04/2023	6.34	594.97
OR03D	Compliance	MS	01/09/2023	44.19	583.76
OR03D	Compliance	MS	04/08/2023	44.55	583.38
OR03D	Compliance	MS	05/08/2023	44.36	583.57
OR03D	Compliance	MS	06/17/2023	44.75	583.19
OR03D	Compliance	MS	07/17/2023	44.82	583.12
OR03D	Compliance	MS	08/16/2023	45.01	582.93
OR03D	Compliance	MS	09/16/2023	45.05	582.89
OR03D	Compliance	MS	10/16/2023	45.45	582.50
OR03D	Compliance	MS	11/20/2023	45.09	582.86
OR03D	Compliance	MS	12/05/2023	45.29	582.66
OR04D	Compliance	MS	01/09/2023	21.52	585.97
OR04D	Compliance	MS	04/08/2023	19.91	587.57
OR04D	Compliance	MS	05/08/2023	20.10	587.38
OR04D	Compliance	MS	06/17/2023	20.63	586.85
OR04D	Compliance	MS	07/17/2023	20.95	586.53
OR04D	Compliance	MS	08/16/2023	21.18	586.30
OR04D	Compliance	MS	09/16/2023	21.46	586.02
OR04D	Compliance	MS	10/16/2023	23.01	584.48
OR04D	Compliance	MS	11/20/2023	21.80	585.69
OR04D	Compliance	MS	12/04/2023	21.92	585.57
OR06A	Compliance	MS	01/09/2023	14.23	581.05
OR06A	Compliance	MS	04/08/2023	13.18	582.09
OR06A	Compliance	MS	05/08/2023	12.71	582.56
OR06A	Compliance	MS	06/17/2023	13.53	581.74
OR06A	Compliance	MS	10/16/2023	15.14	580.14
OR06A	Compliance	MS	11/20/2023	14.74	580.54

ATTACHMENT A**GROUNDWATER ELEVATION DATA**

2023 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
OR06A	Compliance	MS	12/04/2023	14.71	580.57
OR11	Compliance	MS	01/09/2023	32.53	564.02
OR11	Compliance	MS	04/08/2023	30.51	566.04
OR11	Compliance	MS	05/08/2023	30.91	565.64
OR11	Compliance	MS	06/17/2023	32.12	564.43
OR11	Compliance	MS	07/17/2023	31.65	564.90
OR11	Compliance	MS	08/16/2023	31.46	565.09
OR11	Compliance	MS	09/16/2023	31.87	564.68
OR11	Compliance	MS	10/16/2023	32.28	564.27
OR11	Compliance	MS	11/20/2023	32.42	564.13
OR11	Compliance	MS	12/04/2023	32.43	564.12
OR13S	Compliance	MS	01/09/2023	13.39	589.15
OR13S	Compliance	MS	06/17/2023	13.02	589.52
OR13S	Compliance	MS	07/17/2023	13.30	589.24
OR13S	Compliance	MS	08/16/2023	13.25	589.29
OR13S	Compliance	MS	10/16/2023	14.72	587.82
OR13S	Compliance	MS	11/20/2023	14.92	587.62
OR13S	Compliance	MS	12/04/2023	14.65	587.89
OR13D	Compliance	MS	01/09/2023	13.57	588.95
OR13D	Compliance	MS	04/08/2023	12.18	590.33
OR13D	Compliance	MS	05/08/2023	12.00	590.52
OR13D	Compliance	MS	06/17/2023	12.92	589.60
OR13D	Compliance	MS	07/17/2023	13.31	589.21
OR13D	Compliance	MS	08/16/2023	13.61	588.91
OR13D	Compliance	MS	10/16/2023	14.62	587.90
OR13D	Compliance	MS	11/20/2023	14.66	587.86
OR13D	Compliance	MS	12/04/2023	14.68	587.84
OR14D	Compliance	MS	01/09/2023	10.24	588.52
OR14D	Compliance	MS	04/08/2023	8.92	589.82
OR14D	Compliance	MS	05/08/2023	8.47	590.28
OR14D	Compliance	MS	06/17/2023	9.75	589.00
OR14D	Compliance	MS	07/17/2023	9.92	588.83
OR14D	Compliance	MS	08/16/2023	11.65	587.10
OR14D	Compliance	MS	09/16/2023	11.74	587.01
OR14D	Compliance	MS	10/16/2023	11.79	586.97
OR14D	Compliance	MS	11/20/2023	11.66	587.10
OR14D	Compliance	MS	12/04/2023	11.22	587.54
OR19	Compliance	MS	01/09/2023	26.39	571.34
OR19	Compliance	MS	04/08/2023	25.05	572.68
OR19	Compliance	MS	05/08/2023	24.36	573.37
OR19	Compliance	MS	06/17/2023	25.21	572.52
OR19	Compliance	MS	07/17/2023	25.74	571.99
OR19	Compliance	MS	08/16/2023	25.62	572.11
OR19	Compliance	MS	09/16/2023	25.11	572.62
OR19	Compliance	MS	10/16/2023	25.80	571.93
OR19	Compliance	MS	11/20/2023	25.95	571.78

ATTACHMENT A
GROUNDWATER ELEVATION DATA

2023 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

DUCK CREEK POWER PLANT

ASH POND NO. 1 AND ASH POND NO. 2

CANTON, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
OR19	Compliance	MS	12/04/2023	26.13	571.60
OR20	Compliance	MS	01/09/2023	22.49	565.08
OR20	Compliance	MS	04/08/2023	20.89	566.68
OR20	Compliance	MS	05/08/2023	21.12	566.45
OR20	Compliance	MS	06/17/2023	21.80	565.77
OR20	Compliance	MS	07/17/2023	21.82	565.75
OR20	Compliance	MS	08/16/2023	21.71	565.86
OR20	Compliance	MS	09/16/2023	21.91	565.66
OR20	Compliance	MS	10/16/2023	22.30	565.27
OR20	Compliance	MS	11/20/2023	22.37	565.20
OR20	Compliance	MS	12/04/2023	22.37	565.20

Notes:

Due to malfunctioning pressure transducer, data gaps exist in monthly water level elevations prior to the fourth quarter. Monthly depth to water measurements were collected manually in the fourth quarter.

BMP = below measuring point

NAVD88 = North American Vertical Datum of 1988

Monitored Unit Abbreviations:

MS = mine spoils

UA = uppermost aquifer

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ATTACHMENT B
LABORATORY ANALYTICAL REPORTS AND FIELD
DATA SHEETS



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

February 15, 2023

Daryl Johnson
Vistra - Duck Creek
17751 North Cilco Road
Canton, IL 61520-8761

Dear Daryl Johnson:

Please find enclosed the analytical results for the sample(s) the laboratory received. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise . We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Sincerely,

Gail J Schindler

Gail Schindler
Project Manager
(309) 692-9688 x1716
gail.schindler@pacelabs.com



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order GA01700

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GA02003

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GA02056

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GA02365

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

ANALYTICAL RESULTS

Sample: GA01700-08

Sampled: 01/10/23 14:56

Name: BA06

Received: 01/11/23 07:00

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	590	mg/L		01/21/23 21:22	100	100	01/21/23 21:22	LAM	EPA 300.0 REV 2.1
Sulfate	300	mg/L		01/24/23 23:25	100	100	01/24/23 23:25	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	28.18	Feet		01/10/23 14:56	1		01/10/23 14:56	FIELD	Field*
Dissolved oxygen, Field	3.6	mg/L		01/10/23 14:56	1		01/10/23 14:56	FIELD	Field*
Oxidation Reduction Potential	-26.0	mV		01/10/23 14:56	1	-500	01/10/23 14:56	FIELD	Field*
pH, Field Measured	6.65	pH Units		01/10/23 14:56	1		01/10/23 14:56	FIELD	Field*
Specific Conductance, Field Measured	3090	umhos/cm		01/10/23 14:56	1		01/10/23 14:56	FIELD	Field*
Temperature, Field Measured	53.0	°F		01/10/23 14:56	1		01/10/23 14:56	FIELD	Field*
Temperature, Field Measured	11.7	°C		01/10/23 14:56	1		01/10/23 14:56	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		01/10/23 14:56	1	0.00	01/10/23 14:56	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	320	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Fluoride	0.258	mg/L		01/27/23 13:28	1	0.250	01/27/23 13:28	ANK	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	2100	mg/L		01/11/23 09:12	1	26	01/11/23 10:36	CPS	SM 2540C
Soluble Nutrients - PIA									
Ammonia, Dissolved	< 0.10	mg/L		01/12/23 14:41	1	0.10	01/12/23 14:41	TTH	EPA 350.1 REV2
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/16/23 09:23	5	3.0	01/18/23 09:46	JMW	EPA 6020A
Arsenic	9.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:46	JMW	EPA 6020A
Barium	120	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:46	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:46	JMW	EPA 6020A
Boron	7300	ug/L		01/16/23 09:23	5	11	01/18/23 09:46	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:46	JMW	EPA 6020A
Calcium	300	mg/L		01/19/23 08:31	5	0.20	01/20/23 12:26	JMW	EPA 6020A
Chromium	< 4.0	ug/L		01/16/23 09:23	5	4.0	01/18/23 09:46	JMW	EPA 6020A
Cobalt	9.9	ug/L		01/16/23 09:23	5	2.0	01/18/23 09:46	JMW	EPA 6020A
Lead	1.4	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:46	JMW	EPA 6020A



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

ANALYTICAL RESULTS

Sample: GA01700-08

Name: BA06

Matrix: Ground Water - Grab

Sampled: 01/10/23 14:56

Received: 01/11/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Magnesium	200	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:46	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/16/23 09:23	5	0.20	01/18/23 09:46	JMW	EPA 6020A
Molybdenum	1.4	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:46	JMW	EPA 6020A
Potassium	0.78	mg/L	B	01/16/23 09:23	5	0.10	01/18/23 09:46	JMW	EPA 6020A
Selenium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:46	JMW	EPA 6020A
Sodium	16	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:46	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:46	JMW	EPA 6020A
Lithium	< 0.020	mg/L		01/16/23 09:23	1	0.020	01/24/23 14:30	TJJ	EPA 6010B



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

ANALYTICAL RESULTS

Sample: GA01700-17

Name: OM12

Matrix: Ground Water - Grab

Sampled: 01/10/23 15:15

Received: 01/11/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	5.5	mg/L		01/21/23 21:40	1	1.0	01/21/23 21:40	LAM	EPA 300.0 REV 2.1
Sulfate	370	mg/L		01/24/23 23:43	100	100	01/24/23 23:43	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	17.51	Feet		01/10/23 15:15	1		01/10/23 15:15	FIELD	Field*
Dissolved oxygen, Field	2.6	mg/L		01/10/23 15:15	1		01/10/23 15:15	FIELD	Field*
Oxidation Reduction Potential	-39.0	mV		01/10/23 15:15	1	-500	01/10/23 15:15	FIELD	Field*
pH, Field Measured	6.60	pH Units		01/10/23 15:15	1		01/10/23 15:15	FIELD	Field*
Specific Conductance, Field Measured	2090	umhos/cm		01/10/23 15:15	1		01/10/23 15:15	FIELD	Field*
Temperature, Field Measured	12.1	°C		01/10/23 15:15	1		01/10/23 15:15	FIELD	Field*
Temperature, Field Measured	53.8	°F		01/10/23 15:15	1		01/10/23 15:15	FIELD	Field*
Turbidity, Field Measured	597	NTU		01/10/23 15:15	1	0.00	01/10/23 15:15	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	480	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Fluoride	0.252	mg/L		01/27/23 13:29	1	0.250	01/27/23 13:29	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1500	mg/L		01/11/23 09:12	1	26	01/11/23 10:36	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/16/23 09:23	5	3.0	01/18/23 09:49	JMW	EPA 6020A
Arsenic	28	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:49	JMW	EPA 6020A
Barium	290	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:49	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:49	JMW	EPA 6020A
Boron	140	ug/L		01/16/23 09:23	5	11	01/18/23 09:49	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:49	JMW	EPA 6020A
Calcium	300	mg/L		01/19/23 08:31	5	0.20	01/20/23 12:30	JMW	EPA 6020A
Chromium	6.8	ug/L		01/16/23 09:23	5	4.0	01/18/23 09:49	JMW	EPA 6020A
Cobalt	4.3	ug/L		01/16/23 09:23	5	2.0	01/18/23 09:49	JMW	EPA 6020A
Lead	7.8	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:49	JMW	EPA 6020A
Magnesium	120	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:49	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/16/23 09:23	5	0.20	01/18/23 09:49	JMW	EPA 6020A
Molybdenum	3.8	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:49	JMW	EPA 6020A
Potassium	2.0	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:49	JMW	EPA 6020A



Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Sample: GA01700-17

Name: OM12

Matrix: Ground Water - Grab

Sampled: 01/10/23 15:15

Received: 01/11/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:49	JMW	EPA 6020A
Sodium	13	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:49	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:49	JMW	EPA 6020A
Lithium	< 0.020	mg/L		01/16/23 09:23	1	0.020	01/24/23 14:32	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GA01700-18

Sampled: 01/10/23 13:56

Name: OM22D

Received: 01/11/23 07:00

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	900	mg/L		01/21/23 22:52	100	100	01/21/23 22:52	LAM	EPA 300.0 REV 2.1
Sulfate	640	mg/L		01/25/23 00:01	100	100	01/25/23 00:01	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	20.68	Feet		01/10/23 13:56	1		01/10/23 13:56	FIELD	Field*
Dissolved oxygen, Field	2.4	mg/L		01/10/23 13:56	1		01/10/23 13:56	FIELD	Field*
Oxidation Reduction Potential	51.0	mV		01/10/23 13:56	1	-500	01/10/23 13:56	FIELD	Field*
pH, Field Measured	6.72	pH Units		01/10/23 13:56	1		01/10/23 13:56	FIELD	Field*
Specific Conductance, Field Measured	4010	umhos/cm		01/10/23 13:56	1		01/10/23 13:56	FIELD	Field*
Temperature, Field Measured	54.1	°F		01/10/23 13:56	1		01/10/23 13:56	FIELD	Field*
Temperature, Field Measured	12.3	°C		01/10/23 13:56	1		01/10/23 13:56	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		01/10/23 13:56	1	0.00	01/10/23 13:56	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	200	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Fluoride	< 0.250	mg/L		01/31/23 13:38	1	0.250	01/31/23 13:38	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	2900	mg/L		01/11/23 09:12	1	26	01/11/23 10:36	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/16/23 09:23	5	3.0	01/18/23 09:53	JMW	EPA 6020A
Arsenic	5.9	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:53	JMW	EPA 6020A
Barium	61	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:53	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:53	JMW	EPA 6020A
Boron	45000	ug/L		01/16/23 09:23	100	200	01/18/23 12:53	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:53	JMW	EPA 6020A
Calcium	550	mg/L		01/19/23 08:31	100	4.0	01/20/23 13:50	JMW	EPA 6020A
Chromium	9.6	ug/L		01/16/23 09:23	5	4.0	01/18/23 09:53	JMW	EPA 6020A
Cobalt	5.0	ug/L		01/16/23 09:23	5	2.0	01/18/23 09:53	JMW	EPA 6020A
Lead	2.6	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:53	JMW	EPA 6020A
Magnesium	140	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:53	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/16/23 09:23	5	0.20	01/18/23 09:53	JMW	EPA 6020A
Molybdenum	90	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:53	JMW	EPA 6020A
Potassium	9.7	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:53	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GA01700-18

Name: OM22D

Matrix: Ground Water - Grab

Sampled: 01/10/23 13:56

Received: 01/11/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:53	JMW	EPA 6020A
Sodium	140	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:53	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:53	JMW	EPA 6020A
Lithium	0.047	mg/L		01/16/23 09:23	1	0.020	01/24/23 14:41	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GA01700-19

Sampled: 01/10/23 11:36

Name: OM24D

Received: 01/11/23 07:00

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	550	mg/L		01/21/23 23:29	100	100	01/21/23 23:29	LAM	EPA 300.0 REV 2.1
Fluoride	0.566	mg/L		01/21/23 23:11	1	0.250	01/21/23 23:11	LAM	EPA 300.0 REV 2.1
Sulfate	710	mg/L		01/25/23 00:19	100	100	01/25/23 00:19	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	4.01	Feet		01/10/23 11:36	1		01/10/23 11:36	FIELD	Field*
Dissolved oxygen, Field	5.4	mg/L		01/10/23 11:36	1		01/10/23 11:36	FIELD	Field*
Oxidation Reduction Potential	80.0	mV		01/10/23 11:36	1	-500	01/10/23 11:36	FIELD	Field*
pH, Field Measured	6.52	pH Units		01/10/23 11:36	1		01/10/23 11:36	FIELD	Field*
Specific Conductance, Field Measured	3450	umhos/cm		01/10/23 11:36	1		01/10/23 11:36	FIELD	Field*
Temperature, Field Measured	11.6	°C		01/10/23 11:36	1		01/10/23 11:36	FIELD	Field*
Temperature, Field Measured	52.9	°F		01/10/23 11:36	1		01/10/23 11:36	FIELD	Field*
Turbidity, Field Measured	184	NTU		01/10/23 11:36	1	0.00	01/10/23 11:36	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	280	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	2500	mg/L		01/11/23 09:12	1	26	01/11/23 10:36	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/16/23 09:23	5	3.0	01/18/23 09:56	JMW	EPA 6020A
Arsenic	4.6	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:56	JMW	EPA 6020A
Barium	19	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:56	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:56	JMW	EPA 6020A
Boron	23000	ug/L		01/16/23 09:23	100	200	01/18/23 12:56	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:56	JMW	EPA 6020A
Calcium	410	mg/L		01/19/23 08:31	5	0.20	01/20/23 13:17	JMW	EPA 6020A
Chromium	< 4.0	ug/L		01/16/23 09:23	5	4.0	01/18/23 09:56	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		01/16/23 09:23	5	2.0	01/18/23 09:56	JMW	EPA 6020A
Lead	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:56	JMW	EPA 6020A
Magnesium	140	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:56	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/16/23 09:23	5	0.20	01/18/23 09:56	JMW	EPA 6020A
Molybdenum	5.1	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:56	JMW	EPA 6020A
Potassium	4.2	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:56	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GA01700-19

Name: OM24D

Matrix: Ground Water - Grab

Sampled: 01/10/23 11:36

Received: 01/11/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:56	JMW	EPA 6020A
Sodium	110	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:56	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 09:56	JMW	EPA 6020A
Lithium	< 0.020	mg/L		01/16/23 09:23	1	0.020	01/24/23 14:43	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GA01700-20

Sampled: 01/10/23 12:17

Name: OM25S

Received: 01/11/23 07:00

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	550	mg/L		01/21/23 09:47	100	100	01/21/23 09:47	LAM	EPA 300.0 REV 2.1
Sulfate	650	mg/L		01/21/23 09:47	100	100	01/21/23 09:47	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	57.98	Feet		01/10/23 12:17	1		01/10/23 12:17	FIELD	Field*
Dissolved oxygen, Field	1.8	mg/L		01/10/23 12:17	1		01/10/23 12:17	FIELD	Field*
Oxidation Reduction Potential	49.0	mV		01/10/23 12:17	1	-500	01/10/23 12:17	FIELD	Field*
pH, Field Measured	6.65	pH Units		01/10/23 12:17	1		01/10/23 12:17	FIELD	Field*
Specific Conductance, Field Measured	3780	umhos/cm		01/10/23 12:17	1		01/10/23 12:17	FIELD	Field*
Temperature, Field Measured	12.7	°C		01/10/23 12:17	1		01/10/23 12:17	FIELD	Field*
Temperature, Field Measured	54.9	°F		01/10/23 12:17	1		01/10/23 12:17	FIELD	Field*
Turbidity, Field Measured	1000	NTU		01/10/23 12:17	1	0.00	01/10/23 12:17	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	310	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Fluoride	< 0.250	mg/L		01/27/23 13:32	1	0.250	01/27/23 13:32	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	2700	mg/L		01/11/23 09:12	1	26	01/11/23 10:36	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/16/23 09:23	5	3.0	01/18/23 10:00	JMW	EPA 6020A
Arsenic	3.1	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:00	JMW	EPA 6020A
Barium	42	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:00	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:00	JMW	EPA 6020A
Boron	21000	ug/L		01/16/23 09:23	100	200	01/18/23 13:00	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:00	JMW	EPA 6020A
Calcium	310	mg/L		01/19/23 08:31	5	0.20	01/20/23 13:20	JMW	EPA 6020A
Chromium	7.5	ug/L		01/16/23 09:23	5	4.0	01/18/23 10:00	JMW	EPA 6020A
Cobalt	6.5	ug/L		01/16/23 09:23	5	2.0	01/18/23 10:00	JMW	EPA 6020A
Lead	3.3	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:00	JMW	EPA 6020A
Magnesium	180	mg/L		01/16/23 09:23	5	0.10	01/18/23 10:00	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/16/23 09:23	5	0.20	01/18/23 10:00	JMW	EPA 6020A
Molybdenum	1.7	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:00	JMW	EPA 6020A
Potassium	9.8	mg/L		01/16/23 09:23	5	0.10	01/18/23 10:00	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GA01700-20

Name: OM25S

Matrix: Ground Water - Grab

Sampled: 01/10/23 12:17

Received: 01/11/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:00	JMW	EPA 6020A
Sodium	100	mg/L		01/16/23 09:23	5	0.10	01/18/23 10:00	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:00	JMW	EPA 6020A
Lithium	0.061	mg/L		01/16/23 09:23	1	0.020	01/24/23 14:45	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GA02056-01

Sampled: 01/11/23 11:05

Name: OM01

Received: 01/11/23 16:30

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	31	mg/L		01/21/23 13:24	10	10	01/21/23 13:24	LAM	EPA 300.0 REV 2.1
Sulfate	1800	mg/L		01/31/23 17:39	500	500	01/31/23 17:39	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	13.76	Feet		01/11/23 11:05	1		01/11/23 11:05	FIELD	Field*
Dissolved oxygen, Field	1.9	mg/L		01/11/23 11:05	1		01/11/23 11:05	FIELD	Field*
Oxidation Reduction Potential	87.0	mV		01/11/23 11:05	1	-500	01/11/23 11:05	FIELD	Field*
pH, Field Measured	6.33	pH Units		01/11/23 11:05	1		01/11/23 11:05	FIELD	Field*
Specific Conductance, Field Measured	3680	umhos/cm		01/11/23 11:05	1		01/11/23 11:05	FIELD	Field*
Temperature, Field Measured	11.3	°C		01/11/23 11:05	1		01/11/23 11:05	FIELD	Field*
Temperature, Field Measured	52.3	°F		01/11/23 11:05	1		01/11/23 11:05	FIELD	Field*
Turbidity, Field Measured	56.8	NTU		01/11/23 11:05	1	0.00	01/11/23 11:05	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	350	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Fluoride	< 0.250	mg/L		01/27/23 13:34	1	0.250	01/27/23 13:34	ANK	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	3500	mg/L		01/13/23 14:44	1	26	01/13/23 15:45	CPS	SM 2540C
Soluble Nutrients - PIA									
Ammonia, Dissolved	0.22	mg/L		01/26/23 14:43	1	0.10	01/26/23 14:43	TTH	EPA 350.1 REV2
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/16/23 09:23	5	3.0	01/18/23 10:04	JMW	EPA 6020A
Arsenic	2.8	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:04	JMW	EPA 6020A
Barium	26	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:04	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:04	JMW	EPA 6020A
Boron	560	ug/L		01/16/23 09:23	5	11	01/18/23 10:04	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:04	JMW	EPA 6020A
Calcium	610	mg/L		01/19/23 08:31	100	4.0	01/20/23 13:54	JMW	EPA 6020A
Chromium	< 4.0	ug/L		01/16/23 09:23	5	4.0	01/18/23 10:04	JMW	EPA 6020A
Cobalt	20	ug/L		01/16/23 09:23	5	2.0	01/18/23 10:04	JMW	EPA 6020A
Lead	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:04	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GA02056-01

Name: OM01

Matrix: Ground Water - Grab

Sampled: 01/11/23 11:05

Received: 01/11/23 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Magnesium	260	mg/L		01/16/23 09:23	5	0.10	01/18/23 10:04	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/16/23 09:23	5	0.20	01/18/23 10:04	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:04	JMW	EPA 6020A
Potassium	1.2	mg/L	B	01/16/23 09:23	5	0.10	01/18/23 10:04	JMW	EPA 6020A
Selenium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:04	JMW	EPA 6020A
Sodium	29	mg/L		01/16/23 09:23	5	0.10	01/18/23 10:04	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:04	JMW	EPA 6020A
Lithium	< 0.020	mg/L		01/16/23 09:23	1	0.020	01/24/23 14:47	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GA02056-02

Sampled: 01/11/23 12:28

Name: OR02

Received: 01/11/23 16:30

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	210	mg/L		01/21/23 14:18	100	100	01/21/23 14:18	LAM	EPA 300.0 REV 2.1
Sulfate	280	mg/L		01/21/23 14:18	100	100	01/21/23 14:18	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	6.32	Feet		01/11/23 12:28	1		01/11/23 12:28	FIELD	Field*
Dissolved oxygen, Field	1.3	mg/L		01/11/23 12:28	1		01/11/23 12:28	FIELD	Field*
Oxidation Reduction Potential	52.0	mV		01/11/23 12:28	1	-500	01/11/23 12:28	FIELD	Field*
pH, Field Measured	6.70	pH Units		01/11/23 12:28	1		01/11/23 12:28	FIELD	Field*
Specific Conductance, Field Measured	2140	umhos/cm		01/11/23 12:28	1		01/11/23 12:28	FIELD	Field*
Temperature, Field Measured	12.1	°C		01/11/23 12:28	1		01/11/23 12:28	FIELD	Field*
Temperature, Field Measured	53.8	°F		01/11/23 12:28	1		01/11/23 12:28	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		01/11/23 12:28	1	0.00	01/11/23 12:28	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	310	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Fluoride	< 0.250	mg/L		01/27/23 13:36	1	0.250	01/27/23 13:36	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1600	mg/L		01/13/23 10:22	1	26	01/13/23 14:25	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/16/23 09:23	5	3.0	01/18/23 10:07	JMW	EPA 6020A
Arsenic	12	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:07	JMW	EPA 6020A
Barium	72	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:07	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:07	JMW	EPA 6020A
Boron	3900	ug/L		01/16/23 09:23	5	11	01/18/23 10:07	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:07	JMW	EPA 6020A
Calcium	230	mg/L		01/19/23 08:31	5	0.20	01/20/23 13:28	JMW	EPA 6020A
Chromium	9.9	ug/L		01/16/23 09:23	5	4.0	01/18/23 10:07	JMW	EPA 6020A
Cobalt	7.7	ug/L		01/16/23 09:23	5	2.0	01/18/23 10:07	JMW	EPA 6020A
Lead	7.8	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:07	JMW	EPA 6020A
Magnesium	93	mg/L		01/16/23 09:23	5	0.10	01/18/23 10:07	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/16/23 09:23	5	0.20	01/18/23 10:07	JMW	EPA 6020A
Molybdenum	4.7	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:07	JMW	EPA 6020A
Potassium	3.4	mg/L		01/16/23 09:23	5	0.10	01/18/23 10:07	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GA02056-02

Name: OR02

Matrix: Ground Water - Grab

Sampled: 01/11/23 12:28

Received: 01/11/23 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:07	JMW	EPA 6020A
Sodium	88	mg/L		01/16/23 09:23	5	0.10	01/18/23 10:07	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:07	JMW	EPA 6020A
Lithium	< 0.020	mg/L		01/16/23 09:23	1	0.020	01/24/23 14:49	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GA02056-03

Sampled: 01/11/23 14:00

Name: OR03D

Received: 01/11/23 16:30

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	1200	mg/L		01/21/23 14:54	250	250	01/21/23 14:54	LAM	EPA 300.0 REV 2.1
Sulfate	600	mg/L		01/21/23 14:54	250	250	01/21/23 14:54	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	44.63	Feet		01/11/23 14:00	1		01/11/23 14:00	FIELD	Field*
Dissolved oxygen, Field	1.8	mg/L		01/11/23 14:00	1		01/11/23 14:00	FIELD	Field*
Oxidation Reduction Potential	57.0	mV		01/11/23 14:00	1	-500	01/11/23 14:00	FIELD	Field*
pH, Field Measured	6.60	pH Units		01/11/23 14:00	1		01/11/23 14:00	FIELD	Field*
Specific Conductance, Field Measured	5310	umhos/cm		01/11/23 14:00	1		01/11/23 14:00	FIELD	Field*
Temperature, Field Measured	14.4	°C		01/11/23 14:00	1		01/11/23 14:00	FIELD	Field*
Temperature, Field Measured	58.0	°F		01/11/23 14:00	1		01/11/23 14:00	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		01/11/23 14:00	1	0.00	01/11/23 14:00	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	260	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Fluoride	< 0.250	mg/L		01/27/23 13:47	1	0.250	01/27/23 13:47	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	4300	mg/L		01/13/23 10:22	1	26	01/13/23 14:25	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/16/23 09:23	5	3.0	01/18/23 10:11	JMW	EPA 6020A
Arsenic	8.6	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:11	JMW	EPA 6020A
Barium	110	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:11	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:11	JMW	EPA 6020A
Boron	52000	ug/L		01/16/23 09:23	100	200	01/18/23 13:04	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:11	JMW	EPA 6020A
Calcium	590	mg/L		01/19/23 08:31	100	4.0	01/20/23 13:57	JMW	EPA 6020A
Chromium	29	ug/L		01/16/23 09:23	5	4.0	01/18/23 10:11	JMW	EPA 6020A
Cobalt	9.8	ug/L		01/16/23 09:23	5	2.0	01/18/23 10:11	JMW	EPA 6020A
Lead	8.3	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:11	JMW	EPA 6020A
Magnesium	270	mg/L		01/16/23 09:23	5	0.10	01/18/23 10:11	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/16/23 09:23	5	0.20	01/18/23 10:11	JMW	EPA 6020A
Molybdenum	6.9	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:11	JMW	EPA 6020A
Potassium	13	mg/L		01/16/23 09:23	5	0.10	01/18/23 10:11	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GA02056-03

Name: OR03D

Matrix: Ground Water - Grab

Sampled: 01/11/23 14:00

Received: 01/11/23 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:11	JMW	EPA 6020A
Sodium	160	mg/L		01/16/23 09:23	5	0.10	01/18/23 10:11	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 10:11	JMW	EPA 6020A
Lithium	0.059	mg/L		01/16/23 09:23	1	0.020	01/24/23 14:51	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GA02056-04

Sampled: 01/11/23 15:32

Name: OR04D

Received: 01/11/23 16:30

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	1400	mg/L		01/21/23 15:31	250	250	01/21/23 15:31	LAM	EPA 300.0 REV 2.1
Sulfate	1100	mg/L		01/21/23 15:31	250	250	01/21/23 15:31	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	21.42	Feet		01/11/23 15:32	1		01/11/23 15:32	FIELD	Field*
Dissolved oxygen, Field	1.3	mg/L		01/11/23 15:32	1		01/11/23 15:32	FIELD	Field*
Oxidation Reduction Potential	-8.00	mV		01/11/23 15:32	1	-500	01/11/23 15:32	FIELD	Field*
pH, Field Measured	6.59	pH Units		01/11/23 15:32	1		01/11/23 15:32	FIELD	Field*
Specific Conductance, Field Measured	6180	umhos/cm		01/11/23 15:32	1		01/11/23 15:32	FIELD	Field*
Temperature, Field Measured	13.7	°C		01/11/23 15:32	1		01/11/23 15:32	FIELD	Field*
Temperature, Field Measured	56.6	°F		01/11/23 15:32	1		01/11/23 15:32	FIELD	Field*
Turbidity, Field Measured	154	NTU		01/11/23 15:32	1	0.00	01/11/23 15:32	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	250	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Fluoride	< 0.250	mg/L		01/27/23 13:48	1	0.250	01/27/23 13:48	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	4900	mg/L		01/13/23 10:22	1	26	01/13/23 14:25	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/16/23 09:23	5	3.0	01/18/23 11:31	JMW	EPA 6020A
Arsenic	6.7	ug/L		01/16/23 09:23	5	1.0	01/18/23 11:31	JMW	EPA 6020A
Barium	75	ug/L		01/16/23 09:23	5	1.0	01/18/23 11:31	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 11:31	JMW	EPA 6020A
Boron	100000	ug/L		01/16/23 09:23	1000	2000	01/18/23 13:07	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 11:31	JMW	EPA 6020A
Calcium	760	mg/L		01/19/23 08:31	100	4.0	01/20/23 14:26	JMW	EPA 6020A
Chromium	12	ug/L		01/16/23 09:23	5	4.0	01/18/23 11:31	JMW	EPA 6020A
Cobalt	4.8	ug/L		01/16/23 09:23	5	2.0	01/18/23 11:31	JMW	EPA 6020A
Lead	5.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 11:31	JMW	EPA 6020A
Magnesium	270	mg/L		01/16/23 09:23	5	0.10	01/18/23 11:31	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/16/23 09:23	5	0.20	01/18/23 11:31	JMW	EPA 6020A
Molybdenum	5.7	ug/L		01/16/23 09:23	5	1.0	01/18/23 11:31	JMW	EPA 6020A
Potassium	13	mg/L		01/16/23 09:23	5	0.10	01/18/23 11:31	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GA02056-04

Name: OR04D

Matrix: Ground Water - Grab

Sampled: 01/11/23 15:32

Received: 01/11/23 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 11:31	JMW	EPA 6020A
Sodium	210	mg/L		01/16/23 09:23	5	0.10	01/18/23 11:31	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/16/23 09:23	5	1.0	01/18/23 11:31	JMW	EPA 6020A
Lithium	0.068	mg/L		01/16/23 09:23	1	0.020	01/24/23 14:53	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GA02056-05

Sampled: 01/11/23 12:43

Name: OR06A

Received: 01/11/23 16:30

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	390	mg/L		01/21/23 15:49	100	100	01/21/23 15:49	LAM	EPA 300.0 REV 2.1
Sulfate	450	mg/L		01/21/23 15:49	100	100	01/21/23 15:49	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	13.91	Feet		01/11/23 12:43	1		01/11/23 12:43	FIELD	Field*
Dissolved oxygen, Field	4.0	mg/L		01/11/23 12:43	1		01/11/23 12:43	FIELD	Field*
Oxidation Reduction Potential	-41.0	mV		01/11/23 12:43	1	-500	01/11/23 12:43	FIELD	Field*
pH, Field Measured	6.92	pH Units		01/11/23 12:43	1		01/11/23 12:43	FIELD	Field*
Specific Conductance, Field Measured	2890	umhos/cm		01/11/23 12:43	1		01/11/23 12:43	FIELD	Field*
Temperature, Field Measured	55.0	°F		01/11/23 12:43	1		01/11/23 12:43	FIELD	Field*
Temperature, Field Measured	12.8	°C		01/11/23 12:43	1		01/11/23 12:43	FIELD	Field*
Turbidity, Field Measured	506	NTU		01/11/23 12:43	1	0.00	01/11/23 12:43	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	300	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Fluoride	< 0.250	mg/L		01/27/23 13:50	1	0.250	01/27/23 13:50	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	2100	mg/L		01/13/23 10:22	1	26	01/13/23 14:25	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/17/23 08:50	5	3.0	01/19/23 12:47	JMW	EPA 6020A
Arsenic	21	ug/L		01/17/23 08:50	5	1.0	01/19/23 12:47	JMW	EPA 6020A
Barium	100	ug/L		01/17/23 08:50	5	1.0	01/19/23 12:47	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		01/17/23 08:50	5	1.0	01/19/23 12:47	JMW	EPA 6020A
Boron	27000	ug/L		01/17/23 08:50	100	200	01/19/23 14:31	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/17/23 08:50	5	1.0	01/19/23 12:47	JMW	EPA 6020A
Calcium	330	mg/L		01/17/23 08:50	5	0.20	01/19/23 12:47	JMW	EPA 6020A
Chromium	13	ug/L		01/17/23 08:50	5	4.0	01/19/23 12:47	JMW	EPA 6020A
Cobalt	8.2	ug/L		01/17/23 08:50	5	2.0	01/19/23 12:47	JMW	EPA 6020A
Lead	8.9	ug/L		01/17/23 08:50	5	1.0	01/19/23 12:47	JMW	EPA 6020A
Magnesium	110	mg/L		01/17/23 08:50	5	0.10	01/19/23 12:47	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/17/23 08:50	5	0.20	01/19/23 12:47	JMW	EPA 6020A
Molybdenum	23	ug/L		01/17/23 08:50	5	1.0	01/19/23 12:47	JMW	EPA 6020A
Potassium	3.0	mg/L		01/17/23 08:50	5	0.10	01/19/23 12:47	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GA02056-05

Name: OR06A

Matrix: Ground Water - Grab

Sampled: 01/11/23 12:43

Received: 01/11/23 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/17/23 08:50	5	1.0	01/19/23 12:47	JMW	EPA 6020A
Sodium	70	mg/L		01/17/23 08:50	5	0.10	01/19/23 12:47	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/17/23 08:50	5	1.0	01/19/23 12:47	JMW	EPA 6020A
Lithium	< 0.020	mg/L		01/17/23 08:50	1	0.020	01/24/23 14:15	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GA02056-06

Sampled: 01/11/23 13:59

Name: OM07

Received: 01/11/23 16:30

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	9.4	mg/L		01/21/23 17:19	5	5.0	01/21/23 17:19	LAM	EPA 300.0 REV 2.1
Fluoride	0.270	mg/L		01/21/23 17:01	1	0.250	01/21/23 17:01	LAM	EPA 300.0 REV 2.1
Sulfate	170	mg/L		01/21/23 17:37	50	50	01/21/23 17:37	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	12.87	Feet		01/11/23 13:59	1		01/11/23 13:59	FIELD	Field*
Dissolved oxygen, Field	5.5	mg/L		01/11/23 13:59	1		01/11/23 13:59	FIELD	Field*
Oxidation Reduction Potential	-39.0	mV		01/11/23 13:59	1	-500	01/11/23 13:59	FIELD	Field*
pH, Field Measured	7.07	pH Units		01/11/23 13:59	1		01/11/23 13:59	FIELD	Field*
Specific Conductance, Field Measured	1200	umhos/cm		01/11/23 13:59	1		01/11/23 13:59	FIELD	Field*
Temperature, Field Measured	55.2	°F		01/11/23 13:59	1		01/11/23 13:59	FIELD	Field*
Temperature, Field Measured	12.9	°C		01/11/23 13:59	1		01/11/23 13:59	FIELD	Field*
Turbidity, Field Measured	89.7	NTU		01/11/23 13:59	1	0.00	01/11/23 13:59	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	320	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	820	mg/L	M	01/13/23 10:22	1	26	01/13/23 14:25	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/17/23 08:50	5	3.0	01/19/23 12:50	JMW	EPA 6020A
Arsenic	2.4	ug/L		01/17/23 08:50	5	1.0	01/19/23 12:50	JMW	EPA 6020A
Barium	55	ug/L		01/17/23 08:50	5	1.0	01/19/23 12:50	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		01/17/23 08:50	5	1.0	01/19/23 12:50	JMW	EPA 6020A
Boron	670	ug/L		01/17/23 08:50	5	10	01/19/23 12:50	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/17/23 08:50	5	1.0	01/19/23 12:50	JMW	EPA 6020A
Calcium	130	mg/L		01/17/23 08:50	5	0.20	01/19/23 12:50	JMW	EPA 6020A
Chromium	< 4.0	ug/L		01/17/23 08:50	5	4.0	01/19/23 12:50	JMW	EPA 6020A
Cobalt	2.9	ug/L		01/17/23 08:50	5	2.0	01/19/23 12:50	JMW	EPA 6020A
Lead	< 1.0	ug/L		01/17/23 08:50	5	1.0	01/19/23 12:50	JMW	EPA 6020A
Magnesium	68	mg/L		01/17/23 08:50	5	0.10	01/19/23 12:50	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/17/23 08:50	5	0.20	01/19/23 12:50	JMW	EPA 6020A
Molybdenum	1.2	ug/L		01/17/23 08:50	5	1.0	01/19/23 12:50	JMW	EPA 6020A
Potassium	1.7	mg/L	Bb	01/17/23 08:50	5	0.10	01/19/23 12:50	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GA02056-06

Name: OM07

Matrix: Ground Water - Grab

Sampled: 01/11/23 13:59

Received: 01/11/23 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/17/23 08:50	5	1.0	01/19/23 12:50	JMW	EPA 6020A
Sodium	58	mg/L		01/17/23 08:50	5	0.10	01/19/23 12:50	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/17/23 08:50	5	1.0	01/19/23 12:50	JMW	EPA 6020A
Lithium	< 0.020	mg/L		01/17/23 08:50	1	0.020	01/24/23 14:17	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GA02365-14

Sampled: 01/12/23 13:25

Name: OM04S

Received: 01/13/23 07:15

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	16	mg/L		01/26/23 20:19	10	10	01/26/23 20:19	LAM	EPA 300.0 REV 2.1
Sulfate	120	mg/L		01/26/23 20:37	100	100	01/26/23 20:37	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	20.91	Feet		01/12/23 13:25	1		01/12/23 13:25	FIELD	Field*
Dissolved oxygen, Field	3.9	mg/L		01/12/23 13:25	1		01/12/23 13:25	FIELD	Field*
Oxidation Reduction Potential	28.0	mV		01/12/23 13:25	1	-500	01/12/23 13:25	FIELD	Field*
pH, Field Measured	7.01	pH Units		01/12/23 13:25	1		01/12/23 13:25	FIELD	Field*
Specific Conductance, Field Measured	1190	umhos/cm		01/12/23 13:25	1		01/12/23 13:25	FIELD	Field*
Temperature, Field Measured	6.6	°C		01/12/23 13:25	1		01/12/23 13:25	FIELD	Field*
Temperature, Field Measured	43.9	°F		01/12/23 13:25	1		01/12/23 13:25	FIELD	Field*
Turbidity, Field Measured	70.9	NTU		01/12/23 13:25	1	0.00	01/12/23 13:25	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	310	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Fluoride	< 0.250	mg/L		01/27/23 14:36	1	0.250	01/27/23 14:36	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	760	mg/L		01/18/23 11:20	1	26	01/18/23 12:23	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/17/23 08:50	5	3.0	01/19/23 14:06	JMW	EPA 6020A
Arsenic	9.1	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:06	JMW	EPA 6020A
Barium	83	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:06	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:06	JMW	EPA 6020A
Boron	81	ug/L		01/17/23 08:50	5	10	01/19/23 14:06	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:06	JMW	EPA 6020A
Calcium	150	mg/L		01/17/23 08:50	5	0.20	01/19/23 14:06	JMW	EPA 6020A
Chromium	7.7	ug/L		01/17/23 08:50	5	4.0	01/19/23 14:06	JMW	EPA 6020A
Cobalt	8.4	ug/L		01/17/23 08:50	5	2.0	01/19/23 14:06	JMW	EPA 6020A
Lead	3.9	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:06	JMW	EPA 6020A
Magnesium	75	mg/L		01/17/23 08:50	5	0.10	01/19/23 14:06	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/17/23 08:50	5	0.20	01/19/23 14:06	JMW	EPA 6020A
Molybdenum	2.8	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:06	JMW	EPA 6020A
Potassium	1.3	mg/L	Bb	01/17/23 08:50	5	0.10	01/19/23 14:06	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GA02365-14

Name: OM04S

Matrix: Ground Water - Grab

Sampled: 01/12/23 13:25

Received: 01/13/23 07:15

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:06	JMW	EPA 6020A
Sodium	14	mg/L		01/17/23 08:50	5	0.10	01/19/23 14:06	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:06	JMW	EPA 6020A
Lithium	< 0.020	mg/L		01/17/23 08:50	1	0.020	01/24/23 14:19	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GA02365-15

Sampled: 01/12/23 11:19

Name: OM16

Received: 01/13/23 07:15

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	8.1	mg/L		01/26/23 20:55	1	1.0	01/26/23 20:55	LAM	EPA 300.0 REV 2.1
Sulfate	2000	mg/L		01/27/23 10:38	250	250	01/27/23 10:38	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	24.79	Feet		01/12/23 11:19	1		01/12/23 11:19	FIELD	Field*
Dissolved oxygen, Field	2.0	mg/L		01/12/23 11:19	1		01/12/23 11:19	FIELD	Field*
Oxidation Reduction Potential	44.0	mV		01/12/23 11:19	1	-500	01/12/23 11:19	FIELD	Field*
pH, Field Measured	6.53	pH Units		01/12/23 11:19	1		01/12/23 11:19	FIELD	Field*
Specific Conductance, Field Measured	3980	umhos/cm		01/12/23 11:19	1		01/12/23 11:19	FIELD	Field*
Temperature, Field Measured	9.1	°C		01/12/23 11:19	1		01/12/23 11:19	FIELD	Field*
Temperature, Field Measured	48.4	°F		01/12/23 11:19	1		01/12/23 11:19	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		01/12/23 11:19	1	0.00	01/12/23 11:19	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	420	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Fluoride	< 0.250	mg/L		01/27/23 14:04	1	0.250	01/27/23 14:04	ANK	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	3400	mg/L		01/18/23 11:20	1	26	01/18/23 12:23	CPS	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		01/17/23 08:50	5	3.0	01/19/23 14:24	JMW	EPA 6020A
Arsenic	84	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:24	JMW	EPA 6020A
Barium	350	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:24	JMW	EPA 6020A
Beryllium	4.6	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:24	JMW	EPA 6020A
Boron	92	ug/L		01/17/23 08:50	5	10	01/19/23 14:24	JMW	EPA 6020A
Cadmium	4.4	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:24	JMW	EPA 6020A
Calcium	680	mg/L		01/17/23 08:50	100	4.0	01/19/23 14:53	JMW	EPA 6020A
Chromium	140	ug/L		01/17/23 08:50	5	4.0	01/19/23 14:24	JMW	EPA 6020A
Cobalt	79	ug/L		01/17/23 08:50	5	2.0	01/19/23 14:24	JMW	EPA 6020A
Lead	71	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:24	JMW	EPA 6020A
Magnesium	330	mg/L		01/17/23 08:50	5	0.10	01/19/23 14:24	JMW	EPA 6020A
Mercury	0.24	ug/L		01/17/23 08:50	5	0.20	01/19/23 14:24	JMW	EPA 6020A
Molybdenum	7.2	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:24	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GA02365-15

Name: OM16

Matrix: Ground Water - Grab

Sampled: 01/12/23 11:19

Received: 01/13/23 07:15

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	16	mg/L		01/17/23 08:50	5	0.10	01/19/23 14:24	JMW	EPA 6020A
Selenium	4.4	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:24	JMW	EPA 6020A
Sodium	24	mg/L		01/17/23 08:50	5	0.10	01/19/23 14:24	JMW	EPA 6020A
Thallium	1.0	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:24	JMW	EPA 6020A
Lithium	0.14	mg/L		01/17/23 08:50	1	0.020	01/24/23 14:21	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GA02365-16

Sampled: 01/12/23 10:09

Name: OM17

Received: 01/13/23 07:15

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	2.8	mg/L		01/26/23 21:49	1	1.0	01/26/23 21:49	LAM	EPA 300.0 REV 2.1
Sulfate	370	mg/L		01/26/23 23:02	100	100	01/26/23 23:02	LAM	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	13.04	Feet		01/12/23 10:09	1		01/12/23 10:09	FIELD	Field*
Dissolved oxygen, Field	2.4	mg/L		01/12/23 10:09	1		01/12/23 10:09	FIELD	Field*
Oxidation Reduction Potential	42.0	mV		01/12/23 10:09	1	-500	01/12/23 10:09	FIELD	Field*
pH, Field Measured	6.79	pH Units		01/12/23 10:09	1		01/12/23 10:09	FIELD	Field*
Specific Conductance, Field Measured	2060	umhos/cm		01/12/23 10:09	1		01/12/23 10:09	FIELD	Field*
Temperature, Field Measured	51.8	°F		01/12/23 10:09	1		01/12/23 10:09	FIELD	Field*
Temperature, Field Measured	11.0	°C		01/12/23 10:09	1		01/12/23 10:09	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		01/12/23 10:09	1	0.00	01/12/23 10:09	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	220	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Fluoride	< 0.250	mg/L		01/27/23 14:14	1	0.250	01/27/23 14:14	ANK	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	940	mg/L		01/18/23 11:20	1	26	01/18/23 12:23	CPS	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		01/17/23 08:50	5	3.0	01/19/23 14:28	JMW	EPA 6020A
Arsenic	7.6	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:28	JMW	EPA 6020A
Barium	150	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:28	JMW	EPA 6020A
Beryllium	1.2	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:28	JMW	EPA 6020A
Boron	180	ug/L		01/17/23 08:50	5	10	01/19/23 14:28	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:28	JMW	EPA 6020A
Calcium	220	mg/L		01/17/23 08:50	5	0.20	01/19/23 14:28	JMW	EPA 6020A
Chromium	39	ug/L		01/17/23 08:50	5	4.0	01/19/23 14:28	JMW	EPA 6020A
Cobalt	14	ug/L		01/17/23 08:50	5	2.0	01/19/23 14:28	JMW	EPA 6020A
Lead	17	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:28	JMW	EPA 6020A
Magnesium	86	mg/L		01/17/23 08:50	5	0.10	01/19/23 14:28	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/17/23 08:50	5	0.20	01/19/23 14:28	JMW	EPA 6020A
Molybdenum	2.5	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:28	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GA02365-16

Name: OM17

Matrix: Ground Water - Grab

Sampled: 01/12/23 10:09

Received: 01/13/23 07:15

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	11	mg/L		01/17/23 08:50	5	0.10	01/19/23 14:28	JMW	EPA 6020A
Selenium	2.0	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:28	JMW	EPA 6020A
Sodium	4.7	mg/L		01/17/23 08:50	5	0.10	01/19/23 14:28	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/17/23 08:50	5	1.0	01/19/23 14:28	JMW	EPA 6020A
Lithium	0.045	mg/L		01/17/23 08:50	1	0.020	01/24/23 14:23	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GA02365-17

Name: OM21

Matrix: Ground Water - Grab

Sampled: 01/12/23 15:36

Received: 01/13/23 07:15

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	220	mg/L		01/26/23 23:58	100	100	01/26/23 23:58	LAM	EPA 300.0 REV 2.1
Sulfate	1000	mg/L		01/27/23 10:56	250	250	01/27/23 10:56	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	11.86	Feet		01/12/23 15:36	1		01/12/23 15:36	FIELD	Field*
Dissolved oxygen, Field	1.9	mg/L		01/12/23 15:36	1		01/12/23 15:36	FIELD	Field*
Oxidation Reduction Potential	11.0	mV		01/12/23 15:36	1	-500	01/12/23 15:36	FIELD	Field*
pH, Field Measured	6.65	pH Units		01/12/23 15:36	1		01/12/23 15:36	FIELD	Field*
Specific Conductance, Field Measured	3620	umhos/cm		01/12/23 15:36	1		01/12/23 15:36	FIELD	Field*
Temperature, Field Measured	10.4	°C		01/12/23 15:36	1		01/12/23 15:36	FIELD	Field*
Temperature, Field Measured	50.7	°F		01/12/23 15:36	1		01/12/23 15:36	FIELD	Field*
Turbidity, Field Measured	17.7	NTU		01/12/23 15:36	1	0.00	01/12/23 15:36	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	400	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Fluoride	0.273	mg/L		01/27/23 14:16	1	0.250	01/27/23 14:16	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	2600	mg/L		01/18/23 11:20	1	26	01/18/23 12:23	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/17/23 09:05	5	3.0	01/18/23 13:11	JMW	EPA 6020A
Arsenic	1.5	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:11	JMW	EPA 6020A
Barium	16	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:11	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:11	JMW	EPA 6020A
Boron	7600	ug/L		01/17/23 09:05	5	10	01/18/23 13:11	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:11	JMW	EPA 6020A
Calcium	300	mg/L		01/17/23 09:05	5	0.20	01/18/23 13:11	JMW	EPA 6020A
Chromium	< 4.0	ug/L		01/17/23 09:05	5	4.0	01/18/23 13:11	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		01/17/23 09:05	5	2.0	01/18/23 13:11	JMW	EPA 6020A
Lead	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:11	JMW	EPA 6020A
Magnesium	140	mg/L		01/17/23 09:05	5	0.10	01/18/23 13:11	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/17/23 09:05	5	0.20	01/18/23 13:11	JMW	EPA 6020A
Molybdenum	1.6	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:11	JMW	EPA 6020A
Potassium	10	mg/L		01/17/23 09:05	5	0.10	01/18/23 13:11	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GA02365-17

Name: OM21

Matrix: Ground Water - Grab

Sampled: 01/12/23 15:36

Received: 01/13/23 07:15

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:11	JMW	EPA 6020A
Sodium	290	mg/L	Q4	01/17/23 09:05	5	0.10	01/18/23 13:11	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:11	JMW	EPA 6020A
Lithium	0.040	mg/L		01/17/23 09:05	1	0.020	01/19/23 14:57	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GA02365-18

Sampled: 01/12/23 13:08

Name: OM23D

Received: 01/13/23 07:15

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	25	mg/L		01/27/23 00:36	10	10	01/27/23 00:36	LAM	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		01/27/23 00:17	1	0.250	01/27/23 00:17	LAM	EPA 300.0 REV 2.1
Sulfate	380	mg/L		01/27/23 00:55	100	100	01/27/23 00:55	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	39.22	Feet		01/12/23 13:08	1		01/12/23 13:08	FIELD	Field*
Dissolved oxygen, Field	1.6	mg/L		01/12/23 13:08	1		01/12/23 13:08	FIELD	Field*
Oxidation Reduction Potential	24.0	mV		01/12/23 13:08	1	-500	01/12/23 13:08	FIELD	Field*
pH, Field Measured	6.83	pH Units		01/12/23 13:08	1		01/12/23 13:08	FIELD	Field*
Specific Conductance, Field Measured	1850	umhos/cm		01/12/23 13:08	1		01/12/23 13:08	FIELD	Field*
Temperature, Field Measured	10.5	°C		01/12/23 13:08	1		01/12/23 13:08	FIELD	Field*
Temperature, Field Measured	50.8	°F		01/12/23 13:08	1		01/12/23 13:08	FIELD	Field*
Turbidity, Field Measured	104	NTU		01/12/23 13:08	1	0.00	01/12/23 13:08	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	350	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1200	mg/L		01/18/23 11:20	1	26	01/18/23 12:23	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/17/23 09:05	5	3.0	01/18/23 13:14	JMW	EPA 6020A
Arsenic	2.7	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:14	JMW	EPA 6020A
Barium	28	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:14	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:14	JMW	EPA 6020A
Boron	1800	ug/L		01/17/23 09:05	5	10	01/18/23 13:14	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:14	JMW	EPA 6020A
Calcium	170	mg/L		01/17/23 09:05	5	0.20	01/18/23 13:14	JMW	EPA 6020A
Chromium	< 4.0	ug/L		01/17/23 09:05	5	4.0	01/18/23 13:14	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		01/17/23 09:05	5	2.0	01/18/23 13:14	JMW	EPA 6020A
Lead	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:14	JMW	EPA 6020A
Magnesium	96	mg/L		01/17/23 09:05	5	0.10	01/18/23 13:14	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/17/23 09:05	5	0.20	01/18/23 13:14	JMW	EPA 6020A
Molybdenum	2.3	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:14	JMW	EPA 6020A
Potassium	5.3	mg/L		01/17/23 09:05	5	0.10	01/18/23 13:14	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GA02365-18

Name: OM23D

Matrix: Ground Water - Grab

Sampled: 01/12/23 13:08

Received: 01/13/23 07:15

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:14	JMW	EPA 6020A
Sodium	100	mg/L		01/17/23 09:05	5	0.10	01/18/23 13:14	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:14	JMW	EPA 6020A
Lithium	0.037	mg/L		01/17/23 09:05	1	0.020	01/19/23 15:03	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GA02365-19

Name: OR11

Matrix: Ground Water - Grab

Sampled: 01/12/23 14:25

Received: 01/13/23 07:15

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	88	mg/L		01/27/23 01:33	10	10	01/27/23 01:33	LAM	EPA 300.0 REV 2.1
Sulfate	170	mg/L		01/27/23 01:52	100	100	01/27/23 01:52	LAM	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	32.61	Feet		01/12/23 14:25	1		01/12/23 14:25	FIELD	Field*
Dissolved oxygen, Field	6.1	mg/L		01/12/23 14:25	1		01/12/23 14:25	FIELD	Field*
Oxidation Reduction Potential	-9.00	mV		01/12/23 14:25	1	-500	01/12/23 14:25	FIELD	Field*
pH, Field Measured	7.19	pH Units		01/12/23 14:25	1		01/12/23 14:25	FIELD	Field*
Specific Conductance, Field Measured	1270	umhos/cm		01/12/23 14:25	1		01/12/23 14:25	FIELD	Field*
Temperature, Field Measured	49.6	°F		01/12/23 14:25	1		01/12/23 14:25	FIELD	Field*
Temperature, Field Measured	9.8	°C		01/12/23 14:25	1		01/12/23 14:25	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		01/12/23 14:25	1	0.00	01/12/23 14:25	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	280	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Fluoride	0.293	mg/L		01/27/23 14:18	1	0.250	01/27/23 14:18	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	820	mg/L		01/18/23 12:31	1	26	01/18/23 14:36	CPS	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		01/17/23 09:05	5	3.0	01/18/23 13:18	JMW	EPA 6020A
Arsenic	63	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:18	JMW	EPA 6020A
Barium	1100	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:18	JMW	EPA 6020A
Beryllium	4.6	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:18	JMW	EPA 6020A
Boron	9200	ug/L		01/17/23 09:05	5	10	01/18/23 13:18	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:18	JMW	EPA 6020A
Calcium	230	mg/L		01/17/23 09:05	5	0.20	01/18/23 13:18	JMW	EPA 6020A
Chromium	48	ug/L		01/17/23 09:05	5	4.0	01/18/23 13:18	JMW	EPA 6020A
Cobalt	30	ug/L		01/17/23 09:05	5	2.0	01/18/23 13:18	JMW	EPA 6020A
Lead	100	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:18	JMW	EPA 6020A
Magnesium	98	mg/L		01/17/23 09:05	5	0.10	01/18/23 13:18	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/17/23 09:05	5	0.20	01/18/23 13:18	JMW	EPA 6020A
Molybdenum	14	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:18	JMW	EPA 6020A
Potassium	12	mg/L		01/17/23 09:05	5	0.10	01/18/23 13:18	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GA02365-19

Name: OR11

Matrix: Ground Water - Grab

Sampled: 01/12/23 14:25

Received: 01/13/23 07:15

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	4.1	ug/L		01/17/23 09:05	5	1.0	01/20/23 14:01	JMW	EPA 6020A
Sodium	33	mg/L		01/17/23 09:05	5	0.10	01/18/23 13:18	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:18	JMW	EPA 6020A
Lithium	0.063	mg/L		01/17/23 09:05	1	0.020	01/19/23 15:05	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GA02365-20

Sampled: 01/12/23 10:29

Name: OR13D

Received: 01/13/23 07:15

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	47	mg/L		01/27/23 03:07	10	10	01/27/23 03:07	LAM	EPA 300.0 REV 2.1
Sulfate	290	mg/L		01/27/23 03:26	100	100	01/27/23 03:26	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	13.6	Feet		01/12/23 10:29	1		01/12/23 10:29	FIELD	Field*
Dissolved oxygen, Field	4.4	mg/L		01/12/23 10:29	1		01/12/23 10:29	FIELD	Field*
Oxidation Reduction Potential	219	mV		01/12/23 10:29	1	-500	01/12/23 10:29	FIELD	Field*
pH, Field Measured	6.67	pH Units		01/12/23 10:29	1		01/12/23 10:29	FIELD	Field*
Specific Conductance, Field Measured	1880	umhos/cm		01/12/23 10:29	1		01/12/23 10:29	FIELD	Field*
Temperature, Field Measured	10.7	°C		01/12/23 10:29	1		01/12/23 10:29	FIELD	Field*
Temperature, Field Measured	51.3	°F		01/12/23 10:29	1		01/12/23 10:29	FIELD	Field*
Turbidity, Field Measured	139	NTU		01/12/23 10:29	1	0.00	01/12/23 10:29	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	410	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Fluoride	0.296	mg/L		01/27/23 14:20	1	0.250	01/27/23 14:20	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1200	mg/L		01/18/23 12:31	1	26	01/18/23 14:36	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/17/23 09:05	5	3.0	01/18/23 13:21	JMW	EPA 6020A
Arsenic	4.1	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:21	JMW	EPA 6020A
Barium	34	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:21	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:21	JMW	EPA 6020A
Boron	1800	ug/L		01/17/23 09:05	5	10	01/18/23 13:21	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:21	JMW	EPA 6020A
Calcium	120	mg/L		01/17/23 09:05	5	0.20	01/18/23 13:21	JMW	EPA 6020A
Chromium	< 4.0	ug/L		01/17/23 09:05	5	4.0	01/18/23 13:21	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		01/17/23 09:05	5	2.0	01/18/23 13:21	JMW	EPA 6020A
Lead	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:21	JMW	EPA 6020A
Magnesium	59	mg/L		01/17/23 09:05	5	0.10	01/18/23 13:21	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/17/23 09:05	5	0.20	01/18/23 13:21	JMW	EPA 6020A
Molybdenum	7.6	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:21	JMW	EPA 6020A
Potassium	4.6	mg/L		01/17/23 09:05	5	0.10	01/18/23 13:21	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GA02365-20

Name: OR13D

Matrix: Ground Water - Grab

Sampled: 01/12/23 10:29

Received: 01/13/23 07:15

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:21	JMW	EPA 6020A
Sodium	220	mg/L		01/17/23 09:05	5	0.10	01/18/23 13:21	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 13:21	JMW	EPA 6020A
Lithium	0.026	mg/L		01/17/23 09:05	1	0.020	01/19/23 15:08	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GA02365-21

Sampled: 01/12/23 11:21

Name: OR13S

Received: 01/13/23 07:15

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	67	mg/L		01/27/23 04:03	10	10	01/27/23 04:03	LAM	EPA 300.0 REV 2.1
Sulfate	670	mg/L		01/27/23 04:22	100	100	01/27/23 04:22	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	13.47	Feet		01/12/23 11:21	1		01/12/23 11:21	FIELD	Field*
Dissolved oxygen, Field	3.7	mg/L		01/12/23 11:21	1		01/12/23 11:21	FIELD	Field*
Oxidation Reduction Potential	-43.0	mV		01/12/23 11:21	1	-500	01/12/23 11:21	FIELD	Field*
pH, Field Measured	6.83	pH Units		01/12/23 11:21	1		01/12/23 11:21	FIELD	Field*
Specific Conductance, Field Measured	2270	umhos/cm		01/12/23 11:21	1		01/12/23 11:21	FIELD	Field*
Temperature, Field Measured	10.4	°C		01/12/23 11:21	1		01/12/23 11:21	FIELD	Field*
Temperature, Field Measured	50.7	°F		01/12/23 11:21	1		01/12/23 11:21	FIELD	Field*
Turbidity, Field Measured	564	NTU		01/12/23 11:21	1	0.00	01/12/23 11:21	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	350	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Fluoride	0.277	mg/L		01/27/23 14:22	1	0.250	01/27/23 14:22	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1700	mg/L		01/18/23 12:31	1	26	01/18/23 14:36	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/17/23 09:05	5	3.0	01/18/23 14:06	JMW	EPA 6020A
Arsenic	130	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:06	JMW	EPA 6020A
Barium	100	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:06	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:06	JMW	EPA 6020A
Boron	3800	ug/L		01/17/23 09:05	5	10	01/19/23 10:00	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:06	JMW	EPA 6020A
Calcium	290	mg/L		01/17/23 09:05	5	0.20	01/18/23 14:06	JMW	EPA 6020A
Chromium	13	ug/L		01/17/23 09:05	5	4.0	01/18/23 14:06	JMW	EPA 6020A
Cobalt	5.4	ug/L		01/17/23 09:05	5	2.0	01/18/23 14:06	JMW	EPA 6020A
Lead	19	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:06	JMW	EPA 6020A
Magnesium	120	mg/L		01/17/23 09:05	5	0.10	01/18/23 14:06	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/17/23 09:05	5	0.20	01/18/23 14:06	JMW	EPA 6020A
Molybdenum	10	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:06	JMW	EPA 6020A
Potassium	4.7	mg/L		01/17/23 09:05	5	0.10	01/18/23 14:06	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GA02365-21

Name: OR13S

Matrix: Ground Water - Grab

Sampled: 01/12/23 11:21

Received: 01/13/23 07:15

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	1.1	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:06	JMW	EPA 6020A
Sodium	81	mg/L		01/17/23 09:05	5	0.10	01/18/23 14:06	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:06	JMW	EPA 6020A
Lithium	0.027	mg/L		01/17/23 09:05	1	0.020	01/19/23 15:15	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GA02365-22
Name: OR14D
Matrix: Ground Water - Grab

Sampled: 01/12/23 12:20
Received: 01/13/23 07:15

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	350	mg/L		01/27/23 05:19	100	100	01/27/23 05:19	LAM	EPA 300.0 REV 2.1
Sulfate	800	mg/L		01/27/23 05:19	100	100	01/27/23 05:19	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	10.36	Feet		01/12/23 12:20	1		01/12/23 12:20	FIELD	Field*
Dissolved oxygen, Field	3.9	mg/L		01/12/23 12:20	1		01/12/23 12:20	FIELD	Field*
Oxidation Reduction Potential	6.00	mV		01/12/23 12:20	1	-500	01/12/23 12:20	FIELD	Field*
pH, Field Measured	6.81	pH Units		01/12/23 12:20	1		01/12/23 12:20	FIELD	Field*
Specific Conductance, Field Measured	2960	umhos/cm		01/12/23 12:20	1		01/12/23 12:20	FIELD	Field*
Temperature, Field Measured	10.2	°C		01/12/23 12:20	1		01/12/23 12:20	FIELD	Field*
Temperature, Field Measured	50.3	°F		01/12/23 12:20	1		01/12/23 12:20	FIELD	Field*
Turbidity, Field Measured	287	NTU		01/12/23 12:20	1	0.00	01/12/23 12:20	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	220	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Fluoride	0.269	mg/L		01/27/23 14:24	1	0.250	01/27/23 14:24	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	2300	mg/L		01/18/23 12:31	1	26	01/18/23 14:36	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/17/23 09:05	5	3.0	01/18/23 14:10	JMW	EPA 6020A
Arsenic	4.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:10	JMW	EPA 6020A
Barium	32	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:10	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:10	JMW	EPA 6020A
Boron	21000	ug/L		01/17/23 09:05	100	200	01/19/23 09:18	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:10	JMW	EPA 6020A
Calcium	440	mg/L		01/17/23 09:05	5	0.20	01/18/23 14:10	JMW	EPA 6020A
Chromium	< 4.0	ug/L		01/17/23 09:05	5	4.0	01/18/23 14:10	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		01/17/23 09:05	5	2.0	01/18/23 14:10	JMW	EPA 6020A
Lead	3.4	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:10	JMW	EPA 6020A
Magnesium	130	mg/L		01/17/23 09:05	5	0.10	01/18/23 14:10	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/17/23 09:05	5	0.20	01/18/23 14:10	JMW	EPA 6020A
Molybdenum	6.2	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:10	JMW	EPA 6020A
Potassium	4.9	mg/L		01/17/23 09:05	5	0.10	01/18/23 14:10	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GA02365-22

Name: OR14D

Matrix: Ground Water - Grab

Sampled: 01/12/23 12:20

Received: 01/13/23 07:15

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:10	JMW	EPA 6020A
Sodium	48	mg/L		01/17/23 09:05	5	0.10	01/18/23 14:10	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:10	JMW	EPA 6020A
Lithium	0.024	mg/L		01/17/23 09:05	1	0.020	01/19/23 15:17	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GA02365-23

Sampled: 01/12/23 14:34

Name: OR19

Received: 01/13/23 07:15

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	160	mg/L		01/27/23 11:40	25	25	01/27/23 11:40	CRD	EPA 300.0 REV 2.1
Sulfate	810	mg/L		01/27/23 11:58	250	250	01/27/23 11:58	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	26.37	Feet		01/12/23 14:34	1		01/12/23 14:34	FIELD	Field*
Dissolved oxygen, Field	1.2	mg/L		01/12/23 14:34	1		01/12/23 14:34	FIELD	Field*
Oxidation Reduction Potential	-10.0	mV		01/12/23 14:34	1	-500	01/12/23 14:34	FIELD	Field*
pH, Field Measured	6.78	pH Units		01/12/23 14:34	1		01/12/23 14:34	FIELD	Field*
Specific Conductance, Field Measured	2950	umhos/cm		01/12/23 14:34	1		01/12/23 14:34	FIELD	Field*
Temperature, Field Measured	11.0	°C		01/12/23 14:34	1		01/12/23 14:34	FIELD	Field*
Temperature, Field Measured	51.8	°F		01/12/23 14:34	1		01/12/23 14:34	FIELD	Field*
Turbidity, Field Measured	140	NTU		01/12/23 14:34	1	0.00	01/12/23 14:34	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	360	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Fluoride	0.395	mg/L		01/27/23 14:26	1	0.250	01/27/23 14:26	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	2200	mg/L		01/18/23 12:31	1	26	01/18/23 14:36	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/17/23 09:05	5	3.0	01/18/23 14:13	JMW	EPA 6020A
Arsenic	2.4	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:13	JMW	EPA 6020A
Barium	23	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:13	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:13	JMW	EPA 6020A
Boron	16000	ug/L		01/17/23 09:05	100	200	01/19/23 09:22	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:13	JMW	EPA 6020A
Calcium	310	mg/L		01/17/23 09:05	5	0.20	01/18/23 14:13	JMW	EPA 6020A
Chromium	< 4.0	ug/L		01/17/23 09:05	5	4.0	01/18/23 14:13	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		01/17/23 09:05	5	2.0	01/18/23 14:13	JMW	EPA 6020A
Lead	1.2	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:13	JMW	EPA 6020A
Magnesium	140	mg/L		01/17/23 09:05	5	0.10	01/18/23 14:13	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/17/23 09:05	5	0.20	01/18/23 14:13	JMW	EPA 6020A
Molybdenum	3.9	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:13	JMW	EPA 6020A
Potassium	5.1	mg/L		01/17/23 09:05	5	0.10	01/18/23 14:13	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GA02365-23

Name: OR19

Matrix: Ground Water - Grab

Sampled: 01/12/23 14:34

Received: 01/13/23 07:15

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:13	JMW	EPA 6020A
Sodium	150	mg/L		01/17/23 09:05	5	0.10	01/18/23 14:13	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:13	JMW	EPA 6020A
Lithium	0.022	mg/L		01/17/23 09:05	1	0.020	01/19/23 15:19	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GA02365-24

Sampled: 01/12/23 14:55

Name: OR20

Received: 01/13/23 07:15

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	340	mg/L		01/27/23 12:34	100	100	01/27/23 12:34	CRD	EPA 300.0 REV 2.1
Sulfate	380	mg/L		01/27/23 12:34	100	100	01/27/23 12:34	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	22.52	Feet		01/12/23 14:55	1		01/12/23 14:55	FIELD	Field*
Dissolved oxygen, Field	3.1	mg/L		01/12/23 14:55	1		01/12/23 14:55	FIELD	Field*
Oxidation Reduction Potential	-27.0	mV		01/12/23 14:55	1	-500	01/12/23 14:55	FIELD	Field*
pH, Field Measured	6.97	pH Units		01/12/23 14:55	1		01/12/23 14:55	FIELD	Field*
Specific Conductance, Field Measured	2640	umhos/cm		01/12/23 14:55	1		01/12/23 14:55	FIELD	Field*
Temperature, Field Measured	50.4	°F		01/12/23 14:55	1		01/12/23 14:55	FIELD	Field*
Temperature, Field Measured	10.2	°C		01/12/23 14:55	1		01/12/23 14:55	FIELD	Field*
Turbidity, Field Measured	401	NTU		01/12/23 14:55	1	0.00	01/12/23 14:55	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	260	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Fluoride	0.499	mg/L		01/27/23 14:28	1	0.250	01/27/23 14:28	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1700	mg/L		01/18/23 12:31	1	26	01/18/23 14:36	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/17/23 09:05	5	3.0	01/18/23 14:17	JMW	EPA 6020A
Arsenic	8.7	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:17	JMW	EPA 6020A
Barium	41	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:17	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:17	JMW	EPA 6020A
Boron	35000	ug/L		01/17/23 09:05	100	200	01/19/23 11:48	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:17	JMW	EPA 6020A
Calcium	250	mg/L		01/17/23 09:05	5	0.20	01/18/23 14:17	JMW	EPA 6020A
Chromium	7.7	ug/L		01/17/23 09:05	5	4.0	01/18/23 14:17	JMW	EPA 6020A
Cobalt	2.8	ug/L		01/17/23 09:05	5	2.0	01/18/23 14:17	JMW	EPA 6020A
Lead	4.2	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:17	JMW	EPA 6020A
Magnesium	100	mg/L		01/17/23 09:05	5	0.10	01/18/23 14:17	JMW	EPA 6020A
Mercury	< 0.20	ug/L		01/17/23 09:05	5	0.20	01/18/23 14:17	JMW	EPA 6020A
Molybdenum	38	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:17	JMW	EPA 6020A
Potassium	8.7	mg/L		01/17/23 09:05	5	0.10	01/18/23 14:17	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GA02365-24

Name: OR20

Matrix: Ground Water - Grab

Sampled: 01/12/23 14:55

Received: 01/13/23 07:15

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:17	JMW	EPA 6020A
Sodium	160	mg/L		01/17/23 09:05	5	0.10	01/18/23 14:17	JMW	EPA 6020A
Thallium	< 1.0	ug/L		01/17/23 09:05	5	1.0	01/18/23 14:17	JMW	EPA 6020A
Lithium	0.044	mg/L		01/17/23 09:05	1	0.020	01/19/23 15:21	TJJ	EPA 6010B



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B322844 - No Prep - SM 2540C</u>									
Blank (B322844-BLK1)					Prepared & Analyzed: 01/11/23				
Solids - total dissolved solids (TDS)	< 17	mg/L							
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B322844-BS1)					Prepared & Analyzed: 01/11/23				
Solids - total dissolved solids (TDS)	953	mg/L		1000	95	84.9-109			
Solids - total dissolved solids (TDS)	953	mg/L		1000	95	84.9-109			
Duplicate (B322844-DUP2)	Sample: GA01700-08				Prepared & Analyzed: 01/11/23				
Solids - total dissolved solids (TDS)	2080	mg/L			2130			2	5
Solids - total dissolved solids (TDS)	2080	mg/L			2130			2	5
<u>Batch B323102 - No Prep - SM 2540C</u>									
Blank (B323102-BLK1)					Prepared & Analyzed: 01/13/23				
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B323102-BS1)					Prepared & Analyzed: 01/13/23				
Solids - total dissolved solids (TDS)	990	mg/L		1000	99	84.9-109			
Duplicate (B323102-DUP1)	Sample: GA02056-03				Prepared & Analyzed: 01/13/23				
Solids - total dissolved solids (TDS)	4300	mg/L			4340			0.9	5
Duplicate (B323102-DUP2)	Sample: GA02056-06				Prepared & Analyzed: 01/13/23				
Solids - total dissolved solids (TDS)	765	mg/L	M		825			8	5
<u>Batch B323147 - No Prep - SM 2540C</u>									
Blank (B323147-BLK1)					Prepared & Analyzed: 01/13/23				
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B323147-BS1)					Prepared & Analyzed: 01/13/23				
Solids - total dissolved solids (TDS)	997	mg/L		1000	100	84.9-109			
<u>Batch B323225 - SW 3015 - EPA 6010B</u>									
Blank (B323225-BLK1)					Prepared: 01/16/23 Analyzed: 01/24/23				
Lithium	< 0.020	mg/L							
LCS (B323225-BS1)					Prepared: 01/16/23 Analyzed: 01/24/23				
Lithium	0.515	mg/L		0.5556	93	80-120			
<u>Batch B323225 - SW 3015 - EPA 6020A</u>									
Blank (B323225-BLK1)					Prepared: 01/16/23 Analyzed: 01/18/23				
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit				
Blank (B323225-BLK1)					Prepared: 01/16/23 Analyzed: 01/18/23								
Potassium	0.173	mg/L											
Selenium	< 1.0	ug/L											
Sodium	0.184	mg/L											
Thallium	< 1.0	ug/L											
LCS (B323225-BS1)					Prepared: 01/16/23 Analyzed: 01/18/23								
Antimony	524	ug/L		555.6		94	80-120						
Arsenic	539	ug/L		555.6		97	80-120						
Barium	582	ug/L		555.6		105	80-120						
Beryllium	603	ug/L		555.6		108	80-120						
Boron	618	ug/L		555.6		111	80-120						
Cadmium	520	ug/L		555.6		94	80-120						
Chromium	558	ug/L		555.6		100	80-120						
Cobalt	550	ug/L		555.6		99	80-120						
Lead	560	ug/L		555.6		101	80-120						
Magnesium	5.61	mg/L		5.556		101	80-120						
Mercury	52.6	ug/L		55.56		95	80-120						
Molybdenum	541	ug/L		555.6		97	80-120						
Potassium	5.71	mg/L		5.556		103	80-120						
Selenium	551	ug/L		555.6		99	80-120						
Sodium	5.63	mg/L		5.556		101	80-120						
Thallium	546	ug/L		555.6		98	80-120						
<u>Batch B323330 - SW 3015 - EPA 6010B</u>													
Blank (B323330-BLK1)					Prepared: 01/17/23 Analyzed: 01/24/23								
Lithium	< 0.020	mg/L											
LCS (B323330-BS1)					Prepared: 01/17/23 Analyzed: 01/24/23								
Lithium	0.513	mg/L		0.5556		92	80-120						
<u>Batch B323330 - SW 3015 - EPA 6020A</u>													
Blank (B323330-BLK1)					Prepared: 01/17/23 Analyzed: 01/19/23								
Antimony	< 3.0	ug/L											
Arsenic	< 1.0	ug/L											
Barium	< 1.0	ug/L											
Beryllium	< 1.0	ug/L											
Boron	< 10	ug/L											
Cadmium	< 1.0	ug/L											
Calcium	< 0.20	mg/L											
Chromium	< 4.0	ug/L											
Cobalt	< 2.0	ug/L											
Lead	< 1.0	ug/L											
Magnesium	< 0.10	mg/L											
Mercury	< 0.20	ug/L											
Molybdenum	< 1.0	ug/L											
Potassium	0.256	mg/L	Bb										
Selenium	< 1.0	ug/L											
Sodium	0.312	mg/L	Bc										
Thallium	< 1.0	ug/L											



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B323330-BS1)				Prepared: 01/17/23 Analyzed: 01/19/23					
Antimony	526	ug/L		555.6		95	80-120		
Arsenic	552	ug/L		555.6		99	80-120		
Barium	541	ug/L		555.6		97	80-120		
Beryllium	561	ug/L		555.6		101	80-120		
Boron	507	ug/L		555.6		91	80-120		
Cadmium	531	ug/L		555.6		96	80-120		
Calcium	5.43	mg/L		5.556		98	80-120		
Chromium	556	ug/L		555.6		100	80-120		
Cobalt	547	ug/L		555.6		98	80-120		
Lead	530	ug/L		555.6		95	80-120		
Magnesium	5.63	mg/L		5.556		101	80-120		
Mercury	54.1	ug/L		55.56		97	80-120		
Molybdenum	546	ug/L		555.6		98	80-120		
Potassium	6.06	mg/L		5.556		109	80-120		
Selenium	536	ug/L		555.6		96	80-120		
Sodium	5.69	mg/L		5.556		102	80-120		
Thallium	530	ug/L		555.6		95	80-120		
<u>Batch B323334 - SW 3015 - EPA 6010B</u>									
Blank (B323334-BLK1)				Prepared: 01/17/23 Analyzed: 01/19/23					
Lithium	< 0.020	mg/L							
LCS (B323334-BS1)				Prepared: 01/17/23 Analyzed: 01/19/23					
Lithium	0.507	mg/L		0.5556		91	80-120		
Matrix Spike (B323334-MS1)				Sample: GA02365-17 Prepared: 01/17/23 Analyzed: 01/19/23					
Lithium	0.535	mg/L		0.5556	0.0401	89	75-125		
Matrix Spike Dup (B323334-MSD1)				Sample: GA02365-17 Prepared: 01/17/23 Analyzed: 01/19/23					
Lithium	0.528	mg/L		0.5556	0.0401	88	75-125	1	200
<u>Batch B323334 - SW 3015 - EPA 6020A</u>									
Blank (B323334-BLK1)				Prepared: 01/17/23 Analyzed: 01/18/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	0.177	mg/L	Ba						
Selenium	< 1.0	ug/L							
Sodium	0.195	mg/L							
Thallium	< 1.0	ug/L							



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B323334-BS1)		Prepared: 01/17/23 Analyzed: 01/18/23							
Antimony	530	ug/L		555.6	95	80-120			
Arsenic	544	ug/L		555.6	98	80-120			
Barium	581	ug/L		555.6	105	80-120			
Beryllium	616	ug/L		555.6	111	80-120			
Boron	506	ug/L		555.6	91	80-120			
Cadmium	528	ug/L		555.6	95	80-120			
Calcium	5.53	mg/L		5.556	100	80-120			
Chromium	571	ug/L		555.6	103	80-120			
Cobalt	560	ug/L		555.6	101	80-120			
Lead	574	ug/L		555.6	103	80-120			
Magnesium	5.59	mg/L		5.556	101	80-120			
Mercury	52.1	ug/L		55.56	94	80-120			
Molybdenum	553	ug/L		555.6	99	80-120			
Potassium	5.73	mg/L		5.556	103	80-120			
Selenium	568	ug/L		555.6	102	80-120			
Sodium	5.49	mg/L		5.556	99	80-120			
Thallium	562	ug/L		555.6	101	80-120			
Matrix Spike (B323334-MS1)		Sample: GA02365-17		Prepared: 01/17/23 Analyzed: 01/18/23					
Antimony	537	ug/L		555.6	ND	97	75-125		
Arsenic	570	ug/L		555.6	1.51	102	75-125		
Barium	604	ug/L		555.6	16.0	106	75-125		
Beryllium	603	ug/L		555.6	ND	109	75-125		
Boron	8020	ug/L		555.6	7550	85	75-125		
Cadmium	530	ug/L		555.6	ND	95	75-125		
Calcium	308	mg/L		5.556	303	99	75-125		
Chromium	557	ug/L		555.6	ND	100	75-125		
Cobalt	550	ug/L		555.6	ND	99	75-125		
Lead	591	ug/L		555.6	ND	106	75-125		
Magnesium	148	mg/L		5.556	144	88	75-125		
Mercury	57.7	ug/L		55.56	ND	104	75-125		
Molybdenum	581	ug/L		555.6	1.58	104	75-125		
Potassium	15.5	mg/L		5.556	10.1	97	75-125		
Selenium	578	ug/L		555.6	ND	104	75-125		
Sodium	298	mg/L	Q4	5.556	293	94	75-125		
Thallium	546	ug/L		555.6	ND	98	75-125		
Matrix Spike Dup (B323334-MSD1)		Sample: GA02365-17		Prepared: 01/17/23 Analyzed: 01/18/23					
Antimony	535	ug/L		555.6	ND	96	75-125	0.3	20
Arsenic	562	ug/L		555.6	1.51	101	75-125	1	20
Barium	595	ug/L		555.6	16.0	104	75-125	2	20
Beryllium	602	ug/L		555.6	ND	108	75-125	0.3	20
Boron	8100	ug/L		555.6	7550	99	75-125	1	20
Cadmium	527	ug/L		555.6	ND	95	75-125	0.6	20
Calcium	307	mg/L		5.556	303	75	75-125	0.4	20
Chromium	556	ug/L		555.6	ND	100	75-125	0.08	20
Cobalt	539	ug/L		555.6	ND	97	75-125	2	20
Lead	577	ug/L		555.6	ND	104	75-125	2	20
Magnesium	149	mg/L		5.556	144	102	75-125	0.5	20



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike Dup (B323334-MSD1)	Sample: GA02365-17			Prepared: 01/17/23 Analyzed: 01/18/23					
Mercury	55.6	ug/L		55.56	ND	100	75-125	4	20
Molybdenum	575	ug/L		555.6	1.58	103	75-125	1	20
Potassium	15.6	mg/L		5.556	10.1	98	75-125	0.3	20
Selenium	576	ug/L		555.6	ND	104	75-125	0.3	20
Sodium	297	mg/L	Q4	5.556	293	74	75-125	0.4	20
Thallium	536	ug/L		555.6	ND	96	75-125	2	20
<u>Batch B323462 - No Prep - SM 2540C</u>									
Blank (B323462-BLK1)	Prepared & Analyzed: 01/18/23								
Solids - total dissolved solids (TDS)	< 17	mg/L							
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B323462-BS1)	Prepared & Analyzed: 01/18/23								
Solids - total dissolved solids (TDS)	967	mg/L		1000		97	84.9-109		
Solids - total dissolved solids (TDS)	967	mg/L		1000		97	84.9-109		
Duplicate (B323462-DUP1)	Sample: GA02365-14			Prepared & Analyzed: 01/18/23					
Solids - total dissolved solids (TDS)	775	mg/L			760			2	5
Solids - total dissolved solids (TDS)	775	mg/L			760			2	5
Duplicate (B323462-DUP2)	Sample: GA02365-17			Prepared & Analyzed: 01/18/23					
Solids - total dissolved solids (TDS)	2660	mg/L			2620			2	5
Solids - total dissolved solids (TDS)	2660	mg/L			2620			2	5
<u>Batch B323484 - No Prep - SM 2540C</u>									
Blank (B323484-BLK1)	Prepared & Analyzed: 01/18/23								
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B323484-BS1)	Prepared & Analyzed: 01/18/23								
Solids - total dissolved solids (TDS)	960	mg/L		1000		96	84.9-109		
Duplicate (B323484-DUP1)	Sample: GA02365-23			Prepared & Analyzed: 01/18/23					
Solids - total dissolved solids (TDS)	2200	mg/L			2180			1	5
<u>Batch B323535 - No Prep - SM 2320B 1997</u>									
Duplicate (B323535-DUP3)	Sample: GA02056-02			Prepared & Analyzed: 01/17/23					
Alkalinity - carbonate as CaCO3	< 2.0	mg/L			ND				10
Duplicate (B323535-DUP6)	Sample: GA02365-22			Prepared & Analyzed: 01/17/23					
Alkalinity - carbonate as CaCO3	< 2.0	mg/L			ND				10
<u>Batch B323536 - No Prep - SM 2320B 1997</u>									
Duplicate (B323536-DUP3)	Sample: GA02056-02			Prepared & Analyzed: 01/17/23					
Alkalinity - bicarbonate as CaCO3	325	mg/L			312			4	10
Duplicate (B323536-DUP6)	Sample: GA02365-22			Prepared & Analyzed: 01/17/23					
Alkalinity - bicarbonate as CaCO3	225	mg/L			225			0	10
<u>Batch B323566 - SW 3015 - EPA 6020A</u>									
Blank (B323566-BLK1)	Prepared: 01/19/23 Analyzed: 01/20/23								
Calcium	< 0.20	mg/L							
LCS (B323566-BS1)	Prepared: 01/19/23 Analyzed: 01/20/23								
Calcium	5.44	mg/L		5.556		98	80-120		



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B323851 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B323851-CCB1)									Prepared & Analyzed: 01/21/23
Chloride	0.00	mg/L							
Fluoride	0.00	mg/L							
Sulfate	0.00	mg/L							
Calibration Check (B323851-CCV1)									Prepared & Analyzed: 01/21/23
Fluoride	5.11	mg/L		5.000		102	90-110		
Sulfate	4.82	mg/L		5.000		96	90-110		
Chloride	4.79	mg/L		5.000		96	90-110		
<u>Batch B323854 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B323854-CCB1)									Prepared & Analyzed: 01/21/23
Chloride	0.220	mg/L							
Fluoride	0.00	mg/L							
Calibration Check (B323854-CCV1)									Prepared & Analyzed: 01/21/23
Chloride	5.42	mg/L		5.000		108	90-110		
Fluoride	5.42	mg/L		5.000		108	90-110		
<u>Batch B324042 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B324042-CCB1)									Prepared & Analyzed: 01/24/23
Sulfate	0.00	mg/L							
Calibration Check (B324042-CCV1)									Prepared & Analyzed: 01/24/23
Sulfate	4.77	mg/L		5.000		95	90-110		
<u>Batch B324210 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B324210-CCB1)									Prepared & Analyzed: 01/26/23
Sulfate	0.00	mg/L							
Fluoride	0.00	mg/L							
Chloride	0.503	mg/L							
Calibration Check (B324210-CCV1)									Prepared & Analyzed: 01/26/23
Chloride	4.83	mg/L		5.000		97	90-110		
Fluoride	5.17	mg/L		5.000		103	90-110		
Sulfate	4.96	mg/L		5.000		99	90-110		
<u>Batch B324218 - No Prep - SM 4500F C 1997</u>									
Matrix Spike (B324218-MS4)			Sample: GA02056-02		Prepared & Analyzed: 01/27/23				
Fluoride	1.26	mg/L		1.000	0.238	102	80-120		
Matrix Spike (B324218-MS5)			Sample: GA02365-15		Prepared & Analyzed: 01/27/23				
Fluoride	1.21	mg/L		1.000	0.203	100	80-120		
Matrix Spike Dup (B324218-MSD4)			Sample: GA02056-02		Prepared & Analyzed: 01/27/23				
Fluoride	1.26	mg/L		1.000	0.238	102	80-120	0.08	20
Matrix Spike Dup (B324218-MSD5)			Sample: GA02365-15		Prepared & Analyzed: 01/27/23				
Fluoride	1.22	mg/L		1.000	0.203	102	80-120	1	20
<u>Batch B324440 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B324440-CCB1)									Prepared & Analyzed: 01/27/23
Sulfate	0.00	mg/L							



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit				
Calibration Check (B324440-CCV1)					Prepared & Analyzed: 01/27/23								
Sulfate	4.97	mg/L		5.000		99	90-110						
<u>Batch B324442 - IC No Prep - EPA 300.0 REV 2.1</u>													
Calibration Blank (B324442-CCB1)					Prepared & Analyzed: 01/27/23								
Sulfate	0.00	mg/L											
Chloride	0.496	mg/L											
Calibration Check (B324442-CCV1)					Prepared & Analyzed: 01/27/23								
Sulfate	4.95	mg/L		5.000		99	90-110						
Chloride	4.76	mg/L		5.000		95	90-110						
<u>Batch B324452 - No Prep - SM 4500F C 1997</u>													
Calibration Blank (B324452-CCB1)					Prepared & Analyzed: 01/31/23								
Fluoride	0.0190	mg/L											
Calibration Blank (B324452-CCB2)					Prepared & Analyzed: 01/31/23								
Fluoride	0.0120	mg/L											
Calibration Check (B324452-CCV1)					Prepared & Analyzed: 01/31/23								
Fluoride	0.657	mg/L		0.7000		94	90-110						
Calibration Check (B324452-CCV2)					Prepared & Analyzed: 01/31/23								
Fluoride	0.679	mg/L		0.7000		97	90-110						
<u>Batch B324532 - IC No Prep - EPA 300.0 REV 2.1</u>													
Calibration Blank (B324532-CCB1)					Prepared & Analyzed: 01/31/23								
Sulfate	0.00	mg/L											
Calibration Check (B324532-CCV1)					Prepared & Analyzed: 01/31/23								
Sulfate	4.99	mg/L		5.000		100	90-110						



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

Qualifiers

- B Present in the method blank at 173 ug/L.
- Ba Present in the method blank at 177 ug/L.
- Bb Present in the method blank at 256 ug/L.
- Bc Present in the method blank at 312 ug/L.
- M Analyte failed to meet the required acceptance criteria for duplicate analysis.
- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level.
The associated blank spike was acceptable.

Certified by: Gail Schindler, Project Manager



CHAIN-OF-CUSTODY / Analytical Request Document

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GAO1700-20
SAB

Page: 1 of 7

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey		Company Name: Vistra Corp	REGULATORY AGENCY
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Address: see Section A		NPDES GROUND WATER DRINKING WATER	
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:		UST RCRA OTHER	
Phone: (217) 753-8911	Fax:	Project Manager:		Site Location	STATE: IL
Requested Due Date/TAT:	10 day	Project Number: 2285	Profile #:		

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE <small>DW WT WW P SL OL WP AR OT TS</small>		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Y/N	Analysis Test ↓	Y/N	Residual Chlorine (Y/N)	Project No./ Lab I.D.
						DATE	TIME								
1	BA01	WT	G	1/10/23	1216			2	X	Unpreserved	DC_257_203				
2	BA02	WT	L	1/10/23	1315			2	X	H ₂ SO ₄	DC_257_204				
3	BA02L	WT	G	1/10/23	1246			2	X	HNO ₃	DC_257_205				
4	BA03	WT	G	1/10/23	1101			2	X	HCl	DC_811_204				
5	BA03L	WT	G	1/10/23	1141			2	X	NaOH	DC_CLOSURE_201-202				
6	BA04	WT	G	1/10/23	1033			2	X	Na ₂ S ₂ O ₃	DC_WPCP_203-206				
7	BA05	WT	G	1/10/23	1359			2	X	Methanol	DC_845_201-202				
8	BA06	WT	G	1/10/23	1456			4	X	Other					
9	G02S														
10	G04S														
11	G06L														
12	G06S														
13	G07L														
14	G08L														
15	G09L														
16	G09S														
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS				
DC-Q1-2023 Rev 2			<i>[Signature]</i>		1/10/23		<i>[Signature]</i>		1-11-23	700	0.9	Y	N	Y	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

Aaron Pemberton

DATE Signed
(MM/DD/YY): 01/10/23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
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Court

GA0100-20

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 2 of 7																																									
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey																																											
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp		REGULATORY AGENCY																																									
				Address: see Section A		NPDES GROUND WATER DRINKING WATER																																									
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		UST RCRA OTHER																																									
Phone: (217) 753-8911		Fax:		Project Manager:		Site Location: IL																																									
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:		STATE:																																									
Requested Analysis Filtered (Y/N)																																															
ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE		COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Y/N	Analysis Test ↓	Project No./ Lab I.D.																																					
		MATRIX	CODE (see valid codes to left)								SAMPLE TYPE (G=GRAB C=COMP)																																				
1	G12S						H ₂ SO ₄	DC_257_203																																							
2	G15S						HNO ₃	DC_257_204																																							
3	G50L						HCl	DC_257_205																																							
4	G50S						NaOH	DC_811_204																																							
5	G51L						Na ₂ S ₂ O ₃	DC_GLOSURE_201-202																																							
6	G51S						Methanol	DC_WPCP_203-206																																							
7	G52L						Other	DC_845_201-202																																							
8	G52S																																														
9	G53L																																														
10	G53S																																														
11	G54L																																														
12	G54S																																														
13	G55L																																														
14	G55S																																														
15	G56L																																														
16	G56S	WT	10/23	15:16	2X	X																																									
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																																					
DC-Q1-2023 Rev 2		<i>[Signature]</i>		10/23		James Woyner		1-1-23	700	0.9	Y																																				
										N																																					
											Y																																				
<table border="1"> <tr> <td colspan="6">SAMPLER NAME AND SIGNATURE</td> <td colspan="6"></td> </tr> <tr> <td colspan="6">PRINT Name of SAMPLER: Aaron Pemberton</td> <td colspan="6"></td> </tr> <tr> <td colspan="6">SIGNATURE of SAMPLER: <i>[Signature]</i></td> <td colspan="6">DATE Signed (MM/DD/YY): 01/10/23</td> </tr> </table>												SAMPLER NAME AND SIGNATURE												PRINT Name of SAMPLER: Aaron Pemberton												SIGNATURE of SAMPLER: <i>[Signature]</i>						DATE Signed (MM/DD/YY): 01/10/23					
SAMPLER NAME AND SIGNATURE																																															
PRINT Name of SAMPLER: Aaron Pemberton																																															
SIGNATURE of SAMPLER: <i>[Signature]</i>						DATE Signed (MM/DD/YY): 01/10/23																																									
<table border="1"> <tr> <td>Temp in °C</td> <td>Received on Ice (Y/N)</td> <td>Custody Sealed Cooler (Y/N)</td> <td>Samples Intact (Y/N)</td> </tr> </table>												Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)																																
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)																																												

GA01700-20

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A
Required Client Information:Section B
Required Project Information:Section C
Invoice Information:

Page: 4 of 7

Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey			
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	REGULATORY AGENCY		
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Address: see Section A	NPDES	GROUND WATER	DRINKING WATER
Phone: (217) 753-8911	Fax:	Quote Reference:	UST	RCRA	OTHER
Requested Due Date/TAT: 10 day		Project Name:	Project Manager:	Site Location:	STATE: IL
		Project Number: 2285	Profile #:		

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / ,) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DW WT WW P SL OL WP AR OT TS (see valid codes to left)	COLLECTED DATE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Analysis Test ↓ Y/N							Residual Chlorine (Y/N)	Project No./ Lab I.D.	
								DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_CLOSURE_201-202	DC_WP/CP_203-206			DC_845_201-202
1	G66L	WT G	1/10/23 1315		2 X X											
2	G66S	WT L	1/10/23 1251		2 X X											
3	G67L	WT L	1/10/23 1401		2 X X											
4	G67S	WT L	1/10/23 1442		2 X X											
5	G70L	WT L	1/10/23 1029		2 X X											
6	G71L															
7	G71S	WT L	1/10/23 1102		2 X X											
8	G72L															
9	G73L	WT L	1/10/23 1133		2 X X											
10	OM01															
11	OM04S															
12	OM05S - DTW															
13	OM07															
14	OM08 - DTW															
15	OM09 - DTW															
16	OM10 - DTW															
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS						
DC-Q1-2023 Rev 2		<i>C. Johnson</i>		1/10/23		<i>Janice Wayne</i>		1-11-23	700	0.9	Y	N	Y			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

*Aaron Robertson*DATE Signed
(MM/DD/YY):

01/10/23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
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Court

GA01700-20

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A
Required Client Information:Section B
Required Project Information:

Section C

Invoice Information:

Page: 5 of 7

Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey	REGULATORY AGENCY		
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	NPDES GROUND WATER DRINKING WATER		
		Address: see Section A	UST RCRA OTHER		
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:			
Phone: (217) 753-8911	Fax:	Project Manager:	Site Location:	STATE: IL	
Requested Due Date/TAT:	10 day	Project Number: 2285	Profile #:		

ITEM #	SAMPLE ID (A-Z, 0-9 / ,.) Sample IDs MUST BE UNIQUE	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)						Project No./ Lab I.D.
						DATE	TIME					DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_CLOSURE_201-202	DC_WPCP_203-206	DC_845_201-202
1	OM12		WT	G	i/10/23	1515		S	X	H ₂ SO ₄	X							
2	OM15 - DTW									HNO ₃								
3	OM16									HCl								
4	OM17									NaOH								
5	OM21									Na ₂ S ₂ O ₃								
6	OM22D		WT	G	i/10/23	1356		S	X	Methanol								
7	OM22S - DTW									Other								
8	OM23D																	
9	OM23S ~ DTW																	
10	OM24D		WT	G	i/10/23	1136		S	X									
11	OM25D ~ DTW																	
12	OM25S		WT	G	i/10/23	1217		S	X	K								
13	OR02																	
14	OR03D																	
15	OR03S - DTW																	
16	OR04D																	
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS							
DC-Q1-2023 Rev 2					1/10/23		Vivian Wagner		1-1-23	700	0.9	Y	N	Y				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed
(MM/DD/YY): 01/10/23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
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Courier

CHAIN-OF-CUSTODY / Analytical Request Document

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GA02003.05

GA01700-20

SAB

Page: 1 of 7

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey		Company Name: Vistra Corp	REGULATORY AGENCY
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Address: see Section A		NPDES	GROUND WATER DRINKING WATER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:		UST	RCRA OTHER
Phone: (217) 753-8911	Fax:	Project Manager:		Site Location	STATE: IL
Requested Due Date/TAT:	10 day	Project Number: 2285	Profile #:		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE (see valid codes to left)	MATRIX CODE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	Requested Analysis Filtered (Y/N)										Project No./Lab I.D.																
				DATE	TIME		# OF CONTAINERS	Preservatives																									
	SAMPLE ID (A-Z, 0-9 / -.) Sample IDs MUST BE UNIQUE						X	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	↓ Analysis Test ↓	Y/N																	
1	BA01	WT G	1/10/23	1216			X	X	X							DC_257_203																	
2	BA02	WT G	1/10/23	1315			2 X			X						DC_257_204																	
3	BA02L	WT G	1/10/23	1246			2 X			X						DC_257_205																	
4	BA03	WT G	1/10/23	1101			2 X			X						DC_811_204																	
5	BA03L	WT G	1/10/23	1141			2 X			X						DC_CLOSURE_201/202																	
6	BA04	WT G	1/10/23	1033			2 X			X						DC_WPCC_203-206																	
7	BA05	WT G	1/10/23	1359			2 X			X						DC_845_201-202																	
8	BA06	WT G	1/10/23	1456			4 X X X																										
9	G02S																																
10	G04S																																
11	G06L																																
12	G06S																																
13	G07L																																
14	G08L																																
15	G09L																																
16	G09S																																
ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																					
DC-Q1-2023 Rev 2				<i>[Signature]</i>		1/10/23		<i>Vance Wagner</i>		1-11-23	700	0.9	Y	N																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">SAMPLE NAME AND SIGNATURE</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">PRINT Name of SAMPLER:</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">SIGNATURE of SAMPLER:</td> <td colspan="2"></td> </tr> </table>																		SAMPLE NAME AND SIGNATURE				PRINT Name of SAMPLER:				SIGNATURE of SAMPLER:				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SAMPLE NAME AND SIGNATURE																																	
PRINT Name of SAMPLER:																																	
SIGNATURE of SAMPLER:																																	
<i>Aaron Pemberton</i>																		DATE Signed (MM/DD/YY): 01/10/23															

Courier

GA02003-05 GA01700-20

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 5 of 7																										
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey																												
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp		REGULATORY AGENCY																										
				Address: see Section A																												
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		NPDES	GROUND WATER DRINKING WATER																									
Phone: (217) 753-8911		Fax:		Project Manager:		UST	RCRA OTHER																									
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:		Site Location: STATE: IL																										
Requested Analysis Filtered (Y/N)																																
ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes <table border="0" style="margin-left: 10px;"><tr><td>MATRIX</td><td>CODE</td></tr><tr><td>DRINKING WATER</td><td>DW</td></tr><tr><td>WATER</td><td>WT</td></tr><tr><td>WASTE WATER</td><td>WW</td></tr><tr><td>PRODUCT</td><td>P</td></tr><tr><td>SOLID/SOLID</td><td>SL</td></tr><tr><td>OL</td><td>OL</td></tr><tr><td>WP</td><td>WP</td></tr><tr><td>AIR</td><td>AR</td></tr><tr><td>OTHER</td><td>OT</td></tr><tr><td>TISSUE</td><td>TS</td></tr></table>	MATRIX	CODE	DRINKING WATER	DW	WATER	WT	WASTE WATER	WW	PRODUCT	P	SOLID/SOLID	SL	OL	OL	WP	WP	AIR	AR	OTHER	OT	TISSUE	TS	MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives	↓ Analysis Test ↓ Y/N	Residual Chlorine (Y/N)	Project No./ Lab I.D.
			MATRIX	CODE																												
DRINKING WATER	DW																															
WATER	WT																															
WASTE WATER	WW																															
PRODUCT	P																															
SOLID/SOLID	SL																															
OL	OL																															
WP	WP																															
AIR	AR																															
OTHER	OT																															
TISSUE	TS																															
DATE	TIME	SAMPLE TEMP AT COLLECTION	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																						
1	OM12	WT G	1/10/23	1515	S	X	X																									
2	OM15 ~ DTW																															
3	OM16																															
4	OM17																															
5	OM21																															
6	OM22D	WT G	1/10/23	1356	S	X	X																									
7	OM22S ~ DTW																															
8	OM23D																															
9	OM23S ~ DTW																															
10	OM24D	WT G	1/10/23	1136	S	X	X																									
11	OM25D ~ DTW																															
12	OM25S	WT G	1/10/23	1217	S	X	X																									
13	OR02																															
14	OR03D																															
15	OR03S ~ DTW																															
16	OR04D																															
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																						
DC-Q1-2023 Rev 2		<i>[Signature]</i>		1/10/23		<i>[Signature]</i>		1-1-23	700	0.9	Y	N	<i>[Signature]</i>																			
SAMPLER NAME AND SIGNATURE								Temp in °C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples intact (Y/N)																								
PRINT Name of SAMPLER: <i>[Signature]</i>																																
SIGNATURE of SAMPLER: <i>[Signature]</i>								DATE Signed (MM/DD/YY): 01/10/23																								

GA02056-20

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:Section B
Required Project Information:Section C
Invoice Information:

Page: 1 of 7

Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey	REGULATORY AGENCY		
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	NPDES	GROUND WATER	DRINKING WATER
		Address: see Section A	UST	RCRA	OTHER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:			
Phone: (217) 753-8911	Fax:	Project Manager:			
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:	Site Location	STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes		COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)		Project No./Lab I.D.
		MATRIX	CODE	MATRIX CODE	(see valid codes to left)				SAMPLE TYPE	(G=GRAB O=COMP)	
1	BA01	DRINKING WATER	DW	WT				Unpreserved	DC_257_203		
2	BA02	WATER	WT					H ₂ SO ₄	DC_257_204		
3	BA02L	WASTE WATER	WW					HNO ₃	DC_257_205		
4	BA03	PRODUCT	P					HCl	DC_811_204		
5	BA03L	SOIL/SOLID	SL	OL				NaOH	DC_CLOSURE_201-202		
6	BA04	OL	OL	WP				Na ₂ SO ₃	DC_WP-CP_203-206		
7	BA05	WIPES	WP	AR				Methanol	DC_845_201-202		
8	BA06	AIR	AR	OT				Other			
9	G02S	OTHER	OT	TS							
10	G04S	TISSUE	TS								
11	G06L										
12	G06S										
13	G07L										
14	G08L										
15	G09L										
16	G09S										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DC-Q1-2023 Rev 3							0.8	Y	N	Y

SAMPLER NAME AND SIGNATURE		Temp in °C <i>0.8</i>	Received on location (Y/N) <i>Y</i>
PRINT Name of SAMPLER: <i>Joseph Reed</i>	SIGNATURE OF SAMPLER: <i>Joseph Reed</i>		

CA
1/11/23 for Joseph Reed

J. Reed 1-11-23
16:30

GA02056-20

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 7

Section A
Required Client Information:

Company: Vistra Corp

Section B
Required Project Information:

Report To: Brian Voelker

Section C
Invoice Information:

Attention: Jason Stuckey

Address: 13498 E. 800th St

Company Name: Vistra Corp

REGULATORY AGENCY

Email To: Brian.Voelker@VistraCorp.com

Address: see Section A

NPDES GROUND WATER DRINKING WATER

Phone: (217) 753-8911

Quote Reference:

UST RCRA OTHER

Fax:

Project Name:

Project Manager:

Site Location STATE: IL

Requested Due Date/TAT:

10 day

Project Number: 2285

Profile #:

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Y/N	Analysis Test ↓	DC_257_203 DC_257_204 DC_257_205 DC_811_204 DC_CLOSURE_201-202 DC_WPSCP_203-206 DC_845_201-202	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE										
1	G12S										
2	G15S										
3	G50L	WT G	1/11/23	15:54	2						
4	G50S										
5	G51L										
6	G51S										
7	G52L										
8	G52S										
9	G53L	WT G	1/11/23	14:44	2						
10	G53S	WT G	1/11/23	14:17	2						
11	G54L										
12	G54S										
13	G55L										
14	G55S										
15	G56L										
16	G56S										
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	
DC-Q1-2023 Rev 3				1/11/23	14:25						

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lindsey Hawks

SIGNATURE of SAMPLER:

DATE Signed
(MM/DD/YY):

1/11/23

0.8

Y

N

Y

Samples Initiated
(Y/N)241
1/11/23

for Joseph Reed

Received on
ice (Y/N)Custody
Sealed Container
(Y/N)Samples Initiated
(Y/N)1-11-23
16:30

GA02056-20

CHAIN-OF-CUSTODY / Analytical Request Document

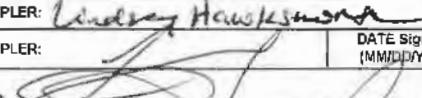
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:Section B
Required Project Information:Section C
Invoice Information:

Page: 3 of 7

Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey	REGULATORY AGENCY		
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	NPDES GROUND WATER DRINKING WATER		
		Address: see Section A	UST	RCRA	OTHER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quake Reference:			
Phone: (217) 753-8911	Fax:	Project Manager:			
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #	Site Location	STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	CODE (use valid codes to [N])	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	Project No./Lab I.D.
								MATRIX CODE (G=G-RAB C=COMP)	SAMPLE TYPE (S=SOLID O=OIL W=WATER AR=AIR OT=OTHER TS=TISSUE)		
1	G57L							DC_257_203			
2	G57S							DC_257_204			
3	G58L	WT G	1/11/23	1018	0			DC_257_205			
4	G58S	WT G	1/11/23	9526	2			DC_811_204			
5	G59L							DC_CLOSURE_201-202			
6	G59S	WT G	1/11/23	10571	2			DC_WPCP_203-206			
7	G60L							DC_845_201-202			
8	G60S										
9	G61S	WT G	1/11/23	1137	2						
10	G62L										
11	G63L										
12	G63S	WT G	1/11/23	1214	2						
13	G64L	WT G	1/11/23	1327	4						
14	G64S	WT G	1/11/23	1302	4						
15	G65L										
16	G65S										
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
DC-Q1-2023 Rev 3				1/11/23	1625				0.8	Y	N

SAMPLER NAME AND SIGNATURE		Temp in °C Received on Ice (Y/N) Custom Sealed Container (Y/N) Samples In tact (Y/N)
PRINT Name of SAMPLER: Lindsey Hawkesworth	SIGNATURE OF SAMPLER: 	
DATE Signed (MM/DD/YY): 1/11/23		

(IA) For Joseph A. Hall
1/11/23

1-11-23
16:30

GA02056-020

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A
Required Client Information:Section B
Required Project Information:Section C
Invoice Information:

Page: 4 of 7

Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey	REGULATORY AGENCY		
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	GROUND WATER DRINKING WATER		
		Address: see Section A	NPDES	RCRA	OTHER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quota Reference:	UST		
Phone: (217) 753-8911	Fax:	Project Manager:	Site Location	IL	
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:	STATE:		

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test ↓ Y/N	Requested Analysis Filtered (Y/N)		Project No./Lab I.D.				
		MATRIX	CODE						MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)		DATE	TIME	Unpreserved	H ₂ SO ₄
1	G88L	DW							DC_257_203						
2	G66S	WT							DC_257_204						
3	G67L	WT							DC_257_205						
4	G67S	WT							DC_811_204						
5	G70L	WT							DC_CLOSURE_201-202						
6	G71L	WT							DC_WPCP_203-206						
7	G71S	WT							DC_845_201-202						
8	G72L	WT													
9	G73L	WT													
10	OM01	WT G	1/11/23	10:05	3										
11	OM04S	WT G	1/11/23	10:05	3										
12	OM05S	WT G	1/11/23	10:05	3										
13	OM07	WT G	1/11/23	13:59	5										
14	OM08														
15	OM09														
16	OM10														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
DC-Q1-2023 Rev 3	<i>[Signature]</i>	1/11/23	16:25				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed
(MM/DD/YY):

1/11/23

Temp in °C: 0.8
 Received on ice (Y/N): Y
 Custody Sealed Container (Y/N): N
 Samples intact (Y/N): X

24
 for
 Joseph Reed
 1/12/23
 Dr. Ball
 1-11-23
 16:30

G-A02056 - 20

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:Section B
Required Project Information:Section C
Invoice Information:

Page: 5 of 7

Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey	REGULATORY AGENCY		
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	NPDES	GROUND WATER	DRINKING WATER
		Address: see Section A	UST	RCRA	OTHER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:			
Phone: (217) 753-8811	Fax:	Project Manager:	Site Location	IL	
Requested Due Date/TAT: 10 day	Project Number: 2265	Profile #:	STATE:		

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)		Project No./ Lab I.D.
		MATRIX	CODE		MATRIX CODE (see valid codes to left)	DATE				TIME	Y/N	
1	OM12	DW	WT						Unpreserved	DC_257_203		
2	OM15	WT	WT						H ₂ SO ₄	DC_257_204		
3	OM16	WW	WW						HNO ₃	DC_257_205		
4	OM17	R	R						HCl	DC_811_204		
5	OM21	SL	SL						NaOH	DC_CLOSURE_201-202		
6	OM22D	OL	OL						Na ₂ SO ₄	DC_WPCP_203-206		
7	OM22S	WP	WP						Methanol	DC_845_201-202		
8	OM23D	AR	AR						Other			
9	OM23S	OT	OT									
10	OM24D											
11	OM25D											
12	OM25S											
13	OR02	WT G	1/11/23	1225	5							
14	OR03D	WT G	1/11/23	1400	5							
15	OR03S OR03D	WT G	1/11/23	1532	5							
16	OR04D	WT G	1/11/23	1532	5							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
DC-Q1-2023 Rev 3	<i>[Signature]</i>	1/11/23	1625						

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

Joseph Hesch

SIGNATURE OF SAMPLER:

DATE Signed
(MM/DD/YY):

1/11/23

Temp in °C: 0.8 Y N Y
 Received on Ice (Y/N):
 Cooled Sealed Cooler (Y/N):
 Sampled Inert (Y/N):

for Joseph Hesch
1/11/23

Joe Hesch 1-11-23
16:30

GA02056-20

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:				
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey				
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp		REGULATORY AGENCY		
				Address: see Section A		NPDES	GROUND WATER	DRINKING WATER
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quota Reference:		UST	RCRA	OTHER
Phone: (217) 753-8911		Fax:		Project Manager:		Site Location: STATE: IL		
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:				

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9, .) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	Project No./ Lab I.D.																																
		MATRIX	CODE					MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)			Y/N	Analysis Test ↓																														
1	OR05D	WATER	DW					DC_257_203																																			
2	OR08A	WATER	WW	1/11/23	12:45	5	Unpreserved	DC_257_204																																			
3	OR11	WATER	W"					DC_257_205																																			
4	OR13D	WATER	WW					DC_811_204																																			
5	OR13S	WATER	W"					DC_CLOSURE_201-202																																			
6	OR14D	WATER	WW					DC_WPCP_203-206																																			
7	OR14S	WATER	WW					DC_845_201-202																																			
8	OR18	WATER	WW																																								
9	OR19	WATER	WW																																								
10	OR20	WATER	WW																																								
11	P36L	WATER	WW																																								
12	P37L	WATER	WW																																								
13	R10L	WATER	WW																																								
14	R61L	WATER	WW																																								
15	R72S	WATER	WW																																								
16	T43L	WATER	WW																																								
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																																	
DC-Q1-2023 Rev 3				1/11/23	14:25					Temp in °C																																	
<table border="1"> <tr> <td colspan="8">SAMPLER NAME AND SIGNATURE</td> <td rowspan="2">Received on site (Y/N)</td> <td rowspan="2">Custody Sealed Container (Y/N)</td> <td rowspan="2">Samples intact (Y/N)</td> </tr> <tr> <td colspan="4">PRINT Name of SAMPLER:</td> <td colspan="4">Signature of SAMPLER:</td> <td>DATE Signed (MM/DD/YY):</td> </tr> <tr> <td colspan="4">Lindsey H. Reamer</td> <td colspan="4">1/11/23</td> <td>1/11/23</td> <td>08</td> <td>Y</td> <td>N</td> </tr> </table>												SAMPLER NAME AND SIGNATURE								Received on site (Y/N)	Custody Sealed Container (Y/N)	Samples intact (Y/N)	PRINT Name of SAMPLER:				Signature of SAMPLER:				DATE Signed (MM/DD/YY):	Lindsey H. Reamer				1/11/23				1/11/23	08	Y	N
SAMPLER NAME AND SIGNATURE								Received on site (Y/N)	Custody Sealed Container (Y/N)	Samples intact (Y/N)																																	
PRINT Name of SAMPLER:				Signature of SAMPLER:							DATE Signed (MM/DD/YY):																																
Lindsey H. Reamer				1/11/23				1/11/23	08	Y	N																																

CHAIN-OF-CUSTODY / Analytical Request Document

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

GA02365-026 8AB

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 2 of 7		
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey				
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp		REGULATORY AGENCY		
				Address: see Section A				
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		NPDES GROUND WATER DRINKING WATER		
Phone: (217) 753-8911		Fax:		Project Manager:		UST RCRA OTHER		
Requested Due Date/TAT: 10 day		Project Number: 2285		Prolis #: 2285		Site Location: IL STATE: IL		

ITEM #	SAMPLE ID (A-Z, 0-9, -,.) Sample IDs MUST BE UNIQUE	Valid Matrix Codes <small>MATRIX CODE</small>	MATRIX CODE <small>(use valid codes to left)</small>	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	Project No./Lab I.D.		
				DATE	TIME				Unpreserved	H ₂ SO ₄			HNO ₃	HCl
1	G12S													
2	G15S													
3	G50L													
4	- G50S	WT	6	1/12/23	1441C		2	X	X					
5	- G51L	WT	6	1/12/23	1548		4	X	X					
6	- G51S	WT	6	1/12/23	1523		2	X	X					
7	G52L													
8	- G52S	WT	6	1/12/23	1552		0							
9	G53L													
10	G53S													
11	G54L													
12	G54S													
13	G55L													
14	G55S													
15	- G56L	WT	6	1/12/23	1045		0							
16	G56S													
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
DC-Q1-2023 Rev 3			<i>✓</i>		1/12/23	12:22					1.7	Y	N	X
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <i>Aaron Pankerton</i> SIGNATURE of SAMPLER: <i>C. M. Pankerton</i> DATE Signed (MM/DD/YY): 01/12/23 <i>S. Schall</i> 1-13-23 7:15am														
Temp in °C Received in Ice (Y/N) Custody Seal Copier (Y/N) Sample Intact (Y/N)														

CHAIN-OF-CUSTODY / Analytical Request Document

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

GA02365

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:							
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		Page: 3 of 7					
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp		REGULATORY AGENCY					
				Address: see Section A		NPDES GROUND WATER DRINKING WATER					
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		UST RCRA OTHER					
Phone: (217) 753-8911		Fax:		Project Manager:		Site Location: IL					
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #: _____		STATE: _____					
Requested Analysis Filtered (Y/N)											
Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOLIDS/SLUDGE SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS		COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ SO ₃ Methanol Other		Y/N	Project No./Lab I.D. Dry		
										DATE	TIME
	1	G57L	WT	1/12/23	1056	0				DC_257_203	
	2	G57S	WT	1/12/23	1122	4X	X			DC_257_204	
	3	G58L								DC_257_205	
	4	G58S								DC_811_204	
	5	G59L	WT	1/12/23	1120	2X	X			DC_CLOSURE_201-202	
	6	G59S								DC_WPCP_203-206	
	7	G60L	WT	1/12/23	1248	4X	X			DC_845_201-202	
	8	G60S	WT	1/12/23	1338	4X	X				
	9	G61S									
	10	G62L	WT	1/12/23	1319	2X	X				
	11	G63L	WT	1/12/23	1356	2X	X				
	12	G63S									
	13	G64L									
	14	G64S									
	15	G65L	WT	1/12/23	1020	0					
16	G65S	WT	1/12/23	1039	2X	X					
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	
DC-Q1-2023 Rev 3		<i>[Signature]</i>		1/12/23	1722						
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <i>Aaron Pemberton</i> SIGNATURE of SAMPLER: <i>[Signature]</i> DATE Signed (MM/DD/YY): 01/13/23											
Temp in °C Received on Ice (Y/N) Custody Sealed/Cooler (Y/N) Samples intact (Y/N)											
<i>Dry</i> Y N Y											

DC-Q1-2023 Rev 3 1/13/23 7:15am

GA02365

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A
Required Client Information:Section B
Required Project Information:Section C
Invoice Information:

Page: 4 of 7

Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey	REGULATORY AGENCY		
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	NPDES	GROUND WATER	DRINKING WATER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Address: see Section A	UST	RCRA	OTHER
Phone: (217) 753-8911	Fax:	Quota Reference:			
Requested Due Date/TAT: 10 day	Project Name: 2285	Project Manager:	Site Location:	IL	
		Profile #:	STATE:		

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / ,.) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)		Project No./Lab I.D.
		MATRIX	CODE					MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB G-COMP)	
1	G66L	DW					Unpreserved	DC_257_203		
2	G66S	WT					H ₂ SO ₄	DC_257_204		
3	G67L	WW					HNO ₃	DC_257_205		
4	G67S	P					HCl	DC_811_204		
5	G70L	SL					NaOH	DC_CLOSURE_201-202		
6	G71L	OL					NH ₂ S ₂ O ₃	DC_WPCP_203-206		
7	G71S	WF					Methanol	DC_845_201-202		
8	G72L	AR					Other			
9	G73L	OT								
10	OM01	TG								
11	OM04S	WT G	1/12/23	1015						
12	OM05S									
13	OM07									
14	OM08									
15	OM09									
16	OM10									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DC-Q1-2023 Rev 3	<i>[Signature]</i>	1/12/23	1722				1.7	Y	N	X

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

*Brian Voelker*DATE Signed
(MM/DD/YY): 01/12/23

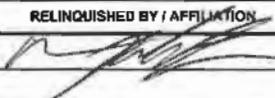
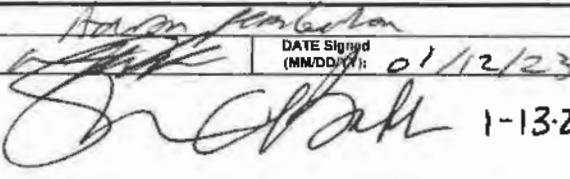
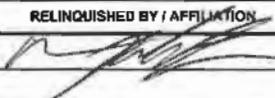
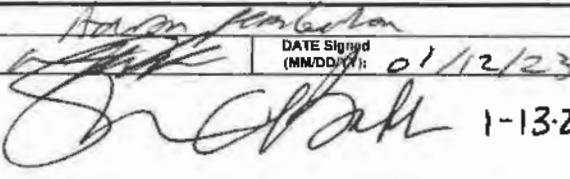
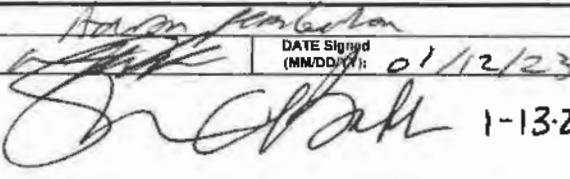
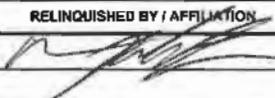
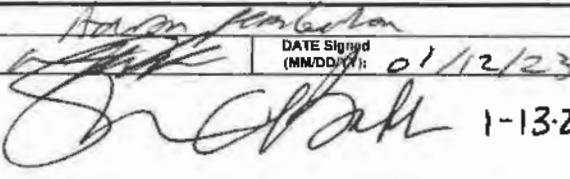
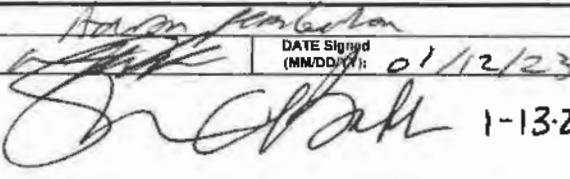
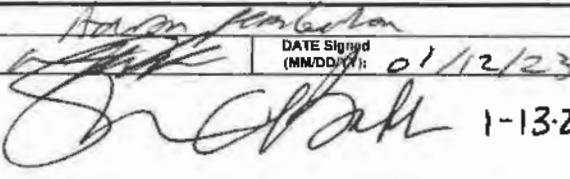
Temp in °C	Received on Ice (Y/N)	Cooler Sealed/Cooler (Y/N)	Sample intact (Y/N)

J. Clark 1-13-23 7:15am

CHAIN-OF-CUSTODY / Analytical Request Document

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GA02365

Section A Required Client Information: Company: Vistra Corp Address: 13498 E. 900th St Email To: Brian.Voelker@VistraCorp.com Phone: (217) 753-8911		Section B Required Project Information: Report To: Brian Voelker Copy To: Jason Stuckey Purchase Order No.: Project Name: Requested Due Date/TAT: 10 day	Section C Attention: Jason Stuckey Company Name: Vistra Corp Address: see Section A Quote Reference: Project Manager: Profile #: REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location STATE: IL																																																																																																																																																																																																																																																																													
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GA 02365-26
SAB

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey			
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	REGULATORY AGENCY		
		Address: see Section A	NPDES	GROUND WATER	DRINKING WATER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:	UST	RCRA	OTHER
Phone: (217) 753-8911	Fax:	Project Manager:	Site Location:		
Requested Due Date/TAT:	10 day	Project Number: 2285	STATE:	IL	

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				DATE	TIME				Y/N	Y/N							
1	OR05D								DC_257_203								
2	OR06A								DC_257_204								
3	- OR11	WT G	1/12/23 1425			S X X			DC_257_205								
4	- OR13D	WT G	1/12/23 1429			S X X			DC_811_204								
5	- OR13S	WT G	1/12/23 1421			S X X			DC_CLOSURE_201-202								
6	- OR14D	WT G	1/12/23 1220			S X X			DC_WPCP_203-206								
7	OR14S								DC_845_201-202								
8	OR18																
9	- OR19	WT G	1/12/23 1434			S X X											
10	- OR20	WT G	1/12/23 1455			S X X											
11	P36L																
12	P37L																
13	R10L																
14	- R61L	WT G	1/12/23 1303			2 X X											
15	- R72S	WT G	1/12/23 1012			2 X X											
16	T43L																
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS								
DC-Q1-2023 Rev 3				1/12/23	1722				Temp in °C	1.7							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">SAMPLER NAME AND SIGNATURE</td> </tr> <tr> <td colspan="2">PRINT Name of SAMPLER:</td> </tr> <tr> <td colspan="2">SIGNATURE of SAMPLER:</td> </tr> </table>												SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		SIGNATURE of SAMPLER:	
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		DATE Signed (MM/DD/YY):															
		9/12/23															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Received on ice (Y/N)</td> <td>Y</td> <td>Custody Sealed/Colder (Y/N)</td> <td>Z</td> <td>Samples intact (Y/N)</td> <td>Y</td> </tr> </table>												Received on ice (Y/N)	Y	Custody Sealed/Colder (Y/N)	Z	Samples intact (Y/N)	Y
Received on ice (Y/N)	Y	Custody Sealed/Colder (Y/N)	Z	Samples intact (Y/N)	Y												

Duck Creek

WELL/SAMPLE POINT

BA06

Purge Method:

Bladder

Date:

1/10/23Start Time: 1401Finish/Sample Time: 1456

Well Depth (Bottom) From MP:

40.72 ft TOP OF PUMPMin. Purge Volume: 1.5 Gal / L

Depth to Water From MP:

28.18 ftTotal Purge Volume: 1.8 Gal / L

Water Column Length:

4.18 ftMax Drawdown: NA ft

Well Water Volume:

NA Gal / LTotal Drawdown: 4.13 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1416	30.07	100	6.66	3090	11.68	-23	3.85	865
2	1417	30.12	100	6.65	3090	11.64	-23	3.68	>1000
3	1418	30.20	100	6.65	3090	11.66	-26	3.64	>1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horiba

Sample Appearance:

Odor: None Slight Mod. StrongColor: None Slight Mod. StrongTurb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
	Metals (P,250mL, HNO ₃)
1	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL) <u>1000 mL</u>
1	<u>2.5L HCl</u>

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ S0 ₄)
	General (P,500mL)

Final DTW: 32.31 ft

Comments

Sampler's Signature:

J. Berg R. Red

Duck Creek

WELL/SAMPLE POINT OM01

Purge Method: portable pump

Date: 1/11/2023 Start Time: 0948 Finish/Sample Time: 1105

Well Depth (Bottom) From MP:	<u>27.79</u> ft	<u>27.80</u>	Min. Purge Volume:	<u>—</u> Gal / L
Depth to Water From MP:	<u>13.76</u> ft		Total Purge Volume:	<u>1000</u> Gal / L <u>mL</u>
Water Column Length:	<u>14.04</u> ft		Max Drawdown:	<u>—</u> ft
Well Water Volume:	<u>8.40</u> Gal / L		Total Drawdown:	<u>6.72</u> ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	1020	17.72	100	6.32	3680	11.37	86	1.92	58.9
2	1022	17.90	100	6.33	3680	11.34	87	1.93	58.0
3	1024	18.08	100	6.33	3680	11.29	87	1.88	56.8
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	✗
Good seal/drainage	✓	
Well has weep holes	✓	

App 1/11/23

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL) <u>100mL</u>
1	P, 2.5 L, HNO ₃

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
	General (P,500mL)

Final DTW: 20.48 ft

Comments

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT OR02

Purge Method: Portable pump

Date: 1/11/2023 Start Time: 11:10 Finish/Sample Time: 12:28
 Well Depth (Bottom) From MP: 22.44 ft Min. Purge Volume: — Gal / L
 Depth to Water From MP: 6.32 ft Total Purge Volume: 1000 Gal / L (C)
 Water Column Length: 15.16 ft Max Drawdown: — ft
 Well Water Volume: 9.65 Gal Total Drawdown: 0.08 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	11:35	6.40	100	6.70	2140	12.22	46	1.36	1000 *
2	11:37	6.40	100	6.70	2140	12.20	46	1.28	1000 *
3	11:39	6.40	100	6.70	2140	12.13	52	1.27	1000 *
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horizon

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250mL) <u>1000 mL</u>
1	<u>P, 2.5L, HNO₃</u>

(5)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ S ₀₄)
1	General (P,500mL)

Final DTW: 6.40 ft

Comments: Turbidity above 1000 NTU, max turbidity seen on horizon
is 1000 NTU

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT

OR03D

Purge Method:

portable pumpsDate: 1/11/2023 Start Time: 1235 Finish/Sample Time: 1400

Well Depth (Bottom) From MP:	<u>77.77</u> ft	<u>77.72</u>	Min. Purge Volume:	<u>—</u> Gal / L
Depth to Water From MP:	<u>44.63</u> ft		Total Purge Volume:	<u>1000</u> Gal / L <u>(1)</u>
Water Column Length:	<u>33.00</u> ft		Max Drawdown:	<u>—</u> ft
Well Water Volume:	<u>20.00</u> Gal / L		Total Drawdown:	<u>0.03</u> ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	1305	44.66	100	6.65	4970	13.94	62	2.23	>1000*
2	1307	44.66	100	6.62	5240	14.08	59	2.00	>1000*
3	1309	44.66	100	6.61	5260	14.26	58	1.82	>1000*
4	1311	44.66	100	6.61	5290	14.38	57	1.80	>1000*
5	1313	44.66	100	6.60	5310	14.43	57	1.78	>1000*
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HoribaSample Appearance: ff 1/11/23Odor: None Slight Mod. StrongColor None Slight Mod. StrongTurb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250mL) <u>1000 mL</u>
1	P, 2.5L, HNO ₃

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)

Final DTW: 44.66 ftComments Turbidity above 1000 NTU, max turbidity read on horiba: >1000 NTUSampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT

OM04S

Purge Method:

SubmersibleDate: 1/12/23 Start Time: 1225 Finish/Sample Time: 1325Well Depth (Bottom) From MP: 35.85 ft Min. Purge Volume: 1.5 Gal / LDepth to Water From MP: 20.91 ft Total Purge Volume: 1.8 Gal / LWater Column Length: 14.94 ft Max Drawdown: — ftWell Water Volume: 9.04 Gal / L Total Drawdown: 5.55 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1240	24.02	100	7.27	1190	6.39	39	4.09	71.0
2	1241	24.10	100	7.10	1190	6.58	32	4.00	69.3
3	1242	24.18	100	7.01	1190	6.63	28	3.93	70.9
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horiba

Sample Appearance:

Odor: None Slight Mod. StrongColor: None Slight Mod. StrongTurb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL) <u>100 mL</u>
1	2.5 L HCl

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)

Final DTW: 26.46 ft

Comments

Sampler's Signature:

Joseph A. Reid

Duck Creek

WELL/SAMPLE POINT OR04D

Purge Method:

portable pump

Date: 1/1/2023 Start Time: 1410 Finish/Sample Time: 1532

Well Depth (Bottom) From MP:	<u>67.00 ft</u>	<u>67.89</u>	Min. Purge Volume:	<u>—</u> Gal / L
Depth to Water From MP:	<u>21.42</u> ft		Total Purge Volume:	<u>1000</u> Gal / L <u>(m)</u>
Water Column Length:	<u>46.47</u> ft		Max Drawdown:	<u>—</u> ft
Well Water Volume:	<u>28.11</u> Gal <u>(C)</u>		Total Drawdown:	<u>NA</u> ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	<u>1440</u>	<u>21.52</u>	<u>100</u>	<u>6.64</u>	<u>6660</u>	<u>13.68</u>	<u>-14</u>	<u>1.469</u>	<u>163</u>
2	<u>1442</u>	<u>21.52</u>	<u>100</u>	<u>6.61</u>	<u>6470</u>	<u>13.67</u>	<u>-10</u>	<u>1.31</u>	<u>158</u>
3	<u>1444</u>	<u>21.52</u>	<u>100</u>	<u>6.59</u>	<u>6180</u>	<u>13.67</u>	<u>-8</u>	<u>1.30</u>	<u>154</u>
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✗	
Well has weep holes	✗	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL) <u>1000 mL</u>
1	P, 2.5 L, HNO ₃

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)

Final DTW: NM ft

Comments

Sampler's Signature:



Duck Creek

WELL/SAMPLE POINT

OR06A

Purge Method:

bailerDate: 1/11/23 Start Time: 1220 Finish/Sample Time: 1243Well Depth (Bottom) From MP: 25.65 ftMin. Purge Volume: 21.3 Gal LDepth to Water From MP: 13.91 ftTotal Purge Volume: 24 Gal LWater Column Length: 11.74 ftMax Drawdown: — ftWell Water Volume: 7.10 Gal LTotal Drawdown: 1.65 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1227	14.39	7 bbls	6.76	2870	12.94	-27	4.19	295
2	1233	14.95	7 bbls	6.81	2870	12.87	-35	4.03	333
3	1238	15.41	7 bbls	6.92	2890	12.80	-41	4.00	506
4	—	—	—	—	—	—	—	—	—
5	—	—	—	—	—	—	—	—	—
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horiba

Sample Appearance:

Odor: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

Color: None Slight Mod. StrongTurb: None Slight Mod. Strong**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL) <u>1000 mL</u>
1	<u>2.52 HCl</u>

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)

Final DTW: 1556 ft

Comments

Sampler's Signature:

Joseph R Rad

Duck Creek

WELL/SAMPLE POINT

OM07

Purge Method:

bailerDate: 1/11/23 Start Time: 1302 Finish/Sample Time: 1359Well Depth (Bottom) From MP: 29.92 ft Min. Purge Volume: 30.94 Gal LDepth to Water From MP: 12.87 ft Total Purge Volume: 31 Gal LWater Column Length: 17.05 ft Max Drawdown: — ftWell Water Volume: 10.31 Gal / L Total Drawdown: 0.62 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1320	12.98	11 bails	7.10	1190	13.09	-39	5.58	79.7
2	1328	13.09	19 bails	7.08	1190	13.00	-38	5.52	88.3
3	1337	13.20	10 bails	7.07	1200	12.90	-39	5.49	89.7
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horiba

Sample Appearance:

Odor: None Slight Mod. StrongColor: None Slight Mod. StrongTurb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL) <u>100 mL</u>
1	<u>2.5 HCl</u>

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)

Final DTW: 13.49 ft

Comments

Sampler's Signature:

Joseph A Reed

Duck Creek

WELL/SAMPLE POINT

OR11

Purge Method:

Date:

1/12/23 1329

Start Time:

Finish/Sample Time: 1425

Well Depth (Bottom) From MP:

43.85 ft

Min. Purge Volume: 6.79 Gal / L

Depth to Water From MP:

32.61 ft

Total Purge Volume: 21 Gal / L

Water Column Length:

11.24 ft

Max Drawdown: 1 ft

Well Water Volume:

6.79 Gal / L

Total Drawdown: 0.79 ft

Reading (Units)	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	1359	32.74	7 bails	7.24	1260	9.71	-4	6.31	>1000
2	1410	32.82	7 bails	7.21	1270	9.75	-6	6.20	>1000
3	1421	32.91	7 bails	7.19	1270	9.79	-9	6.09	>1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horiba

Sample Appearance:

Odor: None Slight Mod. StrongColor: None Slight Mod. StrongTurb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign		X
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL)
1	2.5L HNO ₃

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)

Final DTW: 33.40 ft

Comments

Sampler's Signature:

Joseph R Reed

Duck Creek

WELL/SAMPLE POINT OM12

Purge Method: portable pump

Date: 1/10/2023 Start Time: 14 10 Finish/Sample Time: 1315
 App 1/10/23

Well Depth (Bottom) From MP:	<u>43.19</u> ft	<u>43.08</u>	Min. Purge Volume:	<u>—</u> Gal / L
Depth to Water From MP:	<u>17.51</u> ft		Total Purge Volume:	<u>1000</u> Gal / L <u>(1)</u>
Water Column Length:	<u>25.57</u> ft		Max Drawdown:	<u>—</u> ft
Well Water Volume:	<u>15.46</u> Gal / C		Total Drawdown:	<u>0.30</u> ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	1426	17.77	100	6.60	2000	12.11	-11	2.55	776
2	1428	17.71	100	6.60	2000	12.02	-10	2.55	726
3	1430	17.77	100	6.60	2000	12.11	-39	2.63	597
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hori. 6m

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes		X

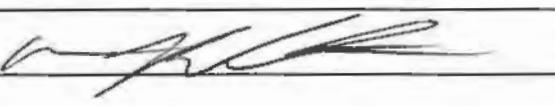
BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL)
1	P, 2.5 L, HNO ₃

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ S0 ₄)
1	General (P,500mL)

Final DTW: 17.81 ft

Comments No casing

Sampler's Signature: 

Duck Creek

WELL/SAMPLE POINT OR1305

Purge Method:

SubmersibleDate: 1/12/23 Start Time: 1030 Finish/Sample Time: 1121Well Depth (Bottom) From MP: 29.55 ft Min. Purge Volume: JR 2.1.5 Gal / LDepth to Water From MP: 13.47 ft Total Purge Volume: 1.8 Gal / LWater Column Length: 16.08 ft Max Drawdown: — ftWell Water Volume: 0.72 9.78 Gal / L Total Drawdown: 0.08 ft

Reading (Units)	Time	Depth	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1045	13.55	00	6.90	2,240	10.51	-40	3.97	676
2	1046	13.55	00	6.88	2,250	10.47	-40	3.84	598
3	1047	13.55	00	6.83	2,270	10.39	-43	3.71	564
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: None Slight Mod. StrongColor None Slight Mod. StrongTurb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
+	General (P, 250 mL)
1	2.5 <u>HCl</u> (Non) <u>1/12/23</u>
1	100 mL P

5

Comments

Final DTW: 13.55 ft

Sampler's Signature:

Joseph A. Reed

Duck Creek

WELL/SAMPLE POINT

OR130 D

Purge Method:

Submersible

Date:

1/12/23

Start Time:

933

Finish/Sample Time:

1029

Well Depth (Bottom) From MP:

20 ft

50.29

Min. Purge Volume:

28.92

1.5 L

Depth to Water From MP:

13.60 ft

Total Purge Volume:

30

1.8 L

Water Column Length:

JR 15.95 ft

36.63

Max Drawdown:

< ft

Well Water Volume:

9.65 Gal/L

22.15

Total Drawdown:

0.0 ft

Reading (Units)	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
1	949	JR ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
2	950	13.60	100	6.61	1880	10.80	225	4.59	123
3	951	13.60	100	6.64	1880	10.75	222	4.44	129
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Hor. b9

Sample Appearance:

Odor: None Slight Mod. StrongColor: None Slight Mod. StrongTurb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely	X	
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250mL) 1000 mL
1	2.5 L HCl HNO ₃

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ S0 ₄)
1	General (P,500mL)

1/12/23

Final DTW:

13.60

ft

Comments

Sampler's Signature:

Joseph R. Rao

Duck Creek

WELL/SAMPLE POINT

OR14D

Purge Method:

5 v/h mersible

Date:

1/12/23

Start Time:

1124

Finish/Sample Time:

1220

Well Depth (Bottom) From MP:

1/12/23

48.78 ft

Min. Purge Volume:

1.5 Gal / L

Depth to Water From MP:

10.36 ft

Total Purge Volume:

1.8 Gal / L

Water Column Length:

38.42 ft

Max Drawdown:

— ft

Well Water Volume:

23.24 Gal / L

Total Drawdown:

0.0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1139	10.36	100	6.82	2960	10.19	1	4.05	296
2	1140	10.36	100	6.81	2960	10.18	3	3.96	300
3	1141	10.36	100	6.81	2960	10.16	6	3.89	287
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horiba

Sample Appearance:

Odor: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

Color: None Slight Mod. StrongTurb: None Slight Mod. Strong

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250mL) 1000 mL
1	2.5 L HCl (HNO ₃) 1/12/23

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ S0 ₄)
1	General (P,500mL)

Final DTW: 10.36 ft

Comments

Sampler's Signature:

Joseph R. Rad

Duck Creek

WELL/SAMPLE POINT

OM16

Purge Method:

bw/lerDate: 1/12/2023 Start Time: 1033 Finish/Sample Time: 1119Well Depth (Bottom) From MP: 43.45 ft Min. Purge Volume: ~ Gal / LDepth to Water From MP: 24.79 ft Total Purge Volume: 12 Gal LWater Column Length: 18.66 ft Max Drawdown: ~ ftWell Water Volume: 11.29 Gal 0 Total Drawdown: 13.47 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1109	34.48	~	6.52	3980	9.14	44	2.03	>1000 *
2	1112	35.10	~	6.53	3980	9.13	44	2.00	>1000 *
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horizon

Sample Appearance:

Odor: None Slight Mod. StrongColor: None Slight Mod. StrongTurb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure		✗
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes		✗

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
	General (P, 250 mL) <u>1000 mL</u>
	P,2.5L, HNO ₃

(3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
	General (P,500mL)

Final DTW: 38.26 ftComments: Only 1 well volume purged due to significant draw down (~10 ft per well volume)Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT

OM17

Purge Method:

baiterDate: 1/12/2023Start Time: 0947Finish/Sample Time: 1009Well Depth (Bottom) From MP: 17.44 ftMin. Purge Volume: — Gal / LDepth to Water From MP: 13.04 ftTotal Purge Volume: 1/2 Gal / LWater Column Length: 4.40 ftMax Drawdown: — ftWell Water Volume: 2.66 Gal / LTotal Drawdown: 2.66 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	0957	13.75	—	6.83	2180	11.10	44	2.37	>1000 *
2	1002	14.20	—	6.79	2060	10.98	42	2.35	>1000 *
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horizon

Sample Appearance:

Odor: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✗	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✗	

Color: None Slight Mod. StrongTurb: None Slight Mod. Strong

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
1	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL) 1000mL
1	P, 2.5L, HNO ₃

(3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
	General (P,500mL)

Final DTW: 15.70 ftComments: only 1/2 bail purges due to water level being below 5ft* Turb: slightly above 1000 NTU

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT

OR19

Purge Method:

60/10-

Date:

1/12/2022

Start Time:

1322

Finish/Sample Time:

1432

Well Depth (Bottom) From MP:

56.03 ft55.02

Min. Purge Volume:

— Gal / L

Depth to Water From MP:

26.37 ft

Total Purge Volume:

826 Gal / D

Water Column Length:

28.65 ft

Max Drawdown:

— ft

Well Water Volume:

7.33 Gal / D

Total Drawdown:

0.32 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1402	26.57	—	6.78	2950	11.03	-10	1.21	1.65
2	1412	26.79	—	6.78	2950	11.01	-10	1.20	1.64
3	1423	26.86	—	6.78	2950	11.00	-10	1.17	1.60
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Hori6n

Sample Appearance:

Odor: None Slight Mod. StrongColor None Slight Mod. StrongTurb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✗	
Well cap fits securely.	✗	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL)
1	P 2.5 L, HNO ₃

(S)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)

Final DTW: 26.69 ft

Comments

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT

OR20

Purge Method:

Submersible

Date: 1/2/23 Start Time: 1426 Finish/Sample Time: 1455Well Depth (Bottom) From MP: 57.55 ft Min. Purge Volume: 1.5 Gal / LDepth to Water From MP: 22.52 ft Total Purge Volume: 1.8 Gal / LWater Column Length: 35.02 ft Max Drawdown: - ftWell Water Volume: 21.19 Gal / L Total Drawdown: 0.01 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1439	22.53	100	6.99	2650	10.37	-22	3.34	382
2	1440	22.53	100	6.98	2640	10.25	-25	3.20	379
3 JR	1440	22.53	100	6.97	2640	10.21	-27	3.11	401
4	1441								
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horiba

Sample Appearance:

Odor: None Slight Mod. StrongColor: None Slight Mod. StrongTurb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign		X
Casing locked/secure	X	
Well cap fits securely	X	
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL)
1	2.5L HCl

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)

Final DTW: 22.53 ft

Comments

Sampler's Signature:

Joseph R Reed

Duck Creek

WELL/SAMPLE POINT OM21 Purge Method: baster

Date: 1/12/2023 Start Time: 1646 Finish/Sample Time: 1536

Well Depth (Bottom) From MP: 60.55 ft Min. Purge Volume: — Gal / L

Depth to Water From MP: 11.86 ft Total Purge Volume: 10 Gal / L

Water Column Length: 48.61 ft Max Drawdown: — ft

Well Water Volume: 2.61, 40 Gal (L) Total Drawdown: W29 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	1504	13.05	—	6.67	3630	10.57	18	2.00	19.44
2	1513	13.59	—	6.67	3630	10.54	15	1.84	14.21
3	1524	13.94	—	6.65	3620	10.41	11	1.87	17.7
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HoriBr

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered		(S)	Filtered	
Qty	Bottles		Qty	Bottles
	VOAs (C,V, 40mL, HCl)		1	Metals (P,250mL, HNO3)
	VOAS (C,V, 40mL)			Ammonia (P,250mL, H2SO4)
	Organics (A,G,U 1000mL)			General (P,500mL)
	Organics (A,G,U 500mL)			
	TOC (A,V 40mL, H2SO4)			
	TOX (A,G 250mL, H2SO4)			
1	Metals (P,250mL, HNO3)			
	Cyanide (P, 250mL, NaOH)			
	Phenols (A,G,250mL, H2SO4)			
1	General (P, 250mL) <u>1000 mL</u>			
1	<u>P, 2.5, HNO3</u>			

Final DTW: 13.15 ft

Comments

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT

OM22D

Purge Method:

portable pumpDate: 1/10/2023Start Time: 12 29Finish/Sample Time: 13 56

Well Depth (Bottom) From MP:

65.0165.10 ftMin. Purge Volume: — Gal / L

Depth to Water From MP:

20.68 ftTotal Purge Volume: 1000 Gal / L (mL)

Water Column Length:

44.33 ftMax Drawdown: — ft

Well Water Volume:

26.81 GalTotal Drawdown: 0.04 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1304	20.71	100	6.72	4000	12.29	52	2.51	>1000 *
2	1306	20.71	100	6.72	4000	12.25	51	2.43	>1000 *
3	1308	20.71	100	6.72	4010	12.27	51	2.35	>1000 *
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Hori6a

Sample Appearance:

Odor: None Slight Mod. StrongColor: None Slight Mod. StrongTurb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
+	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL)
1	P. 2.5L, HNO ₃

(S)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)

Final DTW: 20.72 ftComments * Turbidity reads above 1000 NTU, Hori6a only
goes up to 1000 NTU

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT OM23D

Purge Method: buller

Date: 1/12/2022 Start Time: 1155 Finish/Sample Time: 1308

Well Depth (Bottom) From MP: 82.91 ft 82.80 Min. Purge Volume: — Gal / L

Depth to Water From MP: 39.22 ft Total Purge Volume: 80 Gal / 3

Water Column Length: 43.158 ft Max Drawdown: — ft

Well Water Volume: 261.36 Gal / 0 Total Drawdown: 01.28 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1221	39.90	—	6.83	1850	10.55	23	1.58	106
2	1239	40.11	—	6.83	1850	10.53	23	1.57	104
3	1258	39.85	—	6.83	1850	1046	24	1.56	104
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

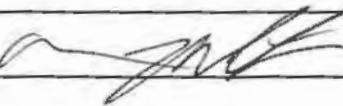
Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL)
1	P, 2.5L, HNO ₃

(5)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)

Final DTW: 39.50 ft

Comments _____

Sampler's Signature: 

Duck Creek

WELL/SAMPLE POINT OM24D

Purge Method: portable pump

Date: 1/10/2023 Start Time: 1028 Finish/Sample Time: 1136

Well Depth (Bottom) From MP:	<u>49.66</u> ft	<u>19.60</u>	Min. Purge Volume:	<u>—</u> Gal / L
Depth to Water From MP:	<u>44.01</u> ft		Total Purge Volume:	<u>1000</u> Gal / L <u>(approx)</u>
Water Column Length:	<u>15.68</u> ft		Max Drawdown:	<u>—</u> ft
Well Water Volume:	<u>0.48</u> Gal	(1)	Total Drawdown:	<u>0.09</u> ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1048	4.10	100	6.40	3460	11.43	84	5.48	210
2	1050	4.10	100	6.51	3450	11.55	81	5.41	182
3	1051	4.09	100	6.52	3450	11.60	80	5.35	184
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HORIBA

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✗	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250mL) 1000 mL
1	(P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ S0 ₄)
1	General (P,500mL)

Final DTW: 4.10 ft

Comments

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT OM25S

Purge Method: bu/lar

Date: 1/16/2023 Start Time: 1142 Finish/Sample Time: 1217

Well Depth (Bottom) From MP:	<u>63.97</u> ft	Min. Purge Volume:	<u>—</u> Gal / L
Depth to Water From MP:	<u>57.98</u> ft	Total Purge Volume:	<u>42</u> Gal <u>L</u>
Water Column Length:	<u>5.99</u> ft	Max Drawdown:	<u>—</u> ft
Well Water Volume:	<u>3.67</u> Gal <u>L</u>	Total Drawdown:	<u>2.52</u> ft

APP 1/16/2023

Reading (Units)	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	1150	59.12	—	6.71	3320	12.69	143	7.43	284
2	1203	59.80	—	6.65	3780	12.74	149	1.85	1000
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hach

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure		
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL) <u>1000 μL</u>
1	P, 2.5L, HNO ₃

(5)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)

Comments

Only one well volume purge & to be sure on well
samples due to history of poor recharge / reals taken off consecutive basis

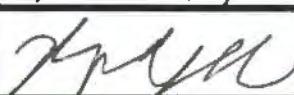
for

Final DTW: 60.50

ft
due to running out of water

Sampler's Signature:

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Leland & Joe Reed			Location:	Duck Creek				
Weather:	36° Sunny			Environment:	MVDOY				
Multiparameter Water Meter	Make:	Pentair	Model:	Hanba	Serial Number:	U4U1FVTE			
Water Level Meter	Make:	Nelson	Model:	Water tape	Serial Number:	19FF2202J3ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.04	s.u.	±0.1 s.u.	P	Na	Na	MSI	L344-09	12/14/2023
pH 7.00a	6.98	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.05	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	22.57	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2049	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	228	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.02	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.96	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.39	NTU	<2 NTU	↓	↓	↓	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time: 09:34				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?		Manufacturer	Lot#	Exp.
pH 4.00b	4.08	s.u.	±0.15 s.u.	P	Na		Geotech	2GC243	Mar-24
pH 7.00b	7.03	s.u.	±0.15 s.u.		↓		Geotech	2GC931	Mar-24
pH 10.00b	9.89	s.u.	±0.15 s.u.	↓	↓		Geotech	2GE820	May-24
SC 1000	1.078	µS/cm	±5%	↓	↓		Ricca	4205H64	May-24
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time: 15:31				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.06	s.u.	±0.1 s.u.	P	Na	Na	MSI	L315-04	11/22/2023
pH 7.00a	7.0	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	9.94	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	991	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.01	mg/L	±0.1 mg/L	↓			Macron	#000228049	8/26/2025
Turbidity (DI)	1.48	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time: 15:31				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Comments: * Hanba, U52 (w)									
Signature:				Date:	1-10-2023				

Multiparameter Meter Field Calibration Checklist

Field Personnel:	KALEB DESKE			Location:	DUCK CREEK				
Weather:	37° SUNNY WIND Comp E			Environment:	POND, No Ducks, GRASSY				
Multiparameter Water Meter	Make:	Hanba	Model:	HORISTE 182	Serial Number:	NFV1FVTF			
Water Level Meter	Make:	Heavis	Model:	Dipstick	Serial Number:	11FF2209305ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	Pass	No	NA	MSI	L315-04	11/22/2023
pH 7.00a	7.02	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.06	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC Zero (DI)	13.20	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1998	µS/cm	±5%				Geotech	1GK328	Nov-22
ORP	241.00	mV	±15 mV				InSitu	1GL481	Sep-22
DO (Zero pt)	0.02	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	9.82 mg/L	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.02	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)						Time: 0926			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00b	4.01	s.u.	±0.15 s.u.	Pass	No		Geotech	1GF009	Jun-23
pH 7.00b	6.99	s.u.	±0.15 s.u.				Geotech	0GJ268	Oct-22
pH 10.00b	10.07	s.u.	±0.15 s.u.				Geotech	1GF458	Jun-23
SC 1000	1003	µS/cm	±5%				Ricca	2108D48	Jul-23
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):						Time: 1518			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.		Pass	XO	MSI	L315-04	11/22/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.06	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1998	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.02	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	1.01	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Comments:									
Signature:				Date:	01/10/23				

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton			Location:	Ditch screen				
Weather:	30°F - 45°F Windy w/ 6 mph			Sunny	Environment:	grass, dirt, mud			
Multiparameter Water Meter	Make:	Hori;br	Model:	V-5000	Serial Number:	YL9KJ9HA			
Water Level Meter	Make:	Solis:nsr	Model:	101	Serial Number:	252 879			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	± 0.1 s.u.	P	No	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.92	s.u.	± 0.1 s.u.	P	No	N/A	MSI	L343-07	12/9/2023
pH 10.00a	10.01	s.u.	± 0.1 s.u.	P	No	N/A	MSI	M082-04	3/25/2024
SC Zero (DI)	21.0	$\mu\text{s}/\text{cm}$	0<25 $\mu\text{s}/\text{cm}$	P	No	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	20.00	$\mu\text{s}/\text{cm}$	$\pm 5\%$	P	No	N/A	Geotech	1GK328	Nov-22
ORP	23.5	mV	± 15 mV	P	No	N/A	InSitu	2GC827	Dec-22
DO (Zero pt)	0.00	mg/L	± 0.1	P	No	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	—	%	97-100%	P	No	N/A	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	No	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)

Time: 0942

241 @ 16°C

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.91	s.u.	± 0.15 s.u.	P	N/A	Geotech	2GC243	Mar-24
pH 7.00b	6.86	s.u.	± 0.15 s.u.	P	N/A	Geotech	2GC931	Mar-24
pH 10.00b	9.93	s.u.	± 0.15 s.u.	P	N/A	Geotech	2GE820	May-24
SC 1000	1040	$\mu\text{s}/\text{cm}$	$\pm 5\%$	P	N/A	Ricca	420SH64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):

Time: 1534

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	± 0.1 s.u.	P	No	N/A	MSI	L315-04	11/22/2023
pH 7.00a	7.04	s.u.	± 0.1 s.u.	P	No	N/A	MSI	L172-33	6/23/2023
pH 10.00a	10.02	s.u.	± 0.1 s.u.	P	No	N/A	MSI	L354-22	1/5/2024
SC 1000	1020	$\mu\text{s}/\text{cm}$	$\pm 5\%$	P	No	N/A	Ricca	2108D48	Jul-23
DO (Zero pt)	0.00	mg/L	± 0.1 mg/L	P	No	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	No	N/A	Pace Labs	N/A (DI)	N/A (DI)

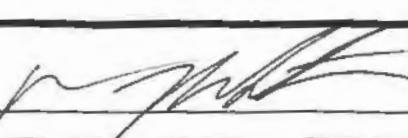
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):

Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	± 0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	± 0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		$\mu\text{s}/\text{cm}$	$\pm 5\%$				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	11/10/2022
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	KL JR		Location:	Duck Creek					
Weather:	44° cloudy wind 4 mph		Environment:	mud/grass					
Multiparameter Water Meter	Make:	Horiba	Model:	V-5000	Serial Number:				
Water Level Meter	Make:	Horiba	Model:	Dipsey	Serial Number:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	6.08	s.u.	±0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	6.98	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.02	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	20.92	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2045	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	228	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.01	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	9.254	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.21	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	852		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.96	s.u.	±0.15 s.u.	P	N	Geotech	2GC243	Mar-24
pH 7.00b	7.01	s.u.	±0.15 s.u.		N	Geotech	2GC931	Mar-24
pH 10.00b	10.08	s.u.	±0.15 s.u.		N	Geotech	2GE820	May-24
SC 1000	1000	µS/cm	±5%	F	956 ReCal	Ricca	4205H64	May-24

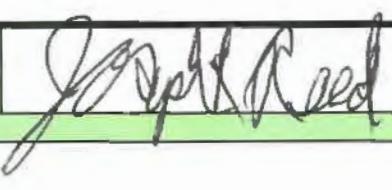
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1548			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	P	N	N	MSI	L315-04	11/22/2023
pH 7.00a	7.02	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.07	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	997	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.05	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	1/11/23
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton		Location:	Duck Creek					
Weather:	43° - S 2° L cloudy Wind SE 3 mph			grass, shrub, mat					
Multiparameter Water Meter	Make:	Horiba	Model:	U-5000	Serial Number:	PL9K J9 HA			
Water Level Meter	Make:	SOLinst	Model:	101	Serial Number:	252877			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.09	s.u.	±0.1 s.u.	P	No	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.96	s.u.	±0.1 s.u.	P			MSI	L343-07	12/9/2023
pH 10.00a	10.04	s.u.	±0.1 s.u.				MSI	M082-D4	3/25/2024
SC Zero (DI)	0.00	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2060	µS/cm	±5%				Geotech	1GK328	Nov-22
ORP	243	mV	±15 mV				InSitu	2GC827	Dec-22
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	-	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.2	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	0859			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.02	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC243	Mar-24	
pH 7.00b	6.88	s.u.	±0.15 s.u.	P		Geotech	2GC931	Mar-24	
pH 10.00b	9.96	s.u.	±0.15 s.u.	P		Geotech	2GE820	May-24	
SC 1000	1040	µS/cm	±5%	P		Ricca	4205H64	May-24	

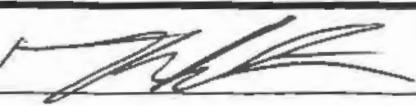
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1450			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	±0.1 s.u.	P	No	N/A	MSI	L315-04	11/22/2023
pH 7.00a	7.07	s.u.	±0.1 s.u.	P			MSI	L172-33	6/23/2023
pH 10.00a	10.07	s.u.	±0.1 s.u.	P			MSI	L354-22	1/5/2024
SC 1000	1020	µS/cm	±5%	P			Ricca	2108D48	Jul-23
DO (Zero pt)	0.09	mg/L	±0.1 mg/L	P			Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P			Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	1/11/2023	
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	KACEE DESKE			Location:	DUX CREEK				
Weather:	44° cloudy Wind 4 mph			Environment:	GRASSY, No Ducks				
Multiparameter Water Meter	Make:	Hanlon	Model:	U-52 HORIZON	Serial Number:	DW2G4J03			
Water Level Meter	Make:	Wenon	Model:	D1000T	Serial Number:	11FF2209305 ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrated?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	Pass	No	4.01	MSI	L315-04	11/22/2023
pH 7.00a	7.02	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC Zero (DI)	18.50	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	19.98	µS/cm	±5%				Geotech	1GK328	Nov-22
ORP	242	mV	±15 mV				InSitu	1GL481	Sep-22
DO (Zero pt)	0.04	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	%	97-100%					Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.24	NTU	<2 NTU	+	+	1.24	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	0850			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	3.99	s.u.	±0.15 s.u.	Pass	No	Geotech	1GF009	Jun-23	
pH 7.00b	7.02	s.u.	±0.15 s.u.			Geotech	OGJ268	Oct-22	
pH 10.00b	9.98	s.u.	±0.15 s.u.			Geotech	1GF458	Jun-23	
SC 1000	1009	µS/cm	±5%	+		Ricca	2108D48	Jul-23	

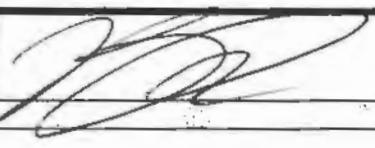
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1530			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	Pass	No	4.00	MSI	L315-04	11/22/2023
pH 7.00a	7.03	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	9.98	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1006	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.02	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	2.27	NTU	<2 NTU	+	+	2.27	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	01/11/23
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	KALEB DESKE			Location:	Duck Creek				
Weather:	36° clouds Wind 9 m/s N			Environment:	STILL NO DUCKS, AND I DONT SEE A CREEK				
Multiparameter Water Meter	Make:	Hanna	Model:	1052	Serial Number:	PW2GYJD3			
Water Level Meter	Make:	Solinst	Model:	101	Serial Number:	252879			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	± 0.1 s.u.	Pass	No	N/A	MSI	L315-04	11/22/2023
pH 7.00a	7.01	s.u.	± 0.1 s.u.			/	MSI	L172-33	6/23/2023
pH 10.00a	10.00	s.u.	± 0.1 s.u.			/	MSI	L354-22	1/5/2024
SC Zero (DI)	13.20	$\mu\text{s}/\text{cm}$	0<25 $\mu\text{s}/\text{cm}$			/	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2006	$\mu\text{s}/\text{cm}$	$\pm 5\%$			/	Geotech	1GK328	Nov-22
ORP	240	mV	± 15 mV			/	InSitu	1GL481	Sep-22
DO (Zero pt)	0.02	mg/L	± 0.1			/	Macron	#000228049	8/26/2025
DO (Saturated)		%	97-100%			/	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	10.20	NTU	<2 NTU			/	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	0846		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.04	s.u.	± 0.15 s.u.	Pass	No	Geotech	1GF009	Jun-23
pH 7.00b	6.97	s.u.	± 0.15 s.u.			Geotech	DGJ268	Oct-22
pH 10.00b	9.98	s.u.	± 0.15 s.u.			Geotech	1GF458	Jun-23
SC 1000	1006	$\mu\text{s}/\text{cm}$	$\pm 5\%$			Ricca	2108D48	Jul-23

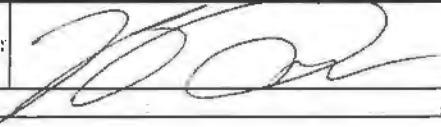
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1553			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	± 0.1 s.u.	Pass	No	N/A	MSI	L315-04	11/22/2023
pH 7.00a	7.06	s.u.	± 0.1 s.u.			/	MSI	L172-33	6/23/2023
pH 10.00a	10.05	s.u.	± 0.1 s.u.			/	MSI	L354-22	1/5/2024
SC 1000	1004	$\mu\text{s}/\text{cm}$	$\pm 5\%$			/	Ricca	2108D48	Jul-23
DO (Zero pt)	0.07	mg/L	± 0.1 mg/L			/	Macron	#000228049	8/26/2025
Turbidity (DI)	0.80	NTU	<2 NTU			/	Pace Labs	N/A (DI)	N/A (DI)

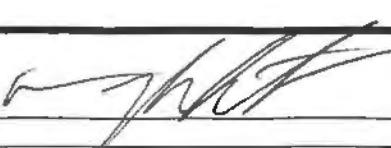
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	± 0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	± 0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		$\mu\text{s}/\text{cm}$	$\pm 5\%$				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	01/12/23
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Remberton			Location:	Duck Creek				
Weather:	36°-39° Cloudy Wind N 7 mph			Environment:	Woods, grass, s.m.				
Multiparameter Water Meter	Make:	Horne	Model:	V-5000 R1	Serial Number:	YL0K59HA			
Water Level Meter	Make:	Horne	Model:	DMLT	Serial Number:	10 ft 2202 131ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	± 0.1 s.u.	P	No	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.06	s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	10.00	$\mu\text{s}/\text{cm}$	$0 < 25 \mu\text{s}/\text{cm}$				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	236200	$\mu\text{s}/\text{cm}$	$\pm 5\%$				Geotech	1GK328	Nov-22
ORP	236	mV	± 15 mV				InSitu	2GC827	Dec-22
DO (Zero pt)	0.00	mg/L	± 0.1				Macron	#000228049	8/26/2025
DO (Saturated)	—	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	—	—	—	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time:	04/13			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.00	s.u.	± 0.15 s.u.	P	N/A	Geotech	2GC243	Mar-24	
pH 7.00b	7.01	s.u.	± 0.15 s.u.	I	I	Geotech	2GC931	Mar-24	
pH 10.00b	10.00	s.u.	± 0.15 s.u.	I	I	Geotech	2GE820	May-24	
SC 1000	10.00	$\mu\text{s}/\text{cm}$	$\pm 5\%$	I	I	Ricca	420SH64	May-24	
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:	1540			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.05	s.u.	± 0.1 s.u.	P	No	N/A	MSI	L315-04	11/22/2023
pH 7.00a	7.03	s.u.	± 0.1 s.u.	I	I	I	MSI	L172-33	6/23/2023
pH 10.00a	10.05	s.u.	± 0.1 s.u.	I	I	I	MSI	L354-22	1/5/2024
SC 1000	10.20	$\mu\text{s}/\text{cm}$	$\pm 5\%$	I	I	I	Ricca	2108D48	Jul-23
DO (Zero pt)	0.00	mg/L	± 0.1 mg/L	I	I	I	Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	I	I	I	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	± 0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	± 0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		$\mu\text{s}/\text{cm}$	$\pm 5\%$				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Comments:									
Signature:				Date:	1/12/2023				



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

April 10, 2023

Daryl Johnson
Vistra - Duck Creek
17751 North Cilco Road
Canton, IL 61520-8761

Dear Daryl Johnson:

Please find enclosed the **revised** analytical results for the sample(s) the laboratory received. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Gail Schindler
Sincerely,

Gail Schindler
Project Manager
(309) 692-9688 x1716
gail.schindler@pacelabs.com



Pace Analytical Services, LLC
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SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order GA02003

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GA02057

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GA02366

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



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Peoria, IL 61615
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ANALYTICAL RESULTS

Sample: GA02003-01 **Sampled:** 01/10/23 14:56
Name: BA06 **Received:** 01/11/23 07:00
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.46	pCi/L			1	0.758	02/07/23 20:37		904.0 903.0

Sample: GA02003-02 **Sampled:** 01/10/23 15:15
Name: OM12 **Received:** 01/11/23 07:00
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.284 U	pCi/L			1	0.809	02/07/23 20:37		904.0 903.0
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.284 U	pCi/L			1	0.809	02/07/23 20:37		904.0 903.0

Sample: GA02003-03 **Sampled:** 01/10/23 13:56
Name: OM22D **Received:** 01/11/23 07:00
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.118 U	pCi/L			1	0.719	02/07/23 20:37		904.0 903.0
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.118 U	pCi/L			1	0.719	02/07/23 20:37		904.0 903.0

Sample: GA02003-04 **Sampled:** 01/10/23 11:36
Name: OM24D **Received:** 01/11/23 07:00
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.42	pCi/L			1	0.936	02/07/23 20:37		904.0 903.0



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ANALYTICAL RESULTS

Sample: GA02003-05 **Sampled:** 01/10/23 12:17
Name: OM25S **Received:** 01/11/23 07:00
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	4.78	pCi/L			1	1.41	02/07/23 20:37		904.0 903.0

Sample: GA02057-01 **Sampled:** 01/11/23 11:05
Name: OM01 **Received:** 01/11/23 16:30
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.99	pCi/L			1	0.726	02/18/23 09:23		904.0 903.0

Sample: GA02057-02 **Sampled:** 01/11/23 12:28
Name: OR02 **Received:** 01/11/23 16:30
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.918	pCi/L			1	0.726	02/18/23 09:23		904.0 903.0

Sample: GA02057-03 **Sampled:** 01/11/23 14:00
Name: OR03D **Received:** 01/11/23 16:30
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.95	pCi/L			1	0.704	02/18/23 09:23		904.0 903.0



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ANALYTICAL RESULTS

Sample: GA02057-04 **Sampled:** 01/11/23 15:32
Name: OR04D **Received:** 01/11/23 16:30
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	2.96	pCi/L			1	0.72	02/18/23 09:23		904.0 903.0

Sample: GA02057-05 **Sampled:** 01/11/23 12:43
Name: OR06A **Received:** 01/11/23 16:30
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.495 J	pCi/L			1	0.689	02/18/23 09:23		904.0 903.0

Sample: GA02057-06 **Sampled:** 01/11/23 13:59
Name: OM07 **Received:** 01/11/23 16:30
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.148 U	pCi/L			1	0.881	02/18/23 09:23		904.0 903.0

Sample: GA02366-01 **Sampled:** 01/12/23 13:25
Name: OM04S **Received:** 01/13/23 07:15
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.331 J	pCi/L			1	0.69	02/15/23 20:19		904.0 903.0



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Peoria, IL 61615
(800)752-6651

ANALYTICAL RESULTS

Sample: GA02366-06 **Sampled:** 01/12/23 14:25
Name: OR11 **Received:** 01/13/23 07:15
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	8.04	pCi/L			1	1.15	02/21/23 13:37		904.0 903.0

Sample: GA02366-07 **Sampled:** 01/12/23 10:29
Name: OR13D **Received:** 01/13/23 07:15
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.37	pCi/L			1	0.744	02/15/23 20:19		904.0 903.0

Sample: GA02366-08 **Sampled:** 01/12/23 11:21
Name: OR13S **Received:** 01/13/23 07:15
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	3.63	pCi/L			1	1.55	02/15/23 20:19		904.0 903.0

Sample: GA02366-09 **Sampled:** 01/12/23 12:20
Name: OR14D **Received:** 01/13/23 07:15
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.429 J	pCi/L			1	0.899	02/15/23 20:19		904.0 903.0



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

ANALYTICAL RESULTS

Sample: GA02366-10

Name: OR19

Matrix: Ground Water - Grab

Sampled: 01/12/23 14:34

Received: 01/13/23 07:15

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Miscellaneous - Pace Analytical - Mt Juliet, Tn</u>									
Rad 226 and 228-Subcontract	1.49	pCi/L			1	0.669	02/15/23 20:19		904.0 903.0

Sample: GA02366-11

Name: OR20

Matrix: Ground Water - Grab

Sampled: 01/12/23 14:55

Received: 01/13/23 07:15

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Miscellaneous - Pace Analytical - Mt Juliet, Tn</u>									
Rad 226 and 228-Subcontract	0.694 J	pCi/L			1	0.864	02/15/23 20:19		904.0 903.0



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2231 W. Altorfer Drive
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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

Revised Report - corrected radium result for OR06A.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050



Certified by: Gail Schindler, Project Manager



ANALYTICAL REPORT

February 15, 2023

¹Cp

²TC

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷GI

⁸AI

⁹SC

Pace IR - Peoria, IL

Sample Delivery Group: L1577948
Samples Received: 01/20/2023
Project Number: GA02003
Description: VISTRA-DUCK CREEK
Site: 001
Report To: Christina Pierce

Entire Report Reviewed By:

Haley Torrence
[Preliminary Report]

Haley Torrence
Project Manager

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

Pace Analytical National

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

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SAMPLE SUMMARY

			Collected by	Collected date/time	Received date/time	
			01/10/23 14:56		01/20/23 10:15	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1997121	1	01/31/23 17:32	02/07/23 20:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1993264	1	01/30/23 15:06	02/07/23 20:37	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1993264	1	01/30/23 15:06	02/02/23 17:10	RGT	Mt. Juliet, TN
OM12 L1577948-02 Non-Potable Water			Collected by	Collected date/time	Received date/time	
			01/10/23 15:15		01/20/23 10:15	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1997121	1	01/31/23 17:32	02/07/23 20:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1993264	1	01/30/23 15:06	02/07/23 20:37	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1993264	1	01/30/23 15:06	02/02/23 17:10	RGT	Mt. Juliet, TN
OM22D L1577948-03 Non-Potable Water			Collected by	Collected date/time	Received date/time	
			01/10/23 13:56		01/20/23 10:15	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1997121	1	01/31/23 17:32	02/07/23 20:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1993264	1	01/30/23 15:06	02/07/23 20:37	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1993264	1	01/30/23 15:06	02/02/23 17:10	RGT	Mt. Juliet, TN
OM24D L1577948-04 Non-Potable Water			Collected by	Collected date/time	Received date/time	
			01/10/23 11:36		01/20/23 10:15	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1997121	1	01/31/23 17:32	02/07/23 20:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1993264	1	01/30/23 15:06	02/07/23 20:37	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1993264	1	01/30/23 15:06	02/02/23 17:10	RGT	Mt. Juliet, TN
OM25S L1577948-05 Non-Potable Water			Collected by	Collected date/time	Received date/time	
			01/10/23 12:17		01/20/23 10:15	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1997121	1	01/31/23 17:32	02/07/23 20:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1993264	1	01/30/23 15:06	02/07/23 20:37	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1993264	1	01/30/23 15:06	02/02/23 17:10	RGT	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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

[Preliminary Report]


Haley Torrence
Project Manager

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

BA06

Collected date/time: 01/10/23 14:56

SAMPLE RESULTS - 01

L1577948

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	-0.366	<u>U</u>	0.388	0.700	02/07/2023 20:37	<u>WG1997121</u>
(T) Barium	93.3			30.0-143	02/07/2023 20:37	<u>WG1997121</u>
(T) Yttrium	105			30.0-136	02/07/2023 20:37	<u>WG1997121</u>

1 Cp

2 TC

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	1.46		0.615	0.758	02/07/2023 20:37	<u>WG1993264</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	1.46		0.477	0.292	02/02/2023 17:10	<u>WG1993264</u>
(T) Barium-133	107			30.0-143	02/02/2023 17:10	<u>WG1993264</u>

OM12

Collected date/time: 01/10/23 15:15

SAMPLE RESULTS - 02

L1577948

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.0662	<u>U</u>	0.428	0.758	02/07/2023 20:37	<u>WG1997121</u>
(T) Barium	88.8			30.0-143	02/07/2023 20:37	<u>WG1997121</u>
(T) Yttrium	106			30.0-136	02/07/2023 20:37	<u>WG1997121</u>

1 Cp

2 TC

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.284	<u>U</u>	0.480	0.809	02/07/2023 20:37	<u>WG1993264</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.218	<u>J</u>	0.218	0.283	02/02/2023 17:10	<u>WG1993264</u>
(T) Barium-133	99.6			30.0-143	02/02/2023 17:10	<u>WG1993264</u>

OM22D

Collected date/time: 01/10/23 13:56

SAMPLE RESULTS - 03

L1577948

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	-0.270	<u>U</u>	0.371	0.669	02/07/2023 20:37	<u>WG1997121</u>
(T) Barium	93.2			30.0-143	02/07/2023 20:37	<u>WG1997121</u>
(T) Yttrium	103			30.0-136	02/07/2023 20:37	<u>WG1997121</u>

1 Cp

2 TC

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.118	<u>U</u>	0.410	0.719	02/07/2023 20:37	<u>WG1993264</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.118	<u>J</u>	0.175	0.263	02/02/2023 17:10	<u>WG1993264</u>
(T) Barium-133	95.7			30.0-143	02/02/2023 17:10	<u>WG1993264</u>

OM24D

Collected date/time: 01/10/23 11:36

SAMPLE RESULTS - 04

L1577948

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	1.30		0.522	0.892	02/07/2023 20:37	WG1997121
(T) Barium	59.7			30.0-143	02/07/2023 20:37	WG1997121
(T) Yttrium	108			30.0-136	02/07/2023 20:37	WG1997121

1 Cp

2 TC

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	1.42		0.555	0.936	02/07/2023 20:37	WG1993264

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.120	J	0.189	0.285	02/02/2023 17:10	WG1993264
(T) Barium-133	92.2			30.0-143	02/02/2023 17:10	WG1993264

OM25S

Collected date/time: 01/10/23 12:17

SAMPLE RESULTS - 05

L1577948

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	3.83		0.847	1.39	02/07/2023 20:37	WG1997121
(T) Barium	62.7			30.0-143	02/07/2023 20:37	WG1997121
(T) Yttrium	107			30.0-136	02/07/2023 20:37	WG1997121

1 Cp

2 TC

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	4.78		0.928	1.41	02/07/2023 20:37	WG1993264

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	pCi/l		+ / -	pCi/l	date / time	
(T) Barium-133	0.948		0.378	0.241	02/02/2023 17:10	WG1993264
(T) Barium-133	92.2			30.0-143	02/02/2023 17:10	WG1993264

WG1997121
Radiochemistry by Method 904/9

Radiochemistry by Method 904/9320

QUALITY CONTROL SUMMARY

11577948-0102030405

Method Blank (MB)	MB Result	pCi/l
(MB) R3888837-1	02/07/23 20:37	
Radium-228	0.123	
(<i>T</i>) Barium	703	
(<i>T</i>) Strontium	101	

<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
U	0.194	0.344
103	103	101

L1576645-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1576645-01		02/07/23 20:37 • (DUP) R3888837-5		02/07/23 20:37									
Analyte	Original Result pCi/l	Original Uncertainty +/-	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit	
Radium-228	0.509	0.317	0.548	0.367	0.360	0.548	1	32.3	0.295	J	20	3	
(<i>T</i>) Barium	108			110	110								
(<i>T</i>) Yttrium	105			104	104								

Laboratory Control Sample (LCS)

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	4.69	93.8	80.0-120	
(<i>T</i>) Barium			<i>106</i>		
(<i>T</i>) Yttrium			<i>96.4</i>		

L1576633-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

WG1993264

Radiochemistry by Method SM7500Ra B M

QUALITY CONTROL SUMMARY

L1577948-0102030405

Method Blank (MB)

	¹ Cp	² Tc	³ Ss	⁴ Cn	⁵ Sr	⁶ QC	⁷ Gl	⁸ Al	⁹ Sc
(MB) R3891297-1	02/02/23 17:10	MB Result pCi/l	MB Qualifier + / -	MB Uncertainty pCi/l	MB MDA pCi/l	DUP RER Limit	DUP RER Limit	DUP RPD %	DUP RER Limit
Analyte									
Radium-226	0.0244	U	0.0459	0.0729					
<i>(7) Barium-133</i>									
L1577953-05 Original Sample (OS) • Duplicate (DUP)									
(OS) L1577953-05	02/02/23 17:10 • (DUP) R3891297-4	02/02/23 17:10	Original Result Original Uncertainty pCi/l + / -	Original MDA pCi/l	DUP Result pCi/l + / -	DUP Uncertainty pCi/l + / -	DUP MDA pCi/l	Dilution %	DUP RER %
Analyte									
Radium-226	0.148	0.138	0.143	0.0986	0.170	0.143	1	40.4	0.228
<i>(7) Barium-133</i>									
Laboratory Control Sample (LCS)									
(LCS) R3891297-2	02/02/23 17:10	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier			
Analyte									
Radium-226	5.02	4.63	92.3	80.0-120					
<i>(7) Barium-133</i>									
L1577948-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)									
(OS) L1577948-04	02/02/23 17:10 • (MS) R3891297-5	02/02/23 22:31 • (MSD) R3891297-3	02/02/23 17:10	Original Result Spike Amount pCi/l	MS Result pCi/l	MS Rec. %	MSD Rec. %	Dilution %	MS RER %
Analyte									
Radium-226	20.0	0.120	17.6	19.2	87.4	95.3	1	75.0-125	8.54
<i>(7) Barium-133</i>									
SDG: L1577948									
ACCOUNT: Pace IR - Peoria, IL									
DATE/TIME: 02/05/23 08:29									
PAGE: 11 of 16									

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

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
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.
U	Below Detectable Limits: Indicates that the analyte was not detected.

- 1 Cp
- 2 TC
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 GI
- 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.

¹ Cp

² TC

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ Al

⁹ Sc

Internal Transfer Chain of Custody

H163



www.paceanalyticals.com

State of Origin: IL
 Cert. Needed: YES NO

Workorder: GA02003	Owner Received	Date: 1/16/2023	By:	Results Requested Analysis
Report To:	Subcontract To:			

Gail Schindler
 Pace Analytical - IL/MO
 2231 W. Altorfer Drive
 Peoria, IL 61615
 800-752-6651

Workorder Name: VISTRA - DUCK CREEK	Preserved Containers
Pace Analytical Services, LLC 12065 Lebanon Rd Mt Juliet, TN (615)758-5858	Radium 226/228

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Comments
1	BA06	GRAB	1/10/2023 14:56	GA02003-01	GW	
2	OM12	GRAB	1/10/2023 15:15	GA02003-02	GW	-01
3	OM22D	GRAB	1/10/2023 13:56	GA02003-03	GW	-02
4	OM24D	GRAB	1/10/2023 11:36	GA02003-04	GW	-03
5	OM25S	GRAB	1/10/2023 12:17	GA02003-05	GW	-04
6						-05
7						
8						
9						
10						
Transfers	Released By	Date/Time	Received By	Date/Time	Comments	
1	<i>J. H. Hayes</i>	1/11/2023 00:01	<i>J. H. Hayes</i>	1/10/2023 10:55	# of containers: 5 Trip Blank: No	Received on ice Y or N
2						Custody Seal Y or N
3						Sample Intact Y or N

Cooler Temperature on Receipt

°C

Custody Seal Y or N

Received on ice Y or N

Sample Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as since this information is available in the owner laboratory.

COC Seal Present/Intact: <input checked="" type="checkbox"/> N	If Applicable: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	VOC Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Press. Correct/Check: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

FMT-ALL-C-002rev.00 24March2009

Page 1 of 1



Ship to :

Pace Analytical Services, LLC
12065 Lebanon Rd
Mt Juliet, TN 37122

(615)758-5858

INTER LABORATORY WORK ORDER # GA02003

(To be complete by sending lab)

Sending Project No:	GA02003	
Receiving Project No:		
Check Box for Consolidated Invoice:		
Date Prepared:	1/17/2023	
REQUESTED COMPLETION DATE:	2/14/2023	

Sending Region	IR72-IL/MO	Sending Project Mgr.	Margie Nobiling
Receiving Region	IR80-NATIONAL	External Client	Collinsville
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units

Report Wet or Dry Weight?

Cert Needed: IL

Special Requirements:

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$1,210.50	\$968.40	\$242.10
* Custom Revenue Allocation		TOTAL	\$968.40	\$242.10

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region:

Yes No

CONFIRMATION OF WORK COMPLETED

Date Completed:

Receiving Project Manager:

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

157948

<u>Tracking Numbers</u>		<u>Temperature</u>
12647296036966 6322		DRA2 $1.07 + 0 = 1.07$
12647296037098 3914		DRA2 $9.6 + 0 = 9.6$
12647296036913 8330		DRA2 $9.9 + 0 = 9.9$



ANALYTICAL REPORT

March 29, 2023

Revised Report

Pace IR - Peoria, IL

Sample Delivery Group: L1577953
Samples Received: 01/20/2023
Project Number: GA02057
Description: VISTRA-DUCK CREEK
Site: 001
Report To: Christina Pierce

¹Cp
²Tc
³Ss
⁴Cn
⁵Sr
⁶Qc
⁷Gl
⁸Al
⁹Sc

Entire Report Reviewed By:

Haley Torrence
[Preliminary Report]

Haley Torrence
Project Manager

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

Pace Analytical National

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

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SAMPLE SUMMARY

			Collected by	Collected date/time	Received date/time	
				01/11/23 11:05	01/20/23 10:15	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1999124	1	02/15/23 17:51	02/18/23 09:23	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1993264	1	01/30/23 15:06	02/18/23 09:23	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1993264	1	01/30/23 15:06	02/02/23 17:10	RGT	Mt. Juliet, TN
OR02 L1577953-02 Non-Potable Water			Collected by	Collected date/time	Received date/time	
				01/11/23 12:28	01/20/23 10:15	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1999124	1	02/15/23 17:51	02/18/23 09:23	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1993264	1	01/30/23 15:06	02/18/23 09:23	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1993264	1	01/30/23 15:06	02/02/23 17:10	RGT	Mt. Juliet, TN
OR03D L1577953-03 Non-Potable Water			Collected by	Collected date/time	Received date/time	
				01/11/23 14:00	01/20/23 10:15	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1999124	1	02/15/23 17:51	02/18/23 09:23	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1993264	1	01/30/23 15:06	02/18/23 09:23	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1993264	1	01/30/23 15:06	02/02/23 17:10	RGT	Mt. Juliet, TN
OR04D L1577953-04 Non-Potable Water			Collected by	Collected date/time	Received date/time	
				01/11/23 15:32	01/20/23 10:15	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1999124	1	02/15/23 17:51	02/18/23 09:23	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1993264	1	01/30/23 15:06	02/18/23 09:23	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1993264	1	01/30/23 15:06	02/02/23 17:10	RGT	Mt. Juliet, TN
OM07 L1577953-05 Non-Potable Water			Collected by	Collected date/time	Received date/time	
				01/11/23 13:59	01/20/23 10:15	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1999124	1	02/15/23 17:51	02/18/23 09:23	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1993264	1	01/30/23 15:06	02/18/23 09:23	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1993264	1	01/30/23 15:06	02/02/23 17:10	RGT	Mt. Juliet, TN
OR06A L1577953-06 Non-Potable Water			Collected by	Collected date/time	Received date/time	
				01/11/23 12:43	01/20/23 10:15	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1999124	1	02/15/23 17:51	02/18/23 09:23	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1993264	1	01/30/23 15:06	02/18/23 09:23	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1993264	1	01/30/23 15:06	02/02/23 17:10	RGT	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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

[Preliminary Report]


Haley Torrence
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ Sc

Report Revision History

Level II Report - Version 1: 02/21/23 13:48

Project Narrative

Sample IDs

OM01

Collected date/time: 01/11/23 11:05

SAMPLE RESULTS - 01

L1577953

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.92		0.404	0.702	02/18/2023 09:23	<u>WG1999124</u>
(T) Barium	105			30.0-143	02/18/2023 09:23	<u>WG1999124</u>
(T) Yttrium	98.0			30.0-136	02/18/2023 09:23	<u>WG1999124</u>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.99		0.420	0.726	02/18/2023 09:23	<u>WG1993264</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0660	U	0.115	0.187	02/02/2023 17:10	<u>WG1993264</u>
(T) Barium-133	93.7			30.0-143	02/02/2023 17:10	<u>WG1993264</u>

OR02

Collected date/time: 01/11/23 12:28

SAMPLE RESULTS - 02

L1577953

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	-0.924	<u>U</u>	0.366	0.712	02/18/2023 09:23	<u>WG1999124</u>
(T) Barium	98.5			30.0-143	02/18/2023 09:23	<u>WG1999124</u>
(T) Yttrium	101			30.0-136	02/18/2023 09:23	<u>WG1999124</u>

1 Cp

2 TC

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.918		0.494	0.726	02/18/2023 09:23	<u>WG1993264</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.918		0.332	0.142	02/02/2023 17:10	<u>WG1993264</u>
(T) Barium-133	98.1			30.0-143	02/02/2023 17:10	<u>WG1993264</u>

OR03D

Collected date/time: 01/11/23 14:00

SAMPLE RESULTS - 03

L1577953

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l	+ / -		pCi/l	date / time	
RADIUM-228	1.54		0.380	0.667	02/18/2023 09:23	<u>WG1999124</u>
(<i>T</i>) Barium	96.5			30.0-143	02/18/2023 09:23	<u>WG1999124</u>
(<i>T</i>) Yttrium	111			30.0-136	02/18/2023 09:23	<u>WG1999124</u>

1 Cp

2 TC

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l	+ / -		pCi/l	date / time	
Combined Radium	1.95		0.455	0.704	02/18/2023 09:23	<u>WG1993264</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l	+ / -		pCi/l	date / time	
RADIUM-226	0.411		0.251	0.226	02/02/2023 17:10	<u>WG1993264</u>
(<i>T</i>) Barium-133	98.1			30.0-143	02/02/2023 17:10	<u>WG1993264</u>

OR04D

Collected date/time: 01/11/23 15:32

SAMPLE RESULTS - 04

L1577953

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	2.49		0.413	0.696	02/18/2023 09:23	<u>WG1999124</u>
(<i>T</i>) Barium	96.9			30.0-143	02/18/2023 09:23	<u>WG1999124</u>
(<i>T</i>) Yttrium	111			30.0-136	02/18/2023 09:23	<u>WG1999124</u>

1 Cp

2 TC

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	2.96		0.477	0.720	02/18/2023 09:23	<u>WG1993264</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.474		0.238	0.184	02/02/2023 17:10	<u>WG1993264</u>
(<i>T</i>) Barium-133	103			30.0-143	02/02/2023 17:10	<u>WG1993264</u>

OM07

Collected date/time: 01/11/23 13:59

SAMPLE RESULTS - 05

L1577953

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	-0.192	<u>U</u>	0.464	0.869	02/18/2023 09:23	<u>WG1999124</u>
(T) Barium	102			30.0-143	02/18/2023 09:23	<u>WG1999124</u>
(T) Yttrium	114			30.0-136	02/18/2023 09:23	<u>WG1999124</u>

1 Cp

2 TC

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.148	<u>U</u>	0.484	0.881	02/18/2023 09:23	<u>WG1993264</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.148		0.138	0.143	02/02/2023 17:10	<u>WG1993264</u>
(T) Barium-133	103			30.0-143	02/02/2023 17:10	<u>WG1993264</u>

OR06A

Collected date/time: 01/11/23 12:43

SAMPLE RESULTS - 06

L1577953

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	-0.160	<u>U</u>	0.341	0.649	02/18/2023 09:23	<u>WG1999124</u>
(T) Barium	93.1			30.0-143	02/18/2023 09:23	<u>WG1999124</u>
(T) Yttrium	115			30.0-136	02/18/2023 09:23	<u>WG1999124</u>

1 Cp

2 TC

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.495	<u>J</u>	0.436	0.689	02/18/2023 09:23	<u>WG1993264</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.495		0.272	0.232	02/02/2023 17:10	<u>WG1993264</u>
(T) Barium-133	95.9			30.0-143	02/02/2023 17:10	<u>WG1993264</u>

WG1999124

Radiochemistry by Method 904/9320
L1577953.010203.0405.06

QUALITY CONTROL SUMMARY

Method Blank (MB)

	¹ Cp	² Tc	³ Ss	⁴ Cn	⁵ Sr	⁶ QC	⁷ Gl	⁸ Al	⁹ Sc
(MB) R3893002-1 02/18/23 09:23	MB Result pCi/l	MB Qualifier +/-	MB Uncertainty pCi/l	MB MDA pCi/l					
Analyte									
Radium-228	0.329	↓	0.227	0.416					
(<i>7</i>) Barium	104		104						
(<i>7</i>) Yttrium	112		112						

L1575717-25 Original Sample (OS) • Duplicate (DUP)

	(OS) L1575717-25 02/18/23 09:23 • (DUP) R3893002-3 02/18/23 09:23		Original Result		Original MDA		DUP Result		DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
Analyte	pCi/l	+/-	pCi/l	+/-	pCi/l	+/-	pCi/l	+/-	pCi/l	pCi/l	%	%	%	%	%	
Radium-228	0.211	0.479	0.890	0.684	0.520	0.890	1	106	0.668	↓	20	3	20	3		
(<i>7</i>) Barium	82.5	82.5	77.4	77.4	77.4	77.4										
(<i>7</i>) Yttrium	110	110	107	107	107	107										

Laboratory Control Sample (LCS)

	(LCS) R3893002-2 02/18/23 09:23		Spike Amount		LCS Result		LCS Rec.		Rec. Limits	LCS Qualifier					
Analyte	pCi/l	%	pCi/l	%	pCi/l	%	pCi/l	%	%						
Radium-228	5.00	4.08	81.7		80.0-120										
(<i>7</i>) Barium			119												
(<i>7</i>) Yttrium			118												

L1575717-37 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	(OS) L1575717-37 02/20/23 16:08 • (MS) R3893002-4 02/20/23 16:08 • (MSD) R3893002-5 02/20/23 16:08		Spike Amount		Original Result		MS Result		MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD %	MS RER %	RPD %
Analyte	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	%	%	%	%					
Radium-228	10.0	4.60	11.7	11.2	70.7	65.8	11.4	108	89.1	86.0	104	70.0-130	J6	4.29	20		
(<i>7</i>) Barium			92.3														
(<i>7</i>) Yttrium			116														

WG1993264

Radiochemistry by Method SM7500Ra B M

QUALITY CONTROL SUMMARY

L1577953-05 02/02/23 17:10 • (DUP) R3891297-4 02/02/23 17:10

Method Blank (MB)

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	0.0244	U	0.0459	0.0729
(<i>l</i>) Barium-133	91.3		91.3	

L1577953-05 Original Sample (OS) • Duplicate (DUP)

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.148	0.138	0.143	0.0986	0.170	0.143	1	40.4	0.228	J	20	3
(<i>l</i>) Barium-133	703			99.9	99.9							

Laboratory Control Sample (LCS)

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.02	4.63	92.3	80.0-120	
(<i>l</i>) Barium-133			94.3		

L1577948-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits %
Radium-226	20.0	0.120	17.6	19.2	87.4	95.3	1	75.0-125		8.54		20
(<i>l</i>) Barium-133		92.2		96.6	103							

Method Blank (MB)

¹Cp

²Tc

³SS

⁴Cn

⁵Sr

⁶QC

⁷GI

⁸AI

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

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
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.
U	Below Detectable Limits: Indicates that the analyte was not detected.

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.

¹ Cp

² TC

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ Al

⁹ Sc

Internal Transfer Chain of Custody

H165


 Pace Analytical[®]
 www.paceanalytical.com

 Date of Origin: IL
 Cert. Needed: YES NO

Workorder: GA02057

Owner Received

Date: 1/11/2023

Results Req'd

By: 2/14/2023

Workorder Name: VISTRA - DUCK CREEK

Subcontract To:

Report To:
Gail SchindlerPace Analytical I - IL/MO
2231 W. Altorfer Drive
Peoria, IL 61615
800-752-6651

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers					Comments
						LAB USE ONLY					
1	0M01	GRAB	1/11/2023 11:05	GA02057-01	GW	X					-01
2	0R02	GRAB	1/11/2023 12:28	GA02057-02	GW	X					-02
3	0R03D	GRAB	1/11/2023 14:00	GA02057-03	GW	X					-03
4	0R04D	GRAB	1/11/2023 15:32	GA02057-04	GW	X					-04
5	0M07	GRAB	1/11/2023 13:59	GA02057-06	GW	X					-05
6											
7											
8											
9											
10											
Transfers	Released By		Date/Time	Received By							Date/Time
1	<u>Endyay</u>		1/12/23 0201	<u>Jadiey</u>							1-20-23 10:4 AM
2											# of containers: 6
3											trip blank: NO

Cooler Temperature on Receipt

°C

Custody Seal Y or N

Sample Intact Y or N

Received on Ice Y or N

Sample Intact Y or N

*** In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

FMT-ALL-C-002rev.00 24March2009

Page 1 of 1

Sample Present/Intact: N If Applicable
 COC Signed Accurate: N VOA Zero Headspace: N
 Bottles arrive intact: N Pres.Correct/Check: N
 Correct bottles used: N Sufficient volume sent: N
 RAD Screen <0.5 mR/h: N



Ship to :
Pace Analytical Services, LLC
12065 Lebanon Rd
Mt Juliet, TN 37122

(615)758-5858

INTER LABORATORY WORK ORDER # GA02057

(To be complete by sending lab)

Sending Project No:	GA02057	
Receiving Project No:		
Check Box for Consolidated Invoice:		
Date Prepared:	1/17/2023	
REQUESTED COMPLETION DATE:	2/14/2023	

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	IR80-NATIONAL	External Client	VISTRA - DUCK CREEK
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units Report Wet or Dry Weight? Cert Needed: IL

Special Requirements:

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$1,210.50	\$968.40	\$242.10
* Custom Revenue Allocation		TOTAL	\$968.40	\$242.10

* Custom Revenue Allocation

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: Yes X No

CONFIRMATION OF WORK COMPLETED

Date Completed: _____

Receiving Project Manager: _____

Original sent to the receiving lab - Copy kept at the sending lab.

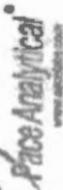
When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

U577953

<u>Tracking Numbers</u>		<u>Temperature</u>
1Z 64729603 6466 6322		DRA2 1.07 to = 1.07
1Z 69729603 7099 391Y		DRA2 9.6 to = 9.6
1Z 64729603 6913 8330		DRA2 9.9 to = 9.9

Internal Transfer Chain of Custody

H165


 Pace Analytical
 www.paceanalytical.com

State of Origin: IL

 YES NO

Cert. Needed:

 YES NO

Owner Received

Date: 1/11/2023

By: Ref.

Results Requested

By: Ref.

Workorder: GA02057

Subcontractor: T.

Date: 2/14/2023

By: Ref.

Results Requested

By: Ref.

Report To:

Gail Schindler

 Pace Analytical - IL/MO
 22231 W. Altoner Drive
 Peoria, IL 61615
 800-752-6651

Workorder Name: VISTRA - DUCK CREEK

Comments

12065 Lebanon Rd

Mt Juliet, TN

(615)758-5858

Printed Container

Sample ID	Sample Type	Collect Date/Time	Last Edit	Matrix	LAB USE ONLY
1	GRAB	1/11/2023 11:05		GA02057-01	-01
2	GRAB	1/11/2023 12:28		GA02057-02	-02
3	GRAB	1/11/2023 14:00		GA02057-03	-03
4	GRAB	1/11/2023 15:32		GA02057-04	-04
5	GRAB	1/11/2023 13:59		GA02057-06	-06
6	DRDA	6/14/2023 12:43		GA02057-05	-05
7	DRDA	6/14/2023 12:43			-06
8					
9					
10					
Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1		1/23/2023	Jay J	1-23-23	# of containers: 6 Trip blank: No
2					
3					

Cooler Temperature on Receipt

*C

Custody Seal Y or N

Received on ice Y or N

Sample Intact Y or N

*S In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as it since this information is available in the owner laboratory.

FMT-ALL-C-002 rev.00 24 March 2009

Sample Number: 12065 Lebanon Rd
 Sample Date: 1-23-23
 Sample Name: VISTRA - DUCK CREEK
 Lab: Pace Analytical
 Container: T
 Container ID: 12065 Lebanon Rd
 Container Volume: 500 mL
 Pk. Strength: 0.5 M BRINN

 Page 1 of 1
 Page 1 of 1

1/20-NCF-L1577953 PACEPIL

R5

Time estimate: oh**Time spent:** oh**Members**

Hailey Melson (responsible)



HT Haley Torrence

Due on 24 January 2023 8:00 AM for target Done

- 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: _____
- PM initials: _____
- Client Contact: _____

Comments**Hailey Melson**

20 January 2023 4:36 PM

Received ID: ORo6A Lab ID: GAo2057-05A not listed on the COC.

Haley Torrence

23 January 2023 11:31 AM

PACEPIL notified 1/23

Haley Torrence

23 January 2023 12:20 PM

Revised COC attached. Please log for all analyses. Thanks!

Hailey Melson

24 January 2023 7:55 AM

Done



ANALYTICAL REPORT

March 29, 2023

Revised Report

Pace IR - Peoria, IL

Sample Delivery Group: L1577951
Samples Received: 01/20/2023
Project Number: GA02366
Description: VISTRA-DUCK CREEK
Site: 001
Report To: Christina Pierce

Entire Report Reviewed By:

Haley Torrence
[Preliminary Report]

Haley Torrence
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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ AI

⁹ Sc

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SAMPLE SUMMARY

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

OM04S L1577951-01 Non-Potable Water

Method	Batch	Dilution	Collected by	Collected date/time	Received date/time
			Preparation date/time	Analysis date/time	Analyst
Radiochemistry by Method 904/9320	WG1999123	1	02/09/23 22:42	02/15/23 20:19	SWM
Radiochemistry by Method Calculation	WG1993876	1	01/26/23 16:06	02/15/23 20:19	SWM
Radiochemistry by Method SM7500Ra B M	WG1993876	1	01/26/23 16:06	01/27/23 17:51	RGT

OM16 L1577951-02 Non-Potable Water

Method	Batch	Dilution	Collected by	Collected date/time	Received date/time
			Preparation date/time	Analysis date/time	Analyst
Radiochemistry by Method 904/9320	WG1999123	1	02/09/23 22:42	02/15/23 20:19	SWM
Radiochemistry by Method Calculation	WG1993876	1	01/26/23 16:06	02/15/23 20:19	SWM
Radiochemistry by Method SM7500Ra B M	WG1993876	1	01/26/23 16:06	01/27/23 17:51	RGT

OM17 L1577951-03 Non-Potable Water

Method	Batch	Dilution	Collected by	Collected date/time	Received date/time
			Preparation date/time	Analysis date/time	Analyst
Radiochemistry by Method 904/9320	WG1999123	1	02/09/23 22:42	02/21/23 13:37	SWM
Radiochemistry by Method Calculation	WG1993876	1	01/26/23 16:06	02/21/23 13:37	SWM
Radiochemistry by Method SM7500Ra B M	WG1993876	1	01/26/23 16:06	01/27/23 17:51	RGT

OM21 L1577951-04 Non-Potable Water

Method	Batch	Dilution	Collected by	Collected date/time	Received date/time
			Preparation date/time	Analysis date/time	Analyst
Radiochemistry by Method 904/9320	WG1999123	1	02/09/23 22:42	02/15/23 20:19	SWM
Radiochemistry by Method Calculation	WG1993876	1	01/26/23 16:06	02/15/23 20:19	SWM
Radiochemistry by Method SM7500Ra B M	WG1993876	1	01/26/23 16:06	01/27/23 17:51	RGT

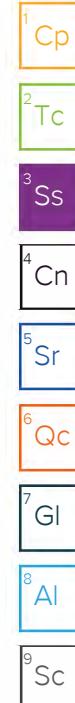
OM23D L1577951-05 Non-Potable Water

Method	Batch	Dilution	Collected by	Collected date/time	Received date/time
			Preparation date/time	Analysis date/time	Analyst
Radiochemistry by Method 904/9320	WG1999123	1	02/09/23 22:42	02/15/23 20:19	SWM
Radiochemistry by Method Calculation	WG1993876	1	01/26/23 16:06	02/15/23 20:19	SWM
Radiochemistry by Method SM7500Ra B M	WG1993876	1	01/26/23 16:06	01/27/23 17:51	RGT

OR11 L1577951-06 Non-Potable Water

Method	Batch	Dilution	Collected by	Collected date/time	Received date/time
			Preparation date/time	Analysis date/time	Analyst
Radiochemistry by Method 904/9320	WG1999123	1	02/09/23 22:42	02/21/23 13:37	SWM
Radiochemistry by Method Calculation	WG1993876	1	01/26/23 16:06	02/21/23 13:37	SWM
Radiochemistry by Method SM7500Ra B M	WG1993876	1	01/26/23 16:06	01/27/23 17:51	RGT

SAMPLE SUMMARY



OR13D L1577951-07 Non-Potable Water

Method	Batch	Dilution	Preparation	Analysis date/time	Analyst	Location
			date/time			
Radiochemistry by Method 904/9320	WG1999123	1	02/09/23 22:42	02/15/23 20:19	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1993876	1	01/26/23 16:06	02/15/23 20:19	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1993876	1	01/26/23 16:06	01/27/23 17:51	RGT	Mt. Juliet, TN

OR13S L1577951-08 Non-Potable Water

Method	Batch	Dilution	Preparation	Analysis date/time	Analyst	Location
			date/time			
Radiochemistry by Method 904/9320	WG1999123	1	02/09/23 22:42	02/15/23 20:19	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1993876	1	01/26/23 16:06	02/15/23 20:19	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1993876	1	01/26/23 16:06	01/27/23 17:51	RGT	Mt. Juliet, TN

OR14D L1577951-09 Non-Potable Water

Method	Batch	Dilution	Preparation	Analysis date/time	Analyst	Location
			date/time			
Radiochemistry by Method 904/9320	WG1999123	1	02/09/23 22:42	02/15/23 20:19	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1993876	1	01/26/23 16:06	02/15/23 20:19	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1993876	1	01/26/23 16:06	01/27/23 17:51	RGT	Mt. Juliet, TN

OR19 L1577951-10 Non-Potable Water

Method	Batch	Dilution	Preparation	Analysis date/time	Analyst	Location
			date/time			
Radiochemistry by Method 904/9320	WG1999123	1	02/09/23 22:42	02/15/23 20:19	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1993876	1	01/26/23 16:06	02/15/23 20:19	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1993876	1	01/26/23 16:06	01/27/23 17:51	RGT	Mt. Juliet, TN

OR20 L1577951-11 Non-Potable Water

Method	Batch	Dilution	Preparation	Analysis date/time	Analyst	Location
			date/time			
Radiochemistry by Method 904/9320	WG1999123	1	02/09/23 22:42	02/15/23 20:19	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1993876	1	01/26/23 16:06	02/15/23 20:19	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1993876	1	01/26/23 16:06	01/27/23 17:51	RGT	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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

[Preliminary Report]


Haley Torrence
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC

Report Revision History

Level II Report - Version 1: 02/23/23 11:26

Project Narrative

Sample IDs

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	-0.0627	<u>U</u>	0.358	0.634	02/15/2023 20:19	<u>WG1999123</u>
(<i>T</i>) Barium	97.2			30.0-143	02/15/2023 20:19	<u>WG1999123</u>
(<i>T</i>) Yttrium	105			30.0-136	02/15/2023 20:19	<u>WG1999123</u>

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.331	<u>J</u>	0.441	0.690	02/15/2023 20:19	<u>WG1993876</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.331	<u>J6</u>	0.257	0.273	01/27/2023 17:51	<u>WG1993876</u>
(<i>T</i>) Barium-133	81.3			30.0-143	01/27/2023 17:51	<u>WG1993876</u>

OM16

Collected date/time: 01/12/23 11:19

SAMPLE RESULTS - 02

L1577951

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	-2.30	<u>U</u>	0.743	1.35	02/15/2023 20:19	<u>WG1999123</u>
(<i>T</i>) Barium	101			30.0-143	02/15/2023 20:19	<u>WG1999123</u>
(<i>T</i>) Yttrium	94.5			30.0-136	02/15/2023 20:19	<u>WG1999123</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.664	<u>J</u>	0.807	1.37	02/15/2023 20:19	<u>WG1993876</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.664		0.314	0.231	01/27/2023 17:51	<u>WG1993876</u>
(<i>T</i>) Barium-133	79.8			30.0-143	01/27/2023 17:51	<u>WG1993876</u>

OM17

Collected date/time: 01/12/23 10:09

SAMPLE RESULTS - 03

L1577951

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l	+ / -		pCi/l	date / time	
RADIUM-226	2.26		0.618	1.07	02/21/2023 13:37	WG1999123
(<i>T</i>) Barium	92.3			30.0-143	02/21/2023 13:37	WG1999123
(<i>T</i>) Yttrium	113			30.0-136	02/21/2023 13:37	WG1999123

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l	+ / -		pCi/l	date / time	
Combined Radium	4.57		0.843	1.08	02/21/2023 13:37	WG1993876

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l	+ / -		pCi/l	date / time	
RADIUM-226	2.31		0.573	0.170	01/27/2023 17:51	WG1993876
(<i>T</i>) Barium-133	84.1			30.0-143	01/27/2023 17:51	WG1993876

OM21

Collected date/time: 01/12/23 15:39

SAMPLE RESULTS - 04

L1577951

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.243	<u>U</u>	0.389	0.674	02/15/2023 20:19	<u>WG1999123</u>
(<i>T</i>) Barium	87.3			30.0-143	02/15/2023 20:19	<u>WG1999123</u>
(<i>T</i>) Yttrium	102			30.0-136	02/15/2023 20:19	<u>WG1999123</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.316	<u>J</u>	0.422	0.731	02/15/2023 20:19	<u>WG1993876</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.0735	<u>U</u>	0.164	0.284	01/27/2023 17:51	<u>WG1993876</u>
(<i>T</i>) Barium-133	78.6			30.0-143	01/27/2023 17:51	<u>WG1993876</u>

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.644	J	0.544	0.927	02/15/2023 20:19	WG1999123
(T) Barium	85.4			30.0-143	02/15/2023 20:19	WG1999123
(T) Yttrium	101			30.0-136	02/15/2023 20:19	WG1999123

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.864	J	0.598	0.986	02/15/2023 20:19	WG1993876

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.220	J	0.248	0.337	01/27/2023 17:51	WG1993876
(T) Barium-133	92.5			30.0-143	01/27/2023 17:51	WG1993876

OR11

Collected date/time: 01/12/23 14:25

SAMPLE RESULTS - 06

L1577951

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	5.83		0.701	1.11	02/21/2023 13:37	WG1999123
(<i>T</i>) Barium	96.5			30.0-143	02/21/2023 13:37	WG1999123
(<i>T</i>) Yttrium	95.2			30.0-136	02/21/2023 13:37	WG1999123

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	8.04		0.945	1.15	02/21/2023 13:37	WG1993876

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	2.20		0.633	0.314	01/27/2023 17:51	WG1993876
(<i>T</i>) Barium-133	80.8			30.0-143	01/27/2023 17:51	WG1993876

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.15		0.422	0.705	02/15/2023 20:19	WG1999123
(T) Barium	94.6			30.0-143	02/15/2023 20:19	WG1999123
(T) Yttrium	103			30.0-136	02/15/2023 20:19	WG1999123

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.37		0.470	0.744	02/15/2023 20:19	WG1993876

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.222	J	0.207	0.238	01/27/2023 17:51	WG1993876
(T) Barium-133	88.5			30.0-143	01/27/2023 17:51	WG1993876

OR13S

Collected date/time: 01/12/23 11:21

SAMPLE RESULTS - 08

L1577951

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.59		0.901	1.50	02/15/2023 20:19	WG1999123
(<i>T</i>) Barium	85.4			30.0-143	02/15/2023 20:19	WG1999123
(<i>T</i>) Yttrium	93.3			30.0-136	02/15/2023 20:19	WG1999123

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.63		1.02	1.55	02/15/2023 20:19	WG1993876

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.03		0.469	0.402	01/27/2023 17:51	WG1993876
(<i>T</i>) Barium-133	73.5			30.0-143	01/27/2023 17:51	WG1993876

OR14D

Collected date/time: 01/12/23 12:20

SAMPLE RESULTS - 09

L1577951

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.138	<u>U</u>	0.498	0.863	02/15/2023 20:19	<u>WG1999123</u>
(<i>T</i>) Barium	92.4			30.0-143	02/15/2023 20:19	<u>WG1999123</u>
(<i>T</i>) Yttrium	104			30.0-136	02/15/2023 20:19	<u>WG1999123</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.429	<u>J</u>	0.551	0.899	02/15/2023 20:19	<u>WG1993876</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.291		0.235	0.252	01/27/2023 17:51	<u>WG1993876</u>
(<i>T</i>) Barium-133	88.1			30.0-143	01/27/2023 17:51	<u>WG1993876</u>

OR19

Collected date/time: 01/12/23 14:34

SAMPLE RESULTS - 10

L1577951

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	1.17		0.354	0.585	02/15/2023 20:19	WG1999123
(<i>T</i>) Barium	91.9			30.0-143	02/15/2023 20:19	WG1999123
(<i>T</i>) Yttrium	104			30.0-136	02/15/2023 20:19	WG1999123

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	1.49		0.446	0.669	02/15/2023 20:19	WG1993876

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.326		0.272	0.325	01/27/2023 17:51	WG1993876
(<i>T</i>) Barium-133	81.8			30.0-143	01/27/2023 17:51	WG1993876

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.530	J	0.495	0.846	02/15/2023 20:19	WG1999123
(T) Barium	96.9			30.0-143	02/15/2023 20:19	WG1999123
(T) Yttrium	97.0			30.0-136	02/15/2023 20:19	WG1999123

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.694	J	0.518	0.864	02/15/2023 20:19	WG1993876

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.164	J	0.153	0.176	01/27/2023 17:51	WG1993876
(T) Barium-133	92.3			30.0-143	01/27/2023 17:51	WG1993876

QUALITY CONTROL SUMMARY

L1577951-01,02,03,04,05,06,07,08,09,10,11

Method Blank (MB)

(MB) R3891709-1 02/15/23 20:19

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.00792	<u>U</u>	0.207	0.363
(T) Barium	108		108	
(T) Yttrium	95.4		95.4	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1577951-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1577951-07 02/15/23 20:19 • (DUP) R3891709-5 02/15/23 20:19

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-228	1.15	0.422	0.705	0.945	0.358	0.705	1	19.3	0.366		20	3
(T) Barium	94.6			100	100							
(T) Yttrium	103			92.7	92.7							

Laboratory Control Sample (LCS)

(LCS) R3891709-2 02/15/23 20:19

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	5.31	106	80.0-120	
(T) Barium			95.6		
(T) Yttrium			98.3		

L1575717-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1575717-19 02/15/23 20:19 • (MS) R3891709-3 02/15/23 20:19 • (MSD) R3891709-4 02/15/23 20:19

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-228	10.0	1.60	10.4	10.8	87.6	92.3	1	70.0-130			4.44		20
(T) Barium		104		103	95.0								
(T) Yttrium		102		94.0	96.9								

WG1993876

Radiochemistry by Method SM7500Ra B M

QUALITY CONTROL SUMMARY

L1577951-01,02,03,04,05,06,07,08,09,10,11

Method Blank (MB)

(MB) R3886239-1 01/27/23 17:51

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	-0.00851	<u>U</u>	0.0457	0.0961
(T) Barium-133	75.6		75.6	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1577951-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1577951-11 01/27/23 17:51 • (DUP) R3886239-5 01/27/23 17:51

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.164	0.153	0.176	0.171	0.210	0.176	1	4.13	0.0266	<u>J</u>	20	3
(T) Barium-133	92.3			85.7	85.7							

Laboratory Control Sample (LCS)

(LCS) R3886239-2 01/27/23 17:51

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.02	4.74	94.3	80.0-120	
(T) Barium-133			64.8		

L1577951-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1577951-01 01/27/23 17:51 • (MS) R3886239-3 01/27/23 17:51 • (MSD) R3886239-4 01/27/23 17:51

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.331	12.3	11.7	60.0	56.7	1	75.0-125	<u>J6</u>	<u>J6</u>	5.50		20
(T) Barium-133		81.3			88.9	85.6							

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

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
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.
U	Below Detectable Limits: Indicates that the analyte was not detected.

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.

¹ Cp

² TC

³ SS

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ Al

⁹ SC

Internal Transfer Chain of Custody

H164

State of Origin: IL
Cert. Needed: YES NO



Workorder: GA02366

Workorder Name: VISTRA - DUCK CREEK

Owner Received

Results Regu

By: 2/14/2023

Report To:		Subcontract To:					Requested Analysis				
Gail Schindler Pace Analytical - IL/MO 2231 W. Altorfer Drive Peoria, IL 61615 800-752-6651		Pace Analytical Services, LLC 12065 Lebanon Rd Mt Juliet, TN (615)758-5858									
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers					LAB USE ONLY
						X	X	X	X	X	
1	OM045	GRAB	1/12/2023 13:25	GA02366-01	GW						-01
2	OM16	GRAB	1/12/2023 11:19	GA02366-02	GW						-02
3	OM17	GRAB	1/12/2023 10:09	GA02366-03	GW						-03
4	OM21	GRAB	1/12/2023 15:39	GA02366-04	GW						-04
5	OM23D	GRAB	1/12/2023 13:08	GA02366-05	GW						-05
6	OR11	GRAB	1/12/2023 14:25	GA02366-06	GW						-06
7	OR13D	GRAB	1/12/2023 10:29	GA02366-07	GW						-07
8	OR13S	GRAB	1/12/2023 11:21	GA02366-08	GW						-08
9	OR14D	GRAB	1/12/2023 12:20	GA02366-09	GW						-09
10	OR19	GRAB	1/12/2023 14:34	GA02366-10	GW						-10
11	OR20	GRAB	1/12/2023 14:55	GA02366-11	GW						-11

Cooler Temperature on Receipt °C **Custody Seal Y or N**

Received on [redacted] or N

Sample Intact Year N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

In order to maintain client confidentiality, location, name of the sampling site, sampler's name and signature.



Ship to:

INTER LABORATORY WORK ORDER # GA02366

75

www.picclick.com
12065 Lebanon Rd
Mt Juliet, TN 37122

(615)758-5858

(To be complete by sending lab)	
Sending Project No:	GA02366
Receiving Project No:	
Check Box for Consolidated Invoice:	<input type="checkbox"/>
Date Prepared:	1/17/2023
REQUESTED COMPLETION DATE:	2/14/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	IR80-NATIONAL	External Client	VISTRA - DUCK CREEK
State of Sample Origin	IL	QC Deliverable	STD Report

Requested Reportable Units

Report Wet or Dry Weight?

Cert Needed: IL

All questions should be addressed to sending project manager.

Special Requirements:

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region:

Yes
 X
No

CONFIRMATION OF WORK COMPLETED

Original sent to the receiving lab - Copy kept at the sending lab.

VPS

UK577951

<u>Tracking Numbers</u>	<u>Temperature</u>
12 647 296 03 0366 6322	DRA2 $1.07 + 0 = 1.07$
12 647 296 03 7098 3919	DRA2 $9.6 + 0 = 9.6$
12 647 296 03 8330 6013	DRA2 $9.9 + 0 = 9.9$

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:

Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quide Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

Section B Required Project Information:

Invoice Information:	Attention: Jason Stuckey
	Company Name: Vistra Corp
	Address: see Section A
	Quide Reference:
	Project Manager:
	Profile #:

Section C

Analyses Test ↑ Y/N ↑	Residual Chlorine (Y/N)
	REGULATORY AGENCY
	NPDES GROUND WATER DRINKING WATER OTHER
	UST RCRA STATE: IL
	Site Location STATE: IL
	Requested Analysis Filtered (Y/N)
	Project No./Lab I.D.

ITEM #	SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	DATE	TIME	SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	Preservatives	Project No./Lab I.D.
				COLLECTED	TIME			
1	BA01	WT	1/10/23	12:16				
2	BA02	WT	1/10/23	13:15	2	X		
3	BA02L	WT	1/10/23	12:46	2	X		
4	BA03	WT	1/10/23	10:01	2	X		
5	BA03L	WT	1/10/23	11:11	2	X		
6	BA04	WT	1/10/23	10:33	2	X		
7	BA05	WT	1/10/23	13:59	2	X		
8	BA06	WT	1/10/23	14:56	4	X		
9	G02S							
10	G04S							
11	G06L							
12	G06S							
13	G07L							
14	G08L							
15	G09L							
16	G09S							
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME
DC-Q1-2023 Rev 2			1/10/23				1/10/23	
SAMPLE NAME AND SIGNATURE								
PRINT Name of SAMPLER: 								
SIGNATURE of SAMPLER: 								
SAMPLE CONDITIONS								
DATE signed (MM/DD/YY): 01/10/23								
COURT								

Temp in °C	Resealed on	Custody Seal Code	Samples intact (Y/N)

G-A02003-05 G-A01700-20

CHAIN-OF-CUSTODY / Analytical Request Document

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

Required Project Information:

Company:	Vistra Corp		Report To:	Brian Voeleker
Address:	13498 E. 900th St		Copy To:	Jason Stuckey
			Purchase Order No.:	
Email To:	Brian.Voeleker@VistraCorp.com		Project Name:	
Phone:	(217) 753-8911	Fax:	Project Number: 2285	
Requested Due Date/TAT:			10 day	

Section A

Required Client Information:

Page 73 of 84

G402056-20

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:																																																																																																																																																																															
Company: Visira Corp Address: 13493 E. 900th St.	Report To: Brian Voelker Copy To: Jason Stuckey	Purchase Order No.: Project Name: Project Number: 2285	Requested Due Date/TAT: 10 day	Attention: Jason Stuckey Company Name: Visira Corp Address: see Section A Quote Reference: Project Manager: Phone #:	REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location STATE: IL																																																																																																																																																																														
<table border="1"> <thead> <tr> <th rowspan="2">ITEM #</th> <th rowspan="2">SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE</th> <th colspan="2">Valid Matrix Codes</th> <th colspan="2">COLLECTED</th> <th rowspan="2">Preservatives</th> <th rowspan="2">Analysis Test ↑</th> <th rowspan="2">Residual Chlorine (Y/N)</th> <th rowspan="2">Project No./Lab I.D.</th> </tr> <tr> <th>WATER</th> <th>WATER</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr><td>1</td><td>BA01</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td>BA02</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td>BA02L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td>BA03</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td>BA03L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td>BA04</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td>BA05</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td>BA06</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td>G02S</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td>G04S</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td>G06L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>12</td><td>G06S</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>13</td><td>G07L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>G08L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>15</td><td>G09L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>16</td><td>G09S</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>						ITEM #	SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		COLLECTED		Preservatives	Analysis Test ↑	Residual Chlorine (Y/N)	Project No./Lab I.D.	WATER	WATER	DATE	TIME	1	BA01									2	BA02									3	BA02L									4	BA03									5	BA03L									6	BA04									7	BA05									8	BA06									9	G02S									10	G04S									11	G06L									12	G06S									13	G07L									14	G08L									15	G09L									16	G09S								
ITEM #	SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		COLLECTED				Preservatives	Analysis Test ↑	Residual Chlorine (Y/N)	Project No./Lab I.D.																																																																																																																																																																								
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DC-Q1-2023 Rev 3				1/1/23	10:25			1/1/23	10:25																																																																																																																																																																										
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER: Lindsey Haas		DATE Sampled: 1/1/23		SIGNATURE OF BARRIER:		Temp In °C: 0.8		Samples Releas (Y/N): Y																																																																																																																																																																									
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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:

Company: Vistra Corp	Report To: Brian Voelker
Address: 13498 E. 900th St	Copy To: Jason Stuckey
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:
Phone: (217) 753-8911	Project Name:
Requested Due Date/TAT: 10 day	Project Number: 2285

Section C Invoice Information:

Page: **2** of **7**

ITEM #	SAMPLE ID (A-Z, 0-9, -,) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER WATER WASTE WATER PRODUCT SOIL WHEAT WHEAT AIR OT TS	SAMPLE TYPE (G=GRAIN C=COMPOUND) # OF CONTAINERS SAMPLE TEMP AT COLLECTION TIME	COLLECTED DATE	Preservatives		Project No./Lab I.D.
					Na ₂ S ₂ O ₃	HNO ₃	
1	G12S			1/11/23	15:50	2	
2	G15S						
3	G50L	WT	G	1/11/23	15:50	2	
4	G50S						
5	G51L						
6	G51S						
7	G52L						
8	G52S						
9	G53L	WT	G	1/11/23	14:44	2	
10	G53S	WT	G	1/11/23	14:17		
11	G54L						
12	G54S						
13	G55L						
14	G55S						
15	G56L						
16	G56S						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
DC-Q1-2023 Rev 3				1/11/23 10:25			1/11/23

Temp In °C	Received at °C	Sampled Date (Y/M/D)	Custody Date (Y/M/D)	Samples Initiated (Y/N)

PRINT Name of SAMPLER:	Lindsey Haworth	DATE Signed (MM/DD/YY):	1/11/23
SIGNATURE of SAMPLER:			

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp	Project To: Brian Voelker	Copy To: Jason Stuckey	Company Name: Vistra Corp	REGULATORY AGENCY	
Address: 1349B E. 900th St			Address: See Section A	NPDES	GROUND WATER DRINKING WATER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:		Circle Reference:	LST	RCRA OTHER
Phone: (217) 753-8911	Fax:	Project Name:	Project Manager:	Site Location:	STATE: IL
Requested Due Date/TAT:	10 day	Project Number: 2285	Profile #:	Residual Chlorine (Y/N)	
Requested Analysis Filtered (Y/N)					
Analysis Test ↑ Y/N ↓					
Preservatives					
# OF CONTAINERS					
SAMPLE TEMP AT COLLECTION					
COLLECTED					
TIME					
DATE					
ITEM #					
SAMPLE TYPE (G=GRAIN C=COMP)					
MATRIX CODE [See valid codes to left]					
Valid Matrix Codes					
MATRIX CODE					
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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Company: Vistra Corp	Address: 13498 E. 900th St	Report To: Brian Voelker	Copy To: Jason Stuckey	Attention: Jason Stuckey																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Section B
Required Project Information:

G-A-02365

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Section B
Required Project Information:

Report To: Brian Voelker

Section C

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Page 81 of 84

G-A-02365

CHAIN-OF-CUSTODY / Analytical Request Document

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

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp	Address: 13498 E. 900th St	Report To: Brian Voelker	Copy To: Jason Stuckey	Attention: Jason Stuckey	
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Project Name:	Project Number:	Company Name: Vistra Corp	Company Name: Vistra Corp
Phone: (217) 753-8911	Fax:	Requested Due Date/TAT:	10 day	Address: see Section A	Address: see Section A
				Client Reference: Project Manager: Profile #:	Client Reference: Project Manager: Profile #:
				Residual Chlorine (Y/N)	Residual Chlorine (Y/N)
				NPDES	GROUND WATER
				UST	DRINKING WATER
				RCRA	OTHER
				Site Location:	Site Location:
				STATE:	IL
				Project No./Lab ID.	Project No./Lab ID.
Requested Analysis Filtered (Y/N)					
<input checked="" type="checkbox"/> Analytical Test <input type="checkbox"/> Preservatives <input type="checkbox"/> Methanol <input type="checkbox"/> NaOH <input type="checkbox"/> HCl <input type="checkbox"/> Na ₂ S ₂ O ₃ <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> Unpreserved					
# OF CONTAINERS					
SAMPLE TEMP AT COLLECTION					
Section D Required Client Information		Valid Matrix Codes		COLLECTED	
SAMPLE ID		MATRIX CODE		TIME	
#		MATERIAL CODE (S=GRA C=COMP) Drinking Water WT Waste Water WW Product P Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS		DATE	
TELE #					
SAMPLE ID (A-Z-B-F-G-H-I-J-K-L) Sample IDs MUST BE UNIQUE					
REINQUIRISHED BY / AFFILIATION					
ACCEPTED BY / AFFILIATION					
DATE TIME DATE TIME					
SAMPLE CONDITIONS					
ADDITIONAL COMMENTS		DC-Q1-2023 Rev 3		1/12/23 1722	
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		DATE SIGNED (MM/DD/YY):	
Samples Interacted (Y/N)		Temp in °C 1/12/23		Signature: Benton Bentzel	
Released on (Y/N)		Sample Code (Y/N)		Signature: 01/12/23	
Quality Control (Y/N)		Drinking Water Ground Water Other		Signature: 01/12/23	
Samples Interacted (Y/N)		Project No./Lab ID.		Signature: 01/12/23	

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:																																																																																																																																																																																																																																																				
Company: Vistra Corp Address: 13498 E. 900th St		Recipient To: Brian Voeleker Copy To: Jason Stuckey Purchase Order No.: Project Name: Project Number: 2285 Requested Due Date/TAT: 10 day																																																																																																																																																																																																																																																				
Email To: Brian.Voeleker@VistraCorp.com Phone: (217) 753-8911 Fax:		Attention: Jason Stuckey Company Name: Vistra Corp Address: see Section A Quote Referrer: Project Manager: Profile #:																																																																																																																																																																																																																																																				
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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:

Company:	Vistra Corp	Report To:	Brian Voelker
Address:	13488 E. 800th St	Copy To:	Jason Stuckey
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:	
Phone:	(217) 753-8911	Fax:	
Requested Due Date/TAT:	10 day	Project Name:	Project Number: 2285

Section B Required Project Information:

Alt/Name:	Jason Stuckey																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

June 13, 2023

Daryl Johnson
Vistra - Duck Creek
17751 North Cilco Road
Canton, IL 61520-8761

Dear Daryl Johnson:

Please find enclosed the **revised** analytical results for the sample(s) the laboratory received. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Gail Schindler
Sincerely,

Gail Schindler
Project Manager
(309) 692-9688 x1716
gail.schindler@pacelabs.com



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Peoria, IL 61615
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SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order GE02221

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GE02767

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



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Work Order GE02997

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GE03266

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
YES	Case narrative provided



Work Order GE03618

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



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Case Narrative

Sample GE02997-10 nitrate was originally reported at 10x dilution but it was discovered the sample was analyzed at a 5x dilution. The corrected raw data page is numbered 289a. The incorrect page has been removed and the corrected page has been added in its place.

RS = resample

X301 - soluble ferrous iron not measured

OM07 - not able to measure soluble ferrous iron due to insufficient ampules

RS - resample

G52s - pump not working and are unable to removed from well without damage

G08L - DTW below top of pump



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ANALYTICAL RESULTS

Sample: GE02221-06

Sampled: 05/10/23 15:20

Name: OR13D

Received: 05/10/23 17:20

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	42	mg/L		05/12/23 01:03	10	10	05/12/23 01:03	CRD	EPA 300.0 REV 2.1
Sulfate	300	mg/L		05/12/23 01:24	100	100	05/12/23 01:24	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	12.14	Feet		05/10/23 15:20	1		05/10/23 15:20	FIELD	Field*
Dissolved oxygen, Field	1.5	mg/L		05/10/23 15:20	1		05/10/23 15:20	FIELD	Field*
Oxidation Reduction Potential	-60.0	mV		05/10/23 15:20	1	-500	05/10/23 15:20	FIELD	Field*
pH, Field Measured	6.93	pH Units		05/10/23 15:20	1		05/10/23 15:20	FIELD	Field*
Specific Conductance, Field Measured	1610	umhos/cm		05/10/23 15:20	1		05/10/23 15:20	FIELD	Field*
Temperature, Field Measured	71.9	°F		05/10/23 15:20	1		05/10/23 15:20	FIELD	Field*
Temperature, Field Measured	22.2	°C		05/10/23 15:20	1		05/10/23 15:20	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		05/10/23 15:20	1	0.00	05/10/23 15:20	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	700	mg/L		05/19/23 09:32	1	10	05/19/23 09:32	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/19/23 09:32	1	10	05/19/23 09:32	CPS	SM 2320B 1997*
Fluoride	0.269	mg/L		05/24/23 12:04	1	0.250	05/24/23 12:04	TTH	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1300	mg/L		05/17/23 11:18	1	26	05/17/23 17:16	HRF	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		05/15/23 12:00	5	3.0	05/22/23 15:57	JMW	EPA 6020A
Arsenic	28	ug/L		05/15/23 12:00	5	1.0	05/23/23 10:26	JMW	EPA 6020A
Barium	65	ug/L		05/15/23 12:00	5	1.0	05/23/23 10:26	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/15/23 12:00	5	1.0	05/22/23 15:57	JMW	EPA 6020A
Boron	1700	ug/L		05/15/23 12:00	5	10	05/23/23 10:26	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/15/23 12:00	5	1.0	05/23/23 10:26	JMW	EPA 6020A
Calcium	120	mg/L		05/15/23 12:00	5	0.20	05/23/23 10:26	JMW	EPA 6020A
Chromium	13	ug/L		05/15/23 12:00	5	4.0	05/23/23 10:26	JMW	EPA 6020A
Cobalt	3.6	ug/L		05/15/23 12:00	5	2.0	05/23/23 10:26	JMW	EPA 6020A
Lead	5.7	ug/L		05/15/23 12:00	5	1.0	05/22/23 15:57	JMW	EPA 6020A
Magnesium	59	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:26	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/15/23 12:00	5	0.20	05/22/23 15:57	JMW	EPA 6020A
Molybdenum	8.6	ug/L		05/15/23 12:00	5	1.0	05/23/23 10:26	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE02221-06

Name: OR13D

Matrix: Ground Water - Grab

Sampled: 05/10/23 15:20

Received: 05/10/23 17:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	5.5	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:26	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/15/23 12:00	5	1.0	05/23/23 10:26	JMW	EPA 6020A
Sodium	240	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:26	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/15/23 12:00	5	1.0	05/23/23 10:26	JMW	EPA 6020A
Lithium	0.030	mg/L		05/15/23 12:00	1	0.020	05/16/23 10:13	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE02221-07

Name: OM16

Matrix: Ground Water - Grab

Sampled: 05/10/23 13:50

Received: 05/10/23 17:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	8.2	mg/L		05/12/23 01:46	1	1.0	05/12/23 01:46	CRD	EPA 300.0 REV 2.1
Sulfate	2300	mg/L		05/12/23 02:07	500	500	05/12/23 02:07	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	23.07	Feet		05/10/23 13:50	1		05/10/23 13:50	FIELD	Field*
Dissolved oxygen, Field	1.2	mg/L		05/10/23 13:50	1		05/10/23 13:50	FIELD	Field*
Oxidation Reduction Potential	32.0	mV		05/10/23 13:50	1	-500	05/10/23 13:50	FIELD	Field*
pH, Field Measured	6.47	pH Units		05/10/23 13:50	1		05/10/23 13:50	FIELD	Field*
Specific Conductance, Field Measured	3470	umhos/cm		05/10/23 13:50	1		05/10/23 13:50	FIELD	Field*
Temperature, Field Measured	26.1	°C		05/10/23 13:50	1		05/10/23 13:50	FIELD	Field*
Temperature, Field Measured	79.0	°F		05/10/23 13:50	1		05/10/23 13:50	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		05/10/23 13:50	1	0.00	05/10/23 13:50	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	760	mg/L		05/19/23 09:32	1	10	05/19/23 09:32	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/19/23 09:32	1	10	05/19/23 09:32	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/24/23 12:05	1	0.250	05/24/23 12:05	TTH	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	4100	mg/L		05/17/23 11:18	1	26	05/17/23 17:16	HRF	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		05/15/23 12:00	5	3.0	05/22/23 16:00	JMW	EPA 6020A
Arsenic	8.7	ug/L		05/15/23 12:00	5	1.0	05/23/23 10:30	JMW	EPA 6020A
Barium	57	ug/L		05/15/23 12:00	5	1.0	05/23/23 10:30	JMW	EPA 6020A
Beryllium	2.7	ug/L		05/15/23 12:00	5	1.0	05/22/23 16:00	JMW	EPA 6020A
Boron	63	ug/L		05/15/23 12:00	5	10	05/23/23 10:30	JMW	EPA 6020A
Cadmium	3.1	ug/L		05/15/23 12:00	5	1.0	05/23/23 10:30	JMW	EPA 6020A
Calcium	640	mg/L		05/15/23 12:00	100	4.0	05/23/23 11:39	JMW	EPA 6020A
Chromium	14	ug/L		05/15/23 12:00	5	4.0	05/23/23 10:30	JMW	EPA 6020A
Cobalt	9.0	ug/L		05/15/23 12:00	5	2.0	05/23/23 10:30	JMW	EPA 6020A
Lead	5.4	ug/L		05/15/23 12:00	5	1.0	05/22/23 16:00	JMW	EPA 6020A
Magnesium	370	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:30	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/15/23 12:00	5	0.20	05/22/23 16:00	JMW	EPA 6020A
Molybdenum	5.0	ug/L		05/15/23 12:00	5	1.0	05/23/23 10:30	JMW	EPA 6020A



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2231 W. Altorfer Drive
Peoria, IL 61615
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ANALYTICAL RESULTS

Sample: GE02221-07

Name: OM16

Matrix: Ground Water - Grab

Sampled: 05/10/23 13:50

Received: 05/10/23 17:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	2.8	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:30	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/15/23 12:00	5	1.0	05/23/23 10:30	JMW	EPA 6020A
Sodium	25	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:30	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/15/23 12:00	5	1.0	05/23/23 10:30	JMW	EPA 6020A
Lithium	0.040	mg/L		05/15/23 12:00	1	0.020	05/16/23 10:14	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE02221-08

Sampled: 05/10/23 12:14

Name: OM17

Received: 05/10/23 17:20

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	2.9	mg/L		05/12/23 02:29	1	1.0	05/12/23 02:29	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		05/12/23 02:29	1	0.250	05/12/23 02:29	CRD	EPA 300.0 REV 2.1
Sulfate	240	mg/L		05/22/23 17:46	50	50	05/22/23 17:46	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	9.89	Feet		05/10/23 12:14	1		05/10/23 12:14	FIELD	Field*
Dissolved oxygen, Field	2.3	mg/L		05/10/23 12:14	1		05/10/23 12:14	FIELD	Field*
Oxidation Reduction Potential	17.0	mV		05/10/23 12:14	1	-500	05/10/23 12:14	FIELD	Field*
pH, Field Measured	6.66	pH Units		05/10/23 12:14	1		05/10/23 12:14	FIELD	Field*
Specific Conductance, Field Measured	923.0	umhos/cm		05/10/23 12:14	1		05/10/23 12:14	FIELD	Field*
Temperature, Field Measured	23.8	°C		05/10/23 12:14	1		05/10/23 12:14	FIELD	Field*
Temperature, Field Measured	74.8	°F		05/10/23 12:14	1		05/10/23 12:14	FIELD	Field*
Turbidity, Field Measured	375	NTU		05/10/23 12:14	1	0.00	05/10/23 12:14	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	390	mg/L		05/19/23 09:32	1	10	05/19/23 09:32	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/19/23 09:32	1	10	05/19/23 09:32	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	860	mg/L		05/17/23 11:18	1	26	05/17/23 17:16	HRF	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		05/15/23 12:00	5	3.0	05/22/23 16:03	JMW	EPA 6020A
Arsenic	2.5	ug/L		05/15/23 12:00	5	1.0	05/23/23 10:34	JMW	EPA 6020A
Barium	110	ug/L		05/15/23 12:00	5	1.0	05/23/23 10:34	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/15/23 12:00	5	1.0	05/22/23 16:03	JMW	EPA 6020A
Boron	160	ug/L		05/15/23 12:00	5	10	05/23/23 10:34	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/15/23 12:00	5	1.0	05/23/23 10:34	JMW	EPA 6020A
Calcium	160	mg/L		05/15/23 12:00	5	0.20	05/23/23 10:34	JMW	EPA 6020A
Chromium	11	ug/L		05/15/23 12:00	5	4.0	05/23/23 10:34	JMW	EPA 6020A
Cobalt	4.8	ug/L		05/15/23 12:00	5	2.0	05/23/23 10:34	JMW	EPA 6020A
Lead	3.9	ug/L		05/15/23 12:00	5	1.0	05/22/23 16:03	JMW	EPA 6020A
Magnesium	52	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:34	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/15/23 12:00	5	0.20	05/22/23 16:03	JMW	EPA 6020A
Molybdenum	1.3	ug/L		05/15/23 12:00	5	1.0	05/23/23 10:34	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE02221-08

Name: OM17

Matrix: Ground Water - Grab

Sampled: 05/10/23 12:14

Received: 05/10/23 17:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	5.7	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:34	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/15/23 12:00	5	1.0	05/23/23 10:34	JMW	EPA 6020A
Sodium	3.1	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:34	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/15/23 12:00	5	1.0	05/23/23 10:34	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/15/23 12:00	1	0.020	05/16/23 10:15	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE02767-02

Sampled: 05/12/23 12:19

Name: BA06

Received: 05/12/23 14:31

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	510	mg/L		05/13/23 04:17	100	100	05/13/23 04:17	CRD	EPA 300.0 REV 2.1
Sulfate	340	mg/L		05/13/23 04:17	100	100	05/13/23 04:17	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	21.7	Feet		05/12/23 12:19	1		05/12/23 12:19	FIELD	Field*
Dissolved oxygen, Field	0.82	mg/L		05/12/23 12:19	1		05/12/23 12:19	FIELD	Field*
Oxidation Reduction Potential	-39.0	mV		05/12/23 12:19	1	-500	05/12/23 12:19	FIELD	Field*
pH, Field Measured	6.44	pH Units		05/12/23 12:19	1		05/12/23 12:19	FIELD	Field*
Specific Conductance, Field Measured	2930	umhos/cm		05/12/23 12:19	1		05/12/23 12:19	FIELD	Field*
Temperature, Field Measured	15.7	°C		05/12/23 12:19	1		05/12/23 12:19	FIELD	Field*
Temperature, Field Measured	60.2	°F		05/12/23 12:19	1		05/12/23 12:19	FIELD	Field*
Turbidity, Field Measured	55.1	NTU		05/12/23 12:19	1	0.00	05/12/23 12:19	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	520	mg/L		05/23/23 10:23	1	10	05/23/23 10:23	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/23/23 10:23	1	10	05/23/23 10:23	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/24/23 11:13	1	0.250	05/24/23 11:13	TTH	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	2200	mg/L		05/18/23 17:03	1	26	05/18/23 17:42	HRF	SM 2540C
Soluble Nutrients - PIA									
Ammonia, Dissolved	< 0.10	mg/L		05/22/23 12:24	1	0.10	05/22/23 12:24	TTH	EPA 350.1 REV2
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/16/23 09:02	5	3.0	05/19/23 11:35	JMW	EPA 6020A
Arsenic	5.2	ug/L		05/16/23 09:02	5	1.0	05/19/23 11:35	JMW	EPA 6020A
Barium	110	ug/L		05/16/23 09:02	5	1.0	05/19/23 11:35	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/16/23 09:02	5	1.0	05/19/23 11:35	JMW	EPA 6020A
Boron	8700	ug/L		05/16/23 09:02	5	10	05/19/23 11:35	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/16/23 09:02	5	1.0	05/19/23 11:35	JMW	EPA 6020A
Calcium	340	mg/L		05/16/23 09:02	5	0.20	05/19/23 11:35	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/16/23 09:02	5	4.0	05/19/23 11:35	JMW	EPA 6020A
Cobalt	9.5	ug/L		05/16/23 09:02	5	2.0	05/19/23 11:35	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/16/23 09:02	5	1.0	05/19/23 11:35	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE02767-02

Name: BA06

Matrix: Ground Water - Grab

Sampled: 05/12/23 12:19

Received: 05/12/23 14:31

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Magnesium	210	mg/L		05/16/23 09:02	5	0.10	05/19/23 11:35	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/16/23 09:02	5	0.20	05/19/23 11:35	JMW	EPA 6020A
Molybdenum	1.2	ug/L		05/16/23 09:02	5	1.0	05/19/23 11:35	JMW	EPA 6020A
Potassium	0.57	mg/L		05/16/23 09:02	5	0.10	05/19/23 11:35	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/16/23 09:02	5	1.0	05/19/23 11:35	JMW	EPA 6020A
Sodium	18	mg/L		05/16/23 09:02	5	0.10	05/19/23 11:35	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/16/23 09:02	5	1.0	05/19/23 11:35	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/16/23 09:02	1	0.020	05/16/23 12:35	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE02997-09

Sampled: 05/15/23 13:14

Name: OM25S

Received: 05/16/23 06:50

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	560	mg/L		05/16/23 18:23	100	100	05/16/23 18:23	CRD	EPA 300.0 REV 2.1
Sulfate	690	mg/L		05/16/23 18:23	100	100	05/16/23 18:23	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	57.83	Feet		05/15/23 13:14	1		05/15/23 13:14	FIELD	Field*
Dissolved oxygen, Field	5.3	mg/L		05/15/23 13:14	1		05/15/23 13:14	FIELD	Field*
Oxidation Reduction Potential	2.00	mV		05/15/23 13:14	1	-500	05/15/23 13:14	FIELD	Field*
pH, Field Measured	6.92	pH Units		05/15/23 13:14	1		05/15/23 13:14	FIELD	Field*
Specific Conductance, Field Measured	3280	umhos/cm		05/15/23 13:14	1		05/15/23 13:14	FIELD	Field*
Temperature, Field Measured	13.5	°C		05/15/23 13:14	1		05/15/23 13:14	FIELD	Field*
Temperature, Field Measured	56.4	°F		05/15/23 13:14	1		05/15/23 13:14	FIELD	Field*
Turbidity, Field Measured	726	NTU		05/15/23 13:14	1	0.00	05/15/23 13:14	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	510	mg/L		05/24/23 09:25	1	10	05/24/23 09:25	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/24/23 09:25	1	10	05/24/23 09:25	CPS	SM 2320B 1997*
Fluoride	0.378	mg/L		05/24/23 11:25	1	0.250	05/24/23 11:25	TTH	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	2700	mg/L		05/19/23 12:22	1	26	05/19/23 13:18	HRF	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		05/22/23 09:08	5	3.0	05/24/23 15:47	JMW	EPA 6020A
Arsenic	45	ug/L		05/22/23 09:08	5	1.0	05/23/23 21:50	JMW	EPA 6020A
Barium	400	ug/L		05/22/23 09:08	100	20	05/24/23 13:10	JMW	EPA 6020A
Beryllium	4.5	ug/L		05/22/23 09:08	5	1.0	05/23/23 21:50	JMW	EPA 6020A
Boron	28000	ug/L		05/22/23 09:08	100	200	05/24/23 13:10	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 21:50	JMW	EPA 6020A
Calcium	460	mg/L		05/22/23 09:08	5	0.20	05/23/23 21:50	JMW	EPA 6020A
Chromium	130	ug/L		05/22/23 09:08	5	4.0	05/23/23 21:50	JMW	EPA 6020A
Cobalt	78	ug/L		05/22/23 09:08	5	2.0	05/23/23 21:50	JMW	EPA 6020A
Lead	82	ug/L		05/22/23 09:08	5	1.0	05/24/23 15:47	JMW	EPA 6020A
Magnesium	270	mg/L		05/22/23 09:08	5	0.10	05/23/23 21:50	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/22/23 09:08	5	0.20	05/24/23 15:47	JMW	EPA 6020A
Molybdenum	8.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 21:50	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE02997-09

Name: OM25S

Matrix: Ground Water - Grab

Sampled: 05/15/23 13:14

Received: 05/16/23 06:50

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	18	mg/L		05/22/23 09:08	5	0.10	05/23/23 21:50	JMW	EPA 6020A
Selenium	4.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 21:50	JMW	EPA 6020A
Sodium	130	mg/L		05/22/23 09:08	100	2.0	05/24/23 13:10	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/24/23 15:47	JMW	EPA 6020A
Lithium	0.18	mg/L		05/22/23 09:08	1	0.020	05/23/23 10:06	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE02997-10

Sampled: 05/15/23 14:05

Name: OM12

Received: 05/16/23 06:50

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	< 5.0	mg/L		05/16/23 18:59	5	5.0	05/16/23 18:59	CRD	EPA 300.0 REV 2.1
Sulfate	430	mg/L		05/16/23 19:17	100	100	05/16/23 19:17	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	15.8	Feet		05/15/23 14:05	1		05/15/23 14:05	FIELD	Field*
Dissolved oxygen, Field	0.85	mg/L		05/15/23 14:05	1		05/15/23 14:05	FIELD	Field*
Oxidation Reduction Potential	-56.5	mV		05/15/23 14:05	1	-500	05/15/23 14:05	FIELD	Field*
pH, Field Measured	6.65	pH Units		05/15/23 14:05	1		05/15/23 14:05	FIELD	Field*
Specific Conductance, Field Measured	2034	umhos/cm		05/15/23 14:05	1		05/15/23 14:05	FIELD	Field*
Temperature, Field Measured	16.5	°C		05/15/23 14:05	1		05/15/23 14:05	FIELD	Field*
Temperature, Field Measured	61.7	°F		05/15/23 14:05	1		05/15/23 14:05	FIELD	Field*
Turbidity, Field Measured	186	NTU		05/15/23 14:05	1	0.00	05/15/23 14:05	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	840	mg/L		05/24/23 09:25	1	10	05/24/23 09:25	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/24/23 09:25	1	10	05/24/23 09:25	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/24/23 11:27	1	0.250	05/24/23 11:27	TTH	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1500	mg/L		05/19/23 12:22	1	26	05/19/23 13:18	HRF	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		05/22/23 09:08	5	3.0	05/24/23 13:14	JMW	EPA 6020A
Arsenic	26	ug/L		05/22/23 09:08	5	1.0	05/23/23 21:53	JMW	EPA 6020A
Barium	280	ug/L		05/22/23 09:08	5	1.0	05/24/23 13:14	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 21:53	JMW	EPA 6020A
Boron	93	ug/L		05/22/23 09:08	5	10	05/24/23 13:14	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 21:53	JMW	EPA 6020A
Calcium	310	mg/L		05/22/23 09:08	5	0.20	05/23/23 21:53	JMW	EPA 6020A
Chromium	8.7	ug/L		05/22/23 09:08	5	4.0	05/23/23 21:53	JMW	EPA 6020A
Cobalt	3.2	ug/L		05/22/23 09:08	5	2.0	05/23/23 21:53	JMW	EPA 6020A
Lead	4.1	ug/L		05/22/23 09:08	5	1.0	05/24/23 13:14	JMW	EPA 6020A
Magnesium	120	mg/L		05/22/23 09:08	5	0.10	05/23/23 21:53	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/22/23 09:08	5	0.20	05/24/23 15:51	JMW	EPA 6020A
Molybdenum	3.9	ug/L		05/22/23 09:08	5	1.0	05/23/23 21:53	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE02997-10

Name: OM12

Matrix: Ground Water - Grab

Sampled: 05/15/23 14:05

Received: 05/16/23 06:50

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	1.5	mg/L		05/22/23 09:08	5	0.10	05/24/23 13:14	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 21:53	JMW	EPA 6020A
Sodium	14	mg/L		05/22/23 09:08	5	0.10	05/24/23 13:14	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/24/23 13:14	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/22/23 09:08	1	0.020	05/23/23 10:07	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE02997-11

Sampled: 05/15/23 13:24

Name: OM21

Received: 05/16/23 06:50

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	220	mg/L	Q4	05/16/23 21:06	50	50	05/16/23 21:06	CRD	EPA 300.0 REV 2.1
Sulfate	1200	mg/L	Q4	05/16/23 21:24	250	250	05/16/23 21:24	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	8.65	Feet		05/15/23 13:24	1		05/15/23 13:24	FIELD	Field*
Dissolved oxygen, Field	1.7	mg/L		05/15/23 13:24	1		05/15/23 13:24	FIELD	Field*
Oxidation Reduction Potential	-29.0	mV		05/15/23 13:24	1	-500	05/15/23 13:24	FIELD	Field*
pH, Field Measured	6.51	pH Units		05/15/23 13:24	1		05/15/23 13:24	FIELD	Field*
Specific Conductance, Field Measured	3620	umhos/cm		05/15/23 13:24	1		05/15/23 13:24	FIELD	Field*
Temperature, Field Measured	13.6	°C		05/15/23 13:24	1		05/15/23 13:24	FIELD	Field*
Temperature, Field Measured	56.4	°F		05/15/23 13:24	1		05/15/23 13:24	FIELD	Field*
Turbidity, Field Measured	118	NTU		05/15/23 13:24	1	0.00	05/15/23 13:24	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	620	mg/L		05/24/23 09:25	1	10	05/24/23 09:25	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/24/23 09:25	1	10	05/24/23 09:25	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/24/23 11:32	1	0.250	05/24/23 11:32	TTH	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	2800	mg/L		05/19/23 12:22	1	26	05/19/23 13:18	HRF	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		05/22/23 09:08	5	3.0	05/24/23 14:04	JMW	EPA 6020A
Arsenic	2.7	ug/L		05/22/23 09:08	5	1.0	05/23/23 21:57	JMW	EPA 6020A
Barium	21	ug/L		05/22/23 09:08	100	20	05/24/23 13:18	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 21:57	JMW	EPA 6020A
Boron	11000	ug/L		05/22/23 09:08	100	200	05/24/23 13:18	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 21:57	JMW	EPA 6020A
Calcium	430	mg/L		05/22/23 09:08	5	0.20	05/23/23 21:57	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/22/23 09:08	5	4.0	05/23/23 21:57	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/22/23 09:08	5	2.0	05/23/23 21:57	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/24/23 14:04	JMW	EPA 6020A
Magnesium	200	mg/L		05/22/23 09:08	5	0.10	05/23/23 21:57	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/22/23 09:08	5	0.20	05/24/23 14:04	JMW	EPA 6020A
Molybdenum	1.6	ug/L		05/22/23 09:08	5	1.0	05/23/23 21:57	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE02997-11

Name: OM21

Matrix: Ground Water - Grab

Sampled: 05/15/23 13:24

Received: 05/16/23 06:50

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	9.2	mg/L		05/22/23 09:08	5	0.10	05/24/23 14:04	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 21:57	JMW	EPA 6020A
Sodium	220	mg/L		05/22/23 09:08	100	2.0	05/24/23 13:18	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/24/23 14:04	JMW	EPA 6020A
Lithium	0.032	mg/L		05/22/23 09:08	1	0.020	05/23/23 10:08	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE02997-12

Sampled: 05/15/23 16:00

Name: OM23D

Received: 05/16/23 06:50

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	24	mg/L		05/16/23 22:00	10	10	05/16/23 22:00	CRD	EPA 300.0 REV 2.1
Sulfate	380	mg/L		05/16/23 22:18	100	100	05/16/23 22:18	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	37.83	Feet		05/15/23 16:00	1		05/15/23 16:00	FIELD	Field*
Dissolved oxygen, Field	2.2	mg/L		05/15/23 16:00	1		05/15/23 16:00	FIELD	Field*
Oxidation Reduction Potential	-25.0	mV		05/15/23 16:00	1	-500	05/15/23 16:00	FIELD	Field*
pH, Field Measured	7.12	pH Units		05/15/23 16:00	1		05/15/23 16:00	FIELD	Field*
Specific Conductance, Field Measured	1670	umhos/cm		05/15/23 16:00	1		05/15/23 16:00	FIELD	Field*
Temperature, Field Measured	55.6	°F		05/15/23 16:00	1		05/15/23 16:00	FIELD	Field*
Temperature, Field Measured	13.1	°C		05/15/23 16:00	1		05/15/23 16:00	FIELD	Field*
Turbidity, Field Measured	75.3	NTU		05/15/23 16:00	1	0.00	05/15/23 16:00	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	620	mg/L		05/24/23 09:25	1	10	05/24/23 09:25	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/24/23 09:25	1	10	05/24/23 09:25	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/24/23 11:34	1	0.250	05/24/23 11:34	TTH	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1200	mg/L		05/19/23 12:22	1	26	05/19/23 13:18	HRF	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		05/22/23 09:08	5	3.0	05/24/23 13:22	JMW	EPA 6020A
Arsenic	1.8	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:01	JMW	EPA 6020A
Barium	30	ug/L		05/22/23 09:08	5	1.0	05/24/23 13:22	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:01	JMW	EPA 6020A
Boron	1900	ug/L		05/22/23 09:08	5	10	05/24/23 13:22	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:01	JMW	EPA 6020A
Calcium	170	mg/L		05/22/23 09:08	5	0.20	05/23/23 22:01	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/22/23 09:08	5	4.0	05/23/23 22:01	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/22/23 09:08	5	2.0	05/23/23 22:01	JMW	EPA 6020A
Lead	1.0	ug/L		05/22/23 09:08	5	1.0	05/24/23 13:22	JMW	EPA 6020A
Magnesium	100	mg/L		05/22/23 09:08	5	0.10	05/23/23 22:01	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/22/23 09:08	5	0.20	05/24/23 13:22	JMW	EPA 6020A
Molybdenum	2.4	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:01	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE02997-12

Sampled: 05/15/23 16:00

Name: OM23D

Received: 05/16/23 06:50

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	5.7	mg/L		05/22/23 09:08	5	0.10	05/23/23 22:01	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:01	JMW	EPA 6020A
Sodium	110	mg/L		05/22/23 09:08	5	0.10	05/24/23 13:22	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/24/23 13:22	JMW	EPA 6020A
Lithium	0.036	mg/L		05/22/23 09:08	1	0.020	05/23/23 10:10	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE02997-13

Sampled: 05/15/23 12:33

Name: OR11

Received: 05/16/23 06:50

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	63	mg/L		05/16/23 22:54	25	25	05/16/23 22:54	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		05/16/23 22:36	1	0.250	05/16/23 22:36	CRD	EPA 300.0 REV 2.1
Sulfate	150	mg/L		05/16/23 22:54	25	25	05/16/23 22:54	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	30.74	Feet		05/15/23 12:33	1		05/15/23 12:33	FIELD	Field*
Dissolved oxygen, Field	1.1	mg/L		05/15/23 12:33	1		05/15/23 12:33	FIELD	Field*
Oxidation Reduction Potential	-11.6	mV		05/15/23 12:33	1	-500	05/15/23 12:33	FIELD	Field*
pH, Field Measured	7.04	pH Units		05/15/23 12:33	1		05/15/23 12:33	FIELD	Field*
Specific Conductance, Field Measured	1068	umhos/cm		05/15/23 12:33	1		05/15/23 12:33	FIELD	Field*
Temperature, Field Measured	61.2	°F		05/15/23 12:33	1		05/15/23 12:33	FIELD	Field*
Temperature, Field Measured	16.2	°C		05/15/23 12:33	1		05/15/23 12:33	FIELD	Field*
Turbidity, Field Measured	217	NTU		05/15/23 12:33	1	0.00	05/15/23 12:33	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	390	mg/L		05/24/23 09:25	1	10	05/24/23 09:25	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/24/23 09:25	1	10	05/24/23 09:25	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	790	mg/L		05/19/23 12:22	1	26	05/19/23 13:18	HRF	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		05/22/23 09:08	5	3.0	05/24/23 14:12	JMW	EPA 6020A
Arsenic	2.6	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:05	JMW	EPA 6020A
Barium	50	ug/L		05/22/23 09:08	5	1.0	05/24/23 14:12	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:05	JMW	EPA 6020A
Boron	7200	ug/L		05/22/23 09:08	5	10	05/24/23 14:12	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:05	JMW	EPA 6020A
Calcium	150	mg/L		05/22/23 09:08	5	0.20	05/23/23 22:05	JMW	EPA 6020A
Chromium	4.4	ug/L		05/22/23 09:08	5	4.0	05/23/23 22:05	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/22/23 09:08	5	2.0	05/23/23 22:05	JMW	EPA 6020A
Lead	1.8	ug/L		05/22/23 09:08	5	1.0	05/24/23 14:12	JMW	EPA 6020A
Magnesium	61	mg/L		05/22/23 09:08	5	0.10	05/23/23 22:05	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/22/23 09:08	5	0.20	05/24/23 14:12	JMW	EPA 6020A
Molybdenum	8.9	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:05	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE02997-13

Name: OR11

Matrix: Ground Water - Grab

Sampled: 05/15/23 12:33

Received: 05/16/23 06:50

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	4.4	mg/L		05/22/23 09:08	5	0.10	05/23/23 22:05	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:05	JMW	EPA 6020A
Sodium	25	mg/L		05/22/23 09:08	5	0.10	05/24/23 14:12	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/24/23 14:12	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/22/23 09:08	1	0.020	05/23/23 10:11	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE02997-14

Sampled: 05/15/23 11:35

Name: OR14D

Received: 05/16/23 06:50

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	270	mg/L		05/17/23 00:25	100	100	05/17/23 00:25	CRD	EPA 300.0 REV 2.1
Sulfate	850	mg/L		05/17/23 00:25	100	100	05/17/23 00:25	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	8.83	Feet		05/15/23 11:35	1		05/15/23 11:35	FIELD	Field*
Dissolved oxygen, Field	5.0	mg/L		05/15/23 11:35	1		05/15/23 11:35	FIELD	Field*
Oxidation Reduction Potential	44.0	mV		05/15/23 11:35	1	-500	05/15/23 11:35	FIELD	Field*
pH, Field Measured	6.53	pH Units		05/15/23 11:35	1		05/15/23 11:35	FIELD	Field*
Specific Conductance, Field Measured	2630	umhos/cm		05/15/23 11:35	1		05/15/23 11:35	FIELD	Field*
Temperature, Field Measured	15.1	°C		05/15/23 11:35	1		05/15/23 11:35	FIELD	Field*
Temperature, Field Measured	59.1	°F		05/15/23 11:35	1		05/15/23 11:35	FIELD	Field*
Turbidity, Field Measured	184	NTU		05/15/23 11:35	1	0.00	05/15/23 11:35	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	450	mg/L		05/24/23 09:25	1	10	05/24/23 09:25	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/24/23 09:25	1	10	05/24/23 09:25	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/24/23 11:35	1	0.250	05/24/23 11:35	TTH	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	2200	mg/L		05/19/23 12:22	1	26	05/19/23 13:18	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/22/23 09:08	5	3.0	05/24/23 14:16	JMW	EPA 6020A
Arsenic	5.4	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:09	JMW	EPA 6020A
Barium	31	ug/L		05/22/23 09:08	5	1.0	05/24/23 14:16	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:09	JMW	EPA 6020A
Boron	20000	ug/L		05/22/23 09:08	100	200	05/25/23 11:05	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:09	JMW	EPA 6020A
Calcium	430	mg/L		05/22/23 09:08	5	0.20	05/23/23 22:09	JMW	EPA 6020A
Chromium	4.9	ug/L		05/22/23 09:08	5	4.0	05/23/23 22:09	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/22/23 09:08	5	2.0	05/23/23 22:09	JMW	EPA 6020A
Lead	3.2	ug/L		05/22/23 09:08	5	1.0	05/24/23 14:16	JMW	EPA 6020A
Magnesium	130	mg/L		05/22/23 09:08	5	0.10	05/23/23 22:09	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/22/23 09:08	5	0.20	05/24/23 14:16	JMW	EPA 6020A
Molybdenum	6.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:09	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE02997-14

Name: OR14D

Matrix: Ground Water - Grab

Sampled: 05/15/23 11:35

Received: 05/16/23 06:50

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	4.9	mg/L		05/22/23 09:08	5	0.10	05/23/23 22:09	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:09	JMW	EPA 6020A
Sodium	48	mg/L		05/22/23 09:08	5	0.10	05/24/23 14:16	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/24/23 14:16	JMW	EPA 6020A
Lithium	0.020	mg/L		05/22/23 09:08	1	0.020	05/23/23 10:12	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE02997-15

Sampled: 05/15/23 15:28

Name: OR19

Received: 05/16/23 06:50

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	160	mg/L		05/17/23 01:22	100	100	05/17/23 01:22	CRD	EPA 300.0 REV 2.1
Fluoride	0.451	mg/L		05/17/23 00:44	1	0.250	05/17/23 00:44	CRD	EPA 300.0 REV 2.1
Sulfate	940	mg/L		05/17/23 01:22	100	100	05/17/23 01:22	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	24.7	Feet		05/15/23 15:28	1		05/15/23 15:28	FIELD	Field*
Dissolved oxygen, Field	0.78	mg/L		05/15/23 15:28	1		05/15/23 15:28	FIELD	Field*
Oxidation Reduction Potential	-35.6	mV		05/15/23 15:28	1	-500	05/15/23 15:28	FIELD	Field*
pH, Field Measured	6.75	pH Units		05/15/23 15:28	1		05/15/23 15:28	FIELD	Field*
Specific Conductance, Field Measured	2622	umhos/cm		05/15/23 15:28	1		05/15/23 15:28	FIELD	Field*
Temperature, Field Measured	64.7	°F		05/15/23 15:28	1		05/15/23 15:28	FIELD	Field*
Temperature, Field Measured	18.2	°C		05/15/23 15:28	1		05/15/23 15:28	FIELD	Field*
Turbidity, Field Measured	356	NTU		05/15/23 15:28	1	0.00	05/15/23 15:28	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	600	mg/L		05/24/23 09:25	1	10	05/24/23 09:25	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/24/23 09:25	1	10	05/24/23 09:25	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	2400	mg/L		05/19/23 12:22	1	26	05/19/23 13:18	HRF	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		05/22/23 09:08	5	3.0	05/24/23 14:20	JMW	EPA 6020A
Arsenic	1.4	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:12	JMW	EPA 6020A
Barium	25	ug/L		05/22/23 09:08	5	1.0	05/24/23 14:20	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:12	JMW	EPA 6020A
Boron	17000	ug/L		05/22/23 09:08	100	200	05/25/23 11:09	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:12	JMW	EPA 6020A
Calcium	330	mg/L		05/22/23 09:08	5	0.20	05/23/23 22:12	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/22/23 09:08	5	4.0	05/23/23 22:12	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/22/23 09:08	5	2.0	05/23/23 22:12	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/24/23 14:20	JMW	EPA 6020A
Magnesium	160	mg/L		05/22/23 09:08	5	0.10	05/23/23 22:12	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/22/23 09:08	5	0.20	05/24/23 14:20	JMW	EPA 6020A
Molybdenum	3.7	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:12	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE02997-15

Name: OR19

Matrix: Ground Water - Grab

Sampled: 05/15/23 15:28

Received: 05/16/23 06:50

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	5.2	mg/L		05/22/23 09:08	5	0.10	05/23/23 22:12	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:12	JMW	EPA 6020A
Sodium	150	mg/L		05/22/23 09:08	5	0.10	05/24/23 14:20	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/24/23 14:20	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/22/23 09:08	1	0.020	05/23/23 10:42	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE02997-16

Sampled: 05/15/23 11:10

Name: OR20

Received: 05/16/23 06:50

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	370	mg/L		05/17/23 02:18	100	100	05/17/23 02:18	CRD	EPA 300.0 REV 2.1
Fluoride	0.416	mg/L		05/17/23 01:41	1	0.250	05/17/23 01:41	CRD	EPA 300.0 REV 2.1
Sulfate	430	mg/L		05/17/23 02:18	100	100	05/17/23 02:18	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	21.25	Feet		05/15/23 11:10	1		05/15/23 11:10	FIELD	Field*
Dissolved oxygen, Field	0.99	mg/L		05/15/23 11:10	1		05/15/23 11:10	FIELD	Field*
Oxidation Reduction Potential	1.90	mV		05/15/23 11:10	1	-500	05/15/23 11:10	FIELD	Field*
pH, Field Measured	6.92	pH Units		05/15/23 11:10	1		05/15/23 11:10	FIELD	Field*
Specific Conductance, Field Measured	2592	umhos/cm		05/15/23 11:10	1		05/15/23 11:10	FIELD	Field*
Temperature, Field Measured	16.5	°C		05/15/23 11:10	1		05/15/23 11:10	FIELD	Field*
Temperature, Field Measured	61.8	°F		05/15/23 11:10	1		05/15/23 11:10	FIELD	Field*
Turbidity, Field Measured	170	NTU		05/15/23 11:10	1	0.00	05/15/23 11:10	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	500	mg/L		05/24/23 09:25	1	10	05/24/23 09:25	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/24/23 09:25	1	10	05/24/23 09:25	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1800	mg/L		05/19/23 12:22	1	26	05/19/23 13:18	HRF	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		05/22/23 09:08	5	3.0	05/24/23 14:23	JMW	EPA 6020A
Arsenic	7.9	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:16	JMW	EPA 6020A
Barium	37	ug/L		05/22/23 09:08	5	1.0	05/24/23 14:23	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:16	JMW	EPA 6020A
Boron	41000	ug/L		05/22/23 09:08	100	200	05/25/23 11:13	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:16	JMW	EPA 6020A
Calcium	250	mg/L		05/22/23 09:08	5	0.20	05/23/23 22:16	JMW	EPA 6020A
Chromium	6.4	ug/L		05/22/23 09:08	5	4.0	05/23/23 22:16	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/22/23 09:08	5	2.0	05/23/23 22:16	JMW	EPA 6020A
Lead	1.6	ug/L		05/22/23 09:08	5	1.0	05/24/23 14:23	JMW	EPA 6020A
Magnesium	100	mg/L		05/22/23 09:08	5	0.10	05/23/23 22:16	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/22/23 09:08	5	0.20	05/24/23 14:23	JMW	EPA 6020A
Molybdenum	39	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:16	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE02997-16

Name: OR20

Matrix: Ground Water - Grab

Sampled: 05/15/23 11:10

Received: 05/16/23 06:50

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	9.2	mg/L		05/22/23 09:08	5	0.10	05/23/23 22:16	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/23/23 22:16	JMW	EPA 6020A
Sodium	180	mg/L		05/22/23 09:08	5	0.10	05/24/23 14:23	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/22/23 09:08	5	1.0	05/24/23 14:23	JMW	EPA 6020A
Lithium	0.040	mg/L		05/22/23 09:08	1	0.020	05/23/23 10:44	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE03266-02

Sampled: 05/16/23 10:48

Name: OM01

Received: 05/16/23 17:47

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	29	mg/L		05/17/23 11:44	10	10	05/17/23 11:44	CRD	EPA 300.0 REV 2.1
Sulfate	1900	mg/L		05/17/23 12:02	250	250	05/17/23 12:02	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	10.6	Feet		05/16/23 10:48	1		05/16/23 10:48	FIELD	Field*
Dissolved oxygen, Field	6.2	mg/L		05/16/23 10:48	1		05/16/23 10:48	FIELD	Field*
Oxidation Reduction Potential	129	mV		05/16/23 10:48	1	-500	05/16/23 10:48	FIELD	Field*
pH, Field Measured	6.31	pH Units		05/16/23 10:48	1		05/16/23 10:48	FIELD	Field*
Specific Conductance, Field Measured	3350	umhos/cm		05/16/23 10:48	1		05/16/23 10:48	FIELD	Field*
Temperature, Field Measured	66.2	°F		05/16/23 10:48	1		05/16/23 10:48	FIELD	Field*
Temperature, Field Measured	19.0	°C		05/16/23 10:48	1		05/16/23 10:48	FIELD	Field*
Turbidity, Field Measured	117	NTU		05/16/23 10:48	1	0.00	05/16/23 10:48	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	550	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/24/23 11:36	1	0.250	05/24/23 11:36	TTH	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	3300	mg/L		05/23/23 16:50	1	26	05/23/23 17:49	HRF	SM 2540C
Soluble Nutrients - PIA									
Ammonia, Dissolved	< 0.10	mg/L		05/22/23 12:50	1	0.10	05/22/23 12:50	TTH	EPA 350.1 REV2
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/22/23 09:19	5	3.0	05/30/23 09:19	JMW	EPA 6020A
Arsenic	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 10:36	JMW	EPA 6020A
Barium	19	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:19	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:19	JMW	EPA 6020A
Boron	210	ug/L		05/22/23 09:19	5	10	05/26/23 10:36	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 10:36	JMW	EPA 6020A
Calcium	690	mg/L		05/22/23 09:19	100	4.0	05/26/23 12:09	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/22/23 09:19	5	4.0	05/26/23 10:36	JMW	EPA 6020A
Cobalt	14	ug/L		05/22/23 09:19	5	2.0	05/26/23 10:36	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:19	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE03266-02

Name: OM01

Matrix: Ground Water - Grab

Sampled: 05/16/23 10:48

Received: 05/16/23 17:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Magnesium	290	mg/L		05/22/23 09:19	5	0.10	05/26/23 10:36	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/22/23 09:19	5	0.20	05/30/23 09:19	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 10:36	JMW	EPA 6020A
Potassium	1.0	mg/L		05/22/23 09:19	5	0.10	05/26/23 10:36	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 10:36	JMW	EPA 6020A
Sodium	33	mg/L		05/22/23 09:19	5	0.10	05/26/23 10:36	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:19	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/22/23 09:19	1	0.020	05/23/23 10:51	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE03266-03

Sampled: 05/16/23 12:15

Name: OM04S

Received: 05/16/23 17:47

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	17	mg/L		05/17/23 12:38	10	10	05/17/23 12:38	CRD	EPA 300.0 REV 2.1
Sulfate	140	mg/L		05/17/23 12:57	100	100	05/17/23 12:57	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	17.74	Feet		05/16/23 12:15	1		05/16/23 12:15	FIELD	Field*
Dissolved oxygen, Field	0.89	mg/L		05/16/23 12:15	1		05/16/23 12:15	FIELD	Field*
Oxidation Reduction Potential	81.2	mV		05/16/23 12:15	1	-500	05/16/23 12:15	FIELD	Field*
pH, Field Measured	6.73	pH Units		05/16/23 12:15	1		05/16/23 12:15	FIELD	Field*
Specific Conductance, Field Measured	1193	umhos/cm		05/16/23 12:15	1		05/16/23 12:15	FIELD	Field*
Temperature, Field Measured	18.3	°C		05/16/23 12:15	1		05/16/23 12:15	FIELD	Field*
Temperature, Field Measured	65.0	°F		05/16/23 12:15	1		05/16/23 12:15	FIELD	Field*
Turbidity, Field Measured	194	NTU		05/16/23 12:15	1	0.00	05/16/23 12:15	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	540	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/24/23 11:39	1	0.250	05/24/23 11:39	TTH	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	740	mg/L		05/23/23 16:50	1	26	05/23/23 17:49	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/22/23 09:19	5	3.0	05/30/23 09:21	JMW	EPA 6020A
Arsenic	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 10:40	JMW	EPA 6020A
Barium	45	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:21	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:21	JMW	EPA 6020A
Boron	95	ug/L		05/22/23 09:19	5	10	05/26/23 10:40	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 10:40	JMW	EPA 6020A
Calcium	160	mg/L		05/22/23 09:19	5	0.20	05/26/23 10:40	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/22/23 09:19	5	4.0	05/26/23 10:40	JMW	EPA 6020A
Cobalt	3.9	ug/L		05/22/23 09:19	5	2.0	05/26/23 10:40	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:21	JMW	EPA 6020A
Magnesium	77	mg/L		05/22/23 09:19	5	0.10	05/26/23 10:40	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/22/23 09:19	5	0.20	05/30/23 09:21	JMW	EPA 6020A
Molybdenum	1.5	ug/L		05/22/23 09:19	5	1.0	05/26/23 10:40	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE03266-03

Name: OM04S

Matrix: Ground Water - Grab

Sampled: 05/16/23 12:15

Received: 05/16/23 17:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	0.64	mg/L		05/22/23 09:19	5	0.10	05/26/23 10:40	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 10:40	JMW	EPA 6020A
Sodium	15	mg/L		05/22/23 09:19	5	0.10	05/26/23 10:40	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:21	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/22/23 09:19	1	0.020	05/23/23 10:52	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE03266-04

Sampled: 05/16/23 14:58

Name: OM24D

Received: 05/16/23 17:47

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	370	mg/L		05/17/23 14:27	100	100	05/17/23 14:27	CRD	EPA 300.0 REV 2.1
Fluoride	0.354	mg/L		05/17/23 13:51	1	0.250	05/17/23 13:51	CRD	EPA 300.0 REV 2.1
Sulfate	830	mg/L		05/17/23 14:27	100	100	05/17/23 14:27	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	2.65	Feet		05/16/23 14:58	1		05/16/23 14:58	FIELD	Field*
Dissolved oxygen, Field	1.2	mg/L		05/16/23 14:58	1		05/16/23 14:58	FIELD	Field*
Oxidation Reduction Potential	-17.0	mV		05/16/23 14:58	1	-500	05/16/23 14:58	FIELD	Field*
pH, Field Measured	6.79	pH Units		05/16/23 14:58	1		05/16/23 14:58	FIELD	Field*
Specific Conductance, Field Measured	3005	umhos/cm		05/16/23 14:58	1		05/16/23 14:58	FIELD	Field*
Temperature, Field Measured	19.1	°C		05/16/23 14:58	1		05/16/23 14:58	FIELD	Field*
Temperature, Field Measured	66.4	°F		05/16/23 14:58	1		05/16/23 14:58	FIELD	Field*
Turbidity, Field Measured	639	NTU		05/16/23 14:58	1	0.00	05/16/23 14:58	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	410	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	2300	mg/L		05/23/23 16:50	1	26	05/23/23 17:49	HRF	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		05/22/23 09:19	5	3.0	05/30/23 09:23	JMW	EPA 6020A
Arsenic	12	ug/L		05/22/23 09:19	5	1.0	05/26/23 10:44	JMW	EPA 6020A
Barium	20	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:23	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:23	JMW	EPA 6020A
Boron	22000	ug/L		05/22/23 09:19	100	200	05/26/23 12:13	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 10:44	JMW	EPA 6020A
Calcium	410	mg/L		05/22/23 09:19	5	0.20	05/26/23 10:44	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/22/23 09:19	5	4.0	05/26/23 10:44	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/22/23 09:19	5	2.0	05/26/23 10:44	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:23	JMW	EPA 6020A
Magnesium	140	mg/L		05/22/23 09:19	5	0.10	05/26/23 10:44	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/22/23 09:19	5	0.20	05/30/23 09:23	JMW	EPA 6020A
Molybdenum	5.7	ug/L		05/22/23 09:19	5	1.0	05/26/23 10:44	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE03266-04

Name: OM24D

Matrix: Ground Water - Grab

Sampled: 05/16/23 14:58

Received: 05/16/23 17:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	3.9	mg/L		05/22/23 09:19	5	0.10	05/26/23 10:44	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 10:44	JMW	EPA 6020A
Sodium	100	mg/L		05/22/23 09:19	5	0.10	05/26/23 10:44	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:23	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/22/23 09:19	1	0.020	05/23/23 10:53	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE03266-05
Name: OM24D DUP
Matrix: Ground Water - Field Duplicate

Sampled: 05/16/23 14:58
Received: 05/16/23 17:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	370	mg/L		05/17/23 15:21	100	100	05/17/23 15:21	CRD	EPA 300.0 REV 2.1
Fluoride	0.449	mg/L		05/17/23 14:45	1	0.250	05/17/23 14:45	CRD	EPA 300.0 REV 2.1
Sulfate	840	mg/L		05/17/23 15:21	100	100	05/17/23 15:21	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	2.65	Feet		05/16/23 14:58	1		05/16/23 14:58	FIELD	Field*
Dissolved oxygen, Field	1.2	mg/L		05/16/23 14:58	1		05/16/23 14:58	FIELD	Field*
Oxidation Reduction Potential	-17.0	mV		05/16/23 14:58	1	-500	05/16/23 14:58	FIELD	Field*
pH, Field Measured	6.79	pH Units		05/16/23 14:58	1		05/16/23 14:58	FIELD	Field*
Specific Conductance, Field Measured	3005	umhos/cm		05/16/23 14:58	1		05/16/23 14:58	FIELD	Field*
Temperature, Field Measured	66.4	°F		05/16/23 14:58	1		05/16/23 14:58	FIELD	Field*
Temperature, Field Measured	19.1	°C		05/16/23 14:58	1		05/16/23 14:58	FIELD	Field*
Turbidity, Field Measured	639	NTU		05/16/23 14:58	1	0.00	05/16/23 14:58	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	420	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	2400	mg/L		05/23/23 16:50	1	26	05/23/23 17:49	HRF	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		05/22/23 09:19	5	3.0	05/30/23 09:26	JMW	EPA 6020A
Arsenic	11	ug/L		05/22/23 09:19	5	1.0	05/26/23 10:48	JMW	EPA 6020A
Barium	19	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:26	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:26	JMW	EPA 6020A
Boron	22000	ug/L		05/22/23 09:19	100	200	05/26/23 12:16	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 10:48	JMW	EPA 6020A
Calcium	400	mg/L		05/22/23 09:19	5	0.20	05/26/23 10:48	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/22/23 09:19	5	4.0	05/26/23 10:48	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/22/23 09:19	5	2.0	05/26/23 10:48	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:26	JMW	EPA 6020A
Magnesium	140	mg/L		05/22/23 09:19	5	0.10	05/26/23 10:48	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/22/23 09:19	5	0.20	05/30/23 09:26	JMW	EPA 6020A
Molybdenum	5.5	ug/L		05/22/23 09:19	5	1.0	05/26/23 10:48	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE03266-05
Name: OM24D DUP
Matrix: Ground Water - Field Duplicate

Sampled: 05/16/23 14:58
Received: 05/16/23 17:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	3.9	mg/L		05/22/23 09:19	5	0.10	05/26/23 10:48	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 10:48	JMW	EPA 6020A
Sodium	100	mg/L		05/22/23 09:19	5	0.10	05/26/23 10:48	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:26	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/22/23 09:19	1	0.020	05/23/23 11:00	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE03266-06

Sampled: 05/16/23 12:14

Name: OR02

Received: 05/16/23 17:47

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	210	mg/L		05/17/23 16:15	100	100	05/17/23 16:15	CRD	EPA 300.0 REV 2.1
Sulfate	270	mg/L		05/17/23 16:15	100	100	05/17/23 16:15	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	5.04	Feet		05/16/23 12:14	1		05/16/23 12:14	FIELD	Field*
Dissolved oxygen, Field	8.4	mg/L		05/16/23 12:14	1		05/16/23 12:14	FIELD	Field*
Oxidation Reduction Potential	-17.0	mV		05/16/23 12:14	1	-500	05/16/23 12:14	FIELD	Field*
pH, Field Measured	6.60	pH Units		05/16/23 12:14	1		05/16/23 12:14	FIELD	Field*
Specific Conductance, Field Measured	2000	umhos/cm		05/16/23 12:14	1		05/16/23 12:14	FIELD	Field*
Temperature, Field Measured	63.2	°F		05/16/23 12:14	1		05/16/23 12:14	FIELD	Field*
Temperature, Field Measured	17.3	°C		05/16/23 12:14	1		05/16/23 12:14	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		05/16/23 12:14	1	0.00	05/16/23 12:14	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	540	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/24/23 11:50	1	0.250	05/24/23 11:50	TTH	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1300	mg/L		05/23/23 16:50	1	26	05/23/23 17:49	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/22/23 09:19	5	3.0	05/30/23 09:28	JMW	EPA 6020A
Arsenic	27	ug/L		05/22/23 09:19	5	1.0	05/26/23 10:52	JMW	EPA 6020A
Barium	110	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:28	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:28	JMW	EPA 6020A
Boron	4900	ug/L		05/22/23 09:19	5	10	05/26/23 10:52	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 10:52	JMW	EPA 6020A
Calcium	240	mg/L		05/22/23 09:19	5	0.20	05/26/23 10:52	JMW	EPA 6020A
Chromium	14	ug/L		05/22/23 09:19	5	4.0	05/26/23 10:52	JMW	EPA 6020A
Cobalt	10	ug/L		05/22/23 09:19	5	2.0	05/26/23 10:52	JMW	EPA 6020A
Lead	16	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:28	JMW	EPA 6020A
Magnesium	95	mg/L		05/22/23 09:19	5	0.10	05/26/23 10:52	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/22/23 09:19	5	0.20	05/30/23 09:28	JMW	EPA 6020A
Molybdenum	7.2	ug/L		05/22/23 09:19	5	1.0	05/26/23 10:52	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE03266-06

Name: OR02

Matrix: Ground Water - Grab

Sampled: 05/16/23 12:14

Received: 05/16/23 17:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	3.2	mg/L		05/22/23 09:19	5	0.10	05/26/23 10:52	JMW	EPA 6020A
Selenium	1.1	ug/L		05/22/23 09:19	5	1.0	05/26/23 10:52	JMW	EPA 6020A
Sodium	100	mg/L		05/22/23 09:19	5	0.10	05/26/23 10:52	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:28	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/22/23 09:19	1	0.020	05/23/23 11:01	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE03266-07

Sampled: 05/16/23 13:36

Name: OR03D

Received: 05/16/23 17:47

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	450	mg/L		05/17/23 16:33	250	250	05/17/23 16:33	CRD	EPA 300.0 REV 2.1
Fluoride	0.270	mg/L		05/17/23 17:46	1	0.250	05/17/23 17:46	CRD	EPA 300.0 REV 2.1
Sulfate	420	mg/L		05/17/23 16:33	250	250	05/17/23 16:33	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	44.44	Feet		05/16/23 13:36	1		05/16/23 13:36	FIELD	Field*
Dissolved oxygen, Field	2.0	mg/L		05/16/23 13:36	1		05/16/23 13:36	FIELD	Field*
Oxidation Reduction Potential	-13.0	mV		05/16/23 13:36	1	-500	05/16/23 13:36	FIELD	Field*
pH, Field Measured	6.66	pH Units		05/16/23 13:36	1		05/16/23 13:36	FIELD	Field*
Specific Conductance, Field Measured	3070	umhos/cm		05/16/23 13:36	1		05/16/23 13:36	FIELD	Field*
Temperature, Field Measured	62.6	°F		05/16/23 13:36	1		05/16/23 13:36	FIELD	Field*
Temperature, Field Measured	17.0	°C		05/16/23 13:36	1		05/16/23 13:36	FIELD	Field*
Turbidity, Field Measured	41.0	NTU		05/16/23 13:36	1	0.00	05/16/23 13:36	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	550	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	2900	mg/L		05/23/23 16:50	1	26	05/23/23 17:49	HRF	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		05/22/23 09:19	5	3.0	05/30/23 09:31	JMW	EPA 6020A
Arsenic	2.4	ug/L		05/22/23 09:19	5	1.0	05/26/23 11:41	JMW	EPA 6020A
Barium	49	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:31	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:31	JMW	EPA 6020A
Boron	19000	ug/L		05/22/23 09:19	100	200	05/26/23 12:20	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 11:41	JMW	EPA 6020A
Calcium	310	mg/L		05/22/23 09:19	5	0.20	05/26/23 11:41	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/22/23 09:19	5	4.0	05/26/23 11:41	JMW	EPA 6020A
Cobalt	2.1	ug/L		05/22/23 09:19	5	2.0	05/26/23 11:41	JMW	EPA 6020A
Lead	1.2	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:31	JMW	EPA 6020A
Magnesium	160	mg/L		05/22/23 09:19	5	0.10	05/26/23 11:41	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/22/23 09:19	5	0.20	05/30/23 09:31	JMW	EPA 6020A
Molybdenum	3.9	ug/L		05/22/23 09:19	5	1.0	05/26/23 11:41	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE03266-07

Name: OR03D

Matrix: Ground Water - Grab

Sampled: 05/16/23 13:36

Received: 05/16/23 17:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	8.2	mg/L		05/22/23 09:19	5	0.10	05/26/23 11:41	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 11:41	JMW	EPA 6020A
Sodium	160	mg/L		05/22/23 09:19	5	0.10	05/26/23 11:41	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:31	JMW	EPA 6020A
Lithium	0.030	mg/L		05/22/23 09:19	1	0.020	05/23/23 11:02	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE03266-08

Sampled: 05/16/23 10:55

Name: OR04D

Received: 05/16/23 17:47

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	1100	mg/L		05/17/23 18:58	250	250	05/17/23 18:58	CRD	EPA 300.0 REV 2.1
Sulfate	1100	mg/L		05/17/23 18:58	250	250	05/17/23 18:58	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	20.22	Feet		05/16/23 10:55	1		05/16/23 10:55	FIELD	Field*
Dissolved oxygen, Field	1.1	mg/L		05/16/23 10:55	1		05/16/23 10:55	FIELD	Field*
Oxidation Reduction Potential	-15.4	mV		05/16/23 10:55	1	-500	05/16/23 10:55	FIELD	Field*
pH, Field Measured	6.63	pH Units		05/16/23 10:55	1		05/16/23 10:55	FIELD	Field*
Specific Conductance, Field Measured	5865	umhos/cm		05/16/23 10:55	1		05/16/23 10:55	FIELD	Field*
Temperature, Field Measured	17.0	°C		05/16/23 10:55	1		05/16/23 10:55	FIELD	Field*
Temperature, Field Measured	62.6	°F		05/16/23 10:55	1		05/16/23 10:55	FIELD	Field*
Turbidity, Field Measured	221	NTU		05/16/23 10:55	1	0.00	05/16/23 10:55	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	460	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/24/23 11:51	1	0.250	05/24/23 11:51	TTH	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	4200	mg/L		05/23/23 16:50	1	26	05/23/23 17:49	HRF	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		05/22/23 09:19	5	3.0	05/30/23 09:33	JMW	EPA 6020A
Arsenic	2.8	ug/L		05/22/23 09:19	5	1.0	05/26/23 11:45	JMW	EPA 6020A
Barium	39	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:33	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:33	JMW	EPA 6020A
Boron	92000	ug/L		05/22/23 09:19	100	200	05/26/23 12:24	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 11:45	JMW	EPA 6020A
Calcium	730	mg/L		05/22/23 09:19	100	4.0	05/26/23 12:24	JMW	EPA 6020A
Chromium	4.9	ug/L		05/22/23 09:19	5	4.0	05/26/23 11:45	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/22/23 09:19	5	2.0	05/26/23 11:45	JMW	EPA 6020A
Lead	1.4	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:33	JMW	EPA 6020A
Magnesium	260	mg/L		05/22/23 09:19	5	0.10	05/26/23 11:45	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/22/23 09:19	5	0.20	05/30/23 09:33	JMW	EPA 6020A
Molybdenum	4.5	ug/L		05/22/23 09:19	5	1.0	05/26/23 11:45	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE03266-08

Name: OR04D

Matrix: Ground Water - Grab

Sampled: 05/16/23 10:55

Received: 05/16/23 17:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	13	mg/L		05/22/23 09:19	5	0.10	05/26/23 11:45	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 11:45	JMW	EPA 6020A
Sodium	210	mg/L		05/22/23 09:19	5	0.10	05/26/23 11:45	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:33	JMW	EPA 6020A
Lithium	0.059	mg/L		05/22/23 09:19	1	0.020	05/23/23 11:03	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE03618-01

Sampled: 05/17/23 12:13

Name: OM07

Received: 05/17/23 18:14

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	11	mg/L	Q4	05/22/23 21:20	5	5.0	05/22/23 21:20	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		05/18/23 15:56	1	0.250	05/18/23 15:56	CRD	EPA 300.0 REV 2.1
Sulfate	190	mg/L		05/18/23 17:00	25	25	05/18/23 17:00	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	12.18	Feet		05/17/23 12:13	1		05/17/23 12:13	FIELD	Field*
Dissolved oxygen, Field	1.6	mg/L		05/17/23 12:13	1		05/17/23 12:13	FIELD	Field*
Oxidation Reduction Potential	114	mV		05/17/23 12:13	1	-500	05/17/23 12:13	FIELD	Field*
pH, Field Measured	6.93	pH Units		05/17/23 12:13	1		05/17/23 12:13	FIELD	Field*
Specific Conductance, Field Measured	1080	umhos/cm		05/17/23 12:13	1		05/17/23 12:13	FIELD	Field*
Temperature, Field Measured	60.7	°F		05/17/23 12:13	1		05/17/23 12:13	FIELD	Field*
Temperature, Field Measured	15.9	°C		05/17/23 12:13	1		05/17/23 12:13	FIELD	Field*
Turbidity, Field Measured	125	NTU		05/17/23 12:13	1	0.00	05/17/23 12:13	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	510	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	700	mg/L		05/23/23 15:07	1	26	05/23/23 16:07	HRF	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		05/22/23 09:19	5	3.0	05/30/23 09:38	JMW	EPA 6020A
Arsenic	3.5	ug/L		05/22/23 09:19	5	1.0	05/26/23 12:30	JMW	EPA 6020A
Barium	370	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:38	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:38	JMW	EPA 6020A
Boron	460	ug/L		05/22/23 09:19	5	10	05/26/23 12:30	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 12:30	JMW	EPA 6020A
Calcium	170	mg/L	Q4	05/22/23 09:19	5	0.20	05/26/23 12:30	JMW	EPA 6020A
Chromium	7.8	ug/L		05/22/23 09:19	5	4.0	05/26/23 12:30	JMW	EPA 6020A
Cobalt	15	ug/L		05/22/23 09:19	5	2.0	05/26/23 12:30	JMW	EPA 6020A
Lead	7.5	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:38	JMW	EPA 6020A
Magnesium	89	mg/L	Q4	05/22/23 09:19	5	0.10	05/26/23 12:30	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/22/23 09:19	5	0.20	05/30/23 09:38	JMW	EPA 6020A
Molybdenum	11	ug/L		05/22/23 09:19	5	1.0	05/26/23 12:30	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE03618-01

Name: OM07

Matrix: Ground Water - Grab

Sampled: 05/17/23 12:13

Received: 05/17/23 18:14

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	1.9	mg/L		05/22/23 09:19	5	0.10	05/26/23 12:30	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 12:30	JMW	EPA 6020A
Sodium	57	mg/L	Q4	05/22/23 09:19	5	0.10	05/26/23 12:30	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:38	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/22/23 09:19	1	0.020	05/23/23 11:09	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE03618-02

Sampled: 05/17/23 16:55

Name: OM22D

Received: 05/17/23 18:14

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	890	mg/L		05/18/23 18:04	100	100	05/18/23 18:04	CRD	EPA 300.0 REV 2.1
Sulfate	760	mg/L		05/18/23 18:04	100	100	05/18/23 18:04	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	17.85	Feet		05/17/23 16:55	1		05/17/23 16:55	FIELD	Field*
Dissolved oxygen, Field	1.0	mg/L		05/17/23 16:55	1		05/17/23 16:55	FIELD	Field*
Oxidation Reduction Potential	33.0	mV		05/17/23 16:55	1	-500	05/17/23 16:55	FIELD	Field*
pH, Field Measured	6.69	pH Units		05/17/23 16:55	1		05/17/23 16:55	FIELD	Field*
Specific Conductance, Field Measured	3600	umhos/cm		05/17/23 16:55	1		05/17/23 16:55	FIELD	Field*
Temperature, Field Measured	14.5	°C		05/17/23 16:55	1		05/17/23 16:55	FIELD	Field*
Temperature, Field Measured	58.1	°F		05/17/23 16:55	1		05/17/23 16:55	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		05/17/23 16:55	1	0.00	05/17/23 16:55	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	340	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/24/23 11:54	1	0.250	05/24/23 11:54	TTH	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	3300	mg/L		05/23/23 15:07	1	26	05/23/23 16:07	HRF	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		05/22/23 09:19	5	3.0	05/30/23 09:40	JMW	EPA 6020A
Arsenic	15	ug/L		05/22/23 09:19	5	1.0	05/26/23 12:34	JMW	EPA 6020A
Barium	240	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:40	JMW	EPA 6020A
Beryllium	< 20	ug/L		05/22/23 09:19	100	20	05/26/23 14:47	JMW	EPA 6020A
Boron	55000	ug/L		05/22/23 09:19	100	300	05/26/23 14:47	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 12:34	JMW	EPA 6020A
Calcium	610	mg/L		05/22/23 09:19	100	4.0	05/26/23 14:47	JMW	EPA 6020A
Chromium	39	ug/L		05/22/23 09:19	5	4.0	05/26/23 12:34	JMW	EPA 6020A
Cobalt	22	ug/L		05/22/23 09:19	5	2.0	05/26/23 12:34	JMW	EPA 6020A
Lead	17	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:40	JMW	EPA 6020A
Magnesium	170	mg/L		05/22/23 09:19	5	0.10	05/26/23 12:34	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/22/23 09:19	5	0.20	05/30/23 09:40	JMW	EPA 6020A
Molybdenum	100	ug/L		05/22/23 09:19	5	1.0	05/26/23 12:34	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE03618-02

Name: OM22D

Matrix: Ground Water - Grab

Sampled: 05/17/23 16:55

Received: 05/17/23 18:14

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	12	mg/L		05/22/23 09:19	5	0.10	05/26/23 12:34	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 12:34	JMW	EPA 6020A
Sodium	170	mg/L		05/22/23 09:19	5	0.10	05/26/23 12:34	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 09:40	JMW	EPA 6020A
Lithium	0.070	mg/L		05/22/23 09:19	1	0.020	05/23/23 11:10	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE03618-03

Sampled: 05/17/23 13:45

Name: OR06A

Received: 05/17/23 18:14

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	590	mg/L		05/18/23 19:51	100	100	05/18/23 19:51	CRD	EPA 300.0 REV 2.1
Sulfate	700	mg/L		05/18/23 19:51	100	100	05/18/23 19:51	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	12.77	Feet		05/17/23 13:45	1		05/17/23 13:45	FIELD	Field*
Dissolved oxygen, Field	1.1	mg/L		05/17/23 13:45	1		05/17/23 13:45	FIELD	Field*
Oxidation Reduction Potential	-1.00	mV		05/17/23 13:45	1	-500	05/17/23 13:45	FIELD	Field*
pH, Field Measured	6.63	pH Units		05/17/23 13:45	1		05/17/23 13:45	FIELD	Field*
Specific Conductance, Field Measured	2510	umhos/cm		05/17/23 13:45	1		05/17/23 13:45	FIELD	Field*
Temperature, Field Measured	15.8	°C		05/17/23 13:45	1		05/17/23 13:45	FIELD	Field*
Temperature, Field Measured	60.5	°F		05/17/23 13:45	1		05/17/23 13:45	FIELD	Field*
Turbidity, Field Measured	444	NTU		05/17/23 13:45	1	0.00	05/17/23 13:45	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	380	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/24/23 11:55	1	0.250	05/24/23 11:55	TTH	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	2700	mg/L		05/23/23 15:07	1	26	05/23/23 16:07	HRF	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		05/22/23 09:19	5	3.0	05/30/23 11:57	JMW	EPA 6020A
Arsenic	9.3	ug/L		05/22/23 09:19	5	1.0	05/26/23 14:20	JMW	EPA 6020A
Barium	59	ug/L		05/22/23 09:19	5	1.0	05/30/23 10:07	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 14:20	JMW	EPA 6020A
Boron	67000	ug/L		05/22/23 09:19	100	300	05/26/23 14:51	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 14:20	JMW	EPA 6020A
Calcium	510	mg/L		05/22/23 09:19	100	4.0	05/26/23 14:51	JMW	EPA 6020A
Chromium	5.4	ug/L		05/22/23 09:19	5	4.0	05/26/23 14:20	JMW	EPA 6020A
Cobalt	3.3	ug/L		05/22/23 09:19	5	2.0	05/26/23 14:20	JMW	EPA 6020A
Lead	2.1	ug/L		05/22/23 09:19	5	1.0	05/30/23 11:57	JMW	EPA 6020A
Magnesium	160	mg/L		05/22/23 09:19	5	0.10	05/26/23 14:20	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/22/23 09:19	5	0.20	05/30/23 10:07	JMW	EPA 6020A
Molybdenum	66	ug/L		05/22/23 09:19	5	1.0	05/26/23 14:20	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE03618-03

Name: OR06A

Matrix: Ground Water - Grab

Sampled: 05/17/23 13:45

Received: 05/17/23 18:14

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	2.8	mg/L		05/22/23 09:19	5	0.10	05/26/23 14:20	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 14:20	JMW	EPA 6020A
Sodium	92	mg/L		05/22/23 09:19	5	0.10	05/26/23 14:20	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 11:57	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/22/23 09:19	1	0.020	05/23/23 11:41	TJJ	EPA 6010B



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ANALYTICAL RESULTS

Sample: GE03618-04

Sampled: 05/17/23 15:20

Name: OR13S

Received: 05/17/23 18:14

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	38	mg/L		05/18/23 20:33	10	10	05/18/23 20:33	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		05/18/23 20:12	1	0.250	05/18/23 20:12	CRD	EPA 300.0 REV 2.1
Sulfate	860	mg/L		05/18/23 20:55	100	100	05/18/23 20:55	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	11.95	Feet		05/17/23 15:20	1		05/17/23 15:20	FIELD	Field*
Dissolved oxygen, Field	1.9	mg/L		05/17/23 15:20	1		05/17/23 15:20	FIELD	Field*
Oxidation Reduction Potential	-23.0	mV		05/17/23 15:20	1	-500	05/17/23 15:20	FIELD	Field*
pH, Field Measured	6.82	pH Units		05/17/23 15:20	1		05/17/23 15:20	FIELD	Field*
Specific Conductance, Field Measured	1960	umhos/cm		05/17/23 15:20	1		05/17/23 15:20	FIELD	Field*
Temperature, Field Measured	16.3	°C		05/17/23 15:20	1		05/17/23 15:20	FIELD	Field*
Temperature, Field Measured	61.3	°F		05/17/23 15:20	1		05/17/23 15:20	FIELD	Field*
Turbidity, Field Measured	56.1	NTU		05/17/23 15:20	1	0.00	05/17/23 15:20	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	520	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/26/23 08:48	1	10	05/26/23 08:48	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1800	mg/L		05/23/23 15:07	1	26	05/23/23 16:07	HRF	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		05/22/23 09:19	5	3.0	05/30/23 12:00	JMW	EPA 6020A
Arsenic	8.5	ug/L		05/22/23 09:19	5	1.0	05/26/23 14:24	JMW	EPA 6020A
Barium	25	ug/L		05/22/23 09:19	5	1.0	05/30/23 10:10	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 14:24	JMW	EPA 6020A
Boron	3700	ug/L		05/22/23 09:19	5	15	05/26/23 14:24	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 14:24	JMW	EPA 6020A
Calcium	330	mg/L		05/22/23 09:19	5	0.20	05/26/23 14:24	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/22/23 09:19	5	4.0	05/26/23 14:24	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/22/23 09:19	5	2.0	05/26/23 14:24	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 12:00	JMW	EPA 6020A
Magnesium	140	mg/L		05/22/23 09:19	5	0.10	05/26/23 14:24	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/22/23 09:19	5	0.20	05/30/23 10:10	JMW	EPA 6020A
Molybdenum	8.1	ug/L		05/22/23 09:19	5	1.0	05/26/23 14:24	JMW	EPA 6020A



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ANALYTICAL RESULTS

Sample: GE03618-04

Name: OR13S

Matrix: Ground Water - Grab

Sampled: 05/17/23 15:20

Received: 05/17/23 18:14

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	3.2	mg/L		05/22/23 09:19	5	0.10	05/26/23 14:24	JMW	EPA 6020A
Selenium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/26/23 14:24	JMW	EPA 6020A
Sodium	50	mg/L		05/22/23 09:19	5	0.10	05/26/23 14:24	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/22/23 09:19	5	1.0	05/30/23 12:00	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/22/23 09:19	1	0.020	05/23/23 11:42	TJJ	EPA 6010B



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B333386 - SW 3015 - EPA 6010B</u>									
Blank (B333386-BLK1)					Prepared: 05/15/23	Analyzed: 05/16/23			
Lithium	< 0.020	mg/L							
<u>LCS (B333386-BS1)</u>									
Lithium	0.539	mg/L		0.5556		97	80-120		
<u>Batch B333386 - SW 3015 - EPA 6020A</u>									
Blank (B333386-BLK1)					Prepared: 05/15/23	Analyzed: 05/22/23			
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
LCS (B333386-BS1)					Prepared: 05/15/23	Analyzed: 05/22/23			
Antimony	502	ug/L		555.6		90	80-120		
Arsenic	494	ug/L		555.6		89	80-120		
Barium	489	ug/L		555.6		88	80-120		
Beryllium	480	ug/L		555.6		86	80-120		
Boron	482	ug/L		555.6		87	80-120		
Cadmium	497	ug/L		555.6		89	80-120		
Calcium	5.14	mg/L		5.556		93	80-120		
Chromium	523	ug/L		555.6		94	80-120		
Cobalt	504	ug/L		555.6		91	80-120		
Lead	465	ug/L		555.6		84	80-120		
Magnesium	5.06	mg/L		5.556		91	80-120		
Mercury	46.0	ug/L		55.56		83	80-120		
Molybdenum	484	ug/L		555.6		87	80-120		
Potassium	5.14	mg/L		5.556		93	80-120		
Selenium	524	ug/L		555.6		94	80-120		
Sodium	5.11	mg/L		5.556		92	80-120		
Thallium	487	ug/L		555.6		88	80-120		
<u>Batch B333464 - SW 3015 - EPA 6010B</u>									
Blank (B333464-BLK1)					Prepared & Analyzed: 05/16/23				



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit				
Blank (B333464-BLK1)					Prepared & Analyzed: 05/16/23								
Lithium	< 0.020	mg/L											
LCS (B333464-BS1)					Prepared & Analyzed: 05/16/23								
Lithium	0.515	mg/L			0.5556		93	80-120					
<u>Batch B333464 - SW 3015 - EPA 6020A</u>													
Blank (B333464-BLK1)					Prepared: 05/16/23 Analyzed: 05/19/23								
Antimony	< 3.0	ug/L											
Arsenic	< 1.0	ug/L											
Barium	< 1.0	ug/L											
Beryllium	< 1.0	ug/L											
Boron	< 10	ug/L											
Cadmium	< 1.0	ug/L											
Calcium	< 0.20	mg/L											
Chromium	< 4.0	ug/L											
Cobalt	< 2.0	ug/L											
Lead	< 1.0	ug/L											
Magnesium	< 0.10	mg/L											
Mercury	< 0.20	ug/L											
Molybdenum	< 1.0	ug/L											
Potassium	< 0.10	mg/L											
Selenium	< 1.0	ug/L											
Sodium	< 0.10	mg/L											
Thallium	< 1.0	ug/L											
LCS (B333464-BS1)					Prepared: 05/16/23 Analyzed: 05/19/23								
Antimony	1070	ug/L			1111		96	80-120					
Arsenic	544	ug/L			555.6		98	80-120					
Barium	544	ug/L			555.6		98	80-120					
Beryllium	546	ug/L			555.6		98	80-120					
Boron	1080	ug/L			1111		97	80-120					
Cadmium	542	ug/L			555.6		98	80-120					
Calcium	5.58	mg/L			5.556		101	80-120					
Chromium	564	ug/L			555.6		102	80-120					
Cobalt	559	ug/L			555.6		101	80-120					
Lead	499	ug/L			555.6		90	80-120					
Magnesium	5.39	mg/L			5.556		97	80-120					
Mercury	53.4	ug/L			55.56		96	80-120					
Molybdenum	528	ug/L			555.6		95	80-120					
Potassium	5.55	mg/L			5.556		100	80-120					
Selenium	542	ug/L			555.6		97	80-120					
Sodium	5.65	mg/L			5.556		102	80-120					
Thallium	549	ug/L			555.6		99	80-120					
<u>Batch B333629 - No Prep - SM 2540C</u>													
Blank (B333629-BLK1)					Prepared & Analyzed: 05/17/23								
Solids - total dissolved solids (TDS)	< 17	mg/L											
LCS (B333629-BS1)					Prepared & Analyzed: 05/17/23								
Solids - total dissolved solids (TDS)	1030	mg/L			1000		103	84.9-109					



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B333648 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B333648-MS2)	Sample: GE02997-11				Prepared & Analyzed: 05/16/23				
Sulfate	1.00E10	mg/L	Q4	15.00	1210	NR	80-120		
Chloride	1.0E10	mg/L	Q4	15.00	220	NR	80-120		
Matrix Spike Dup (B333648-MSD2)	Sample: GE02997-11				Prepared & Analyzed: 05/16/23				
Sulfate	1.00E10	mg/L	Q4	15.00	1210	NR	80-120	0	20
Chloride	1.0E10	mg/L	Q4	15.00	220	NR	80-120	0	20
<u>Batch B333818 - No Prep - SM 2540C</u>									
Blank (B333818-BLK1)					Prepared & Analyzed: 05/18/23				
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B333818-BS1)					Prepared & Analyzed: 05/18/23				
Solids - total dissolved solids (TDS)	923	mg/L		1000		92	84.9-109		
<u>Batch B333887 - No Prep - SM 2540C</u>									
Blank (B333887-BLK1)					Prepared & Analyzed: 05/19/23				
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B333887-BS1)					Prepared & Analyzed: 05/19/23				
Solids - total dissolved solids (TDS)	940	mg/L		1000		94	84.9-109		
Duplicate (B333887-DUP2)	Sample: GE02997-11				Prepared & Analyzed: 05/19/23				
Solids - total dissolved solids (TDS)	2800	mg/L		2780				0.9	5
<u>Batch B333894 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B333894-MS2)	Sample: GE03618-01				Prepared & Analyzed: 05/18/23				
Fluoride	1.67	mg/L		1.500	0.244	95	80-120		
Matrix Spike Dup (B333894-MSD2)	Sample: GE03618-01				Prepared & Analyzed: 05/18/23				
Fluoride	1.57	mg/L		1.500	0.244	89	80-120	6	20
<u>Batch B333906 - No Prep - SM 2320B 1997</u>									
Blank (B333906-BLK1)					Prepared & Analyzed: 05/19/23				
Alkalinity - bicarbonate as CaCO3	2.50	mg/L							
Blank (B333906-BLK2)					Prepared & Analyzed: 05/19/23				
Alkalinity - bicarbonate as CaCO3	2.50	mg/L							
<u>Batch B333977 - SW 3015 - EPA 6010B</u>									
Blank (B333977-BLK1)					Prepared: 05/22/23 Analyzed: 05/23/23				
Lithium	< 0.020	mg/L							
LCS (B333977-BS1)					Prepared: 05/22/23 Analyzed: 05/23/23				
Lithium	0.551	mg/L		0.5556		99	80-120		
<u>Batch B333977 - SW 3015 - EPA 6020A</u>									
Blank (B333977-BLK1)					Prepared: 05/22/23 Analyzed: 05/24/23				
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit			
Blank (B333977-BLK1)					Prepared: 05/22/23 Analyzed: 05/23/23							
Cadmium	< 1.0	ug/L										
Calcium	< 0.20	mg/L										
Chromium	< 4.0	ug/L										
Cobalt	< 2.0	ug/L										
Lead	< 1.0	ug/L										
Magnesium	< 0.10	mg/L										
Mercury	< 0.20	ug/L										
Molybdenum	< 1.0	ug/L										
Potassium	< 0.10	mg/L		Ba								
Selenium	< 1.0	ug/L										
Sodium	0.126	mg/L		B								
Thallium	< 1.0	ug/L										
LCS (B333977-BS1)					Prepared: 05/22/23 Analyzed: 05/24/23							
Antimony	538	ug/L		555.6		97	80-120					
Arsenic	542	ug/L		555.6		98	80-120					
Barium	531	ug/L		555.6		96	80-120					
Beryllium	538	ug/L		555.6		97	80-120					
Boron	548	ug/L		555.6		99	80-120					
Cadmium	536	ug/L		555.6		97	80-120					
Calcium	5.48	mg/L		5.556		99	80-120					
Chromium	545	ug/L		555.6		98	80-120					
Cobalt	531	ug/L		555.6		96	80-120					
Lead	545	ug/L		555.6		98	80-120					
Magnesium	5.66	mg/L		5.556		102	80-120					
Mercury	51.8	ug/L		55.56		93	80-120					
Molybdenum	521	ug/L		555.6		94	80-120					
Potassium	5.59	mg/L		5.556		101	80-120					
Selenium	545	ug/L		555.6		98	80-120					
Sodium	5.59	mg/L		5.556		101	80-120					
Thallium	528	ug/L		555.6		95	80-120					
<u>Batch B333979 - SW 3015 - EPA 6010B</u>												
Blank (B333979-BLK1)					Prepared: 05/22/23 Analyzed: 05/23/23							
Lithium	< 0.020	mg/L										
LCS (B333979-BS1)					Prepared: 05/22/23 Analyzed: 05/23/23							
Lithium	0.567	mg/L		0.5556		102	80-120					
<u>Batch B333979 - SW 3015 - EPA 6020A</u>												
Blank (B333979-BLK1)					Prepared: 05/22/23 Analyzed: 05/30/23							
Antimony	< 3.0	ug/L										
Arsenic	< 1.0	ug/L										
Barium	< 1.0	ug/L										
Beryllium	< 1.0	ug/L										
Boron	< 10	ug/L										
Cadmium	< 1.0	ug/L										
Calcium	< 0.20	mg/L										
Chromium	< 4.0	ug/L										



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2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit				
Blank (B333979-BLK1)					Prepared: 05/22/23 Analyzed: 05/26/23								
Cobalt	< 2.0	ug/L											
Lead	< 1.0	ug/L											
Magnesium	< 0.10	mg/L											
Mercury	< 0.20	ug/L											
Molybdenum	< 1.0	ug/L											
Potassium	< 0.10	mg/L											
Selenium	< 1.0	ug/L											
Sodium	< 0.10	mg/L											
Thallium	< 1.0	ug/L											
LCS (B333979-BS1)					Prepared: 05/22/23 Analyzed: 05/30/23								
Antimony	590	ug/L		555.6		106	80-120						
Arsenic	598	ug/L		555.6		108	80-120						
Barium	578	ug/L		555.6		104	80-120						
Beryllium	580	ug/L		555.6		104	80-120						
Boron	592	ug/L		555.6		106	80-120						
Cadmium	591	ug/L		555.6		106	80-120						
Calcium	6.18	mg/L		5.556		111	80-120						
Chromium	605	ug/L		555.6		109	80-120						
Cobalt	608	ug/L		555.6		110	80-120						
Lead	593	ug/L		555.6		107	80-120						
Magnesium	6.20	mg/L		5.556		112	80-120						
Mercury	55.7	ug/L		55.56		100	80-120						
Molybdenum	571	ug/L		555.6		103	80-120						
Potassium	6.09	mg/L		5.556		110	80-120						
Selenium	608	ug/L		555.6		109	80-120						
Sodium	6.01	mg/L		5.556		108	80-120						
Thallium	599	ug/L		555.6		108	80-120						
Post Spike (B333979-PS1)	Sample: GE03618-01				Prepared: 05/22/23 Analyzed: 05/30/23								
Antimony	535	ug/L		500.0	0.255	107	80-120						
Arsenic	493	ug/L		500.0	3.14	98	80-120						
Barium	814	ug/L		500.0	333	96	80-120						
Beryllium	454	ug/L		500.0	0.175	91	80-120						
Boron	928	ug/L		500.0	418	102	80-120						
Cadmium	512	ug/L		500.0	0.470	102	80-120						
Calcium	143000	ug/L	Q4	5000	155000	NR	80-120						
Chromium	522	ug/L		500.0	7.00	103	80-120						
Cobalt	511	ug/L		500.0	13.9	99	80-120						
Lead	509	ug/L		500.0	6.74	100	80-120						
Magnesium	75500	ug/L	Q4	5000	79700	NR	80-120						
Mercury	52.1	ug/L		50.00	0.110	104	80-120						
Molybdenum	520	ug/L		500.0	10.0	102	80-120						
Potassium	6490	ug/L		5000	1740	95	80-120						
Selenium	500	ug/L		500.0	0.265	100	80-120						
Sodium	51600	ug/L	Q4	5000	51700	NR	80-120						
Thallium	529	ug/L		500.0	0.110	106	80-120						

Batch B334122 - IC No Prep - EPA 300.0 REV 2.1



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (B334122-MS1)	Sample: GE03618-01				Prepared & Analyzed: 05/22/23				
Chloride	1.0E9	mg/L	Q4	1.500	11	NR	80-120		
Matrix Spike Dup (B334122-MSD1)	Sample: GE03618-01				Prepared & Analyzed: 05/22/23				
Chloride	1.0E9	mg/L	Q4	1.500	11	NR	80-120	0	20
<u>Batch B334147 - No Prep - SM 2540C</u>									
Blank (B334147-BLK1)					Prepared & Analyzed: 05/23/23				
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B334147-BS1)					Prepared & Analyzed: 05/23/23				
Solids - total dissolved solids (TDS)	933	mg/L		1000	93	84.9-109			
Duplicate (B334147-DUP1)	Sample: GE03618-01				Prepared & Analyzed: 05/23/23				
Solids - total dissolved solids (TDS)	725	mg/L			705			3	5
<u>Batch B334170 - No Prep - SM 2540C</u>									
Blank (B334170-BLK1)					Prepared & Analyzed: 05/23/23				
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B334170-BS1)					Prepared & Analyzed: 05/23/23				
Solids - total dissolved solids (TDS)	937	mg/L		1000	94	84.9-109			
<u>Batch B334267 - No Prep - SM 2320B 1997</u>									
Duplicate (B334267-DUP3)	Sample: GE02997-11				Prepared & Analyzed: 05/24/23				
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND			10	
Alkalinity - bicarbonate as CaCO3	625	mg/L			625			0	10
<u>Batch B334473 - No Prep - SM 2320B 1997</u>									
Duplicate (B334473-DUP1)	Sample: GE03266-02				Prepared & Analyzed: 05/26/23				
Alkalinity - bicarbonate as CaCO3	562	mg/L			550			2	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND			10	
Duplicate (B334473-DUP2)	Sample: GE03266-07				Prepared & Analyzed: 05/26/23				
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND			10	
Alkalinity - bicarbonate as CaCO3	538	mg/L			550			2	10
Duplicate (B334473-DUP3)	Sample: GE03618-01				Prepared & Analyzed: 05/26/23				
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND			10	
Alkalinity - bicarbonate as CaCO3	512	mg/L			512			0	10



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NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

Qualifiers

- B Present in the method blank at 126 ug/L.
- Ba Present in the method blank at 232 ug/L.
- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level.
The associated blank spike was acceptable.



Certified by: Gail Schindler, Project Manager

Section C

Section B

Required Client Information:		Required Project Information:		Invoicing Information:	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	13498 E. 900th St	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Address:	see Section A
Phone:	(217) 753-8911	Fax:		NPDES	GROUND WATER
Requested Due Date/TAT:		10 day		UST	DRINKING WATER
				RCRA	OTHER
				Site Location	STATE: IL
				Project Number:	GEO2221 gej
				Project Manager:	
				Profile #:	

CHAIN-OF-CUSTODY / Analytical Request Document

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

Required Client Information:

Company:	Vistra Corp	Report To:	Brian Voelker
Address:	1349B E. 900th St	Copy To:	Jason Stuckey
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:	
Phone:	(217) 753-8911	Fax:	
Requested Due Date/TAT:	10 day	Project Number:	2285

Invoice Information:

Attention:	Jason Stuckey
Company Name:	Vistra Corp
Address:	See Section A
Customer Reference:	Gavin
Project Manager:	
Profile #:	

Required Project Information:

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
Site Location	IL	GEO2221 ggy
STATE:		
Residual Chlorine (Y/N)		

Section D Required Client Information	Valid Matrix Codes	Matrix Code	CODE	COLLECTED		Preservatives	Analysis Test ↑ Y/N	Requested Analysis Filtered (Y/N)	Project No./Lab I.D.				
				DATE	TIME								
SAMPLE ID (A-Z, 0-9, -) Sample ID MUST BE UNIQUE	#	DC_G63#S	MATRIX CODE (G=GRAB C=COMB) WATER DW WATER WT WATER WW PRODUCT P SOLID SO OIL OL WINE WP AR AR OTHER OT TISSUE TS	SAMPLE TYPE (G=GRAB C=COMB) WATER SOLID OIL WINE AR OTHER TISSUE	DATE 5/10/23 5/10/23 5/10/23 5/10/23 5/10/23 5/10/23 5/10/23 5/10/23 5/10/23 5/10/23 5/10/23 5/10/23 5/10/23 5/10/23 5/10/23 5/10/23	TIME 12:07 12:07 12:07 12:07 12:07 12:07 12:07 12:07 12:07 12:07 12:07 12:07 12:07 12:07 12:07 12:07	Method NaOH HCl HNO ₃ H ₂ SO ₄ Na ₂ SO ₃	Other	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	UPPRESERVED	ANALYSIS TEST ↑ Y/N	REQUESTED ANALYSIS FILTERED (Y/N)
									Temp in °C	Sampled (Y/N)	Sealed Container (Y/N)	Received on (Y/N)	Samples (Y/N)

RELINQUISHED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
DC-23Q2-Rev 0	Joe Reed	5/10/23 17:20	Vanna Wong
ADDITIONAL COMMENTS	DATE	TIME	
DC-OM01	5/10/23 17:20	5/10/23 17:20	
TIME 05 6-13-2023 ACCEPTED BY / AFFILIATION	DATE	TIME	
DC-OM01	5/10/23 17:20	5/10/23 17:20	

CHAIN-OF-CUSTODY Analytical Request Document

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Section B
Required Project Information:
Section C
Invoice Information:

SAMPLER NAME AND SIGNATURE	PRINT' Name of SAMPLER:	DATE Signed (MM/DD/YY):
Joe Reed	Joe Reed	5/10/23

CHAIN-OF-CUSTODY / Analytical Request Document

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Section G

Section 2 Required Project Information:

Beaufred Client Information:

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Page: 6 of 9

Section A Required Client Information		Section B Required Project Information:		Section C Invoice Information:	
Address: 13498 E. 900th St	Copy To: Jason Stuckey	PRINT Name of SAMPLER: Brian Voelker	Report To: Brian Voelker	Attention: Jason Stuckey	Company Name: Vista Corp
Email To: Brian.Voelker@VistaCorp.com	Purchase Order No.: Project Name: 2285	SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes in left column)	RELINQUISHED BY / AFFILIATION Date: 5/10/23 Time: 1720	ACCEPTED BY / AFFILIATION Date: 5/10/23 Time: 1720
Phone: (217) 753-8911	Fax: Requested Due Date/AT: 10 day	COLLECTED DATE	TIME	DATE	TIME
Section D Required Client Information		SAMPLE TEMP AT COLLECTION # OF CONTAINERS		SAMPLE TEMP AT COLLECTION # OF CONTAINERS	
		Preservatives Y/N		Preservatives Y/N	
		Analysis Test Y/N		Analysis Test Y/N	
		Project No./Lab I.D.		Project No./Lab I.D.	
		Residual Chlorine (Y/N)		Residual Chlorine (Y/N)	
		Site Location IL		Site Location IL	
		STATE: IL		STATE: IL	
		NPDES UST		NPDES RCRA	
		GROUND WATER OTHER		GROUND WATER DRINKING WATER	
		REGULATORY AGENCY		REGULATORY AGENCY	
		Custody Codes Y/N		Custody Codes Y/N	
		Received at Site (Y/N)		Received at Site (Y/N)	
		Samples In Site (Y/N)		Samples In Site (Y/N)	

Phone: (217) 753-8911 Fax: _____
 Requested Due Date/TAT: 10 day

Project Name: _____
 Project Number: 2285
 Project Manager: _____
 Profile #: _____

Section D Required Client Information		Valid Matrix Codes CODE		COLLECTED		Preservatives		Site Location STATE: IL		Requested Analysis Filtered (Y/N)	
SAMPLE ID (A-Z, 0-9, /, -) Sample IDs MUST BE UNIQUE	DC_T44IL DC_T45IL DC_T46IL DC_X301_leachate	DRINKING WATER WATER WASTE WATER PRODUCT SOLUBLE OIL WATER AR OTHER Tissue	DW WT WW P BL CL WP AR OT TS	5/10/22 5/10/22	1435 1510						
MATRIX CODE (G=GRAB C=COMP) ***** Valid codes to select	SAMPLE TYPE (G=GRAB C=COMP)	# OF CONTAINERS		SAMPLE TEMP AT COLLECTION		UPRESERVED		HNO ₃ H ₂ SO ₄ HCl NaOH Na ₂ S ₂ O ₃ Other		ANALYSIS TEST Y/N	
ITEM #	DATE	TIME									
1	5/10/22	1435									
2	5/10/22	1510									
3											
4	5/10/23	1543									
5	5/10/23	1545									
6	5/10/23	1545									
7	5/10/23	1545									
8											
9											
10											
11											
12											
13											
14											
15											
16											
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE	
DC-23Q2-Rev 0		J. Gaylor, R. Bell		5/10/23		1720		Vance W. Jones		5/10/23	
SAMPLE NAME AND SIGNATURE		PRINT Name of SAMPLER:		SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):		TIME		SAMPLE CONDITIONS	
Samples In tact (Y/N)		Received on _____		_____ J. Gaylor, R. Bell		_____ 5/10/23		_____ Vance W. Jones		_____ 5/10/23	

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section B

Required Project Information:
Report To: Brian Voelker
Copy To: Jason Stuckey

Section C

Section C

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

Section B

Section B

Required Client Information:		Invoice Information:	
[Company]: Visitra Corp	Report To: Brian Voelker	Attention: Jason Stuckey	
Address: 13498 E. 900th St.	Copy To: Jason Stuckey	Company Name: Visitra Corp	
Email To: Brian.Voelker@VisitraCorp.com	Purchase Order No.:	Address: see Section A	REGULATORY AGENCY
Phone: (217) 753-8911	Project Name:	NPDES	GROUND WATER
Fax:	Project Number: 2285	UST	DRINKING WATER
	Requested Due Date/TAT: 10 day	RCRA	OTHER
		Site Location: IL	STATE: IL
			6EB2747

Requested Analysis Filtered [Y/N]

DC-23Q2-Rev 0

120 19

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE OF SAMPLER:

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CHAIN-OF-CUSTODY /

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The **Checklist** contains fields that must be completed accurately.

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Section A Required Client Information:

Company: Vistra Corp	Required Project Information:
Address: 13498 E. 900th St	Report To: Brian Voelker
Copy To: Jason Stuckey	
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:
Phone: (217) 753-8811	Project Name:
Requested Due Date/AT: 10 day	Project Number: 2286

Section C Invoice Information:

Attention: Jason Stuckey	REGULATORY AGENCY
Company Name: Vistra Corp	DRINKING WATER
Address: See Section A	GROUND WATER
Custody Reference:	RCRA
Project Manager: Profile #:	OTHER

Section B Required Project Information:

Valid Matrix Codes	MATRIX CODE	COLLECTED	TIME
WATER	DW		
WATER	WW		
WASTE WATER	WI		
PRODUCT	PL		
SOLID	SL		
OIL	OL		
WIP	WP		
AIR	AR		
OTHER	OT		
TISSUE	TS		

ITEM #	SAMPLE ID (A-Z, 0-9, -,) Sample ID MUST BE UNIQUE	DATE	TIME	SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	UNPRESERVED	ANALYSIS TEST	Y/N	PROJECT NO./LAB I.D.
				Preservatives	Other					
1	DC_G54#S+T+jup	5/12/23	1304			24				
2	DC_G55IL									
3	DC_G55#S									
4	DC_G56IL									
5	DC_G56#S									
6	DC_G57IL									
7	DC_G57#S									
8	DC_G58IL									
9	DC_G58#S									
10	DC_G59IL									
11	DC_G59#S									
12	DC_G60IL									
13	DC_G60#S									
14	DC_G61#S									
15	DC_G62IL									
16	DC_G63IL									
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS
DC-23Q2-Rev 0		Jason R. Stuckey		5/12/23	1431	John R. Stuckey		5/12/23	1431	

CHAIN-OF-CUSTODY / Analytical Request Document

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

PRINT Name of SAMPLER:	John R. Stuckey	DATE Signed (MM/DD/YY):	5/12/23
SIGNATURE of SAMPLER:			
SAMPLE NAME AND SIGNATURE		CUSTODY COPIES (Y/N)	
PRINT Name of SAMPLER:		RECEIVED on C	
SAMPLE (Y/N)		CUSTODY COPIES (Y/N)	
Sealed (Y/N)		Sealed (Y/N)	
Immac (Y/N)		Immac (Y/N)	

Section B

Section A

Page: 3 of 9

Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Address:	see Section A	NPDES	GROUND WATER	DRINKING WATER																																																																																																														
Phone:	(217) 753-8911	Fax:		Custo dery Refe rence:		USt	RCRA	OTHER																																																																																																														
Requested Due Date/TAT:	10 day	Project Name:		Project Manager: Profile #:		Site Location:	IL																																																																																																															
<table border="1"> <thead> <tr> <th colspan="2">Section D Required Client Information</th> <th colspan="2">SAMPLE ID</th> <th colspan="2">COLLECTED</th> <th colspan="2">Preservatives</th> <th colspan="2">Requested Analysis Filtered (Y/N)</th> </tr> </thead> <tbody> <tr> <td colspan="2"></td> <td colspan="2">(A-Z, 0-9, #, Sample IDs MUST BE UNIQUE)</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td colspan="2">Valid Matrix Codes CODE</td> <td colspan="2">WATER WATER WATER PRODUCT OIL WINE AIR OTHER TISSUE</td> <td colspan="2">DOW W/W P SL WP AR CT TS</td> <td colspan="2">SAMPLE TYPE (G=GRAB C=COMP) (See valid codes to left)</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">Matrix Code CODE</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td colspan="2"># OF CONTAINERS</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td colspan="2">SAMPLE TEMP AT COLLECTION</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td colspan="2">UPRESERVED</td> <td colspan="2">H2SO4 HNO3</td> <td colspan="2">NaOH Na2S2O3</td> <td colspan="2">Methanol</td> <td colspan="2">Other</td> </tr> <tr> <td colspan="2"># OF PRESERVED</td> <td colspan="2">HCl</td> <td colspan="2">NaOH Na2S2O3</td> <td colspan="2">Methanol</td> <td colspan="2">Other</td> </tr> <tr> <td colspan="2">ANALYSIS TEST</td> <td colspan="2">DC_257_203</td> <td colspan="2">DC_257_204</td> <td colspan="2">DC_257_205</td> <td colspan="2">DC_845_203</td> </tr> <tr> <td colspan="2">PROJECT NO./LAB I.D.</td> <td colspan="2">DC_WPCP_203-206</td> <td colspan="2">DC_SUP_000</td> <td colspan="2">DC_CLOSURE_201-202</td> <td colspan="2">DC_845_205</td> </tr> <tr> <td colspan="2">Residual Chlorine (Y/N)</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> </tbody> </table>									Section D Required Client Information		SAMPLE ID		COLLECTED		Preservatives		Requested Analysis Filtered (Y/N)				(A-Z, 0-9, #, Sample IDs MUST BE UNIQUE)								Valid Matrix Codes CODE		WATER WATER WATER PRODUCT OIL WINE AIR OTHER TISSUE		DOW W/W P SL WP AR CT TS		SAMPLE TYPE (G=GRAB C=COMP) (See valid codes to left)				Matrix Code CODE										# OF CONTAINERS										SAMPLE TEMP AT COLLECTION										UPRESERVED		H2SO4 HNO3		NaOH Na2S2O3		Methanol		Other		# OF PRESERVED		HCl		NaOH Na2S2O3		Methanol		Other		ANALYSIS TEST		DC_257_203		DC_257_204		DC_257_205		DC_845_203		PROJECT NO./LAB I.D.		DC_WPCP_203-206		DC_SUP_000		DC_CLOSURE_201-202		DC_845_205		Residual Chlorine (Y/N)									
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PROJECT NO./LAB I.D.		DC_WPCP_203-206		DC_SUP_000		DC_CLOSURE_201-202		DC_845_205																																																																																																														
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ITEM #	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME																																																																																																														
1	DC_P01IL		5/12/23	10:30	5																																																																																																																	
2	DC_P01#S																																																																																																																					
3	DC_P01\$J																																																																																																																					
4	DC_P02AS																																																																																																																					
5	DC_P04HS																																																																																																																					
6	DC_P05IL																																																																																																																					
7	DC_P05HS																																																																																																																					
8	DC_P05&D																																																																																																																					
9	DC_P36IL		5/12/23	11:24:1	2																																																																																																																	
10	DC_P36#S																																																																																																																					
11	DC_P36&D																																																																																																																					
12	DC_P37IL																																																																																																																					
13	DC_P37&D																																																																																																																					
14	DC_P38IL																																																																																																																					
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16	DC_P39IL																																																																																																																					
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION																																																																																																														
DC-23Q2-Rev 0		Jason Voelker		5/12/23		14:31		2																																																																																																														
SAMPLE NAME AND SIGNATURE		PRINT Name of SAMPLER:		DATE Signed (IMMEDIATELY):		TIME		SAMPLE CONDITIONS																																																																																																														
J. Voelker		Signature		5/12/23		14:31		2																																																																																																														
SIGNATURE OF SAMPLER:		SIGNATURE OF SAMPLER:																																																																																																																				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section C

Invoice Information:

Attention: Jason Stuckey

Company Name: Vistra Corp

Address: 13498 E. 900th St

Section B

Required Project Information:

Report To: Brian Voelker

Copy To: Jason Stuckey

Address: See Section A

Page: 8 of 9

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

Phone: (217) 753-3911	Fax:	Project Name:	Project Manager: _____ Profile #: _____	
Requested Due Date/TAT: 10 day		Project Number: 2286		
SAMPLE ID (A-Z, 0-9, -,) Sample IDs MUST BE UNIQUE		Valid Matrix Codes MATRIX CODES DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOLID SL LIQUID CL WINE WP AF AT OTHER OT TISSUE TS		COLLECTED:
Section D Required Client Information		SAMPLE TYPE (G=GRAIN C=COMP) (see valid codes to left)		DATE
Matrix Code (see valid codes to left)		# OF CONTAINERS Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other		TIME
SAMPLE TEMP AT COLLECTION		ANALYSIS TEST		
Project Manager: Profile #: _____		Requested Analysis Filtered (Y/N) Residual Chlorine (Y/N)		Project No./Lab I.D.
Temp in °C Received on Date (Y/M/D)		Site Location STATE: IL CITY: GEG		Sample Conditions (Y/N) Samples (Y/N)
PRINT Name of SAMPLER: SIGNATURE of SAMPLER:		PRINT Name of SAMPLER: SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):
ADDITIONAL COMMENTS DC-23Q2-Rev 0		REINQUISITION BY / AFFILIATION DATE: 5/12/23 TIME: 14:31 ACCEPTED BY / AFFILIATION DATE: 5/12/23 TIME: 13:23		

GEO2997
vnmw 5-16-23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 1 of 9	
Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey		Company Name: Vistra Corp	Address: see Section A	NPDES	GROUND WATER
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Quote Reference:		Project Manager:	see Section A	UST	DRINKING WATER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Project Name:	Profile #:			RCRA	OTHER
Phone: (217) 753-8911 Fax: 10 day	Requested Due Date/TAT:	Project Number: 2285				Site Location STATE: IL	

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9, -,) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE	MATRIX CODE (G=GRAB C=COMP) (see valid codes to left)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.
				DATE	TIME			H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	↓Analysis Test ↓	Y/N	DC_267_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	
1	DC_BA01			5/15/23	1123	11																			
2	DC_BA02																								
3	DC_BA02!L																								
4	DC_BA03																								
5	DC_BA03!L																								
6	DC_BA04																								
7	DC_BA05#																								
8	DC_BA06																								
9	DC_G02!L																								
10	DC_G02#S			5/15/23	1518	11																			
11	DC_G02&D																								
12	DC_G03!L																								
13	DC_G04!L																								
14	DC_G06!L																								
15	DC_G06#S																								
16	DC_G07!L																								
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS															
DC-23Q2-Rev 0		Joseph R Reed 5/15/23 1800				Vern Lujan		5-16-23	650	0.3	Y	N	Y	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)								
SAMPLER NAME AND SIGNATURE																									
PRINT Name of SAMPLER: Joseph R Reed																									
SIGNATURE of SAMPLER: Joseph R Reed																									
DATE Signed (MM/DD/YY): 5/15/23																									

CHAIN-OF-CUSTODY / Analytical Request Document

GE02997
vnu 5-16-23

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:			
Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey				Page: 2 of 9	
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	REGULATORY AGENCY				
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Address: see Section A	NPDES	GROUND WATER	DRINKING WATER		
Phone: (217) 753-8911	Fax:	Quote Reference:	UST	RCRA	OTHER		
Requested Due Date/TAT: 10 day	Project Name: 2285	Project Manager:	Site Location:	IL		STATE:	
Profile #:							

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives		Analysis Test ↓	Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	Project No./ Lab I.D.																						
		MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)			DATE	TIME		H ₂ SO ₄	HNO ₃			HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Y/N																
1	DC_G08!L													DC_257_203																						
2	DC_G09!L													DC_257_204																						
3	DC_G12!L													DC_257_205																						
4	DC_G12#S													DC_811_204																						
5	DC_G14!L													DC_845_201-202																						
6	DC_G15!L													DC_845_203																						
7	DC_G16!L													DC_845_205																						
8	DC_G50!L													DC_CLOSURE_201-202																						
9	DC_G50#S			5/15/23	1256	12								DC_SUP_000																						
10	DC_G51!L													DC_WPCP_203-206																						
11	DC_G51#S			5/15/23	1126	12																														
12	DC_G52!L																																			
13	DC_G52#S																																			
14	DC_G53!L																																			
15	DC_G53#S																																			
16	DC_G54!L																																			
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																										
DC-23Q2-Rev 0		<i>Joseph R Reed</i>		5/15/23	1800	<i>Van Weyns</i>				0.3	Y	N	Y																							
<table border="1"> <tr> <td colspan="2">SAMPLER NAME AND SIGNATURE</td> <td colspan="2">PRINT Name of SAMPLER:</td> <td colspan="2">SIGNATURE of SAMPLER:</td> <td colspan="2">DATE Signed (MM/DD/YY):</td> <td>Temp in °C</td> <td>Received on Ice (Y/N)</td> <td>Custody Sealed Cooler (Y/N)</td> <td>Samples Intact (Y/N)</td> </tr> <tr> <td colspan="2"><i>Joseph R Reed</i></td> <td colspan="2">Joseph R Reed</td> <td colspan="2"><i>Joseph R Reed</i></td> <td colspan="2">5/15/23</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>													SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	<i>Joseph R Reed</i>		Joseph R Reed		<i>Joseph R Reed</i>		5/15/23					
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)																									
<i>Joseph R Reed</i>		Joseph R Reed		<i>Joseph R Reed</i>		5/15/23																														

CHAIN-OF-CUSTODY / Analytical Request Document

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GEO2997
Vmw 5-16-23

Section A
Required Client Information:

Company: Vistra Corp

Address: 13498 E. 900th St

Email To: Brian.Voelker@VistraCorp.com

Phone: (217) 753-8911

Requested Due Date/TAT: 10 day

Section B
Required Project Information:

Report To: Brian Voelker

Copy To: Jason Stuckey

Purchase Order No.:

Project Name:

Project Number: 2285

Section C

Invoice Information:

Attention: Jason Stuckey

Company Name: Vistra Corp

Address: see Section A

Quote Reference:

Project Manager:

Profile #:

Page: 3 of 9

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location
STATE: IL

ITEM #	SAMPLE ID (A-Z, 0-9 / -,) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	Project No./ Lab I.D.		
				DATE	TIME				Y	N				
1	DC_G54#S							Unpreserved	DC_257_203					
2	DC_G55!L							H ₂ SO ₄	DC_257_204					
3	DC_G55#S							HNO ₃	DC_257_205					
4	DC_G56!L							HCl	DC_811_204					
5	DC_G56#S							NaOH	DC_845_201-202					
6	DC_G57!L							Na ₂ S ₂ O ₃	DC_845_203					
7	DC_G57#S							Methanol	DC_845_205					
8	DC_G58!L							Other	DC_CLOSURE_201-202					
9	DC_G58#S								DC_SUP_000					
10	DC_G59!L			5/15/23	1552	10			DC_WPCP_203-206					
11	DC_G59#S													
12	DC_G60!L													
13	DC_G60#S													
14	DC_G61#S													
15	DC_G62!L FB #8			5/15/23	1750	10								
16	DC_G62!L FB #9			5/15/23	1750	12								
ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DC-23Q2-Rev 0				<i>George R. Raet</i>		5/15/23	1800	<i>Vern Wagner</i>	5/16/23	1650	0.3	Y	N	Y
				SAMPLER NAME AND SIGNATURE										
				PRINT Name of SAMPLER:										
				SIGNATURE of SAMPLER:		<i>Joe Rieser</i>		DATE Signed (MM/DD/YY):		5/15/23				
				SIGNATURE of SAMPLER:		<i>George R. Raet</i>		DATE Signed (MM/DD/YY):		5/15/23				

CHAIN-OF-CUSTODY Analytical Request Document

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Section A

Section B

Section C

GEO2997
VMW J-16-23

Required Client Information:

Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Address: see Section A
Phone: (217) 753-8911	Fax:	Quote Reference:
Requested Due Date/TAT: 10 day		Project Name:
		Project Manager:
		Profile #:

Required Project Information:

Invoice Information:

REGULATORY AGENCY

NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER

Site Location	STATE:	IL
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ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						↓ Analysis Test ↓	Y/N	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.																																																																			
					DATE	TIME			H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol			Other	DC_257_203	DC_257_204	DC_257_205			DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206																																																												
1	DC_G63#S																																																																																								
2	DC_G64!L				5/15/23 1500			12																																																																																	
3	DC_G64#S																																																																																								
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8	DC_G67!L																																																																																								
9	DC_G67#S																																																																																								
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11	DC_G71!L																																																																																								
12	DC_G71#S																																																																																								
13	DC_G72!L																																																																																								
14	DC_G73!L																																																																																								
15	DC_L103																																																																																								
16	DC_OM01																																																																																								
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION				DATE	TIME	SAMPLE CONDITIONS																																																																												
DC-23Q2-Rev 0			<i>Joseph R. Reed</i>		5/15/23	1800	<i>Vanna Wagner</i>				5-16-23	650	0.3	Y	N	Y	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)																																																																					
<table border="1"> <tr> <td colspan="18">SAMPLER NAME AND SIGNATURE</td> </tr> <tr> <td colspan="18">PRINT Name of SAMPLER: <i>Joseph R. Reed</i></td> </tr> <tr> <td colspan="18">SIGNATURE of SAMPLER: <i>Joseph R. Reed</i></td> </tr> <tr> <td colspan="18">DATE Signed (MM/DD/YY): 5/15/23</td> </tr> </table>																		SAMPLER NAME AND SIGNATURE																		PRINT Name of SAMPLER: <i>Joseph R. Reed</i>																		SIGNATURE of SAMPLER: <i>Joseph R. Reed</i>																		DATE Signed (MM/DD/YY): 5/15/23																	
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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

GE02997
Vmn 5-16-23

Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey	REGULATORY AGENCY		
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	NPDES	GROUND WATER	DRINKING WATER
		Address: see Section A	UST	RCRA	OTHER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:			
Phone: (217) 753-8911	Fax:	Project Manager:	Site Location:		
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:	STATE: IL		

ITEM #	Section D Required Client Information	Valid Matrix Codes		COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	Project No./ Lab I.D.				
		MATRIX	CODE					MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)			Unpreserved	H ₂ SO ₄	HNO ₃	HCl
1	Sample ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIPE AIR OTHER TISSUE	DW WT WW P SL OL WP AR OT TS												
2															
3															
4															
5															
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7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS				
DC-23Q2-Rev 0			<i>Jay R. Reed</i>		5/15/23	1800	<i>Vern Wagner</i>		5/16/23	1650	0.3	Y	N	Y	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: *Jay R. Reed*

SIGNATURE of SAMPLER: *Jay R. Reed*

DATE Signed
(MM/DD/YY): 5/15/23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Company: Vistra Corp

Report To: Brian Voelker

Attention: Jason Stuckey

Page: 6 of 9

GE02997
Vmn S-16-23

Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp		REGULATORY AGENCY		
				Address: see Section A				
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		NPDES	GROUND WATER	DRINKING WATER
Phone: (217) 753-8911		Fax: -		Project Manager:		UST	RCRA	OTHER
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:		Site Location	IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives		↓ Analysis Test ↓	Y/N	Requested Analysis Filtered (Y/N)			Project No./ Lab I.D.
		MATRIX	CODE			DATE	TIME			H ₂ SO ₄	HNO ₃			HCl	NaOH	Na ₂ S ₂ O ₃	
1	DC_0M25#S																
2	DC_0M25&D																
3	DC_OR02																
4	DC_OR03#S																
5	DC_OR03&D																
6	DC_OR04&D																
7	DC_OR05&D																
8	DC_OR06!A																
9	DC_OR11	5/15/23	1233	11													
10	DC_OR13#S																
11	DC_OR13&D																
12	DC_OR14#S																
13	DC_OR14&D	5/15/23	1135	11													
14	DC_OR18																
15	DC_OR19	5/15/23	1528	11													
16	DC_OR20	5/15/23	1110	11													
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS						
DC-23Q2-Rev 0			Joe Reed 5/15/23 1800		Van Wagoner 5/16/23 650						0.3	Y	N	Y			
SAMPLER NAME AND SIGNATURE																	
PRINT Name of SAMPLER: Joe Reed																	
SIGNATURE of SAMPLER: Joe Reed DATE Signed (MM/DD/YY): 5/15/23																	
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)														

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Page: 7 of 9

Company: Vistra Corp

Report To: Brian Voelker

Attention: Jason Stuckey

Address: 13498 E. 900th St

Copy To: Jason Stuckey

Company Name: Vistra Corp

REGULATORY AGENCY

81

Required Client Information:

Company:	Vistra Corp	Report To:	Brian Voelker
Address:	13488 E. 900th St	Copy To:	Jason Stuckey
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:	
Phone:	(217) 753-8911	Fax:	
Requested Due Date/STAT:	10 day	Project Name:	
Project Number:	2285	Project Manager:	
Project Profile #:		Site Location:	IL
STATE:	GEO326.C geo	Site Location:	

Invoice Information:

Attention:	Jason Stuckey
Company Name:	Vistra Corp
Address:	See Section A
Quote Reference:	
Project Manager:	
Profile #:	

Section D Required Client Information	SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes # #	Matrix Code CODE (see valid codes to left)	COLLECTED		TIME	DATE	SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	Cupreserved H ₂ SO ₄ , HNO ₃ , HCl, NaOH Na ₂ SO ₄ , Other	Preservatives	Analysis Test ↑ Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	REGULATORY AGENCY		
				WATER	DRINKING WATER			GROUND WATER	RCRA								NPDES	OTHER
1	DC_G634S		WATER	DW														Project No./Lab I.D.
2	DC_G641L		WATER	WT														
3	DC_G644S		WATER	WW														
4	DC_G651L		WATER	WP														
5	DC_G654S		WATER	SL														
6	DC_G661L		WATER	WP														
7	DC_G664S		WATER	AR														
8	DC_G671L		WATER	OT														
9	DC_G674S		WATER	TISSUE														
10	DC_G701L		WATER															
11	DC_G711L		WATER															
12	DC_G714S		WATER															
13	DC_G721L	R5	WATER	S/16/23	1525	1	X											
14	DC_G731L		WATER															
15	DC_L103		WATER															
16	DC_QM01		WATER	S/16/23	1048	12	X											
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TIME	SAMPLE CONDITIONS								
DC-23Q2-Rev 0				S/16/23	747													

Temp In °C	55.5
Received On	5/16/23 17:47
Custody Seal Code (Y/N)	Y
Sample Matrix (Y/N)	Y
Print Name of Sampler:	John Hanley
Date Signed (MM/DD/YY):	05/16/23

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:
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↑		Preservatives				Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	DC_845_203	DC_845_204	DC_845_205	DC_845_206	DC_CLOSURE_201-202	DC_SUP_000	DC_257_203	DC_257_204	DC_257_205	DC_257_206	DC_WPC_203-206	DC_WPC_203-208	DC_811_204	DC_845_207	DC_845_208	DC_845_209	DC_845_209	DC_845_209	DC_257_209	DC_257_210	DC_257_211	DC_257_212	DC_257_213	DC_257_214	DC_845_210	DC_845_211	DC_845_212	DC_845_213	DC_845_214	DC_845_215	DC_257_214	DC_257_215	DC_257_216	DC_257_217	DC_257_218	DC_257_219	DC_845_216	DC_845_217	DC_845_218	DC_845_219	DC_845_220	DC_845_221	DC_257_220	DC_257_221	DC_257_222	DC_257_223	DC_257_224	DC_257_225	DC_845_222	DC_845_223	DC_845_224	DC_845_225	DC_845_226	DC_845_227	DC_257_226	DC_257_227	DC_257_228	DC_257_229	DC_257_230	DC_257_231	DC_845_228	DC_845_229	DC_845_230	DC_845_231	DC_845_232	DC_845_233	DC_257_232	DC_257_233	DC_257_234	DC_257_235	DC_257_236	DC_257_237	DC_845_234	DC_845_235	DC_845_236	DC_845_237	DC_845_238	DC_845_239	DC_257_238	DC_257_239	DC_257_240	DC_257_241	DC_257_242	DC_257_243	DC_845_240	DC_845_241	DC_845_242	DC_845_243	DC_845_244	DC_845_245	DC_257_244	DC_257_245	DC_257_246	DC_257_247	DC_257_248	DC_257_249	DC_845_246	DC_845_247	DC_845_248	DC_845_249	DC_845_250	DC_845_251	DC_257_250	DC_257_251	DC_257_252	DC_257_253	DC_257_254	DC_257_255	DC_845_252	DC_845_253	DC_845_254	DC_845_255	DC_845_256	DC_845_257	DC_257_256	DC_257_257	DC_257_258	DC_257_259	DC_257_260	DC_257_261	DC_845_258	DC_845_259	DC_845_260	DC_845_261	DC_845_262	DC_845_263	DC_257_262	DC_257_263	DC_257_264	DC_257_265	DC_257_266	DC_257_267	DC_845_264	DC_845_265	DC_845_266	DC_845_267	DC_845_268	DC_845_269	DC_257_268	DC_257_269	DC_257_270	DC_257_271	DC_257_272	DC_257_273	DC_845_270	DC_845_271	DC_845_272	DC_845_273	DC_845_274	DC_845_275	DC_257_274	DC_257_275	DC_257_276	DC_257_277	DC_257_278	DC_257_279	DC_845_276	DC_845_277	DC_845_278	DC_845_279	DC_845_280	DC_845_281	DC_257_280	DC_257_281	DC_257_282	DC_257_283	DC_257_284	DC_257_285	DC_845_282	DC_845_283	DC_845_284	DC_845_285	DC_845_286	DC_845_287	DC_257_286	DC_257_287	DC_257_288	DC_257_289	DC_257_290	DC_257_291	DC_845_288	DC_845_289	DC_845_290	DC_845_291	DC_845_292	DC_845_293	DC_257_292	DC_257_293	DC_257_294	DC_257_295	DC_257_296	DC_257_297	DC_845_294	DC_845_295	DC_845_296	DC_845_297	DC_845_298	DC_845_299	DC_257_298	DC_257_299	DC_257_300	DC_257_301	DC_257_302	DC_257_303	DC_845_300	DC_845_301	DC_845_302	DC_845_303	DC_845_304	DC_845_305	DC_257_304	DC_257_305	DC_257_306	DC_257_307	DC_257_308	DC_257_309	DC_845_306	DC_845_307	DC_845_308	DC_845_309	DC_845_310	DC_845_311	DC_257_310	DC_257_311	DC_257_312	DC_257_313	DC_257_314	DC_257_315	DC_845_312	DC_845_313	DC_845_314	DC_845_315	DC_845_316	DC_845_317	DC_257_316	DC_257_317	DC_257_318	DC_257_319	DC_257_320	DC_257_321	DC_845_318	DC_845_319	DC_845_320	DC_845_321	DC_845_322	DC_845_323	DC_257_322	DC_257_323	DC_257_324	DC_257_325	DC_257_326	DC_257_327	DC_845_324	DC_845_325	DC_845_326	DC_845_327	DC_845_328	DC_845_329	DC_257_328	DC_257_329	DC_257_330	DC_257_331	DC_257_332	DC_257_333	DC_845_330	DC_845_331	DC_845_332	DC_845_333	DC_845_334	DC_845_335	DC_257_334	DC_257_335	DC_257_336	DC_257_337	DC_257_338	DC_257_339	DC_845_336	DC_845_337	DC_845_338	DC_845_339	DC_845_340	DC_845_341	DC_257_340	DC_257_341	DC_257_342	DC_257_343	DC_257_344	DC_257_345	DC_845_342	DC_845_343	DC_845_344	DC_845_345	DC_845_346	DC_845_347	DC_257_346	DC_257_347	DC_257_348	DC_257_349	DC_257_350	DC_257_351	DC_845_350	DC_845_351	DC_845_352	DC_845_353	DC_845_354	DC_845_355	DC_257_354	DC_257_355	DC_257_356	DC_257_357	DC_257_358	DC_257_359	DC_845_356	DC_845_357	DC_845_358	DC_845_359	DC_845_360	DC_845_361	DC_257_360	DC_257_361	DC_257_362	DC_257_363	DC_257_364	DC_257_365	DC_845_362	DC_845_363	DC_845_364	DC_845_365	DC_845_366	DC_845_367	DC_257_366	DC_257_367	DC_257_368	DC_257_369	DC_257_370	DC_257_371	DC_845_368	DC_845_369	DC_845_370	DC_845_371	DC_845_372	DC_845_373	DC_257_372	DC_257_373	DC_257_374	DC_257_375	DC_257_376	DC_257_377	DC_845_374	DC_845_375	DC_845_376	DC_845_377	DC_845_378	DC_845_379	DC_257_378	DC_257_379	DC_257_380	DC_257_381	DC_257_382	DC_257_383	DC_845_380	DC_845_381	DC_845_382	DC_845_383	DC_845_384	DC_845_385	DC_257_384	DC_257_385	DC_257_386	DC_257_387	DC_257_388	DC_257_389	DC_845_386	DC_845_387	DC_845_388	DC_845_389	DC_845_390	DC_845_391	DC_257_390	DC_257_391	DC_257_392	DC_257_393	DC_257_394	DC_257_395	DC_845_392	DC_845_393	DC_845_394	DC_845_395	DC_845_396	DC_845_397	DC_257_396	DC_257_397	DC_257_398	DC_257_399	DC_257_400	DC_257_401	DC_845_398	DC_845_399	DC_845_400	DC_845_401	DC_845_402	DC_845_403	DC_257_402	DC_257_403	DC_257_404	DC_257_405	DC_257_406	DC_257_407	DC_845_404	DC_845_405	DC_845_406	DC_845_407	DC_845_408	DC_845_409	DC_257_408	DC_257_409	DC_257_410	DC_257_411	DC_257_412	DC_257_413	DC_845_410	DC_845_411	DC_845_412	DC_845_413	DC_845_414	DC_845_415	DC_257_414	DC_257_415	DC_257_416	DC_257_417	DC_257_418	DC_257_419	DC_845_416	DC_845_417	DC_845_418	DC_845_419	DC_845_420	DC_845_421	DC_257_420	DC_257_421	DC_257_422	DC_257_423	DC_257_424	DC_257_425	DC_845_422	DC_845_423	DC_845_424	DC_845_425	DC_845_426	D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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	
Company:	Vistra Corp
Address:	13498 E. 900th St
Copy To:	Jason Stuckey
Email To:	Brian.Voelker@VistraCorp.com
Phone:	(217) 753-8011
Requested Due Date/TAT:	10 day
Project Name:	
Project Number:	2286

Section B Required Project Information:	
Report To:	Brian Voelker
Copy To:	Jason Stuckey
Purchase Order No.:	
Circle Project Manager:	
Profile #:	

Section C Project Information:		Section D Required Client Information:		Section E SAMPLE ID		Section F SAMPLE TEMP AT COLLECTION		Section G # OF CONTAINERS		Section H Upperseived		Section I Preservatives		Section J Analysis Test		Section K Residual Chlorine (Y/N)		Section L REGULATORY AGENCY		Section M Samples Inclucde (Y/N)					
Received on	Date	Received by	Initials	Sample ID	Sample Type	Matrix Code	Collected	Time	Time	Preservative	Method	Other	Preservative	Method	Other	Preservative	Method	Other	NPDES	GROUND WATER	DRINKING WATER	RCRA	OTHER	Project No./ Lab ID.	
Temp in °C																									
Reqs (Y/N)		Custody Seal/ed Cooper (Y/N)		Sample ID																					
Comments (Y/N)		Comments (Y/N)		Comments (Y/N)																					
1	DC_T44IL																								
2	DC_T45IL																								
3	DC_T46IL																								
4	DC_X301_leachate	Q.S	WT.G	S/16/23	1539	1	X																		
5	Equipment Blank	7.QS	WT.G	S/16/23	1545	1	X																		
6	Equipment Blank	10	WT.G	S/16/23	1741	10	X	X																	
7	Equipment Blank	11	WT.G	S/16/23	1726	12	X	X																	
8	BAO3 + FS	Q.S	WT.G	S/16/23	1423	2	X																		
9	BAO3L	PS	WT.G	S/16/23	1446	1	X																		
10																									
11																									
12																									
13																									
14																									
15																									
16																									
ADDITIONAL COMMENTS										RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS			
DC-23Q2-Rev 0										<i>John</i>		<i>5/16/23</i>		<i>17:47:57</i>		<i>John</i>		<i>5/16/23</i>		<i>17:47:57</i>		<i>Y N Y</i>			
SAMPLE NAME AND SIGNATURE										SAMPLE NAME AND SIGNATURE															
PRINT Name or SAMPLER:										PRINT Name or SAMPLER:															
SIGNATURE of SAMPLER:										SIGNATURE of SAMPLER:															

Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp			
Email To: Brian.Voelker@vistraCorp.com		Purchase Order No.:		Address: See Section A		NPDES GROUND WATER DRINKING WATER OTHER	
Phone: (217) 753-8911 Fax: Requested Due Date/TAT: 10 day		Project Name: Project Number: 2285		Quote Project Manager: Profile #: GE03618 gej		UST RCRA STATE: IL	
Requested Analysis Filtered (Y/N)							
Section D Required Client Information	SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	ITEM #	Valid Matrix Codes		COLLECTED		Project No./ Lab I.D.
			MATRIX CODE	CODE	DATE	TIME	
# OF CONTAINERS		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Residual Chlorine (Y/N)	
Uppreserved		SAMPLE TYPE (G=GRAB C=COMP)		Uppreserved		DC_WPCP_203-206	
H ₂ SO ₄		DC_845_205		DC_SUP_000		DC_CLOSURE_201-202	
HNO ₃		DC_845_203		DC_845_204		DC_WPCP_203-202	
HCl		DC_257_205		DC_81_204		DC_845_204	
NaOH		DC_257_204		DC_257_203		DC_845_203	
Na ₂ S ₂ O ₃		DC_257_203		DC_845_203		DC_845_203	
Other		DC_845_203		DC_845_203		DC_845_203	
# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS	
Uppreserved		Uppreserved		Uppreserved		Uppreserved	
H ₂ SO ₄		H ₂ SO ₄		H ₂ SO ₄		H ₂ SO ₄	
HNO ₃		HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl		HCl	
NaOH		NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
Other		Other		Other		Other	
# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS	
Uppreserved		Uppreserved		Uppreserved		Uppreserved	
H ₂ SO ₄		H ₂ SO ₄		H ₂ SO ₄		H ₂ SO ₄	
HNO ₃		HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl		HCl	
NaOH		NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
Other		Other		Other		Other	
# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS	
Uppreserved		Uppreserved		Uppreserved		Uppreserved	
H ₂ SO ₄		H ₂ SO ₄		H ₂ SO ₄		H ₂ SO ₄	
HNO ₃		HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl		HCl	
NaOH		NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
Other		Other		Other		Other	
# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS	
Uppreserved		Uppreserved		Uppreserved		Uppreserved	
H ₂ SO ₄		H ₂ SO ₄		H ₂ SO ₄		H ₂ SO ₄	
HNO ₃		HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl		HCl	
NaOH		NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
Other		Other		Other		Other	
# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS	
Uppreserved		Uppreserved		Uppreserved		Uppreserved	
H ₂ SO ₄		H ₂ SO ₄		H ₂ SO ₄		H ₂ SO ₄	
HNO ₃		HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl		HCl	
NaOH		NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
Other		Other		Other		Other	
# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS	
Uppreserved		Uppreserved		Uppreserved		Uppreserved	
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HNO ₃		HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl		HCl	
NaOH		NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
Other		Other		Other		Other	
# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS	
Uppreserved		Uppreserved		Uppreserved		Uppreserved	
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HNO ₃		HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl		HCl	
NaOH		NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
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Uppreserved		Uppreserved		Uppreserved		Uppreserved	
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HNO ₃		HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl		HCl	
NaOH		NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
Other		Other		Other		Other	
# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS	
Uppreserved		Uppreserved		Uppreserved		Uppreserved	
H ₂ SO ₄		H ₂ SO ₄		H ₂ SO ₄		H ₂ SO ₄	
HNO ₃		HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl		HCl	
NaOH		NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
Other		Other		Other		Other	
# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS	
Uppreserved		Uppreserved		Uppreserved		Uppreserved	
H ₂ SO ₄		H ₂ SO ₄		H ₂ SO ₄		H ₂ SO ₄	
HNO ₃		HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl		HCl	
NaOH		NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
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HNO ₃		HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl		HCl	
NaOH		NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
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# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS	
Uppreserved		Uppreserved		Uppreserved		Uppreserved	
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HNO ₃		HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl		HCl	
NaOH		NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
Other		Other		Other		Other	
# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS	
Uppreserved		Uppreserved		Uppreserved		Uppreserved	
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HNO ₃		HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl		HCl	
NaOH		NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
Other		Other		Other		Other	
# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS	
Uppreserved		Uppreserved		Uppreserved		Uppreserved	
H ₂ SO ₄		H ₂ SO ₄		H ₂ SO ₄		H ₂ SO ₄	
HNO ₃		HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl		HCl	
NaOH		NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
Other		Other		Other		Other	
# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS	
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HNO ₃		HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl		HCl	
NaOH		NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
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# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS	
Uppreserved		Uppreserved		Uppreserved		Uppreserved	
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HNO ₃		HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl		HCl	
NaOH		NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
Other		Other		Other		Other	
# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS	
Uppreserved		Uppreserved		Uppreserved		Uppreserved	
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HNO ₃		HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl		HCl	
NaOH		NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
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# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS	
Uppreserved		Uppreserved		Uppreserved		Uppreserved	
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HNO ₃		HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl		HCl	
NaOH		NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
Other		Other		Other		Other	
# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS	
Uppreserved		Uppreserved		Uppreserved		Uppreserved	
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HNO ₃		HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl		HCl	
NaOH		NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
Other		Other		Other		Other	
# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS	
Uppreserved		Uppreserved		Uppreserved		Uppreserved	
H ₂ SO ₄		H ₂ SO ₄		H ₂ SO ₄		H ₂ SO ₄	
HNO ₃		HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl		HCl	
NaOH		NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃ </td	

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	Project Name: See Section A	Date: 5/17/23	Page: 7 of 9
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.: Project Name:	Address: Quota Reference:	NPDES UST RCRA OTHER	TIME	
Phone: (217) 753-8911 Fax:	Project Number: 2285	Project Manager: Profile #:	Site Location STATE: IL	DATE	
SAMPLE ID (A-Z, 0-9, -,) Sample IDs MUST BE UNIQUE		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER			
Sample Details Required Client Information: Section D Valid Matrix Codes MATRIX CODE: DW WW P SL CL WP AR OT TS		Requested Analysis Filtered (Y/N) Residual Chlorine (Y/N)			
Sample Temp At Collection DATE TIME		Preservatives Other NaOH Na ₂ S ₂ O ₃ HCl HNO ₃ H ₂ SO ₄ Unpreserved		Project No./Lab I.D. DC_WPCP_203-206 DC_SUP_000 DC_CLOSURE_201-202 DC_845_205 DC_845_203 DC_845_202 DC_811_204 DC_257_205 DC_257_204 DC_257_203	
Matrix Code (see valid codes to left)		# OF CONTAINERS SAMPLE TEMP AT COLLECTION		Temp in °C Received on Date (Y/N): Custody Seal/Coder (Y/N): Samples intact (Y/N):	
ITEM # 1 DC_0M25#S 2 DC_0M25&D 3 DC_OR02 4 DC_OR03#S 5 DC_OR03&D 6 DC_OR04&D 7 DC_OR05&D 8 DC_OR06#A 9 DC_OR11 10 DC_OR13#S 11 DC_OR13&D 12 DC_OR14#S 13 DC_OR14&D 14 DC_OR18 15 DC_OR19 16 DC_OR20		ANALYSIS TEST ↑ Y/N ↑		Signature of Sampler: Aaron Jumbeau DATE Signed (MM/DD/YY): 05/17/23	
Additional Comments DC-23Q2-Rev 0		Relinquished By / Affiliation 5/17/23 18:14		Accepted By / Affiliation 5/17/23 18:14	
				Sample Conditions	

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section C

Required Client Information:	PRINT Name of SAMPLER: Aaron Jumbeau
Company: Vistra Corp	Signature of SAMPLER:
Address: 13498 E. 900th St	Attention: Jason Stuckey Company Name: Vistra Corp

Page: 7 of 9

REGULATORY AGENCY

Phone: (217) 753-8911	Fax:	Project Name:	Project Manager:	Project Profile #:
Requested Due Date/TAT:		10 day	Project Number: 2285	
Section D Required Client Information		SAMPLE ID (A-Z, 0-9, -,) Sample IDs MUST BE UNIQUE		
		Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WINE WP AIR AR OTHER OT TISSUE TS		
ITEM #	COLLECTED	TIME	DATE	SAMPLE TEMP AT COLLECTION
				# OF CONTAINERS
				Unpreserved
				HNO ₃
				H ₂ SO ₄
				NaOH
				Na ₂ S ₂ O ₃
				Methanol
				Other
				Preservatives
				Analysis Test ↑
				↑Residual Chlorine (Y/N)
				Project No./Lab I.D.
				STATE: IL
				Site Location
				Requested Analysis Filtered (Y/N)
				GEO 36018 gej

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION

ACCEPTED BY / AFFILIATION

DATE

TIME

SAMPLE CONDITIONS

DC-23Q2-Rev 0

S/17/23 1814

Van Wagoner

Y N Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:

Aaron J. Schreiber
S/17/23 05/11/23

DATE Signed
(MM/DD/YY):

Sealed Container
(Y/N)

Samples intact (Y/N)

Duck Creek

WELL/SAMPLE POINT

BA06

Purge Method:

Bladder / Low FlowDate: 5/12/23Start Time: 1110Finish/Sample Time: 1219Well Depth (Bottom) From MP: 81mp ftMin. Purge Volume: 1.0 Gal LDepth to Water From MP: 2170 ftTotal Purge Volume: 1.3 Gal L

Water Column Length: _____ ft

Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L

Total Drawdown: 5.85 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH S.U.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1130	23.90	100	6.45	2940	15.82	-32	0.79	55.6
2	1131	24.30	100	6.45	2930	15.71	-36	0.89	53.2
3	1132	24.55	100	6.44	2930	15.68	-39	0.82	53.1
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horiba

Sample Appearance:

Odor: None Slight Mod. StrongColor: None Slight Mod. StrongTurb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL) <u>1000mL</u>
1	2.5L HNO ₃

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P, 250 mL) <u>1000mL</u>
3	TOC <u>40mL</u>

Final DTW: 27.55 ftComments S/N - 21615525Dis. Iron = Over Range

Sampler's Signature:

Joseph R. Reed

Duck Creek

WELL/SAMPLE POINT OM01

Purge Method:

*Portable pump w/ Desiccated
Tubing*

Date: 5/16/2023 Start Time: 09 34

Finish/Sample Time: 10 48

Well Depth (Bottom) From MP: 27.70 ft 27.81

Min. Purge Volume: 1000 Gal / L (mL)

Depth to Water From MP: 10.60 ft

Total Purge Volume: 1000 Gal / L (mL)

Water Column Length: 17.21 ft

Max Drawdown: — ft

Well Water Volume: 10.11 Gal (L)

Total Drawdown: 8.60 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	0949	13.72	100	6.30	3140	19.17	148	6.19	35.5
2	0951	13.01	100	6.31	3240	19.06	134	6.24	83.0
3	0953	11.10	100	6.31	3350	18.69	129	6.15	117
4	—								
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hori 6a

Sample Appearance:

Odor: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✗	
Good seal/drainage	✓	
Well has weep holes	✓	

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL) <u>1000mL</u>
1	(P, 250 mL) <u>HN03</u>

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>1000mL</u>
3	TOC (A,V, 100mL, H ₂ SO ₄)

Final DTW: 19.20 ft

Comments: Transducer SN - 21615685

diss Iron ⁺² - 0.264 ppm

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT OR02

Purge Method: portable pump with Degasulated tubing

Date: 5/16/2023 Start Time: 10:56 Finish/Sample Time: 12:14

Well Depth (Bottom) From MP: 22.11 ft 22.25

Min. Purge Volume: 1000 Gal / L (mL)

Depth to Water From MP: 5.04 ft

Total Purge Volume: 1000 Gal / L (mL)

Water Column Length: 17.21 ft

Max Drawdown: — ft

Well Water Volume: 10.41 Gal (L)

Total Drawdown: 0.08 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	11:13	5.12	100	6.62	1980	17.42	-8	8.74	>1000
2	11:15	5.12	100	6.61	1990	17.38	-13	8.57	>1000
3	11:17	5.12	100	6.60	2000	17.28	-15	8.45	>1000
4	11:19	5.12	100	6.60	2000	17.34	-17	8.40	>1000
5	—	—	—	—	—	—	—	—	—
Stabilization	NA	NA	NA	± 0.2	± 3%	—	± 0.2	± 10% or 0.2	NA

Field Meter: 1016a

Sample Appearance:

Odor: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

Color None Slight Mod. Strong

Turb: None Slight Mod Strong

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
1	VOAs (C,V, 40mL, HCl)
1	VOAS (C,V, 40mL)
1	Organics (A,G,U 1000mL)
1	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
1	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
1	Cyanide (P, 250mL, NaOH)
1	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL) 1000mL
1	(1, 2.5 L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) 1000mL
2	TOC (A,V, 40mL H ₂ SO ₄)

Final DTW: 5.12 ft

sol Iron⁺² = 2.864 ppm

Comments SN 21615679

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT OR03D

Purge Method: portable pump with dedicated tubing

Date: 5/16/2023 Start Time: 12:19 Finish/Sample Time: 13:36

Well Depth (Bottom) From MP: 77.77 ft Min. Purge Volume: 1000 Gal / L (mL)

Depth to Water From MP: 44.44 ft Total Purge Volume: 1000 Gal / L (mL)

Water Column Length: 33.33 ft Max Drawdown: — ft

Well Water Volume: 20.16 Gal Total Drawdown: 0.10 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	12:40	44.48	100	6.67	3040	16.83	-14	1.26	44.0
2	12:42	44.48	100	6.67	3020	16.94	-13	1.29	41.3
3	12:44	44.48	100	6.66	3070	16.99	-13	1.26	41.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horizon

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250-mL) <u>1000 mL</u>
1	(P, 1.5 L, HNO ₃)

(10)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>1000 mL</u>
2	TOC (A,V, <u>40mL, H₂SO₄</u>)

Final DTW: 44.54 ft

Comments Transducer S/N - 21615577 diss Iron ^{#2} = 3.365 ppm

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT OR04D Purge Method: Portable pump

Date: 5/16/23 Start Time: 0945 Finish/Sample Time: 1055

Well Depth (Bottom) From MP: 67.98 ft Min. Purge Volume: 1000 Gal / L mL

Depth to Water From MP: 20.22 ft Total Purge Volume: 1500 Gal / L mL

Water Column Length: 47.76 ft Max Drawdown: — ft

Well Water Volume: 28.92 Gal / L Total Drawdown: 0.00 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	0958	20.22	100	6.61	5809.1	17.05	-16.0	1.15	199.16
2	0959	20.22	100	6.62	5896.0	17.03	-15.8	1.12	212.14
3	1001	20.22	100	6.63	5864.6	17.01	-15.4	1.08	226.85
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatrol 600

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
	General (P, 250 mL)
1	P 2.5L HNO ₃
1	P 1000 mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
	General (P,500mL)
2	AV 40mL H ₂ SO ₄
1	P 1000 mL
6,143	Soluble Iron

Final DTW: 20.22 ft

Comments

Sampler's Signature:

WELL

OMS

Purge Method:

Portable pump

Date: 5/16/23

Start Time: 1104

Finish/Sample Time: 12/15

Well Depth (Bottom) From MP: 35.98 ft

Min. Purge Volume: 1000 Gal / L ml

Depth to Water From MP: 17.74 ft

Total Purge Volume: 1500 Gal / L ml

Water Column Length: 18.24 ft

Max Drawdown: _____ ft

Well Water Volume: 11,05 Gal / L

Total Drawdown: 10.16 ft

Reading (Units)	Time	Depth	Flow Rate	pH	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1116	22.60	100	6.73	1189.3	18.25	89.6	0.94	187.53
2	1118	22.62	100	6.73	1190.8	18.28	87.0	0.91	189.90
3	1119	22.65	100	6.73	1192.8	18.32	81.2	0.89	193.51
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Aquatroll 600

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P, 250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
	General (P, 250 mL)
1	P 2.5 L HNO ₃
1	P 1000 mL

Final DTW = 27.90

Comments

Sampler's Signature:

Jane Dr.

Duck Creek

WELL/SAMPLE POINT OR06A

Purge Method: Portable pump with Described tubing

Date: 5/17/2023 Start Time: 1220 Finish/Sample Time: 1345

Well Depth (Bottom) From MP: 25.05 ft 25.70 Min. Purge Volume: 1000 Gal / L (m)

Depth to Water From MP: 12.77 ft Total Purge Volume: 1000 Gal / L (m)

Water Column Length: 12.93 ft Max Drawdown: - ft

Well Water Volume: 7.52 Gal (C) Total Drawdown: 0.00 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	ml/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	1243	12.80	100	6.64	2510	15.65	S	1.18	465
2	1245	12.80	100	6.64	2500	15.70	I	1.15	429
3	1247	12.80	100	6.63	2510	15.83	-I	1.12	444
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Holiba

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

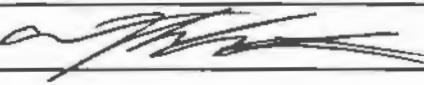
Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL) 1000mL
1	(g. 25L, HNO ₃)

(10)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) 1000 mV
2	TOC (A,V, 40mL, H ₂ SO ₄)

Final DTW: 12.77 ft

Comments Transducer S/N 21615692 diss Iron⁺² - overrange

Sampler's Signature: 

Duck Creek

WELL/SAMPLE POINT OM07

Purge Method:

portable pump with Descale
tubing

Date: 5/17/2023

Start Time: 10:40

Finish/Sample Time: 12/13

Well Depth (Bottom) From MP: 29.92 ft BBL

Min. Purge Volume: 100 Gal / L min

Depth to Water From MP: 12.18 ft

Total Purge Volume: 1000 ft³ Gal / L

Water Column Length: 17.84 ft

Max Drawdown: _____ ft

Well Water Volume: 10.79 Gal (L)

Total Drawdown: 0.12 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1115	12.33	100	6.95	1080	15.68	120	1.73	133
2	1117	12.33	100	6.94	1080	15.89	116	1.69	128
3	1119	12.33	100	6.93	1080	15.93	114	1.62	125
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiz

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✗	✗
Well cap fits securely.	✓	
Good seal/drainage		✗
Well has weep holes		✗

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod Strong

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P, 250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL) 1000 mL
1	CP, 2.5L, HNO ₃

Final DTW: 17.30 ft

Comments Transducer S/N = 21615541 No iron taken at this well has no casing Well due to not having enough amber

Sampler's Signature:

96

Duck Creek

WELL/SAMPLE POINT OR11 Purge Method: Portable pump
 Date: 5/15/23 Start Time: 1125 Finish/Sample Time: 1233
 Well Depth (Bottom) From MP: 43.85 ft 40.77 Min. Purge Volume: 1000 Gal / L 62
 Depth to Water From MP: 30.74 ft Total Purge Volume: 1500 Gal / L 76
 Water Column Length: 10.03 ft Max Drawdown: — ft
 Well Water Volume: 6.07 Gal / L Total Drawdown: 0.11 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1137	30.80	100	7.04	1060.6	16.15	-10.0	1.13	233.41
2	1138	30.80	100	7.04	1064.4	16.17	-10.9	1.12	220.26
3	1140	30.80	100	7.04	1067.7	16.20	-11.6	1.12	216.53
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatrak II 600

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
	General (P, 250 mL)
	P 2.5 L HNO ₃
1	P 1000 mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
	General (P,500mL)
2	A 40 mL H ₂ SO ₄
1	P 1000 mL
0.850	Soluble Iron +2 ppm

Final DTW: 30.85 ft

Comments

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT OM12 Purge Method: Portable pump
 Date: 5/15/23 Start Time: 1258 Finish/Sample Time: 1405
 Well Depth (Bottom) From MP: 5m 0.5ft Min. Purge Volume: 1000 Gal / L (ml)
 Depth to Water From MP: 43.19 ft Total Purge Volume: 1500 Gal / L (ml)
 Water Column Length: 15.80 ft Max Drawdown: — ft
 Well Water Volume: 27.31 ft Total Drawdown: 0.18 ft
 Well Water Volume: 16.54 Gal (C)

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1310	15.98	100	6.64	2031.2	16.42	-55.7	0.86	160.81
2	1312	15.98	100	6.65	2032.5	16.45	-56.1	0.86	177.99
3	1313	15.98	100	6.65	2034.1	16.48	-56.5	0.85	185.83
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AquaTrak 600

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	5m 0.5ft	/
Casing locked/secure	/	/
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes		/

No casing

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
	General (P, 250 mL)
1	P 1.5 L HNO ₃
1	P 1000 mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
	General (P,500mL)
2	A V 40 mL H ₂ SO ₄
1	P 1000 mL
Over range	Soluble Iron +2

Final DTW: 15.98 ft

Comments

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT OR13D

Purge Method: Portable pump

Date: <u>5/10/23</u>	Start Time: <u>1410</u> <u>540 5716</u>	Finish/Sample Time: <u>1520</u>
Well Depth (Bottom) From MP:	<u>-50.23 ft</u> <u>50.15</u>	Min. Purge Volume: <u>1000</u> Gal / L <u>(1)</u>
Depth to Water From MP:	<u>12.14</u> ft	Total Purge Volume: <u>1500</u> Gal / L <u>(1)</u>
Water Column Length:	<u>38.01</u> ft	Max Drawdown: _____ ft
Well Water Volume:	<u>23.02</u> Gal <u>(1)</u>	Total Drawdown: <u>0.00</u> ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	1421	12.14	100	6.94	1630	22.10	-59	1.50	>1000
2	1422	12.14	100	6.94	1620	22.13	-59	1.48	>1000
3	1424	12.14	100	6.93	1610	22.15	-60	1.47	>1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hach

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
	General (P, 250 mL)
1	P1000 mL
1	P2.5 L HNO ₃

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
	General (P,500mL)
1	P1000 mL
2	AU40 mL H ₂ SO ₄
2.166	Soluble Iron

Final DTW: 12.14 ft

Comments _____

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT OR13S

Purge Method: Portable Pump with Degasated Tubing

Date: 5/17/2023 Start Time: 1355 Finish/Sample Time: 1520

Well Depth (Bottom) From MP: 29.55 ft

Min. Purge Volume: 1000 Gal / L (m)

Depth to Water From MP: 11.95 ft

Total Purge Volume: 1000 Gal / L (m)

Water Column Length: 17.60 ft

Max Drawdown: — ft

Well Water Volume: 10.61 Gal (0)

Total Drawdown: 0.65 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1421	11.09	100	6.83	1970	16.43	+21	2.10	78.1
2	1423	11.09	100	6.82	1970	16.31	+22	1.94	73.6
3	1425	11.09	100	6.82	1960	16.27	-23	1.94	56.1
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: H01162

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod Strong

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL) <u>1000mL</u>
1	CP, 2.5L, HNO ₃

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>1000mL</u>
2	TOC (A,V, 500mL, H ₂ SO ₄) App 5/17/22

Final DTW: (2.00 ft

Comments Transducer s/n 21615676 Diss. Iron = 5.196 ppm

Sampler's Signature:



Duck Creek

WELL/SAMPLE POINT OR14D

Purge Method:

portable pump w/dedicated tubing

Date: 5/15/2023 Start Time: 1005 Finish/Sample Time: 1135

Well Depth (Bottom) From MP: 48.78 ft Min. Purge Volume: 1000 Gal / L (ml)

Depth to Water From MP: 8.83 ft Total Purge Volume: 1000 Gal / L (ml)

Water Column Length: 39.95 ft Max Drawdown: — ft

Well Water Volume: 24.16 Gal / C Total Drawdown: 0.19 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1036	9.01	100	6.54	2680	15.15	53	4.81	195
2	1038	9.02	100	6.54	2670	15.08	48	4.95	169
3	1040	9.02	100	6.53	2630	15.05	44	4.99	184
4					2630				
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
+	General (P, 250mL) <u>100 mL</u> <u>(P, 2.5L, HNO₃)</u>

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>1000 mL</u>
2	TOC (A,V, 40mL, H ₂ SO ₄)

Final DTW: 9.02 ft

Comments Transducer S/N - 21615611 diss Fe⁺² - 2.857 ppm

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT OM16 Purge Method: Portable pump

Date: 5/10/23 Start Time: 1238 Finish/Sample Time: 1350

Well Depth (Bottom) From MP: 43.51 ft Min. Purge Volume: 1000 Gal / L 500

Depth to Water From MP: 23.07 ft Total Purge Volume: 1500 Gal / L 500

Water Column Length: 20.44 ft Max Drawdown: _____ ft

Well Water Volume: 12.38 Gal / L Total Drawdown: 3.74 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1250	24.40	100	6.47	3440	26.05	34	1.20	>1000
2	1251	24.40	100	6.47	3460	26.10	35	1.17	>1000
3	1253	24.39	100	6.47	3470	26.13	32	1.21	>1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horiba

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely	/	
Good seal/drainage	/	
Well has weep holes	/	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
	General (P, 250 mL)
1	P 1600mL
1	P 2.5L HNO ₃

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
	General (P,500mL)
1	P 1000 mL
2	AV 40 mL H ₂ SO ₄
0.694	Soluble Iron *2
ppm	
	Final DTW: 26.81 ft

Comments

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT OM17

Purge Method: Portable pump

Date: 5/10/23 Start Time: 1100 Finish/Sample Time: 1214

Well Depth (Bottom) From MP: 17.45 ft Min. Purge Volume: 1000 Gal / L (ml)

Depth to Water From MP: 9.89 ft Total Purge Volume: 1500 Gal / L (ml)

Water Column Length: 7.56 ft Max Drawdown: _____ ft

Well Water Volume: 4.58 Gal / L Total Drawdown: 5.11 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1114	12.18	100	6.66	937	23.89	12	2.36	396
2	1115	12.20	100	6.66	929	23.85	14	2.32	390
3	1117	12.22	100	6.66	923	23.80	17	2.28	375
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes		/

BOTTLE INFORMATION:

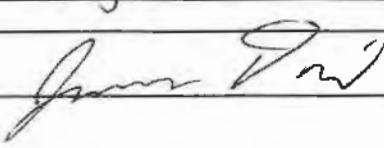
Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
	General (P, 250 mL)
1	P 1000 mL
1	P 2.5L HNO ₃

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
	General (P,500mL)
1	P 1000 mL
2	4V 40mL H ₂ SO ₄
0.115	5.61 ppm Soluble Iron ± 2

Final DTW: 15.00 ft

Comments Hobo connect well wouldn't show up. Dead battery?

5/17 charged + downloaded

Sampler's Signature: 

Duck Creek

WELL/SAMPLE POINT OR19 Purge Method: Portable pump
Date: 5/15/23 Start Time: 1420 Finish/Sample Time: 1528
Well Depth (Bottom) From MP: 55.03 ft ✓ Min. Purge Volume: 1000 Gal / L ML
Depth to Water From MP: 24.70 ft Total Purge Volume: 1500 Gal / L ML
Water Column Length: 30.33 ft Max Drawdown: — ft
Well Water Volume: 18.37 Gal / L Total Drawdown: 0.00 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1432	24.73	100	6.76	2650.6	18.03	-35.8	0.82	403.72
2	1433	24.73	100	6.75	2621.4	18.11	-35.6	0.79	385.71
3	1435	24.73	100	6.75	2621.7	18.15	-35.6	0.78	356.05
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aeratrol 600

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod Strong

Turb: None Slight Med Strong

None Slight Mod Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes		/

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
	General (P, 250 mL)
1	P 2.5L HNO3
1	P 1000 mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
	General (P,500mL)
2	AV 40mL H ₂ SO ₄
1	P 1000mL
Other reag	Soluble Iron ⁺²

Final DTW: 24.70 ft

Comments

Sampler's Signature:

104

Duck Creek

WELL/SAMPLE POINT	OR20	Purge Method:			
Date:	5/15/23	Start Time:	1000	Finish/Sample Time:	1110
Well Depth (Bottom) From MP:	57.55 ft ✓	Min. Purge Volume:	1000 Gal / L		
Depth to Water From MP:	21.25 ft	Total Purge Volume:	1600 Gal / L		
Water Column Length:	36.30 ft	Max Drawdown:	— ft		
Well Water Volume:	21.98 Gal	Total Drawdown:	0.02 ft		

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1016	21.25	100	6.92	2602.0	16.57	2.5	1.02	144.62
2	1018	21.25	100	6.92	2598.1	16.55	2.3	1.00	150.71
3	1019	21.25	100	6.92	2591.6	16.53	1.9	0.99	169.84
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aneroid/ 200

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.		/
Good seal/drainage	/	
Well has weep holes		/

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
	General (P, 250 mL)
1	P 2.5 L HNO ₃
1	P 1000 mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
	General (P,500mL)
2	AV 40mL H ₂ SO ₄
1	P 1000mL
2,160	Soluble Iron +2
	PPM

Final DTW: 21.27 ft

Comments

Sampler's Signature: Jeanne Drury

Duck Creek

WELL/SAMPLE POINT OM21 **Purge Method:** portable pump with dedicated tubing
 Date: 5/15/2023 Start Time: 1140 Finish/Sample Time: 1324
 Well Depth (Bottom) From MP: 60.55 ft 60.53 Min. Purge Volume: 1000 Gal / L (m)
 Depth to Water From MP: 8.65 ft Total Purge Volume: 1000 Gal / L (m)
 Water Column Length: 51.88 ft Max Drawdown: — ft
 Well Water Volume: 31.38 Gal (L) Total Drawdown: 0.15 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	1225	8.80	100	6.51	3620	13.60	-27	1.84	109
2	1227	8.80	100	6.51	3620	13.58	-28	1.73	110
3	1229	8.80	100	6.51	3620	13.55	-29	1.67	118
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hori6a

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P,250 mL) <u>1000mL</u>
1	(P, 2.5L, HNO ₃)

(10)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>1000mL</u>
2	TOC (A,V, 40mL, H ₂ SO ₄)

Final DTW: 8.80 ft

Comments Transducer S/N - 21615593 dis Iron +2 over range

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT OM22D

Purge Method:

Date: 5/17/2023

Start Time: 1535 (1535)

Finish/Sample Time: 1655

Well Depth (Bottom) From MP:

65.19 ft

Min. Purge Volume: 1000 Gal / L (ML)

Depth to Water From MP:

17.85 ft

Total Purge Volume: 1000 Gal / L (ML)

Water Column Length:

47.34 ft

Max Drawdown: — ft

Well Water Volume:

28.63 Gal (C)

Total Drawdown: 0.07 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	1554	17.92	100	6.70	3500	14.67	46	1.05	>1000
2	1556	17.92	100	6.70	3600	14.58	38	1.07	>1000
3	1558	17.92	100	6.69	3600	14.49	33	1.03	>1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

H0116a

Sample Appearance:

Odor: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250mL) 1000mL
1	(P, 250mL, HNO ₃)

10

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) 1000mL
2	Tox f Tox (A,V 40mL, H ₂ SO ₄)

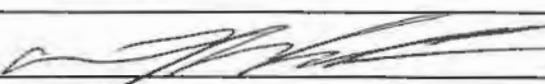
100 5/17/23

Final DTW: tot. 17.92 ft

Comments Transfer S/N 216 15592
AntaresL on well

diss Iron - 3.0 3.069

Sampler's Signature:



Duck Creek

WELL/SAMPLE POINT

OM23D

Purge Method:

baiter

Date:

5/15/23

Start Time:

5 1431

Finish/Sample Time:

1600

Well Depth (Bottom) From MP:

82.91 ft

Min. Purge Volume:

NA Gal / L

Depth to Water From MP:

37.83 ft

Total Purge Volume:

82.5 Gal / L

Water Column Length:

45.08 ft

Max Drawdown:

NA ft

Well Water Volume:

27.26 Gal / L

Total Drawdown:

0.17 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1309	38.30	27.5	7.22	1670	13.29	-34	2.29	89.8
2	1527	38.73	27.5	7.18	1680	13.20	-33	2.21	89.4
3	1543	39.09	27.5	7.12	1670	13.12	-23	2.17	75.3
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horiba

Sample Appearance:

Odor: None Slight Mod. StrongColor: None Slight Mod. StrongTurb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL) <u>100 mL</u>
1	2.5 L HNO ₃

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Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P, 250 mL) <u>1000 mL</u>
2	TOC <u>40 mL</u>

Final DTW: 38.0 ftComments: Could not get submersible pump to well - has to use baiter
S/N = 21615591Dis Total ⁺² $\approx 2.326 \text{ ppm}$

Sampler's Signature:

Joseph R. Neal

Duck Creek

WELL/SAMPLE POINT OM24D Purge Method: Portable pump
 Date: 5/16/23 Start Time: 1300 Finish/Sample Time: 1458
 Well Depth (Bottom) From MP: 49.88 ft 19.78 Min. Purge Volume: 1000 Gal / L (mL)
 Depth to Water From MP: 2.65 ft Total Purge Volume: 1500 Gal / L (mL)
 Water Column Length: 17.13 ft Max Drawdown: — ft
 Well Water Volume: 10.37 Gal (0) Total Drawdown: 0.04 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1313	2.69	100	6.79	3004.5	19.02	-17.7	1.16	685.33
2	1314	2.69	100	6.79	3005.4	19.05	-17.3	1.17	669.73
3	1316	2.69	100	6.79	3004.9	19.09	-17.1	1.17	639.37
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AquaTroll 600

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	/	/
Casing locked/secure	/	/
Well cap fits securely.	/	/
Good seal/drainage	/	/
Well has weep holes	/	/

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3 + 3 dup	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1 + 1 dup	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
	General (P, 250 mL)
1 + 1 dup	P 2.5L HNO ₃
1 + 1 dup	P 1000 mL

Filtered	
Qty	Bottles
1 + 1 dup	Metals (P,250mL, HNO ₃)
	Ammonia (P, 250mL, H ₂ SO ₄)
	General (P,500mL)
1 + 1 dup	P 1000 mL
2 + 2 dup	AV 40 mL H ₂ SO ₄
6.227	Stable Iron +2
PPM	

Final DTW: 2.69 ft

Comments

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT

OM25S

Purge Method:

Bailer

Date: 5/15/23 Start Time: 1210 Finish/Sample Time: 1314

Well Depth (Bottom) From MP: 62.07 ft 64.02 Min. Purge Volume: NA Gal / L

Depth to Water From MP: 57.83 ft Total Purge Volume: 1 Gal L

Water Column Length: 6.19 ft Max Drawdown: NA ft

Well Water Volume: 3.74 Gal / L Total Drawdown: 2.72 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1243	59.38	1ba	1	6.92	3280	13.53	2	5.29 72.6
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horiba

Sample Appearance:

Odor: None Slight Mod. StrongColor: None Slight Mod. StrongTurb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 250mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 250 mL) <u>1000mL</u>
1	2.5 L HNO ₃

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
2	General (P, 250 mL) <u>1000 mL</u>
	<u>TOC 40 mL</u>

Final DTW: 60.55 ftComments: S/N 21615681
Diss Iron = 0.404 ppm

Historically, very bad drawdown - used bailed

Sampler's Signature:

Joseph R Reed

Multiparameter Meter Field Calibration Checklist

Field Personnel:	<i>Aaron Kimberlin</i>			Location:	<i>Duck creek</i>				
Weather:	<i>67°-78° Wind 5k mph Sunny</i>			Environment:	<i>grass, dirt, trees</i>				
Multiparameter Water Meter	Make:	<i>AT</i>	Model:	<i>600</i>	Serial Number:	<i>762193</i>			
Water Level Meter	Make:	<i>Yerka</i>	Model:	<i>Dipper 7</i>	Serial Number:	<i>3717-7</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.08</i>	s.u.	± 0.1 s.u.	<i>P</i>	<i>No</i>	<i>N/A</i>	MSI	L344-09	12/14/2023
pH 7.00a	<i>7.01</i>	s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	<i>10.01</i>	s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	<i>19.83</i>	$\mu\text{S}/\text{cm}$	$0<25 \mu\text{S}/\text{cm}$				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>1995.5</i>	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Geotech	2GE1442	May-23
ORP	<i>224.8</i>	mV	± 15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	<i>0.00</i>	mg/L	± 0.1				Macron	#000228049	8/26/2025
DO (Saturated)	<i>00.87</i>	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.00</i>	NTU	<2 NTU	<i>✓</i>		<i>✓</i>	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time: <i>0942</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00b	<i>4.00</i>	s.u.	± 0.15 s.u.	<i>P</i>	<i>N/A</i>		Geotech	2GE870	Mar-24
pH 7.00b	<i>6.83</i>	s.u.	± 0.15 s.u.				Geotech	2GC931	Mar-24
pH 10.00b	<i>10.01</i>	s.u.	± 0.15 s.u.	<i>✓</i>			Geotech	2GE820	May-24
SC 1000	<i>1005.2</i>	$\mu\text{S}/\text{cm}$	$\pm 5\%$	<i>✓</i>			Ricca	4207N97	Jul-24
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time: <i>1539</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.03</i>	s.u.	± 0.1 s.u.	<i>P</i>	<i>No</i>	<i>N/A</i>	MSI	L344-09	12/14/2023
pH 7.00a	<i>7.00</i>	s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	<i>10.04</i>	s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	<i>1002.7</i>	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)	<i>0.00</i>	mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.00</i>	NTU	<2 NTU	<i>✓</i>			Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Comments:									
Signature:	<i>[Signature]</i>				Date:	<i>5/10/2023</i>			

Multiparameter Meter Field Calibration Checklist

Field Personnel:	<i>Brendan Glennon</i>			Location:	<i>Duck Creek</i>					
Weather:	<i>64° Mostly cloudy, 8 mph NW</i>			Environment:	<i>Grass Field</i>					
Multiparameter Water Meter	Make:	<i>AT</i>	Model:	<i>600</i>	Serial Number:	<i>762215</i>				
Water Level Meter	Make:	<i>Heron</i>	Model:	<i>200 ft.</i>	Serial Number:	<i>19FF2111 92AB</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a	<i>8.93</i>	s.u.	± 0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	L344-09	12/14/2023	
pH 7.00a	<i>6.96</i>	s.u.	± 0.1 s.u.	<i>—</i>	<i>—</i>	<i>—</i>	MSI	L343-07	12/9/2023	
pH 10.00a	<i>9.97</i>	s.u.	± 0.1 s.u.	<i>—</i>	<i>—</i>	<i>—</i>	MSI	M082-04	3/25/2024	
SC Zero (DI)	<i>16.21</i>	$\mu\text{S}/\text{cm}$	$0 < 25 \mu\text{S}/\text{cm}$	<i>—</i>	<i>—</i>	<i>—</i>	Pace Labs	N/A (DI)	N/A (DI)	
SC 2000	<i>1916.5</i>	$\mu\text{S}/\text{cm}$	$\pm 5\%$	<i>—</i>	<i>—</i>	<i>—</i>	Geotech	2GE1442	May-23	
ORP	<i>234.6</i>	mV	± 15 mV	<i>—</i>	<i>—</i>	<i>—</i>	InSitu	2G1762	Jun-23	
DO (Zero pt)	<i>0.10</i>	mg/L	± 0.1	<i>—</i>	<i>—</i>	<i>—</i>	Macron	#000228049	8/26/2025	
DO (Saturated)	<i>98.8</i>	%	97-100%	<i>—</i>	<i>—</i>	<i>—</i>	Pace Labs	N/A (DI)	N/A (DI)	
Turbidity (DI)	<i>0.00</i>	NTU	< 2 NTU	<i>—</i>	<i>—</i>	<i>—</i>	Pace Labs	N/A (DI)	N/A (DI)	
Approx. every 4 hrs, unless only one well										
ICV (Initial Calibration Verification)					Time: <i>0910</i>					
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?		Manufacturer	Lot#	Exp.	
pH 4.00b	<i>8.89</i>	s.u.	± 0.15 s.u.	<i>P</i>	<i>N</i>		Geotech	2GE870	Mar-24	
pH 7.00b	<i>8.86</i>	s.u.	± 0.15 s.u.	<i>—</i>	<i>—</i>		Geotech	2GC931	Mar-24	
pH 10.00b	<i>9.85</i>	s.u.	± 0.15 s.u.	<i>—</i>	<i>—</i>		Geotech	2GE820	May-24	
SC 1000	<i>993.41</i>	$\mu\text{S}/\text{cm}$	$\pm 5\%$	<i>—</i>	<i>—</i>		Ricca	4207N97	Jul-24	
Approx. every 4 hrs, unless only one well										
CCV (Continued Calibration Verification):					Time: <i>1500</i>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a	<i>8.97</i>	s.u.	± 0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	L344-09	12/14/2023	
pH 7.00a	<i>6.96</i>	s.u.	± 0.1 s.u.	<i>—</i>	<i>—</i>	<i>—</i>	MSI	L343-07	12/9/2023	
pH 10.00a	<i>9.91</i>	s.u.	± 0.1 s.u.	<i>—</i>	<i>—</i>	<i>—</i>	MSI	M082-04	3/25/2024	
SC 1000	<i>1016.21</i>	$\mu\text{S}/\text{cm}$	$\pm 5\%$	<i>—</i>	<i>—</i>	<i>—</i>	Ricca	4207N97	Jul-24	
DO (Zero pt)	<i>0.10</i>	mg/L	± 0.1 mg/L	<i>—</i>	<i>—</i>	<i>—</i>	Macron	#000228049	8/26/2025	
Turbidity (DI)	<i>0.0</i>	NTU	< 2 NTU	<i>—</i>	<i>—</i>	<i>—</i>	Pace Labs	N/A (DI)	N/A (DI)	
Approx. every 4 hrs, unless only one well										
CCV (Continued Calibration Verification):					Time:					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
4.00a		s.u.	± 0.1 s.u.				MSI	L344-09	12/14/2023	
7.00a		s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023	
10.00a		s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024	
SC 1000		$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24	
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025	
Turbidity (DI)		NTU	< 2 NTU				Pace Labs	N/A (DI)	N/A (DI)	
Comments:										
Signature:	<i>Brendan Glennon</i>				Date:	<i>5/10/23</i>				

Multiparameter Meter Field Calibration Checklist

Field Personnel:	JD			Location:	Vista Dark Creek				
Weather:	70°F sunny wind ESE 9-16 mph			Environment:	wetlands				
Multiparameter Water Meter	Make:	Hanna	Model:	U-5000	Serial Number:	V4U1FVT			
Water Level Meter	Make:	Hanna	Model:	Dipper-T	Serial Number:	19FF2202131ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	± 0.1 s.u.	pass	No	NA	MSI	L344-09	12/14/2023
pH 7.00a	6.91	s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.98	s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	9	$\mu\text{S}/\text{cm}$	0<25 $\mu\text{S}/\text{cm}$				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2090	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Geotech	2GE1442	May-23
ORP	232	mV	± 15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	± 0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.28	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	18	NTU	<2 NTU	Fail	Yes	0.0	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time: 1021				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00b	3.99	s.u.	± 0.15 s.u.	pass	NA		Geotech	2GE870	Mar-24
pH 7.00b	6.98	s.u.	± 0.15 s.u.				Geotech	2GC931	Mar-24
pH 10.00b	9.92	s.u.	± 0.15 s.u.				Geotech	2GE820	May-24
SC 1000	798	$\mu\text{S}/\text{cm}$	$\pm 5\%$	Fail	calibrated		Ricca	4207N97	Jul-24
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time: 1550				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.10	s.u.	± 0.1 s.u.	pass	No	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.03	s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.78	s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1040	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)	0.09	mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Comments:									
Signature:				Date:	5/10/23				

Multiparameter Meter Field Calibration Checklist

Field Personnel:	KYLE LANG			Location:	DUCK CREEK				
Weather:	55° to 81° SUNNY			Environment:	DRY				
Multiparameter Water Meter	Make:	Haniba	Model:	V-500B	Serial Number:	YL9KJ9HA			
Water Level Meter	Make:	Haniba	Model:	Waterline	Serial Number:	11FF2209305ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	± 0.1 s.u.	P	NP	Na	MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.98	s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	10.00	$\mu\text{s}/\text{cm}$	<25 $\mu\text{s}/\text{cm}$				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2.010	$\mu\text{s}/\text{cm}$	$\pm 5\%$				Geotech	2GE1442	May-23
ORP	2184	mV	± 15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.07	mg/L	± 0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.40	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	10:04			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.00	s.u.	± 0.1 s.u.	P	Na	Geotech	2GE870	Mar-24	
pH 7.00b	7.01	s.u.	± 0.1 s.u.			Geotech	2GC931	Mar-24	
pH 10.00b	9.87	s.u.	± 0.1 s.u.			Geotech	2GE820	May-24	
SC 1000	1030	$\mu\text{s}/\text{cm}$	$\pm 5\%$			Ricca	4207N97	Jul-24	

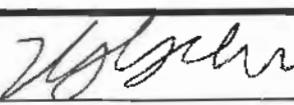
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	Na			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a		s.u.	± 0.1 s.u.				MSI	L344-09	12/14/2023
pH 7.00a		s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a		s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		$\mu\text{s}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

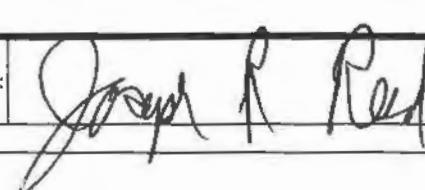
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	15:48			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.00	s.u.	± 0.1 s.u.	P	Na	No	MSI	L344-09	12/14/2023
7.00a	7.03	s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
10.00a	9.98	s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1000	$\mu\text{s}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)	0.07	mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.50	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:				Date:	5-10-2023			
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	J de Reed			Location:	Duck Creek					
Weather:				Environment:						
Multiparameter Water Meter		Make:	Hori da	Model:	K-5000	Serial Number:	PW2GYJD3			
Water Level Meter		Make:	Solinst	Model:	101	Serial Number:	P7/LM2			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a	4.00	s.u.	± 0.1 s.u.	P	N		MSI	L344-09	12/14/2023	
pH 7.00a	6.98	s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023	
pH 10.00a	9.99	s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024	
SC Zero (DI)	0.0	$\mu\text{S}/\text{cm}$	0<25 $\mu\text{S}/\text{cm}$				Pace Labs	N/A (DI)	N/A (DI)	
SC 2000	2.00	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Geotech	2GE1442	May-23	
ORP	239	mV	± 15 mV				InSitu	2G1762	Jun-23	
DO (Zero pt)	0.05	mg/L	± 0.1				Macron	#000228049	8/26/2025	
DO (Saturated)	98.7	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)	
Turbidity (DI)	0.1	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)	
Approx. every 4 hrs, unless only one well										
ICV (Initial Calibration Verification)					Time: 10:00					
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?		Manufacturer	Lot#	Exp.	
pH 4.00b	4.01	s.u.	± 0.15 s.u.	R	N		Geotech	2GE870	Mar-24	
pH 7.00b	6.99	s.u.	± 0.15 s.u.		J		Geotech	2GC931	Mar-24	
pH 10.00b	9.95	s.u.	± 0.15 s.u.		J		Geotech	2GE820	May-24	
SC 1000	990	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24	
Approx. every 4 hrs, unless only one well										
CCV (Continued Calibration Verification):					Time: 15:09					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a	4.02	s.u.	± 0.1 s.u.	P	N		MSI	L344-09	12/14/2023	
pH 7.00a	7.00	s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023	
pH 10.00a	9.99	s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024	
SC 1000	10.20	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24	
DO (Zero pt)	0.05	mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025	
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)	
Approx. every 4 hrs, unless only one well										
CCV (Continued Calibration Verification):					Time:					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
4.00a		s.u.	± 0.1 s.u.				MSI	L344-09	12/14/2023	
7.00a		s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023	
10.00a		s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024	
SC 1000		$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24	
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025	
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)	
Comments:										
Signature:					Date:	5/10/23				

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Kimberlin			Location:	Duck Creek				
Weather:	73°-79° Sunny W ^N E ^S 8 mph			Environment:	grass, dirt,				
Multiparameter Water Meter	Make:	Hori ⁿ	Model:	U5000	Serial Number:	U4U1EVTF			
Water Level Meter	Make:	Heron	Model:	Dipart	Serial Number:	19FF2111192FB			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	P	N/A	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.00	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	18	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	235	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	09.81	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

23N @ 21°C

ICV (Initial Calibration Verification)					Time:	1445			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?		Manufacturer	Lot#	Exp.
pH 4.00b	4.03	s.u.	±0.15 s.u.	P	N/A		Geotech	2GE870	Mar-24
pH 7.00b	6.99	s.u.	±0.15 s.u.				Geotech	2GC931	Mar-24
pH 10.00b	10.04	s.u.	±0.15 s.u.				Geotech	2GE820	May-24
SC 1000	989	µS/cm	±5%				Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1530			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.05	s.u.	±0.1 s.u.	P	N/A	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.07	s.u.	±0.1 s.u.	P			MSI	L343-07	12/9/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	10.10	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

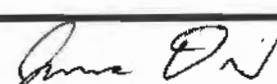
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	5/11/2023
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	JD			Location:	Vista Duck Creek				
Weather:	70-76°F m.sunny whd SE 10-14-14			Environment:	grass				
Multiparameter Water Meter	Make:	Aquaroll	Model:	600	Serial Number:	762215			
Water Level Meter	Make:	Heron	Model:	Dipper-T	Serial Number:	11FF2209305 ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.81	s.u.	± 0.1 s.u.	fail	Yes	4.00	MSI	L344-09	12/14/2023
pH 7.00a	6.95	s.u.	± 0.1 s.u.	pass	N/A	N/A	MSI	L343-07	12/9/2023
pH 10.00a	9.93	s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	15.67	$\mu\text{s}/\text{cm}$	0<25 $\mu\text{s}/\text{cm}$				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1964.5	$\mu\text{s}/\text{cm}$	$\pm 5\%$				Geotech	2GE1442	May-23
ORP	237.7	mV	± 15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.07	mg/L	± 0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.17	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time: 0739				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?		Manufacturer	Lot#	Exp.
pH 4.00b	4.03	s.u.	± 0.15 s.u.	pass	NN		Geotech	2GE870	Mar-24
pH 7.00b	6.89	s.u.	± 0.15 s.u.				Geotech	2GC931	Mar-24
pH 10.00b	9.92	s.u.	± 0.15 s.u.				Geotech	2GE820	May-24
SC 1000	991.10	$\mu\text{s}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time: 1541				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	± 0.1 s.u.	pass	N/A	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.10	s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.02	s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	971.18	$\mu\text{s}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)	0.07	mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		$\mu\text{s}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Comments:									
Signature:				Date:	5/11/23				

Multiparameter Meter Field Calibration Checklist

Field Personnel:	kyle lane			Location:	Duck Creek				
Weather:	69° sunny			Environment:	dry				
Multiparameter Water Meter	Make:	Horiba	Model:	V-500B	Serial Number:	PW2GyJ03			
Water Level Meter	Make:	Horiba	Model:	water tape	Serial Number:	3717-T			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	6.94	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.98	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	10.00	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2020	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	230	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	97.10	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.20	NTU	<2 NTU	b	↓	b	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	19:41		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.98	s.u.	±0.15 s.u.	A	NA	Geotech	2GE870	Mar-24
pH 7.00b	7.05	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.89	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1,010	µS/cm	±5%	b	↓	Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	No			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
pH 7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	16.04			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.05	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
7.00a	7.04	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a	10.88	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1040	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.00	mg/L	±0.1 mg/L	b	↓		Macron	#000228049	8/26/2025
Turbidity (DI)	1.50	NTU	<2 NTU	b	↓		Pace Labs	N/A (DI)	N/A (DI)

Comments:

NA

Signature:	Kyle	Date:	5-11-23
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed			Location:	Duck Creek				
Weather:	69-80° Wind 9-knot			Environment:	Gravel Road				
Multiparameter Water Meter	Make:	Horiba	Model:	U5000	Serial Number:	Y19KJ9HA			
Water Level Meter	Make:	Solinst	Model:	101	Serial Number:	P7/LM2			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	± 0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	7.00	s.u.	± 0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	9.99	s.u.	± 0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC Zero (DI)	0.0	$\mu\text{s}/\text{cm}$	0<25 $\mu\text{s}/\text{cm}$				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	20.00	$\mu\text{s}/\text{cm}$	$\pm 5\%$				Geotech	2GE1442	May-23
ORP	240	mV	± 15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.05	mg/L	± 0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.1	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	955		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.99	s.u.	± 0.1 s.u.	P	N	Geotech	2GE870	Mar-24
pH 7.00b	7.00	s.u.	± 0.1 s.u.	P	N	Geotech	2GC931	Mar-24
pH 10.00b	9.96	s.u.	± 0.1 s.u.	P	N	Geotech	2GE820	May-24
SC 1000	10.00	$\mu\text{s}/\text{cm}$	$\pm 5\%$	P	N	Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1615			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	± 0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	± 0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	10.00	s.u.	± 0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC 1000	9.90	$\mu\text{s}/\text{cm}$	$\pm 5\%$	P	N		Ricca	4207N97	Jul-24
DO (Zero pt)	0.05	mg/L	± 0.1 mg/L	P	N		Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		$\mu\text{s}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	Joseph R Reed	Date:	5/11/23
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed		Location:	Duck creek wet/gravel road/grass					
Weather:	63-81°F cloudy wind 7 mph		Environment:						
Multiparameter Water Meter	Make:	HoriBa	Model:	V5000	Serial Number:	PW2GYJD3			
Water Level Meter	Make:	Solinst	Model:	101	Serial Number:	252 879			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.98	s.u.	± 0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	6.99	s.u.	± 0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	10.00	s.u.	± 0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC Zero (DI)	4	$\mu\text{s}/\text{cm}$	0<25 $\mu\text{s}/\text{cm}$	P	N		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1990	$\mu\text{s}/\text{cm}$	$\pm 5\%$	P	N		Geotech	2GE1442	May-23
ORP	338	mV	± 15 mV	P	N		InSitu	2G1762	Jun-23
DO (Zero pt)	0.05	mg/L	± 0.1	P	N		Macron	#000228049	8/26/2025
DO (Saturated)	99.5	%	97-100%	P	N		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	9:12		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.99	s.u.	± 0.15 s.u.	P	N	Geotech	2GE870	Mar-24
pH 7.00b	6.98	s.u.	± 0.15 s.u.	P	N	Geotech	2GC931	Mar-24
pH 10.00b	9.98	s.u.	± 0.15 s.u.	P	N	Geotech	2GE820	May-24
SC 1000	9.98	$\mu\text{s}/\text{cm}$	$\pm 5\%$	P	N	Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1320			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	± 0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	7.00	s.u.	± 0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	10.00	s.u.	± 0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC 1000	10.10	$\mu\text{s}/\text{cm}$	$\pm 5\%$	P	N		Ricca	4207N97	Jul-24
DO (Zero pt)	0.05	mg/L	± 0.1 mg/L	P	N		Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		$\mu\text{s}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	Joseph R Reed		Date:	5/12/23	
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton			Location:	Ditch Creek				
Weather:	62° - 71° C Cloudy Wind NE 8 mph			Environment:	grass, gravel, dirt, woods				
Multiparameter Water Meter	Make:	Horiba	Model:	U5000	Serial Number:	UVU1 FVTF			
Water Level Meter	Make:	Hens	Model:	Dipper T	Serial Number:	3717-T			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.	P			MSI	L343-07	12/9/2023
pH 10.00a	10.05	s.u.	±0.1 s.u.	P			MSI	M082-04	3/25/2024
SC Zero (DI)	10	µS/cm	0<25 µS/cm	P			Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2020	µS/cm	±5%	P			Geotech	2GE1442	May-23
ORP	240	mV	±15 mV	P			InSitu	2G1762	Jun-23
DO (Zero pt)	0.00	mg/L	±0.1	P			Macron	#000228049	8/26/2025
DO (Saturated)	98.62	%	97-100%	P			Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P			Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 0930			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.64	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	Mar-24
pH 7.00b	6.91	s.u.	±0.15 s.u.	P		Geotech	2GC931	Mar-24
pH 10.00b	9.90	s.u.	±0.15 s.u.	P		Geotech	2GE820	May-24
SC 1000	1000	µS/cm	±5%	P		Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1630				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.05	s.u.	±0.1 s.u.	P			MSI	L343-07	12/9/2023
pH 10.00a	10.08	s.u.	±0.1 s.u.	P			MSI	M082-04	3/25/2024
SC 1000	1010	µS/cm	±5%	P			Ricca	4207N97	Jul-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L	P			Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P			Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	5/15/2023
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed			Location:	Duck Creek Power				
Weather:	Cloudy 62-71°F Wind 6 mph			Environment:	Grassy				
Multiparameter Water Meter	Make:	Horiba	Model:	U5000	Serial Number:	PW2GKJD3			
Water Level Meter	Make:	Solinst	Model:	101	Serial Number:	252879			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.98	s.u.	± 0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	6.99	s.u.	± 0.2 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.98	s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	1.2	$\mu\text{s}/\text{cm}$	0<25 $\mu\text{s}/\text{cm}$				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1990	$\mu\text{s}/\text{cm}$	$\pm 5\%$				Geotech	2GE1442	May-23
ORP	240	mV	± 15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.04	mg/L	± 0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.4	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	929			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?		Manufacturer	Lot#	Exp.
pH 4.00b	3.99	s.u.	± 0.15 s.u.	P			Geotech	2GE870	Mar-24
pH 7.00b	7.00	s.u.	± 0.15 s.u.				Geotech	2GC931	Mar-24
pH 10.00b	9.98	s.u.	± 0.15 s.u.				Geotech	2GE820	May-24
SC 1000	990	$\mu\text{s}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24

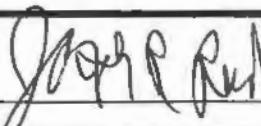
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	7A-1615			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	± 0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	7.00	s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.02	s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1020	$\mu\text{s}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)	8.05	mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		$\mu\text{s}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:				Date:	5/15/23		
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	JD			Location:	Visgra Duck Creek				
Weather:	61-68°F cloudy wind ENE 10 mph			Environment:	grass				
Multiparameter Water Meter	Make:	Aquaroll	Model:	600	Serial Number:	762215			
Water Level Meter	Make:	Heron	Model:	Dipper-T	Serial Number:	11FF2209305ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	± 0.1 s.u.	pass	no	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.05	s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.06	s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	10.31	$\mu\text{S}/\text{cm}$	0<25 $\mu\text{S}/\text{cm}$				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1751.4	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Geotech	2GE1442	May-23
ORP	2375	mV	± 15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	± 0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.28	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU	↓	↓	↓	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time:	0933			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?		Manufacturer	Lot#	Exp.
pH 4.00b	4.07	s.u.	± 0.15 s.u.	pass	NA		Geotech	2GE870	Mar-24
pH 7.00b	6.93	s.u.	± 0.15 s.u.				Geotech	2GC931	Mar-24
pH 10.00b	9.99	s.u.	± 0.15 s.u.				Geotech	2GE820	May-24
SC 1000	1032.8	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:	1610			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.10	s.u.	± 0.1 s.u.	pass	no	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.05	s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.09	s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	990.18	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)	0.07	mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	NTU	<2 NTU	↓	↓	↓	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Comments:									
Signature:				Date:	5/15/23				

Multiparameter Meter Field Calibration Checklist

Field Personnel:	KYL Lane			Location:	Duck Creek				
Weather:	57° to 70° C.bu dry			Environment:	Dry				
Multiparameter Water Meter	Make:	Nisiba	Model:	V-5000	Serial Number:	YL9KJ9HA			
Water Level Meter	Make:	Heron	Model:	Water tape	Serial Number:	19FF220213LM			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.12	s.u.	± 0.1 s.u.	P	yes	4.00	MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	± 0.1 s.u.	F	yes	7.00	MSI	L343-07	12/9/2023
pH 10.00a	10.08	s.u.	± 0.1 s.u.	P	NA	NA	MSI	M082-04	3/25/2024
SC Zero (DI)	2.00	$\mu\text{S}/\text{cm}$	$<2 \mu\text{S}/\text{cm}$				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	19.70	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Geotech	2GE1442	May-23
ORP	215	mV	± 15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.01	mg/L	± 0.1				Macron	#000228049	8/26/2025
DO (Saturated)	9.720	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time:	09:36			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	3.99	s.u.	± 0.15 s.u.	P	NA	Geotech	2GE870	Mar-24	
pH 7.00b	6.98	s.u.	± 0.15 s.u.			Geotech	2GC931	Mar-24	
pH 10.00b	10.09	s.u.	± 0.15 s.u.			Geotech	2GE820	May-24	
SC 1000	1.030	$\mu\text{S}/\text{cm}$	$\pm 5\%$			Ricca	4207N97	Jul-24	
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:	NA			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a		s.u.	± 0.1 s.u.				MSI	L344-09	12/14/2023
pH 7.00a		s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a		s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:	16:21			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.03	s.u.	± 0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
7.00a	6.94	s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
10.00a	9.97	s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1.025	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)	0.05	mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.50	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Comments: NA									
Signature:	Kylene			Date:	5-15-2023				

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Rimboster			Location:	Duck Creek				
Weather:	61° 75% RH cloudy wind NW 5 mph			Environment:	grass, dirt, gravel, woods				
Multiparameter Water Meter	Make:	Horiba	Model:	V5000	Serial Number:	U401FUTF			
Water Level Meter	Make:	Heron	Model:	Dipper T	Serial Number:	3717-T			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.11	s.u.	±0.1 s.u.	C	Yes	4.00	MSI	L344-09	12/14/2023
pH 7.00a	6.89	s.u.	±0.1 s.u.	C	Yes	7.00	MSI	L343-07	12/9/2023
pH 10.00a	10.15	s.u.	±0.1 s.u.	C	Yes	10.00	MSI	M082-04	3/25/2024
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm	P	N/A	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	236	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.00	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	11.16	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

23°C

ICV (Initial Calibration Verification)					Time:	0912			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.03	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	Mar-24	
pH 7.00b	7.03	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24	
pH 10.00b	10.05	s.u.	±0.15 s.u.			Geotech	2GE820	May-24	
SC 1000	0.67	µS/cm	±5%	—		Ricca	4207N97	Jul-24	

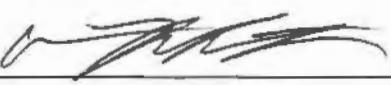
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1515			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.06	s.u.	±0.1 s.u.	P			MSI	L343-07	12/9/2023
pH 10.00a	10.08	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	10.10	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

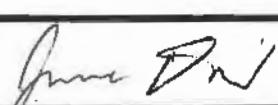
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	S/16/2023
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	JD			Location:	Vista Duck Creek				
Weather:	64-76°F, cloudy, wind NW 10 mph			Environment:	grass				
Multiparameter Water Meter	Make:	Aquatrol	Model:	600	Serial Number:	762215			
Water Level Meter	Make:	Heron	Model:	Dipper-T	Serial Number:	11FF2209305ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.04	s.u.	± 0.1 s.u.	pass	No	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.03	s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.08	s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	4.64	$\mu\text{S}/\text{cm}$	0<25 $\mu\text{S}/\text{cm}$				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1996.7	$\mu\text{S}/\text{cm}$	$\pm 5\%$		Yes	1996.9	Geotech	2GE1442	May-23
ORP	237.1	mV	± 15 mV		No	NA	InSitu	2G1762	Jun-23
DO (Zero pt)	0.07	mg/L	± 0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.52	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time:	0908			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?		Manufacturer	Lot#	Exp.
pH 4.00b	4.07	s.u.	± 0.15 s.u.	pass	NA		Geotech	2GE870	Mar-24
pH 7.00b	6.94	s.u.	± 0.15 s.u.				Geotech	2GC931	Mar-24
pH 10.00b	9.99	s.u.	± 0.15 s.u.				Geotech	2GE820	May-24
SC 1000	1000.6	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:	1540			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.10	s.u.	± 0.1 s.u.	pass	No	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.09	s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.10	s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1004.9	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)	0.09	mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Comments:									
Signature:				Date:	5/16/23				

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton			Location:	Duck creek				
Weather:	60°-76° sun/wind wind NE 9 mph			Environment:	Grass, dirt, woods				
Multiparameter Water Meter	Make:	Hori bu	Model:	VS000	Serial Number:	YL9KJAH			
Water Level Meter	Make:	Heron	Model:	Dipper?	Serial Number:	3717-7			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.	P		N/A	MSI	L343-07	12/9/2023
pH 10.00a	10.06	s.u.	±0.1 s.u.	P		N/A	MSI	M082-04	3/25/2024
SC Zero (DI)	15	µS/cm	0<25 µS/cm	P		N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1970	µS/cm	±5%	P		N/A	Geotech	2GE1442	May-23
ORP	245	mV	±15 mV	P		N/A	InSitu	2G1762	Jun-23
DO (Zero pt)	0.09	mg/L	±0.1	P		N/A	Macron	#000228049	8/26/2025
DO (Saturated)	9.810	%	97-100%	P		N/A	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P		N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	0930			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.02	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	Mar-24	
pH 7.00b	7.00	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC931	Mar-24	
pH 10.00b	10.06	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE820	May-24	
SC 1000	1000	µS/cm	±5%	P	N/A	Ricca	4207N97	Jul-24	

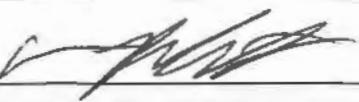
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1715			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.05	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.04	s.u.	±0.1 s.u.	P		N/A	MSI	L343-07	12/9/2023
pH 10.00a	10.08	s.u.	±0.1 s.u.	P		N/A	MSI	M082-04	3/25/2024
SC 1000	976	µS/cm	±5%	P		N/A	Ricca	4207N97	Jul-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L	P		N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P		N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	5/17/2023
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Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

July 14, 2023

Daryl Johnson
Vistra - Duck Creek
17751 North Cilco Road
Canton, IL 61520-8761

Dear Daryl Johnson:

Please find enclosed the **revised** analytical results for the sample(s) the laboratory received. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Gail Schindler
Sincerely,

Gail Schindler
Project Manager
(309) 692-9688 x1716
gail.schindler@pacelabs.com



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SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order GE02234

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GE02539

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GE02656

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GE02775

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GE03000

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GE03280

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GE03619

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

ANALYTICAL RESULTS

Sample: GE02234-01
Name: BA02L
Matrix: Ground Water - Grab

Sampled: 05/10/23 14:15
Received: 05/10/23 17:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Miscellaneous - Pace Analytical - Mt Juliet, Tn</u>									
Rad 226 and 228-Subcontract	1.57	pCi/L			1	0.389	06/13/23 21:10		904.0 903.0

Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-
Subcontract 1.57 pCi/L 1 0.389 06/13/23 21:10 904.0 903.0

Sample: GE02234-02
Name: BA03
Matrix: Ground Water

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Miscellaneous - Pace Analytical - Mt Juliet, Tn</u>									
Rad 226 and 228-Subcontract	0.788	pCi/L			1	0.535	06/13/23 21:10		904.0 903.0

Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-
Subcontract 0.788 pCi/L 1 0.535 06/13/23 21:10 904.0 903.0

Sample: GE02234-03
Name: BA03 DUP
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.807	pCi/L			1	0.598	06/15/23 18:26		904.0 903.0

Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-
Subcontract 0.807 pCi/L 1 0.598 06/15/23 18:26 904.0 903.0

Sample: GE02234-04
Name: BA03L
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.744	pCi/L			1	0.606	06/15/23 18:26		904.0 903.0

Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-
Subcontract 0.744 pCi/L 1 0.606 06/15/23 18:26 904.0 903.0



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ANALYTICAL RESULTS

Sample: GE02234-05 **Sampled:** 05/10/23 13:50
Name: OM16 **Received:** 05/10/23 17:20
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.34	pCi/L			1	0.769	06/15/23 18:26		904.0 903.0
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Sample: GE02234-06 **Sampled:** 05/10/23 12:14
Name: OM17 **Received:** 05/10/23 17:20
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.561 J	pCi/L			1	0.686	06/15/23 18:26		904.0 903.0
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Sample: GE02234-07 **Sampled:** 05/10/23 15:20
Name: OR13D **Received:** 05/10/23 17:20
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.853	pCi/L			1	0.611	06/16/23 00:06		904.0 903.0
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Sample: GE02234-09 **Sampled:** 05/10/23 15:45
Name: EB - 2 **Received:** 05/10/23 17:20
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.410 J	pCi/L			1	0.827	06/16/23 00:06		904.0 903.0
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ANALYTICAL RESULTS

Sample: GE02775-03 **Sampled:** 05/12/23 12:20
Name: G54L **Received:** 05/12/23 14:31
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.495 J	pCi/L			1	0.517	06/14/23 16:23		904.0 903.0

Sample: GE02775-04 **Sampled:** 05/12/23 13:04
Name: G54S **Received:** 05/12/23 14:31
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.881	pCi/L			1	0.551	06/14/23 16:23		904.0 903.0
Sample: GE02775-05 Sampled: 05/12/23 13:04 Name: G54S DUP Received: 05/12/23 14:31 Matrix: Ground Water - Field Duplicate									
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.229 U	pCi/L			1	0.7	06/14/23 16:23		904.0 903.0
Sample: GE02775-06 Sampled: 05/12/23 10:48 Name: G60L Received: 05/12/23 14:31 Matrix: Ground Water - Grab									
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.209 J	pCi/L			1	0.498	06/14/23 16:23		904.0 903.0



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ANALYTICAL RESULTS

Sample: GE03000-03 **Sampled:** 05/15/23 12:56
Name: G50S **Received:** 05/16/23 06:50
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.146 U	pCi/L			1	0.823	06/16/23 00:06		904.0 903.0

Sample: GE03000-04 **Sampled:** 05/15/23 11:26
Name: G51S **Received:** 05/16/23 06:50
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.07	pCi/L			1	0.531	06/16/23 00:06		904.0 903.0
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.234 U	pCi/L			1	0.575	06/16/23 00:06		904.0 903.0

Sample: GE03000-05 **Sampled:** 05/15/23 17:50
Name: EB #8 **Received:** 05/16/23 06:50
Matrix: Ground Water - Equipment Blank

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.234 U	pCi/L			1	0.575	06/16/23 00:06		904.0 903.0
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.234 U	pCi/L			1	0.575	06/16/23 00:06		904.0 903.0

Sample: GE03000-06 **Sampled:** 05/15/23 17:50
Name: EB #9 **Received:** 05/16/23 06:50
Matrix: Ground Water - Equipment Blank

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.0946 U	pCi/L			1	0.606	06/16/23 00:06		904.0 903.0



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ANALYTICAL RESULTS

Sample: GE03000-07 **Sampled:** 05/15/23 15:00
Name: G64L **Received:** 05/16/23 06:50
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.938	pCi/L			1	0.561	06/16/23 00:06		904.0 903.0
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Sample: GE03000-08 **Sampled:** 05/15/23 13:14
Name: OM25S **Received:** 05/16/23 06:50
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	27.8	pCi/L			1	10.6	06/16/23 00:06		904.0 903.0
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Sample: GE03000-09 **Sampled:** 05/15/23 14:05
Name: OM12 **Received:** 05/16/23 06:50
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.69	pCi/L			1	0.568	06/16/23 00:06		904.0 903.0
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Sample: GE03000-10 **Sampled:** 05/15/23 13:24
Name: OM21 **Received:** 05/16/23 06:50
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.53	pCi/L			1	0.59	06/16/23 00:06		904.0 903.0
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ANALYTICAL RESULTS

Sample: GE03280-04
Name: OM24D DUP
Matrix: Ground Water - Field Duplicate

Sampled: 05/16/23 14:58
Received: 05/16/23 17:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Miscellaneous - Pace Analytical - Mt Juliet, Tn</u>									
Rad 226 and 228-Subcontract	0.0414	U	pCi/L			0.601	06/16/23 17:47		904.0 903.0

Miscellaneous - Pace Analytical - Mt. Juliet Tn

Rad 226 and 228-
Subcontract 0.0414 U pCi/L 0.601 06/16/23 17:47 904.0 903.0

Sample: GE03280-05 **Sampled:** 05/16/23 12:14
Name: OR02 **Received:** 05/16/23 17:47
Matrix: Ground Water - Grab

Miscellaneous - Pace Analytical - Mt. Juliet Tn

Rad 226 and 228-
Subcontract 1.68 pCi/L 0.703 06/16/23 17:47 904.0 903.0

Sample: GE03280-06 **Sampled:** 05/16/23 13:36
Name: OR03D **Received:** 05/16/23 17:47
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.21	pCi/L				0.709	06/16/23 17:47		904.0 903.0

Miscellaneous - Pace Analytical - Mt Juliet, TN

Rad 226 and 228-
Subcontract 1.21 pCi/L 0.709 06/16/23 17:47 904.0 903.0

Sample: GE03280-07 **Sampled:** 05/16/23 10:55
Name: OR04D **Received:** 05/16/23 17:47
Matrix: Ground Water - Grab

Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-
Subcontract 2.39 pCi/L 0.593 06/16/23 17:47 904.0 903.0



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

ANALYTICAL RESULTS

Sample: GE03280-08 **Sampled:** 05/16/23 17:41
Name: EQUIPMENT BLANK 10 **Received:** 05/16/23 17:47
Matrix: Ground Water - Equipment Blank

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.329 J	pCi/L				0.577	06/16/23 17:47		904.0 903.0

Sample: GE03280-09 **Sampled:** 05/16/23 17:26
Name: EQUIPMENT BLANK 11 **Received:** 05/16/23 17:47
Matrix: Ground Water - Equipment Blank

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.213 U	pCi/L				0.695	06/16/23 17:47		904.0 903.0
Sample: GE03619-01 Sampled: 05/17/23 12:13 Name: OM07 Received: 05/17/23 18:14 Matrix: Ground Water - Grab									
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.643 J	pCi/L			1	0.681	06/14/23 17:51		904.0 903.0
Sample: GE03619-02 Sampled: 05/17/23 16:55 Name: OM22D Received: 05/17/23 18:14 Matrix: Ground Water - Grab									
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.54	pCi/L			1	0.497	06/16/23 17:46		904.0 903.0



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ANALYTICAL RESULTS

Sample: GE03619-03

Name: OR06A

Matrix: Ground Water - Grab

Sampled: 05/17/23 13:45

Received: 05/17/23 18:14

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.34	pCi/L			1	0.884	06/16/23 17:46		904.0 903.0
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Sample: GE03619-04

Name: OR13S

Matrix: Ground Water - Grab

Sampled: 05/17/23 15:20

Received: 05/17/23 18:14

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.320 J	pCi/L			1	0.606	06/16/23 17:46		904.0 903.0
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Sample: GE03619-05

Name: EQUIPMENT BLANK 12

Matrix: Ground Water - Equipment Blank

Sampled: 05/17/23 17:08

Received: 05/17/23 18:14

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.114 U	pCi/L			1	0.58	06/16/23 17:46		904.0 903.0
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(800)752-6651

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit



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Peoria, IL 61615
(800)752-6651

NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

Revised Report - made corrections and added missing samples.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050



Certified by: Gail Schindler, Project Manager



ANALYTICAL REPORT

June 23, 2023

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Pace IR - Peoria, IL

Sample Delivery Group: L1617720
Samples Received: 05/18/2023
Project Number: GE02234
Description: Vistra-Duck Creek
Site: 001
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
[Preliminary Report]

Haley Torrence
Project Manager

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

Pace Analytical National

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

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SAMPLE SUMMARY

		Collected by	Collected date/time	Received date/time			
			05/10/23 14:15	05/18/23 09:15			
BA02L L1617720-01 Non-Potable Water		Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Method							
Radiochemistry by Method 904/9320	WG2071725	1	06/05/23 15:23	06/08/23 20:25	SNR	Mt. Juliet, TN	1 Cp
Radiochemistry by Method Calculation	WG2072625	1	06/12/23 10:09	06/13/23 21:10	RGT	Mt. Juliet, TN	2 Tc
Radiochemistry by Method SM7500Ra B M	WG2072625	1	06/12/23 10:09	06/13/23 21:10	RGT	Mt. Juliet, TN	3 Ss
BA03 L1617720-02 Non-Potable Water		Collected by	Collected date/time	Received date/time			
Method							
Radiochemistry by Method 904/9320	WG2071725	1	06/05/23 15:23	06/08/23 20:25	SNR	Mt. Juliet, TN	4 Cn
Radiochemistry by Method Calculation	WG2072625	1	06/12/23 10:09	06/13/23 21:10	RGT	Mt. Juliet, TN	5 Sr
Radiochemistry by Method SM7500Ra B M	WG2072625	1	06/12/23 10:09	06/13/23 21:10	RGT	Mt. Juliet, TN	6 Qc
BA03 DUP L1617720-03 Non-Potable Water		Collected by	Collected date/time	Received date/time			
Method							
Radiochemistry by Method 904/9320	WG2071924	1	06/05/23 19:10	06/09/23 20:54	SNR	Mt. Juliet, TN	7 GI
Radiochemistry by Method Calculation	WG2072626	1	06/14/23 08:51	06/15/23 18:26	RGT	Mt. Juliet, TN	8 Al
Radiochemistry by Method SM7500Ra B M	WG2072626	1	06/14/23 08:51	06/15/23 18:26	RGT	Mt. Juliet, TN	9 Sc
BA03L L1617720-04 Non-Potable Water		Collected by	Collected date/time	Received date/time			
Method							
Radiochemistry by Method 904/9320	WG2071924	1	06/05/23 19:10	06/09/23 20:54	SNR	Mt. Juliet, TN	
Radiochemistry by Method Calculation	WG2072626	1	06/14/23 08:51	06/15/23 18:26	RGT	Mt. Juliet, TN	
Radiochemistry by Method SM7500Ra B M	WG2072626	1	06/14/23 08:51	06/15/23 18:26	RGT	Mt. Juliet, TN	
OM16 L1617720-05 Non-Potable Water		Collected by	Collected date/time	Received date/time			
Method							
Radiochemistry by Method 904/9320	WG2071924	1	06/05/23 19:10	06/09/23 20:54	SNR	Mt. Juliet, TN	
Radiochemistry by Method Calculation	WG2072626	1	06/14/23 08:51	06/15/23 18:26	RGT	Mt. Juliet, TN	
Radiochemistry by Method SM7500Ra B M	WG2072626	1	06/14/23 08:51	06/15/23 18:26	RGT	Mt. Juliet, TN	
OM17 L1617720-06 Non-Potable Water		Collected by	Collected date/time	Received date/time			
Method							
Radiochemistry by Method 904/9320	WG2071924	1	06/05/23 19:10	06/09/23 20:54	SNR	Mt. Juliet, TN	
Radiochemistry by Method Calculation	WG2072626	1	06/14/23 08:51	06/15/23 18:26	RGT	Mt. Juliet, TN	
Radiochemistry by Method SM7500Ra B M	WG2072626	1	06/14/23 08:51	06/15/23 18:26	RGT	Mt. Juliet, TN	

SAMPLE SUMMARY

		Collected by	Collected date/time	Received date/time		
			05/10/23 15:20	05/18/23 09:15		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2071924	1	06/05/23 19:10	06/09/23 20:54	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2072626	1	06/14/23 08:51	06/16/23 00:06	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2072626	1	06/14/23 08:51	06/16/23 00:06	RGT	Mt. Juliet, TN
		Collected by		Collected date/time	Received date/time	
				05/10/23 15:45	05/18/23 09:15	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2071924	1	06/05/23 19:10	06/09/23 20:54	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2072626	1	06/14/23 08:51	06/16/23 00:06	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2072626	1	06/14/23 08:51	06/16/23 00:06	RGT	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

[Preliminary Report]


Haley Torrence
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	1.44		0.214	0.342	06/08/2023 20:25	<u>WG2071725</u>
(<i>T</i>) Barium	98.4			30.0-143	06/08/2023 20:25	<u>WG2071725</u>
(<i>T</i>) Yttrium	119			30.0-136	06/08/2023 20:25	<u>WG2071725</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	1.57		0.256	0.389	06/13/2023 21:10	<u>WG2072625</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.125	J	0.140	0.185	06/13/2023 21:10	<u>WG2072625</u>
(<i>T</i>) Barium-133	97.4			30.0-143	06/13/2023 21:10	<u>WG2072625</u>

BA03

Collected date/time: 05/10/23 13:00

SAMPLE RESULTS - 02

L1617720

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.686		0.279	0.497	06/08/2023 20:25	<u>WG2071725</u>
(T) Barium	101			30.0-143	06/08/2023 20:25	<u>WG2071725</u>
(T) Yttrium	108			30.0-136	06/08/2023 20:25	<u>WG2071725</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.788		0.311	0.535	06/13/2023 21:10	<u>WG2072625</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.102	J	0.137	0.198	06/13/2023 21:10	<u>WG2072625</u>
(T) Barium-133	100			30.0-143	06/13/2023 21:10	<u>WG2072625</u>

BA03 DUP

Collected date/time: 05/10/23 13:00

SAMPLE RESULTS - 03

L1617720

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.690		0.260	0.456	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Barium	95.8			30.0-143	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Yttrium	105			30.0-136	06/09/2023 20:54	<u>WG2071924</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.807		0.354	0.598	06/15/2023 18:26	<u>WG2072626</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.117	<u>U</u>	0.240	0.387	06/15/2023 18:26	<u>WG2072626</u>
(<i>T</i>) Barium-133	85.5			30.0-143	06/15/2023 18:26	<u>WG2072626</u>

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.0980	<u>U</u>	0.295	0.535	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Barium	94.9			30.0-143	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Yttrium	115			30.0-136	06/09/2023 20:54	<u>WG2071924</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.744		0.456	0.606	06/15/2023 18:26	<u>WG2072626</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.646		0.348	0.285	06/15/2023 18:26	<u>WG2072626</u>
(<i>T</i>) Barium-133	88.0			30.0-143	06/15/2023 18:26	<u>WG2072626</u>

OM16

Collected date/time: 05/10/23 13:50

SAMPLE RESULTS - 05

L1617720

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.594	J	0.391	0.697	06/09/2023 20:54	<u>WG2071924</u>
(T) Barium	71.6			30.0-143	06/09/2023 20:54	<u>WG2071924</u>
(T) Yttrium	104			30.0-136	06/09/2023 20:54	<u>WG2071924</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	1.34		0.554	0.769	06/15/2023 18:26	<u>WG2072626</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.742		0.392	0.326	06/15/2023 18:26	<u>WG2072626</u>
(T) Barium-133	80.3			30.0-143	06/15/2023 18:26	<u>WG2072626</u>

OM17

Collected date/time: 05/10/23 12:14

SAMPLE RESULTS - 06

L1617720

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	-0.0713	<u>U</u>	0.311	0.568	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Barium	94.5			30.0-143	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Yttrium	110			30.0-136	06/09/2023 20:54	<u>WG2071924</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.561	<u>J</u>	0.491	0.686	06/15/2023 18:26	<u>WG2072626</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.561		0.380	0.385	06/15/2023 18:26	<u>WG2072626</u>
(<i>T</i>) Barium-133	72.7			30.0-143	06/15/2023 18:26	<u>WG2072626</u>

OR13D

Collected date/time: 05/10/23 15:20

SAMPLE RESULTS - 07

L1617720

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.353	<u>J</u>	0.286	0.513	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Barium	87.5			30.0-143	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Yttrium	123			30.0-136	06/09/2023 20:54	<u>WG2071924</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.853		0.435	0.611	06/16/2023 00:06	<u>WG2072626</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.500		0.328	0.331	06/16/2023 00:06	<u>WG2072626</u>
(<i>T</i>) Barium-133	78.3			30.0-143	06/16/2023 00:06	<u>WG2072626</u>

EB-2

Collected date/time: 05/10/23 15:45

SAMPLE RESULTS - 08

L1617720

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.410	J	0.394	0.709	06/09/2023 20:54	<u>WG2071924</u>
(T) Barium	89.6			30.0-143	06/09/2023 20:54	<u>WG2071924</u>
(T) Yttrium	101			30.0-136	06/09/2023 20:54	<u>WG2071924</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.410	J	0.457	0.827	06/16/2023 00:06	<u>WG2072626</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.000	U	0.231	0.425	06/16/2023 00:06	<u>WG2072626</u>
(T) Barium-133	79.2			30.0-143	06/16/2023 00:06	<u>WG2072626</u>

QUALITY CONTROL SUMMARY

L1617720-01,02

Method Blank (MB)

(MB) R3934754-1 06/08/23 20:25

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.102	<u>U</u>	0.142	0.261
(T) Barium	112		112	
(T) Yttrium	124		124	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1612483-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1612483-01 06/08/23 20:25 • (DUP) R3934754-5 06/08/23 20:25

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-228	14.7	0.437	0.512	15.5	0.531	0.512	1	5.22	1.15	<u>C1</u>	20	3
(T) Barium	239			213	213							
(T) Yttrium	109			123	123							

Laboratory Control Sample (LCS)

(LCS) R3934754-2 06/08/23 20:25

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	4.20	84.0	80.0-120	
(T) Barium			112		
(T) Yttrium			101		

L1613236-25 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1613236-25 06/08/23 20:25 • (MS) R3934754-3 06/08/23 20:25 • (MSD) R3934754-4 06/08/23 20:25

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-228	16.7	1.21	14.2	16.9	77.6	94.0	1	70.0-130		17.6		20
(T) Barium		94.6		106	104							
(T) Yttrium		110		108	128							

QUALITY CONTROL SUMMARY

[L1617720-03,04,05,06,07,08](#)

Method Blank (MB)

(MB) R3937268-1 06/09/23 20:54

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.324		0.147	0.260
(T) Barium	106		106	
(T) Yttrium	107		107	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1617724-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1617724-03 06/09/23 20:54 • (DUP) R3937268-5 06/09/23 20:54

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-228	-0.256	0.399	0.734	0.705	0.376	0.734	1	200	1.75		20	3
(T) Barium	106			94.2	94.2							
(T) Yttrium	96.8			115	115							

Laboratory Control Sample (LCS)

(LCS) R3937268-2 06/09/23 20:54

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	4.07	81.4	80.0-120	
(T) Barium			97.6		
(T) Yttrium			120		

L1617720-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1617720-08 06/09/23 20:54 • (MS) R3937268-3 06/09/23 20:54 • (MSD) R3937268-4 06/09/23 20:54

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.410	8.66	9.60	82.5	91.9	1	70.0-130			10.2		20
(T) Barium		89.6		105	98.0								
(T) Yttrium		101		118	106								

QUALITY CONTROL SUMMARY

[L1617720-01,02](#)

Method Blank (MB)

(MB) R3936878-1 06/13/23 18:47

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	0.0168	<u>U</u>	0.0520	0.0901
(T) Barium-133	91.2		91.2	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1617720-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1617720-01 06/13/23 21:10 • (DUP) R3936878-5 06/13/23 18:47

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.125	0.140	0.185	0.177	0.231	0.185	1	34.6	0.193	<u>J</u>	20	3
(T) Barium-133	97.4			101	101							

Laboratory Control Sample (LCS)

(LCS) R3936878-2 06/13/23 18:47

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.01	5.28	105	80.0-120	
(T) Barium-133			101		

L1613236-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1613236-17 06/13/23 21:10 • (MS) R3936878-3 06/13/23 18:47 • (MSD) R3936878-4 06/13/23 18:47

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.00663	19.9	19.0	99.7	95.1	1	75.0-125			4.72		20
(T) Barium-133		97.0			92.2	99.8							

QUALITY CONTROL SUMMARY

[L1617720-03,04,05,06,07,08](#)

Method Blank (MB)

(MB) R3940721-1 06/15/23 18:26

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	-0.0163	<u>U</u>	0.0422	0.100
(T) Barium-133	82.0		82.0	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1617724-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1617724-01 06/16/23 00:06 • (DUP) R3940721-5 06/15/23 18:26

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.110	0.233	0.371	0.121	0.248	0.371	1	9.44	0.0320	<u>U</u>	20	3
(T) Barium-133	83.7			82.7	82.7							

Laboratory Control Sample (LCS)

(LCS) R3940721-2 06/15/23 18:26

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.01	5.69	114	80.0-120	
(T) Barium-133			80.8		

L1617720-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1617720-03 06/15/23 18:26 • (MS) R3940721-3 06/15/23 18:26 • (MSD) R3940721-4 06/15/23 18:26

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.117	21.7	23.9	108	119	1	75.0-125			9.58		20
(T) Barium-133		85.5			80.8	86.0							

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

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
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

C1	Tracer recovery limits have been exceeded; values are outside upper control limits.
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

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.

¹ Cp

² TC

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ Al

⁹ Sc



Ship to :

Pace Analytical Services, LLC
12065 Lebanon Rd
Mt Juliet TN 37122

(615)758-5858

INTER LABORATORY WORK ORDER # GE02234

(To be complete by sending lab)

Sending Project No:	GE02234
Receiving Project No:	
Check Box for Consolidated Invoice:	
Date Prepared:	5/17/2023
REQUESTED COMPLETION DATE:	5/28/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	VISTRA - DUCK CREEK
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units

Report Wet or Dry Weight?

Cert Needed:

IL

WORK REQUESTED

Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226		9		9	\$121.05	\$1,089.45
Radium 228		9		9	\$121.05	\$1,089.45
		1		1		\$0.00
						TOTAL \$2,178.90

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary & edd

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$2,178.90	\$1,743.12	\$435.78
* Custom Revenue Allocation		TOTAL	\$1,743.12	\$435.78

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: Yes X No

CONFIRMATION OF WORK COMPLETED

Date Completed: _____

Receiving Project Manager: _____

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC
GE02234

U16N770

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

Sample: GE02234-06
Name: OM17

Sampled: 05/10/23 12:14
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/25/23 16:00	11/06/23 12:14	

Sample: GE02234-07
Name: OR13D

Sampled: 05/10/23 15:20
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/25/23 16:00	11/06/23 15:20	

Sample: GE02234-09
Name: EB - 2

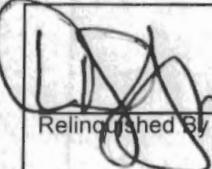
Sampled: 05/10/23 15:45
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/25/23 16:00	11/06/23 15:45	

Please email results to Gail Schindler at gail.schindler@pacelabs.com

Date Shipped: 5/17/23 Total # of Containers: 8 Sample Origin (State): TN PO #: _____

Turn-Around Time Requested NORMAL RUSH Date Results Needed: _____

	<u>5/17/23 1530</u>	Received By	Date/Time	Sample Temperature Upon Receipt _____ °C
Relinquished By	Date/Time	Received By	Date/Time	Sample(s) Received on Ice Y or N
				Proper Bottles Received in Good Condition Y or N
				Bottles Filled with Adequate Volume Y or N
				Samples Received Within Hold Time Y or N
Relinquished By	Date/Time	Received By	Date/Time	Date/Time Taken From Sample Bottle Y or N

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC
GE02234

L1617720

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

Sample: GE02234-01
Name: BA02L

Sampled: 05/10/23 14:15
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/25/23 16:00	11/06/23 14:15	

Sample: GE02234-02
Name: BA03

Sampled: 05/10/23 13:00
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/25/23 16:00	11/06/23 13:00	

Sample: GE02234-03
Name: BA03 DUP

Sampled: 05/10/23 13:00
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/25/23 16:00	11/06/23 13:00	

Sample: GE02234-04
Name: BA03L

Sampled: 05/10/23 14:15
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/25/23 16:00	11/06/23 14:15	

Sample: GE02234-05
Name: OM16

Sampled: 05/10/23 13:50
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/25/23 16:00	11/06/23 13:50	

U1617720

<u>Tracking Numbers</u>	<u>NS A7</u>	<u>Temperature</u>
6319 5998 8690		19.3±0=19.3
6319 5998 8715		17.3±0=17.3
6319 5998 8726		19.4±0=19.4
6319 5998 8704		13.1±0=13.1
6319 5998 8689		17.6±0=17.6

5/18-NCF-L1617720 PACEPIL

R5

Time estimate: oh

Time spent: oh

Members



Hailey Melson (responsible)



HT Haley Torrence

Due on 22 May 2023 8:00 AM for target Done

- 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: _____
- PM initials: _____
- Client Contact: _____

Comments

Hailey Melson

18 May 2023 2:52 PM

Missing ID: X301

Haley Torrence

19 May 2023 8:49 AM

PACEPIL notified 5/18

Haley Torrence

19 May 2023 1:23 PM

They said to disregard the missing sample. Thanks!

Hailey Melson

19 May 2023 1:35 PM

Done



ANALYTICAL REPORT

June 19, 2023

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Pace IR - Peoria, IL

Sample Delivery Group: L1617726
Samples Received: 05/18/2023
Project Number: GE02539
Description: Vistra-Duck Creek
Site: 001
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
[Preliminary Report]

Haley Torrence
Project Manager

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

Pace Analytical National

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

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Ss: Sample Summary	3	3 Ss
Cn: Case Narrative	4	4 Cn
Sr: Sample Results	5	5 Sr
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Qc: Quality Control Summary	6	7 GI
Radiochemistry by Method 904/9320	6	8 Al
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SAMPLE SUMMARY

Method	Batch	Dilution	Collected by	Collected date/time	Received date/time	Location
			Preparation date/time	Analysis date/time	Analyst	
Radiochemistry by Method 904/9320	WG2072260	1	06/06/23 11:11	06/10/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

[Preliminary Report]


Haley Torrence
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC

X301

Collected date/time: 05/10/23 15:43

SAMPLE RESULTS - 01

L1617726

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.0209	<u>U</u>	0.230	0.413	06/10/2023 08:55	<u>WG2072260</u>
(<i>T</i>) Barium	114			30.0-143	06/10/2023 08:55	<u>WG2072260</u>
(<i>T</i>) Yttrium	105			30.0-136	06/10/2023 08:55	<u>WG2072260</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.0299	<u>U</u>	0.287	0.542	06/14/2023 16:23	<u>WG2072628</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.00897	<u>U</u>	0.171	0.351	06/14/2023 16:23	<u>WG2072628</u>
(<i>T</i>) Barium-133	70.7			30.0-143	06/14/2023 16:23	<u>WG2072628</u>

QUALITY CONTROL SUMMARY

[L1617726-01](#)

Method Blank (MB)

(MB) R3935700-1 06/10/23 08:55

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	-0.0977	U	0.152	0.279
(T) Barium	114		114	
(T) Yttrium	93.4		93.4	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1617729-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1617729-01 06/10/23 08:55 • (DUP) R3935700-5 06/10/23 08:55

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-228	1.74	0.333	0.547	0.290	0.402	0.547	1	143	2.78	U	20	3
(T) Barium	81.8			86.3	86.3							
(T) Yttrium	139			132	132							

Laboratory Control Sample (LCS)

(LCS) R3935700-2 06/10/23 08:55

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	4.57	91.5	80.0-120	
(T) Barium			110		
(T) Yttrium			95.4		

L1617726-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1617726-01 06/10/23 08:55 • (MS) R3935700-3 06/10/23 08:55 • (MSD) R3935700-4 06/10/23 08:55

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.0209	15.4	14.2	91.8	84.9	1	70.0-130			7.78		20
(T) Barium		114		120	116								
(T) Yttrium		105		101	109								

QUALITY CONTROL SUMMARY

[L1617726-01](#)

Method Blank (MB)

(MB) R3937863-1 06/14/23 16:23

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	0.0613	J	0.0908	0.136
(T) Barium-133	47.6		47.6	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1617727-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1617727-01 06/14/23 16:23 • (DUP) R3937863-5 06/14/23 16:23

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.742	0.400	0.359	0.496	0.326	0.359	1	39.8	0.477		20	3
(T) Barium-133	76.2			83.9	83.9							

Laboratory Control Sample (LCS)

(LCS) R3937863-2 06/14/23 16:23

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.01	5.91	118	80.0-120	
(T) Barium-133			61.3		

L1617729-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1617729-03 06/14/23 16:23 • (MS) R3937863-3 06/14/23 16:23 • (MSD) R3937863-4 06/14/23 16:23

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.0663	22.3	22.1	111	110	1	75.0-125			0.946		20
(T) Barium-133		90.1			79.0	69.9							

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

MDA	Minimum Detectable Activity.	1 Cp
Rec.	Recovery.	2 Tc
RER	Replicate Error Ratio.	3 Ss
RPD	Relative Percent Difference.	4 Cn
SDG	Sample Delivery Group.	5 Sr
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.	6 Qc
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	7 GI
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.	8 Al
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.	9 Sc
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.
U	Below Detectable Limits: Indicates that the analyte was not detected.

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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ Al

⁹ Sc

A112

Internal Transfer Chain of Custody

State of Origin: IL
Cert. Needed: YES NO



GE02539

Workorder Name: VISTRA - DUCK CREEK

Owner Received

Date: 5/10/2023

Results Regu

By: 5/28/2023

Report To:	Subcontract To:	Requested Analysis
Gail Schindler Pace Analytical - IL/MO 2231 W. Altorfer Drive Peoria, IL 61615 800-752-6651	Pace Analytical - Mt Juliet 12065 Lebanon Rd Mt Juliet TN 37122	

41617726
LAB USE ONLY

Transfers	Date/Time	Received By	Date/Time	Comments
1	5/17/23 14:15			Needs 226, 228 and combined Include QC summary and edd
2				
3		Hannah Refton	5/18/23 09:15	10 day TAT

Cooler Temperature on Receipt

Custody Seal Y or N

Received on Ice Y or N

Sample Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

FMT-ALL-C-002rev.00 24 March 2009

Page 1 of 1

Sample Receipt Checklist

COC Seal Present/Intact: Y N If Applicable
COC Signed/Accurate: Y N VOA Zero Headspace: Y N
Bottles arrive intact: Y N Pres.Correct/Check: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
RAD Screen <0.5 mR/hr: Y N



Ship to :

Pace Analytical Services, LLC
 12065 Lebanon Rd
 Mt Juliet TN 37122
 (615)758-5858

INTER LABORATORY WORK ORDER # GE02539

(To be complete by sending lab)

Sending Project No:	GE02539
Receiving Project No:	
Check Box for Consolidated Invoice:	
Date Prepared:	5/17/2023
REQUESTED COMPLETION DATE:	5/28/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	VISTRA - DUCK CREEK
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units

Report Wet or Dry Weight?

Cert Needed:

IL

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226		1		1	\$121.05	\$121.05
Radium 228		1		1	\$121.05	\$121.05
		1		1		\$0.00
		TOTAL				\$242.10

Special Requirements:

Report as 226, 228 & combined 226/228. Include QC summary & edd

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$242.10	\$193.68	\$48.42
* Custom Revenue Allocation		TOTAL	\$193.68	\$48.42

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region:

 Yes X No

CONFIRMATION OF WORK COMPLETED

Date Completed:

Receiving Project Manager:

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC
GE02539

L1617726

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

Sample: GE02539-01
Name: X301

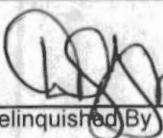
Sampled: 05/10/23 15:43
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/26/23 16:00	11/06/23 15:43	

Please email results to Gail Schindler at gail.schindler@pacelabs.com

Date Shipped: 5/17/23 Total # of Containers: 1 Sample Origin (State): TN PO #:

Turn-Around Time Requested NORMAL RUSH Date Results Needed: _____

 Relinquished By	Date/Time	Received By	Date/Time	Sample Temperature Upon Receipt _____ °C
	5/17/23 14:15			Sample(s) Received on Ice Y or N
				Proper Bottles Received in Good Condition Y or N
				Bottles Filled with Adequate Volume Y or N
				Samples Received Within Hold Time Y or N
Relinquished By	Date/Time	Received By	Date/Time	Date/Time Taken From Sample Bottle Y or N

11617726

<u>Tracking Numbers</u>		<u>NS A7</u> <u>Temperature</u>
631959988690		$19.3 \pm 0 = 19.3$
631959988715		$17.3 \pm 0 = 17.3$
631959988726		$19.4 \pm 0 = 19.4$
631959988704		$13.1 \pm 0 = 13.1$
631959988689		$17.6 \pm 0 = 17.6$



ANALYTICAL REPORT

June 19, 2023

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷GI

⁸AI

⁹Sc

Pace IR - Peoria, IL

Sample Delivery Group: L1617727
Samples Received: 05/18/2023
Project Number: GE02656
Description: Vistra-Duck Creek
Site: 001
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
[Preliminary Report]

Haley Torrence
Project Manager

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

Pace Analytical National

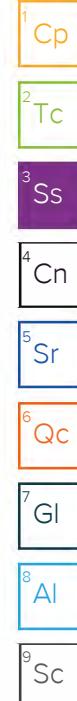
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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BA04 L1617727-02	6	 7 GI
G57S L1617727-03	7	 8 AL
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SAMPLE SUMMARY

		Collected by		Collected date/time	Received date/time	
				05/11/23 13:33	05/18/23 09:15	
BA01 L1617727-01 Non-Potable Water		Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Method						Location
Radiochemistry by Method 904/9320		WG2072260	1	06/06/23 11:11	06/10/23 08:55	SNR
Radiochemistry by Method Calculation		WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT
Radiochemistry by Method SM7500Ra B M		WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT
BA04 L1617727-02 Non-Potable Water		Collected by		Collected date/time	Received date/time	
Method				05/11/23 11:40	05/18/23 09:15	
Radiochemistry by Method 904/9320		WG2072260	1	06/06/23 11:11	06/10/23 08:55	SNR
Radiochemistry by Method Calculation		WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT
Radiochemistry by Method SM7500Ra B M		WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT
G57S L1617727-03 Non-Potable Water		Collected by		Collected date/time	Received date/time	
Method				05/11/23 15:22	05/18/23 09:15	
Radiochemistry by Method 904/9320		WG2072260	1	06/06/23 11:11	06/10/23 08:55	SNR
Radiochemistry by Method Calculation		WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT
Radiochemistry by Method SM7500Ra B M		WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT
G64S L1617727-04 Non-Potable Water		Collected by		Collected date/time	Received date/time	
Method				05/11/23 15:11	05/18/23 09:15	
Radiochemistry by Method 904/9320		WG2072260	1	06/06/23 11:11	06/10/23 08:55	SNR
Radiochemistry by Method Calculation		WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT
Radiochemistry by Method SM7500Ra B M		WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT
EB-4 L1617727-05 Non-Potable Water		Collected by		Collected date/time	Received date/time	
Method				05/11/23 16:00	05/18/23 09:15	
Radiochemistry by Method 904/9320		WG2072260	1	06/06/23 11:11	06/10/23 08:55	SNR
Radiochemistry by Method Calculation		WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT
Radiochemistry by Method SM7500Ra B M		WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT



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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

[Preliminary Report]


Haley Torrence
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC

BA01

Collected date/time: 05/11/23 13:33

SAMPLE RESULTS - 01

L1617727

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.0869	<u>U</u>	0.200	0.359	06/10/2023 08:55	WG2072260
(<i>T</i>) Barium	113			30.0-143	06/10/2023 08:55	WG2072260
(<i>T</i>) Yttrium	135			30.0-136	06/10/2023 08:55	WG2072260

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.829		0.447	0.508	06/14/2023 16:23	WG2072628

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.742		0.400	0.359	06/14/2023 16:23	WG2072628
(<i>T</i>) Barium-133	76.2			30.0-143	06/14/2023 16:23	WG2072628

BA04

Collected date/time: 05/11/23 11:40

SAMPLE RESULTS - 02

L1617727

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	-0.0966	<u>U</u>	0.286	0.513	06/10/2023 08:55	<u>WG2072260</u>
(<i>T</i>) Barium	99.1			30.0-143	06/10/2023 08:55	<u>WG2072260</u>
(<i>T</i>) Yttrium	119			30.0-136	06/10/2023 08:55	<u>WG2072260</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.152	<u>U</u>	0.335	0.559	06/14/2023 16:23	<u>WG2072628</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.152	<u>J</u>	0.174	0.223	06/14/2023 16:23	<u>WG2072628</u>
(<i>T</i>) Barium-133	73.5			30.0-143	06/14/2023 16:23	<u>WG2072628</u>

G57S

Collected date/time: 05/11/23 15:22

SAMPLE RESULTS - 03

L1617727

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.290	J	0.220	0.387	06/10/2023 08:55	WG2072260
(T) Barium	104			30.0-143	06/10/2023 08:55	WG2072260
(T) Yttrium	118			30.0-136	06/10/2023 08:55	WG2072260

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.432	J	0.287	0.467	06/14/2023 16:23	WG2072628

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.143	J	0.184	0.261	06/14/2023 16:23	WG2072628
(T) Barium-133	93.3			30.0-143	06/14/2023 16:23	WG2072628

G64S

Collected date/time: 05/11/23 15:11

SAMPLE RESULTS - 04

L1617727

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	-0.231	<u>U</u>	0.242	0.441	06/10/2023 08:55	<u>WG2072260</u>
(<i>T</i>) Barium	120			30.0-143	06/10/2023 08:55	<u>WG2072260</u>
(<i>T</i>) Yttrium	107			30.0-136	06/10/2023 08:55	<u>WG2072260</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.232	<u>J</u>	0.306	0.484	06/14/2023 16:23	<u>WG2072628</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.232		0.187	0.200	06/14/2023 16:23	<u>WG2072628</u>
(<i>T</i>) Barium-133	88.7			30.0-143	06/14/2023 16:23	<u>WG2072628</u>

EB-4

Collected date/time: 05/11/23 16:00

SAMPLE RESULTS - 05

L1617727

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	-0.399	<u>U</u>	0.263	0.485	06/10/2023 08:55	WG2072260
(<i>T</i>) Barium	115			30.0-143	06/10/2023 08:55	WG2072260
(<i>T</i>) Yttrium	102			30.0-136	06/10/2023 08:55	WG2072260

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.000	<u>U</u>	0.298	0.590	06/14/2023 16:23	WG2072628

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	-0.0343	<u>U</u>	0.141	0.336	06/14/2023 16:23	WG2072628
(<i>T</i>) Barium-133	75.0			30.0-143	06/14/2023 16:23	WG2072628

QUALITY CONTROL SUMMARY

[L1617727-01,02,03,04,05](#)

Method Blank (MB)

(MB) R3935700-1 06/10/23 08:55

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	-0.0977	U	0.152	0.279
(T) Barium	114		114	
(T) Yttrium	93.4		93.4	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1617729-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1617729-01 06/10/23 08:55 • (DUP) R3935700-5 06/10/23 08:55

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-228	1.74	0.333	0.547	0.290	0.402	0.547	1	143	2.78	U	20	3
(T) Barium	81.8			86.3	86.3							
(T) Yttrium	139			132	132							

Laboratory Control Sample (LCS)

(LCS) R3935700-2 06/10/23 08:55

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	4.57	91.5	80.0-120	
(T) Barium			110		
(T) Yttrium			95.4		

L1617726-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1617726-01 06/10/23 08:55 • (MS) R3935700-3 06/10/23 08:55 • (MSD) R3935700-4 06/10/23 08:55

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.0209	15.4	14.2	91.8	84.9	1	70.0-130		7.78		20
(T) Barium		114		120	116							
(T) Yttrium		105		101	109							

QUALITY CONTROL SUMMARY

[L1617727-01,02,03,04,05](#)

Method Blank (MB)

(MB) R3937863-1 06/14/23 16:23

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	0.0613	J	0.0908	0.136
(T) Barium-133	47.6		47.6	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1617727-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1617727-01 06/14/23 16:23 • (DUP) R3937863-5 06/14/23 16:23

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.742	0.400	0.359	0.496	0.326	0.359	1	39.8	0.477		20	3
(T) Barium-133	76.2			83.9	83.9							

Laboratory Control Sample (LCS)

(LCS) R3937863-2 06/14/23 16:23

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.01	5.91	118	80.0-120	
(T) Barium-133			61.3		

L1617729-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1617729-03 06/14/23 16:23 • (MS) R3937863-3 06/14/23 16:23 • (MSD) R3937863-4 06/14/23 16:23

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.0663	22.3	22.1	111	110	1	75.0-125			0.946		20
(T) Barium-133		90.1			79.0	69.9							

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

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
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.
U	Below Detectable Limits: Indicates that the analyte was not detected.

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.

¹ Cp

² TC

³ Ss

⁴ Cn

⁵ Sr

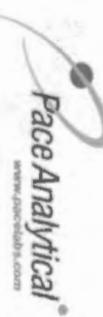
⁶ Qc

⁷ GI

⁸ Al

⁹ Sc

Ship to :
Pace Analytical Services, LLC
www.paceanalytical.com



INTER-LABORATORY WORK ORDER # GE02656

(To be complete by sending lab)

12065 Lebanon Rd

Mt Juliet TN 37122

(615)758-5858

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	VISTRAL - DUCK CREEK
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? _____ Cert Needed: _____ IL

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226		5		5	\$121.05	\$605.25
Radium 228		5		5	\$121.05	\$605.25
		1		1	\$0.00	\$0.00
			TOTAL		\$1,210.50	

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary & edd

Receiving Region Department	ACCEB Code	Revenue Allocation	
		Receiving Region (80%)	Client Services Dept.
radiological	38	\$1,210.50	\$242.10
		\$968.40	
* Custom Revenue Allocation		TOTAL	\$242.10
		\$968.40	

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: Yes No

Date Completed: _____ Receiving Project Manager: _____

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

U617727

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

GE02656

UL017727

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

Sample: GE02656-01

Name: BA01

Sampled: 05/11/23 13:33
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis

Due	Expires	Comments
05/26/23 16:00	11/07/23 13:33	

Analysis

Due	Expires	Comments
05/26/23 16:00	11/07/23 11:40	

Analysis

Due	Expires	Comments
05/26/23 16:00	11/07/23 11:40	

Analysis

Due	Expires	Comments
05/26/23 16:00	11/07/23 11:40	

Analysis

Due	Expires	Comments
05/26/23 16:00	11/07/23 15:22	

Analysis

Due	Expires	Comments
05/26/23 16:00	11/07/23 15:22	

Sample: GE02656-03
Name: G57S

Sampled: 05/11/23 15:22
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis

Due	Expires	Comments
05/26/23 16:00	11/07/23 15:22	

Analysis

Due	Expires	Comments
05/26/23 16:00	11/07/23 15:22	

Sample: GE02656-04
Name: G64S

Sampled: 05/11/23 15:11
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis

Due	Expires	Comments
05/26/23 16:00	11/07/23 15:11	

Sample: GE02656-05
Name: EB-4

Sampled: 05/11/23 16:00
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis

Due	Expires	Comments
05/26/23 16:00	11/07/23 16:00	

Sample: GE02656-06
Name: 01-Radium 226/228 combined

Sampled: 05/26/23 16:00
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis

Due	Expires	Comments
05/26/23 16:00	11/07/23 16:00	

Analysis

Due	Expires	Comments
05/26/23 16:00	11/07/23 16:00	

Analysis

Due	Expires	Comments
05/26/23 16:00	11/07/23 16:00	

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Analysis

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Analysis

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Due	Expires	Comments
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Analysis

Due	Expires	Comments
05/26/23 16:00	11/07/23 16:00	

Analysis

Due	Expires	Comments
05/26/23 16:00	11/07/23 16:00	

Analysis

Due	Expires	Comments
05/26/23 16:00	11/07/23 16:00	

Analysis

Due	Expires	Comments
05/26/23 16:00	11/07/23 16:00	

Analysis

Due	Expires	Comments
05/26/23 16:00	11/07/23 16:00	

Analysis

Due	Expires	Comments
05/26/23 16:00	11/07/23 16:00	

Analysis

Due	Expires	Comments
05/26/23 16:00	11/07/23 16:00	

Analysis

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

GE02656

LL07727

Please email results to Gail Schindler at gail.schindler@pacelabs.com

Date Shipped: 5/17/23 Total # of Containers: 5 Sample Origin (State): IL PO #: _____

Turn-Around Time Requested NORMAL RUSH

Date Results Needed: _____

Sample Temperature Upon Receipt	°C
Sample(s) Received on Ice	Y or N
Proper Bottles Received in Good Condition	Y or N
Bottles Filled with Adequate Volume	Y or N
Samples Received Within Hold Time	Y or N
Date/Time Taken From Sample Bottle	Y or N

Relinquished By	Date/Time	Received By	Date/Time
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1161727

<u>Tracking Numbers</u>	<u>NS A7 Temperature</u>
6319 5998 8690	19.3±0=19.3
6319 5998 8715	17.3±0=17.3
6319 5998 8720	19.4±0=19.4
6319 5998 8704	13.1±0=13.1
6319 5998 8689	17.6±0=17.6



ANALYTICAL REPORT

June 19, 2023

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷GI

⁸AI

⁹Sc

Pace IR - Peoria, IL

Sample Delivery Group: L1617729
Samples Received: 05/18/2023
Project Number: GE02775
Description: Vistra-Duck Creek
Site: 001
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
[Preliminary Report]

Haley Torrence
Project Manager

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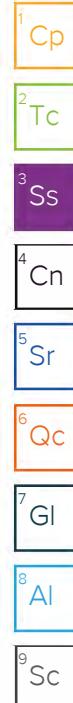
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SAMPLE SUMMARY



BA05 L1617729-01 Non-Potable Water

Method	Batch	Dilution	Preparation	Analysis date/time	Analyst	Location
			date/time			
Radiochemistry by Method 904/9320	WG2072260	1	06/06/23 11:11	06/10/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT	Mt. Juliet, TN

BA06 L1617729-02 Non-Potable Water

Method	Batch	Dilution	Preparation	Analysis date/time	Analyst	Location
			date/time			
Radiochemistry by Method 904/9320	WG2072260	1	06/06/23 11:11	06/10/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT	Mt. Juliet, TN

G54L L1617729-03 Non-Potable Water

Method	Batch	Dilution	Preparation	Analysis date/time	Analyst	Location
			date/time			
Radiochemistry by Method 904/9320	WG2072260	1	06/06/23 11:11	06/10/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT	Mt. Juliet, TN

G54S L1617729-04 Non-Potable Water

Method	Batch	Dilution	Preparation	Analysis date/time	Analyst	Location
			date/time			
Radiochemistry by Method 904/9320	WG2072260	1	06/06/23 11:11	06/10/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT	Mt. Juliet, TN

G54S DUP L1617729-05 Non-Potable Water

Method	Batch	Dilution	Preparation	Analysis date/time	Analyst	Location
			date/time			
Radiochemistry by Method 904/9320	WG2072260	1	06/06/23 11:11	06/10/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT	Mt. Juliet, TN

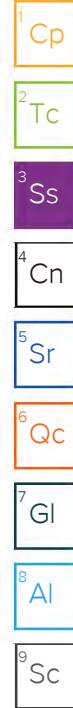
G60L L1617729-06 Non-Potable Water

Method	Batch	Dilution	Preparation	Analysis date/time	Analyst	Location
			date/time			
Radiochemistry by Method 904/9320	WG2072260	1	06/06/23 11:11	06/10/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT	Mt. Juliet, TN

SAMPLE SUMMARY

			Collected by	Collected date/time	Received date/time	
				05/12/23 11:00	05/18/23 09:15	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2072260	1	06/06/23 11:11	06/10/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT	Mt. Juliet, TN

			Collected by	Collected date/time	Received date/time	
				05/12/23 12:45	05/18/23 09:15	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2072260	1	06/06/23 11:11	06/10/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT	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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

[Preliminary Report]


Haley Torrence
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC

BA05

Collected date/time: 05/12/23 10:50

SAMPLE RESULTS - 01

L1617729

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.74		0.333	0.547	06/10/2023 08:55	WG2072260
(<i>T</i>) Barium	81.8			30.0-143	06/10/2023 08:55	WG2072260
(<i>T</i>) Yttrium	139	C1		30.0-136	06/10/2023 08:55	WG2072260

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.07		0.425	0.628	06/14/2023 16:23	WG2072628

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.326		0.264	0.309	06/14/2023 16:23	WG2072628
(<i>T</i>) Barium-133	90.3			30.0-143	06/14/2023 16:23	WG2072628

BA06

Collected date/time: 05/12/23 12:19

SAMPLE RESULTS - 02

L1617729

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.683		0.233	0.398	06/10/2023 08:55	WG2072260
(<i>T</i>) Barium	101			30.0-143	06/10/2023 08:55	WG2072260
(<i>T</i>) Yttrium	134			30.0-136	06/10/2023 08:55	WG2072260

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.11		0.420	0.577	06/14/2023 16:23	WG2072628

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.426		0.349	0.418	06/14/2023 16:23	WG2072628
(<i>T</i>) Barium-133	81.8			30.0-143	06/14/2023 16:23	WG2072628

G54L

Collected date/time: 05/12/23 12:20

SAMPLE RESULTS - 03

L1617729

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.429		0.241	0.420	06/10/2023 08:55	WG2072260
(<i>T</i>) Barium	121			30.0-143	06/10/2023 08:55	WG2072260
(<i>T</i>) Yttrium	115			30.0-136	06/10/2023 08:55	WG2072260

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.495	<u>J</u>	0.295	0.517	06/14/2023 16:23	WG2072628

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0663	<u>U</u>	0.170	0.301	06/14/2023 16:23	WG2072628
(<i>T</i>) Barium-133	90.1			30.0-143	06/14/2023 16:23	WG2072628

G54S

Collected date/time: 05/12/23 13:04

SAMPLE RESULTS - 04

L1617729

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.749		0.274	0.469	06/10/2023 08:55	WG2072260
(T) Barium	114			30.0-143	06/10/2023 08:55	WG2072260
(T) Yttrium	138	C1		30.0-136	06/10/2023 08:55	WG2072260

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.881		0.335	0.551	06/14/2023 16:23	WG2072628

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.131	J	0.192	0.289	06/14/2023 16:23	WG2072628
(T) Barium-133	86.3			30.0-143	06/14/2023 16:23	WG2072628

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	-0.396	<u>U</u>	0.285	0.529	06/10/2023 08:55	WG2072260
(<i>T</i>) Barium	114			30.0-143	06/10/2023 08:55	WG2072260
(<i>T</i>) Yttrium	94.8			30.0-136	06/10/2023 08:55	WG2072260

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.229	<u>U</u>	0.426	0.700	06/14/2023 16:23	WG2072628

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.229	<u>J</u>	0.317	0.459	06/14/2023 16:23	WG2072628
(<i>T</i>) Barium-133	65.7			30.0-143	06/14/2023 16:23	WG2072628

G60L

Collected date/time: 05/12/23 10:48

SAMPLE RESULTS - 06

L1617729

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	-0.394	<u>U</u>	0.220	0.414	06/10/2023 08:55	WG2072260
(T) Barium	113			30.0-143	06/10/2023 08:55	WG2072260
(T) Yttrium	119			30.0-136	06/10/2023 08:55	WG2072260

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.209	<u>J</u>	0.309	0.498	06/14/2023 16:23	WG2072628

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.209	<u>J</u>	0.217	0.276	06/14/2023 16:23	WG2072628
(T) Barium-133	88.5			30.0-143	06/14/2023 16:23	WG2072628

G60S

Collected date/time: 05/12/23 11:00

SAMPLE RESULTS - 07

L1617729

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.528		0.297	0.517	06/10/2023 08:55	WG2072260
(T) Barium	108			30.0-143	06/10/2023 08:55	WG2072260
(T) Yttrium	150	C1		30.0-136	06/10/2023 08:55	WG2072260

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.911		0.467	0.689	06/14/2023 16:23	WG2072628

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.383	J	0.360	0.456	06/14/2023 16:23	WG2072628
(T) Barium-133	62.1			30.0-143	06/14/2023 16:23	WG2072628

EB-7

Collected date/time: 05/12/23 12:45

SAMPLE RESULTS - 08

L1617729

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.0250	<u>U</u>	0.235	0.425	06/10/2023 08:55	WG2072260
(<i>T</i>) Barium	108			30.0-143	06/10/2023 08:55	WG2072260
(<i>T</i>) Yttrium	127			30.0-136	06/10/2023 08:55	WG2072260

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.0799	<u>U</u>	0.279	0.512	06/14/2023 16:23	WG2072628

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.0550	<u>U</u>	0.150	0.285	06/14/2023 16:23	WG2072628
(<i>T</i>) Barium-133	63.2			30.0-143	06/14/2023 16:23	WG2072628

QUALITY CONTROL SUMMARY

[L1617729-01,02,03,04,05,06,07,08](#)

Method Blank (MB)

(MB) R3935700-1 06/10/23 08:55

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	-0.0977	U	0.152	0.279
(T) Barium	114		114	
(T) Yttrium	93.4		93.4	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1617729-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1617729-01 06/10/23 08:55 • (DUP) R3935700-5 06/10/23 08:55

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-228	1.74	0.333	0.547	0.290	0.402	0.547	1	143	2.78	U	20	3
(T) Barium	81.8			86.3	86.3							
(T) Yttrium	139			132	132							

Laboratory Control Sample (LCS)

(LCS) R3935700-2 06/10/23 08:55

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	4.57	91.5	80.0-120	
(T) Barium			110		
(T) Yttrium			95.4		

L1617726-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1617726-01 06/10/23 08:55 • (MS) R3935700-3 06/10/23 08:55 • (MSD) R3935700-4 06/10/23 08:55

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.0209	15.4	14.2	91.8	84.9	1	70.0-130			7.78		20
(T) Barium		114		120	116								
(T) Yttrium		105		101	109								

QUALITY CONTROL SUMMARY

[L1617729-01,02,03,04,05,06,07,08](#)

Method Blank (MB)

(MB) R3937863-1 06/14/23 16:23

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	0.0613	J	0.0908	0.136
(T) Barium-133	47.6		47.6	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1617727-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1617727-01 06/14/23 16:23 • (DUP) R3937863-5 06/14/23 16:23

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.742	0.400	0.359	0.496	0.326	0.359	1	39.8	0.477		20	3
(T) Barium-133	76.2			83.9	83.9							

Laboratory Control Sample (LCS)

(LCS) R3937863-2 06/14/23 16:23

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.01	5.91	118	80.0-120	
(T) Barium-133			61.3		

L1617729-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1617729-03 06/14/23 16:23 • (MS) R3937863-3 06/14/23 16:23 • (MSD) R3937863-4 06/14/23 16:23

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.0663	22.3	22.1	111	110	1	75.0-125			0.946		20
(T) Barium-133		90.1			79.0	69.9							

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

MDA	Minimum Detectable Activity.	¹ Cp
Rec.	Recovery.	² Tc
RER	Replicate Error Ratio.	³ Ss
RPD	Relative Percent Difference.	⁴ Cn
SDG	Sample Delivery Group.	⁵ Sr
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.	⁶ Qc
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	⁷ Gl
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.	⁸ Al
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.	⁹ Sc
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

C1	Tracer recovery limits have been exceeded; values are outside upper control limits.
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

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.

¹ Cp

² TC

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ Al

⁹ Sc

A110

Internal Transfer Chain of Custody

State of Origin: IL
Cert. Needed: YES NO

Pace Analytical
www.pacefaids.com

GE02775

Workorder Name: VISTRA - DUCK CREEK

Owner Received

Results Regu

5/28/2023

Report To:	Subcontract To:	Requested Analysis
Gail Schindler Pace Analytical - IL/MO 2231 W. Altorfer Drive Peoria, IL 61615 800-752-6651	Pace Analytical - Mt Juliet 12065 Lebanon Rd Mt Juliet TN 37122	

Transfers	Date/Time	Received By	Date/Time	Comments
1	5/17/23 1440			Needs 226, 228 and combined Include QC summary and edd
2				
3	Haily RZ	Haily Robison	5/18/23 0915	10 day TAT

Cooler Temperature on Receipt °C Custody Seal Y or N

Received on Ice Y or N

Sample Intact X or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature, This chain of custody is considered complete as is since this information is available in the owner laboratory.

EMT-ALL-C-002rev.00 24March2009

Page 1 of 1

Sample Receipt Checklist
COC Seal Present/Intact: Y N IF Applicable
COC Signed/Accurate: Y N VOA Zero Headspace: Y N
Bottles arrive intact: Y N Pres.Correct/Check: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
RAD Screen <0.5 mR/hr: Y N

Pace Analytical®

www.paceanalytical.com

Ulot 7729

Ship to :

Pace Analytical Services, LLC

12065 Lebanon Rd

Mt Juliet TN 37122

INTER LABORATORY WORK ORDER # GE02775

(To be complete by sending lab)

Sending Project No: GE02775

Receiving Project No:

Check Box for Consolidated Invoice:

(615)758-5858

Date Prepared:	5/17/2023
REQUESTED COMPLETION DATE: 5/28/2023	

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	VISTRAL - DUCK CREEK
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? _____ Cert Needed: _____ IL

WORK REQUESTED					
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price
Radium 226		8		8	\$121.05
Radium 228		8		8	\$121.05
		1		1	\$0.00
					TOTAL \$1,936.80

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary & edd

Receiving Region Department	Acct#-Code	Totals from above	
		Receiving Region (80%)	Revenue Allocation
radiological	38	\$1,936.80	\$1,549.44
			\$387.36
* Custom Revenue Allocation		TOTAL \$1,549.44	\$387.36

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSOReturn Samples to Sending Region: Yes No**CONFIRMATION OF WORK COMPLETED**
Date Completed: _____ Receiving Project Manager: _____

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

GE02775

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-5551

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

Analysis	Due	Expires	Comments												
01-Radium 226/228 combined	05/29/23 16:00	11/08/23 10:48	Sampled: 05/12/23 10:48 Matrix: Ground Water Preservative: HNO3, pH <2												
01-Radium 226/228 combined	05/29/23 16:00	11/08/23 11:00	Sampled: 05/12/23 12:45 Matrix: Ground Water Preservative: HNO3, pH <2												
Analysis	Due	Expires	Comments												
01-Radium 226/228 combined	05/29/23 16:00	11/08/23 12:45	Sample: GE02775-08 Name: EB - 7												
Analysis	Due	Expires	Comments												
01-Radium 226/228 combined	05/29/23 16:00	11/08/23 12:45													
<p>Please email results to Gail Schindler at gail.schindler@pacelabs.com</p>															
Date Shipped: <u>5/17/23</u>	Total # of Containers: <u>8</u>	Sample Origin (State): <u>Tl</u>	PO #: _____												
Turn-Around Time Requested <input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> RUSH	Date Results Needed: _____														
<table border="0"> <tr> <td>Sample Temperature Upon Receipt</td> <td>_____ °C</td> </tr> <tr> <td>Sample(s) Received on Ice</td> <td>Y or N</td> </tr> <tr> <td>Proper Bottles Received in Good Condition</td> <td>Y or N</td> </tr> <tr> <td>Bottles Filled with Adequate Volume</td> <td>Y or N</td> </tr> <tr> <td>Samples Received Within Hold Time</td> <td>Y or N</td> </tr> <tr> <td>Date/Time Taken From Sample Bottle</td> <td>Y or N</td> </tr> </table>				Sample Temperature Upon Receipt	_____ °C	Sample(s) Received on Ice	Y or N	Proper Bottles Received in Good Condition	Y or N	Bottles Filled with Adequate Volume	Y or N	Samples Received Within Hold Time	Y or N	Date/Time Taken From Sample Bottle	Y or N
Sample Temperature Upon Receipt	_____ °C														
Sample(s) Received on Ice	Y or N														
Proper Bottles Received in Good Condition	Y or N														
Bottles Filled with Adequate Volume	Y or N														
Samples Received Within Hold Time	Y or N														
Date/Time Taken From Sample Bottle	Y or N														
Relinquished By	Date/Time	Received By	Date/Time												

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

GE02775

U1017729

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

Sample: GE02775-01
Name: BA05

Sampled: 05/12/23 10:50
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/29/23 16:00	11/08/23 10:50	

Sample: GE02775-02
Name: BA06

Sampled: 05/12/23 12:19
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/29/23 16:00	11/08/23 12:19	

Sample: GE02775-03
Name: G54L

Sampled: 05/12/23 12:20
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/29/23 16:00	11/08/23 12:20	

Sample: GE02775-04
Name: G54S

Sampled: 05/12/23 13:04
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/29/23 16:00	11/08/23 13:04	

Sample: GE02775-05
Name: G54S DUP

Sampled: 05/12/23 13:04
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/29/23 16:00	11/08/23 13:04	

01-Radium 226/228 combined

05/29/23 16:00
11/08/23 13:04

Wetma

<u>Tracking Numbers</u>	<u>N5 A7 Temperature</u>
6319 5998 8690	19.3±0=19.3
6319 5998 8715	17.3±0=17.3
6319 5998 8726	19.4±0=19.4
6319 5998 8704	13.1±0=13.1
6319 5998 8689	17.6±0=17.6



ANALYTICAL REPORT

June 23, 2023

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Pace IR - Peoria, IL

Sample Delivery Group: L1617724
Samples Received: 05/18/2023
Project Number: GE03000
Description: Vistra-Duck Creek
Site: 001
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
[Preliminary Report]

Haley Torrence
Project Manager

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

Pace Analytical National

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

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SAMPLE SUMMARY

		Collected by	Collected date/time	Received date/time
			05/15/23 11:23	05/18/23 09:15
Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320	WG2071924	1	06/05/23 19:10	06/09/23 20:54
Radiochemistry by Method Calculation	WG2072626	1	06/14/23 08:51	06/16/23 00:06
Radiochemistry by Method SM7500Ra B M	WG2072626	1	06/14/23 08:51	06/16/23 00:06
G02S L1617724-02 Non-Potable Water		Collected by	Collected date/time	Received date/time
			05/15/23 15:18	05/18/23 09:15
Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320	WG2071924	1	06/05/23 19:10	06/09/23 20:54
Radiochemistry by Method Calculation	WG2072626	1	06/14/23 08:51	06/16/23 00:06
Radiochemistry by Method SM7500Ra B M	WG2072626	1	06/14/23 08:51	06/16/23 00:06
G50S L1617724-03 Non-Potable Water		Collected by	Collected date/time	Received date/time
			05/15/23 12:56	05/18/23 09:15
Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320	WG2071924	1	06/05/23 19:10	06/09/23 20:54
Radiochemistry by Method Calculation	WG2072626	1	06/14/23 08:51	06/16/23 00:06
Radiochemistry by Method SM7500Ra B M	WG2072626	1	06/14/23 08:51	06/16/23 00:06
G51S L1617724-04 Non-Potable Water		Collected by	Collected date/time	Received date/time
			05/15/23 11:26	05/18/23 09:15
Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320	WG2071924	1	06/05/23 19:10	06/09/23 20:54
Radiochemistry by Method Calculation	WG2072626	1	06/14/23 08:51	06/16/23 00:06
Radiochemistry by Method SM7500Ra B M	WG2072626	1	06/14/23 08:51	06/16/23 00:06
EB #8 L1617724-05 Non-Potable Water		Collected by	Collected date/time	Received date/time
			05/15/23 17:50	05/18/23 09:15
Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320	WG2071924	1	06/05/23 19:10	06/09/23 20:54
Radiochemistry by Method Calculation	WG2072626	1	06/14/23 08:51	06/16/23 00:06
Radiochemistry by Method SM7500Ra B M	WG2072626	1	06/14/23 08:51	06/16/23 00:06
EB #9 L1617724-06 Non-Potable Water		Collected by	Collected date/time	Received date/time
			05/15/23 17:50	05/18/23 09:15
Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320	WG2071924	1	06/05/23 19:10	06/09/23 20:54
Radiochemistry by Method Calculation	WG2072626	1	06/14/23 08:51	06/16/23 00:06
Radiochemistry by Method SM7500Ra B M	WG2072626	1	06/14/23 08:51	06/16/23 00:06

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gi

8 Al

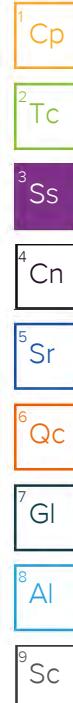
9 Sc

SAMPLE SUMMARY

		Collected by	Collected date/time	Received date/time
			05/15/23 15:00	05/18/23 09:15
Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320	WG2071924	1	06/05/23 19:10	06/09/23 20:54
Radiochemistry by Method Calculation	WG2072626	1	06/14/23 08:51	06/16/23 00:06
Radiochemistry by Method SM7500Ra B M	WG2072626	1	06/14/23 08:51	06/16/23 00:06
		Collected by	Collected date/time	Received date/time
			05/15/23 13:14	05/18/23 09:15
BA02OM25S L1617724-08 Non-Potable Water	Batch	Dilution	Preparation date/time	Analysis date/time
Method	Batch	Dilution	Preparation date/time	Analyst
Radiochemistry by Method 904/9320	WG2071924	1	06/05/23 19:10	SNR
Radiochemistry by Method Calculation	WG2072626	1	06/14/23 08:51	RGT
Radiochemistry by Method SM7500Ra B M	WG2072626	1	06/14/23 08:51	RGT
		Collected by	Collected date/time	Received date/time
			05/15/23 14:05	05/18/23 09:15
OM12 L1617724-09 Non-Potable Water	Batch	Dilution	Preparation date/time	Analyst
Method	Batch	Dilution	Preparation date/time	Location
Radiochemistry by Method 904/9320	WG2071924	1	06/05/23 19:10	SNR
Radiochemistry by Method Calculation	WG2072626	1	06/14/23 08:51	RGT
Radiochemistry by Method SM7500Ra B M	WG2072626	1	06/14/23 08:51	RGT
		Collected by	Collected date/time	Received date/time
			05/15/23 13:24	05/18/23 09:15
OM21 L1617724-10 Non-Potable Water	Batch	Dilution	Preparation date/time	Analyst
Method	Batch	Dilution	Preparation date/time	Location
Radiochemistry by Method 904/9320	WG2071924	1	06/05/23 19:10	SNR
Radiochemistry by Method Calculation	WG2072626	1	06/14/23 08:51	RGT
Radiochemistry by Method SM7500Ra B M	WG2072626	1	06/14/23 08:51	RGT
		Collected by	Collected date/time	Received date/time
			05/15/23 16:00	05/18/23 09:15
OM23D L1617724-11 Non-Potable Water	Batch	Dilution	Preparation date/time	Analyst
Method	Batch	Dilution	Preparation date/time	Location
Radiochemistry by Method 904/9320	WG2071924	1	06/05/23 19:10	SNR
Radiochemistry by Method Calculation	WG2072626	1	06/14/23 08:51	RGT
Radiochemistry by Method SM7500Ra B M	WG2072626	1	06/14/23 08:51	RGT
		Collected by	Collected date/time	Received date/time
			05/15/23 12:33	05/18/23 09:15
OM11 L1617724-12 Non-Potable Water	Batch	Dilution	Preparation date/time	Analyst
Method	Batch	Dilution	Preparation date/time	Location
Radiochemistry by Method 904/9320	WG2071924	1	06/05/23 19:10	SNR
Radiochemistry by Method Calculation	WG2072626	1	06/14/23 08:51	RGT
Radiochemistry by Method SM7500Ra B M	WG2072626	1	06/14/23 08:51	RGT

SAMPLE SUMMARY

		Collected by	Collected date/time	Received date/time		
			05/15/23 11:35	05/18/23 09:15		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2071924	1	06/05/23 19:10	06/09/23 20:54	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2072626	1	06/14/23 08:51	06/16/23 00:06	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2072626	1	06/14/23 08:51	06/16/23 00:06	RGT	Mt. Juliet, TN
		Collected by	Collected date/time	Received date/time		
			05/15/23 15:28	05/18/23 09:15		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2071924	1	06/05/23 19:10	06/09/23 20:54	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2072626	1	06/14/23 08:51	06/16/23 00:06	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2072626	1	06/14/23 08:51	06/16/23 00:06	RGT	Mt. Juliet, TN
		Collected by	Collected date/time	Received date/time		
			05/15/23 11:10	05/18/23 09:15		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2072260	1	06/06/23 11:11	06/10/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2072628	1	06/12/23 13:37	06/14/23 16:23	RGT	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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

[Preliminary Report]


Haley Torrence
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC

BA02

Collected date/time: 05/15/23 11:23

SAMPLE RESULTS - 01

L1617724

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.368	<u>J</u>	0.237	0.423	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Barium	97.4			30.0-143	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Yttrium	106			30.0-136	06/09/2023 20:54	<u>WG2071924</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷GI⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.478	<u>J</u>	0.332	0.563	06/16/2023 00:06	<u>WG2072626</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.110	<u>U</u>	0.233	0.371	06/16/2023 00:06	<u>WG2072626</u>
(<i>T</i>) Barium-133	83.7			30.0-143	06/16/2023 00:06	<u>WG2072626</u>

G02S

Collected date/time: 05/15/23 15:18

SAMPLE RESULTS - 02

L1617724

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.824		0.222	0.381	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Barium	94.2			30.0-143	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Yttrium	109			30.0-136	06/09/2023 20:54	<u>WG2071924</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.42		0.394	0.472	06/16/2023 00:06	<u>WG2072626</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.592		0.325	0.278	06/16/2023 00:06	<u>WG2072626</u>
(<i>T</i>) Barium-133	91.1			30.0-143	06/16/2023 00:06	<u>WG2072626</u>

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	-0.256	<u>U</u>	0.399	0.734	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Barium	106			30.0-143	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Yttrium	96.8			30.0-136	06/09/2023 20:54	<u>WG2071924</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.146	<u>U</u>	0.469	0.823	06/16/2023 00:06	<u>WG2072626</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.146	<u>J</u>	0.247	0.372	06/16/2023 00:06	<u>WG2072626</u>
(<i>T</i>) Barium-133	81.6			30.0-143	06/16/2023 00:06	<u>WG2072626</u>

G51S

Collected date/time: 05/15/23 11:26

SAMPLE RESULTS - 04

L1617724

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.687		0.223	0.387	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Barium	117			30.0-143	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Yttrium	120			30.0-136	06/09/2023 20:54	<u>WG2071924</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	1.07		0.380	0.531	06/16/2023 00:06	<u>WG2072626</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.387		0.308	0.363	06/16/2023 00:06	<u>WG2072626</u>
(<i>T</i>) Barium-133	80.7			30.0-143	06/16/2023 00:06	<u>WG2072626</u>

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.156	<u>U</u>	0.246	0.447	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Barium	107			30.0-143	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Yttrium	98.7			30.0-136	06/09/2023 20:54	<u>WG2071924</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.234	<u>U</u>	0.325	0.575	06/16/2023 00:06	<u>WG2072626</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.0781	<u>U</u>	0.212	0.362	06/16/2023 00:06	<u>WG2072626</u>
(<i>T</i>) Barium-133	77.9			30.0-143	06/16/2023 00:06	<u>WG2072626</u>

EB #9

Collected date/time: 05/15/23 17:50

SAMPLE RESULTS - 06

L1617724

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	-0.0948	<u>U</u>	0.263	0.484	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Barium	102			30.0-143	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Yttrium	104			30.0-136	06/09/2023 20:54	<u>WG2071924</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.0946	<u>U</u>	0.337	0.606	06/16/2023 00:06	<u>WG2072626</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.0946	<u>U</u>	0.211	0.365	06/16/2023 00:06	<u>WG2072626</u>
(<i>T</i>) Barium-133	73.9			30.0-143	06/16/2023 00:06	<u>WG2072626</u>

G64L

Collected date/time: 05/15/23 15:00

SAMPLE RESULTS - 07

L1617724

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.627		0.257	0.451	06/09/2023 20:54	<u>WG2071924</u>
(T) Barium	102			30.0-143	06/09/2023 20:54	<u>WG2071924</u>
(T) Yttrium	112			30.0-136	06/09/2023 20:54	<u>WG2071924</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.938		0.373	0.561	06/16/2023 00:06	<u>WG2072626</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.311	J	0.270	0.334	06/16/2023 00:06	<u>WG2072626</u>
(T) Barium-133	94.4			30.0-143	06/16/2023 00:06	<u>WG2072626</u>

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	27.8		6.30	10.6	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Barium	8.76	<u>C2</u>		30.0-143	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Yttrium	115			30.0-136	06/09/2023 20:54	<u>WG2071924</u>

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	27.8		6.30	10.6	06/16/2023 00:06	<u>WG2072626</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	-0.0337	<u>U</u>	0.104	0.444	06/16/2023 00:06	<u>WG2072626</u>
(<i>T</i>) Barium-133	41.6			30.0-143	06/16/2023 00:06	<u>WG2072626</u>

OM12

Collected date/time: 05/15/23 14:05

SAMPLE RESULTS - 09

L1617724

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	1.05		0.297	0.511	06/09/2023 20:54	WG2071924
(<i>T</i>) Barium	82.2			30.0-143	06/09/2023 20:54	WG2071924
(<i>T</i>) Yttrium	109			30.0-136	06/09/2023 20:54	WG2071924

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	1.69		0.424	0.568	06/16/2023 00:06	WG2072626

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.640		0.303	0.248	06/16/2023 00:06	WG2072626
(<i>T</i>) Barium-133	138			30.0-143	06/16/2023 00:06	WG2072626

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	1.42		0.310	0.523	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Barium	92.6			30.0-143	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Yttrium	97.7			30.0-136	06/09/2023 20:54	<u>WG2071924</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	1.53		0.358	0.590	06/16/2023 00:06	<u>WG2072626</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.112	J	0.179	0.274	06/16/2023 00:06	<u>WG2072626</u>
(<i>T</i>) Barium-133	132			30.0-143	06/16/2023 00:06	<u>WG2072626</u>

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	-0.103	<u>U</u>	0.293	0.542	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Barium	92.1			30.0-143	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Yttrium	120			30.0-136	06/09/2023 20:54	<u>WG2071924</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.174	<u>U</u>	0.331	0.566	06/16/2023 00:06	<u>WG2072626</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.174		0.154	0.164	06/16/2023 00:06	<u>WG2072626</u>
(<i>T</i>) Barium-133	123			30.0-143	06/16/2023 00:06	<u>WG2072626</u>

OR11

Collected date/time: 05/15/23 12:33

SAMPLE RESULTS - 12

L1617724

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.290	J	0.237	0.427	06/09/2023 20:54	<u>WG2071924</u>
(T) Barium	96.8			30.0-143	06/09/2023 20:54	<u>WG2071924</u>
(T) Yttrium	110			30.0-136	06/09/2023 20:54	<u>WG2071924</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.494		0.308	0.492	06/16/2023 00:06	<u>WG2072626</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.204	J	0.197	0.244	06/16/2023 00:06	<u>WG2072626</u>
(T) Barium-133	121			30.0-143	06/16/2023 00:06	<u>WG2072626</u>

OR14D

Collected date/time: 05/15/23 11:35

SAMPLE RESULTS - 13

L1617724

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	-0.0375	<u>U</u>	0.314	0.573	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Barium	91.1			30.0-143	06/09/2023 20:54	<u>WG2071924</u>
(<i>T</i>) Yttrium	108			30.0-136	06/09/2023 20:54	<u>WG2071924</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.199	<u>U</u>	0.371	0.626	06/16/2023 00:06	<u>WG2072626</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.199	<u>J</u>	0.197	0.252	06/16/2023 00:06	<u>WG2072626</u>
(<i>T</i>) Barium-133	114			30.0-143	06/16/2023 00:06	<u>WG2072626</u>

OR19

Collected date/time: 05/15/23 15:28

SAMPLE RESULTS - 14

L1617724

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	Batch
RADIUM-228	0.588		0.275	0.486	06/09/2023 20:54	WG2071924
(T) Barium	87.6			30.0-143	06/09/2023 20:54	WG2071924
(T) Yttrium	113			30.0-136	06/09/2023 20:54	WG2071924

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	Batch
Combined Radium	0.849		0.358	0.560	06/16/2023 00:06	WG2072626

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	Batch
RADIUM-226	0.261	J	0.229	0.279	06/16/2023 00:06	WG2072626
(T) Barium-133	114			30.0-143	06/16/2023 00:06	WG2072626

OR20

Collected date/time: 05/15/23 11:10

SAMPLE RESULTS - 15

L1617724

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.0114	<u>U</u>	0.270	0.484	06/10/2023 08:55	<u>WG2072260</u>
(<i>T</i>) Barium	93.6			30.0-143	06/10/2023 08:55	<u>WG2072260</u>
(<i>T</i>) Yttrium	132			30.0-136	06/10/2023 08:55	<u>WG2072260</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.127	<u>U</u>	0.314	0.538	06/14/2023 16:23	<u>WG2072628</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.115	<u>J</u>	0.160	0.234	06/14/2023 16:23	<u>WG2072628</u>
(<i>T</i>) Barium-133	79.1			30.0-143	06/14/2023 16:23	<u>WG2072628</u>

QUALITY CONTROL SUMMARY

[L1617724-01,02,03,04,05,06,07,08,09,10,11,12,13,14](#)

Method Blank (MB)

(MB) R3937268-1 06/09/23 20:54

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.324		0.147	0.260
(T) Barium	106		106	
(T) Yttrium	107		107	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1617724-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1617724-03 06/09/23 20:54 • (DUP) R3937268-5 06/09/23 20:54

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-228	-0.256	0.399	0.734	0.705	0.376	0.734	1	200	1.75		20	3
(T) Barium	106			94.2	94.2							
(T) Yttrium	96.8			115	115							

Laboratory Control Sample (LCS)

(LCS) R3937268-2 06/09/23 20:54

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	4.07	81.4	80.0-120	
(T) Barium			97.6		
(T) Yttrium			120		

L1617720-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1617720-08 06/09/23 20:54 • (MS) R3937268-3 06/09/23 20:54 • (MSD) R3937268-4 06/09/23 20:54

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.410	8.66	9.60	82.5	91.9	1	70.0-130			10.2		20
(T) Barium		89.6		105	98.0								
(T) Yttrium		101		118	106								

QUALITY CONTROL SUMMARY

L1617724-15

Method Blank (MB)

(MB) R3935700-1 06/10/23 08:55

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	-0.0977	<u>U</u>	0.152	0.279
(T) Barium	114		114	
(T) Yttrium	93.4		93.4	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1617729-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1617729-01 06/10/23 08:55 • (DUP) R3935700-5 06/10/23 08:55

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-228	1.74	0.333	0.547	0.290	0.402	0.547	1	143	2.78	<u>U</u>	20	3
(T) Barium	81.8			86.3	86.3							
(T) Yttrium	139			132	132							

Laboratory Control Sample (LCS)

(LCS) R3935700-2 06/10/23 08:55

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	4.57	91.5	80.0-120	
(T) Barium			110		
(T) Yttrium			95.4		

L1617726-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1617726-01 06/10/23 08:55 • (MS) R3935700-3 06/10/23 08:55 • (MSD) R3935700-4 06/10/23 08:55

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.0209	15.4	14.2	91.8	84.9	1	70.0-130			7.78		20
(T) Barium		114		120	116								
(T) Yttrium		105		101	109								

QUALITY CONTROL SUMMARY

[L1617724-01,02,03,04,05,06,07,08,09,10,11,12,13,14](#)

Method Blank (MB)

(MB) R3940721-1 06/15/23 18:26

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	-0.0163	<u>U</u>	0.0422	0.100
(T) Barium-133	82.0		82.0	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1617724-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1617724-01 06/16/23 00:06 • (DUP) R3940721-5 06/15/23 18:26

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.110	0.233	0.371	0.121	0.248	0.371	1	9.44	0.0320	<u>U</u>	20	3
(T) Barium-133	83.7			82.7	82.7							

Laboratory Control Sample (LCS)

(LCS) R3940721-2 06/15/23 18:26

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.01	5.69	114	80.0-120	
(T) Barium-133			80.8		

L1617720-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1617720-03 06/15/23 18:26 • (MS) R3940721-3 06/15/23 18:26 • (MSD) R3940721-4 06/15/23 18:26

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.117	21.7	23.9	108	119	1	75.0-125			9.58		20
(T) Barium-133		85.5			80.8	86.0							

QUALITY CONTROL SUMMARY

[L1617724-15](#)

Method Blank (MB)

(MB) R3937863-1 06/14/23 16:23

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	0.0613	J	0.0908	0.136
(T) Barium-133	47.6		47.6	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1617727-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1617727-01 06/14/23 16:23 • (DUP) R3937863-5 06/14/23 16:23

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.742	0.400	0.359	0.496	0.326	0.359	1	39.8	0.477		20	3
(T) Barium-133	76.2			83.9	83.9							

Laboratory Control Sample (LCS)

(LCS) R3937863-2 06/14/23 16:23

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.01	5.91	118	80.0-120	
(T) Barium-133			61.3		

L1617729-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1617729-03 06/14/23 16:23 • (MS) R3937863-3 06/14/23 16:23 • (MSD) R3937863-4 06/14/23 16:23

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.0663	22.3	22.1	111	110	1	75.0-125			0.946		20
(T) Barium-133		90.1			79.0	69.9							

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

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
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

C2	Tracer recovery limits have been exceeded; values are outside lower control limits.
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ Al

⁹ Sc

Internal Transfer Chain of Custody

State of Origin: IL
Cert. Needed: YES NO



GE 3000

-GE04115-

Gail Schindler
Pace Analytical - IL/MO
2231 W. Altorfer Drive
Peoria, IL 61615
800-752-6651

Workorder Name: VISTRA - DUCK CREEK

Owner Received

Date: 5/16/2023

Results Request

Bw

5/28/2023

Report To:		Subcontract To:						Requested Analysis					
Gail Schindler Pace Analytical - IL/MO 2231 W. Altorfer Drive Peoria, IL 61615 800-752-6651		Pace Analytical - Mt Juliet 12065 Lebanon Rd Mt Juliet TN 37122											
Item	Sample ID	Sample Type	Collect Date/Time		Lab ID		Matrix	HNO3	Preserved Containers		Radium 226	Radium 228	Comments
			Collect Date	Time	Lab ID	Lab ID			Container	Container			
1	BA02	GRAB	5/15/2023	11:23	GE03000-01	GW	X				X	X	-01
2	G02S	GRAB	5/15/2023	15:18	GE03000-02	GW	X				X	X	-02
3	G50S	GRAB	5/15/2023	12:56	GE03000-03	GW	X				X	X	-03
4	G51S	GRAB	5/15/2023	11:26	GE03000-04	GW	X				X	X	-04
5	EB #8	GRAB	5/15/2023	17:50	GE03000-05	DI	X				X	X	-05
6	EB #9	GRAB	5/15/2023	17:50	GE03000-06	DI	X				X	X	-06
7	G64L	GRAB	5/15/2023	15:00	GE03000-07	GW	X				X	X	-07
8	OM25S	GRAB	5/15/2023	13:14	GE03000-08	GW	X				X	X	-08
9	OM12	GRAB	5/15/2023	14:05	GE03000-09	GW	X				X	X	-09
10	OM21	GRAB	5/15/2023	13:24	GE03000-10	GW	X				X	X	-10
Transfers	3/14/2023 14:31			Date/Time	Received By			Date/Time	Comments				
1				3/17/23 15:00					Needs 226, 228 and combined Include QC summary and edd				
2													
3					Hailey Rabitz			5/18/23 09:15	10 day TAT				

Cooler Temperature on Receipt

°C

Custody Seal Y or N

Received on Ice X or N

Sample Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

10 day TAT

Cooler Temperature on Receipt °C | Custody Seal Y or N | Received on Ice Y or N | Sample Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

Page 1 of 2

EMT-ALL-C-002rev.00 24March2009

Page 130 of 206

Sample Receipt Checklist

COC Seal Present/Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Applicable
COC Signed/Accurate:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOA Zero Headspace:
Bottles arrive intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pres.Correct/Check:
Correct bottles used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Sufficient volume sent:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Internal Transfer Chain of Custody

State of Origin: IL
Cert. Needed: YES NO

raceAnalytics
www.racelabs.com

GE 3000

-GEO2775-

Workorder Name: VISTRA - DUCK CREEK

Owner Received

Date: 5/16/2023

Results Request

By: 5/28/2023

ULd7724

LAB USE ONLY

11

-17

216

15

-14

Transfers	Date/Time	Received By	Date/Time	Comments
1				Needs 226, 228 and combined Include QC summary and edd
2				
3				10 day TAT

Cooler Temperature on Receipt °C **Custody Seal** Y or N **Received on Ice Y or N** **Sample Intact Y or N**

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

FMT-ALL-C-002rev.00 24March2009

Page 2 of 2

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC
GE03000

4617724

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

Analysis	Due	Expires	Comments
Sample: GE03000-01 Name: BA02			Sampled: 05/15/23 11:23 Matrix: Ground Water Preservative: HNO3, pH <2
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/30/23 16:00	11/11/23 11:23	
Sample: GE03000-02 Name: G02S			Sampled: 05/15/23 15:18 Matrix: Ground Water Preservative: HNO3, pH <2
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/30/23 16:00	11/11/23 15:18	
Sample: GE03000-03 Name: G50S			Sampled: 05/15/23 12:56 Matrix: Ground Water Preservative: HNO3, pH <2
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/30/23 16:00	11/11/23 12:56	
Sample: GE03000-04 Name: G51S			Sampled: 05/15/23 11:26 Matrix: Ground Water Preservative: HNO3, pH <2
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/30/23 16:00	11/11/23 11:26	
Sample: GE03000-05 Name: EB #8			Sampled: 05/15/23 17:50 Matrix: Ground Water Preservative: HNO3, pH <2
Analysis	Due	Expires	Comments
-Radium 226/228 combined	05/30/23 16:00	11/11/23 17:50	

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC
GE03000

UL017724

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

Analysis	Due	Expires	Comments
Sample: GE03000-06 Name: EB #9	05/30/23 16:00	11/11/23 17:50	Sampled: 05/15/23 17:50 Matrix: Ground Water Preservative: HNO3, pH <2
Sample: GE03000-07 Name: G64L			Sampled: 05/15/23 15:00 Matrix: Ground Water Preservative: HNO3, pH <2
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/30/23 16:00	11/11/23 15:00	Sampled: 05/15/23 13:14 Matrix: Ground Water Preservative: HNO3, pH <2
Sample: GE03000-08 Name: OM25S	05/30/23 16:00	11/11/23 13:14	Sampled: 05/15/23 14:05 Matrix: Ground Water Preservative: HNO3, pH <2
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/30/23 16:00	11/11/23 14:05	Sampled: 05/15/23 13:24 Matrix: Ground Water Preservative: HNO3, pH <2
Sample: GE03000-09 Name: OM12	05/30/23 16:00	11/11/23 13:24	Sampled: 05/15/23 13:24 Matrix: Ground Water Preservative: HNO3, pH <2
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/30/23 16:00	11/11/23 13:24	Sampled: 05/15/23 13:24 Matrix: Ground Water Preservative: HNO3, pH <2
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/30/23 16:00	11/11/23 13:24	Sampled: 05/15/23 13:24 Matrix: Ground Water Preservative: HNO3, pH <2

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC
GE03000

U6077724

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

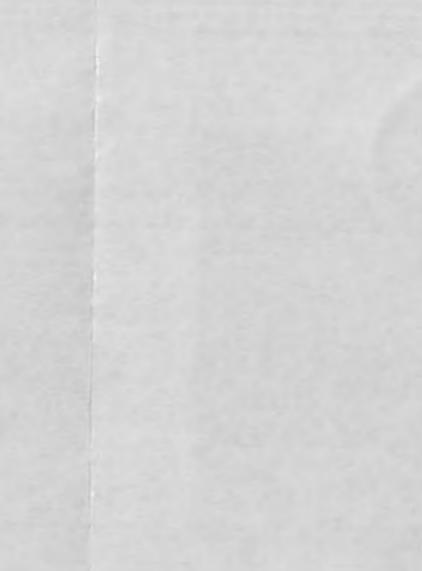
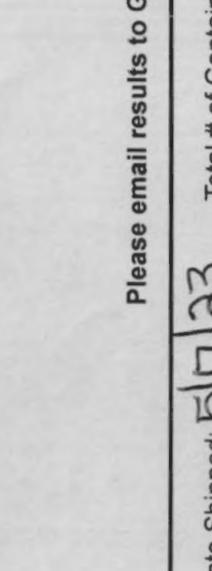
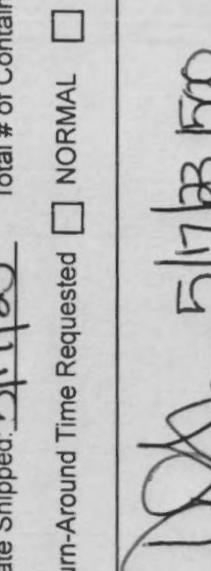
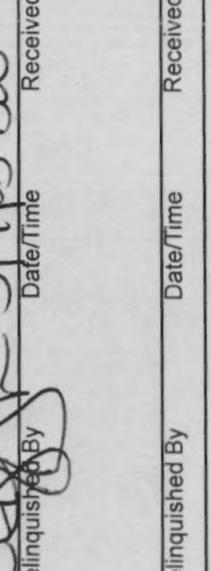
Analysis	Due	Expires	Comments
Sample: GE03000-11 Name: OM23D	05/30/23 16:00	11/11/23 16:00	Sampled: 05/15/23 16:00 Matrix: Ground Water Preservative: HNO3, pH <2
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/30/23 16:00	11/11/23 12:33	Sampled: 05/15/23 12:33 Matrix: Ground Water Preservative: HNO3, pH <2
Sample: GE03000-12 Name: OR11	05/30/23 16:00	11/11/23 12:33	Sampled: 05/15/23 11:35 Matrix: Ground Water Preservative: HNO3, pH <2
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/30/23 16:00	11/11/23 11:35	Sampled: 05/15/23 11:35 Matrix: Ground Water Preservative: HNO3, pH <2
Sample: GE03000-13 Name: OR14D	05/30/23 16:00	11/11/23 11:35	Sampled: 05/15/23 15:28 Matrix: Ground Water Preservative: HNO3, pH <2
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/30/23 16:00	11/11/23 15:28	Sampled: 05/15/23 11:10 Matrix: Ground Water Preservative: HNO3, pH <2
Sample: GE03000-15 Name: OR20	05/30/23 16:00	11/11/23 11:10	Sampled: 05/15/23 11:10 Matrix: Ground Water Preservative: HNO3, pH <2
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/30/23 16:00	11/11/23 11:10	

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC
GE03000

UL017774

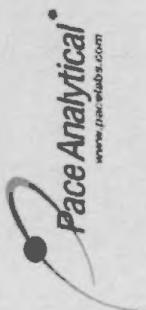
Please email results to Gail.Schindler@pacelabs.com

Date Shipped:	5/17/23	Total # of Containers:	15	Sample Origin (State):	IL	PO #:	_____
Turn-Around Time Requested	<input type="checkbox"/> NORMAL	<input type="checkbox"/> RUSH	Date Results Needed: _____				
				Received By	Date/Time	Sample Temperature Upon Receipt	°C
					Date/Time	Sample(s) Received on Ice	Y or N
					Date/Time	Proper Bottles Received in Good Condition	Y or N
					Date/Time	Bottles Filled with Adequate Volume	Y or N
					Date/Time	Samples Received Within Hold Time	Y or N
					Date/Time	Date/Time Taken From Sample Bottle	Y or N

U107724

Tracking Numbers	N5 A7 Temperature
6319 5998 8690	19.3±0=19.3
6319 5998 8715	17.3±0=17.3
6319 5998 8726	19.4±0=19.4
6319 5998 8704	13.1±0=13.1
6319 5998 8689	17.6±0=17.6

U617724



Ship to :
Pace Analytical Services, LLC
12065 Lebanon Rd
Mt Juliet TN 37122

INTER LABORATORY WORK ORDER# GE02775 GE 3000
(To be complete by sending lab)

GE02775 GE 3000

Sending Project No:	GE02775 GE 3000
Receiving Project No:	
Check Box for Consolidated invoice:	<input type="checkbox"/>
Date Prepared:	5/17/2023
REQUESTED COMPLETION DATE:	5/28/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	VISTRA - DUCK CREEK
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226		8		8	\$121.05	\$968.40
Radium 228		8		8	\$121.05	\$968.40
		1		1	\$0.00	\$0.00
					TOTAL	\$1,936.80

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary & edd

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$1,936.80	\$1,549.44	\$387.36
			TOTAL	\$1,549.44
* Custom Revenue Allocation				

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO		
Return Samples to Sending Region:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

CONFIRMATION OF WORK COMPLETED		
Date Completed:	Receiving Project Manager: _____	

Original sent to the receiving lab - Copy kept at the sending lab.
When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.



ANALYTICAL REPORT

June 21, 2023

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Pace IR - Peoria, IL

Sample Delivery Group: L1619139
Samples Received: 05/23/2023
Project Number: GEO3280
Description: Vistra-Duck Creek
Site: 01
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
[Preliminary Report]

Haley Torrence
Project Manager

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

Pace Analytical National

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

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SAMPLE SUMMARY

		Collected by	Collected date/time	Received date/time		
			05/16/23 10:48	05/23/23 09:00		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2073396	1	06/08/23 08:06	06/14/23 17:51	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2074499	1	06/14/23 16:02	06/16/23 17:46	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2074499	1	06/14/23 16:02	06/16/23 17:46	RGT	Mt. Juliet, TN
OM04S L1619139-02 Non-Potable Water		Collected by	Collected date/time	Received date/time		
			05/16/23 12:15	05/23/23 09:00		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2073396	1	06/08/23 08:06	06/14/23 17:51	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2074499	1	06/14/23 16:02	06/16/23 17:47	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2074499	1	06/14/23 16:02	06/16/23 17:47	RGT	Mt. Juliet, TN
OM24D L1619139-03 Non-Potable Water		Collected by	Collected date/time	Received date/time		
			05/16/23 14:58	05/23/23 09:00		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2073396	1	06/08/23 08:06	06/14/23 17:51	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2074499	1	06/14/23 16:02	06/16/23 17:47	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2074499	1	06/14/23 16:02	06/16/23 17:47	RGT	Mt. Juliet, TN
OM24D DUP L1619139-04 Non-Potable Water		Collected by	Collected date/time	Received date/time		
			05/16/23 14:58	05/23/23 09:00		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2073396	1	06/08/23 08:06	06/14/23 17:51	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2074499	1	06/14/23 16:02	06/16/23 17:47	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2074499	1	06/14/23 16:02	06/16/23 17:47	RGT	Mt. Juliet, TN
OR02 L1619139-05 Non-Potable Water		Collected by	Collected date/time	Received date/time		
			05/16/23 12:14	05/23/23 09:00		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2073396	1	06/08/23 08:06	06/14/23 17:51	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2074499	1	06/14/23 16:02	06/16/23 17:47	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2074499	1	06/14/23 16:02	06/16/23 17:47	RGT	Mt. Juliet, TN
OR03D L1619139-06 Non-Potable Water		Collected by	Collected date/time	Received date/time		
			05/16/23 13:36	05/23/23 09:00		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2073396	1	06/08/23 08:06	06/14/23 17:51	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2074499	1	06/14/23 16:02	06/16/23 17:47	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2074499	1	06/14/23 16:02	06/16/23 17:47	RGT	Mt. Juliet, TN

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

SAMPLE SUMMARY

		Collected by	Collected date/time	Received date/time
			05/16/23 10:55	05/23/23 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320	WG2073396	1	06/08/23 08:06	06/14/23 17:51
Radiochemistry by Method Calculation	WG2074499	1	06/14/23 16:02	06/16/23 17:47
Radiochemistry by Method SM7500Ra B M	WG2074499	1	06/14/23 16:02	06/16/23 17:47
EQUIPMENT BLANK 10 L1619139-08 Non-Potable Water		Collected by	Collected date/time	Received date/time
			05/16/23 17:41	05/23/23 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320	WG2073396	1	06/08/23 08:06	06/14/23 17:51
Radiochemistry by Method Calculation	WG2074499	1	06/14/23 16:02	06/16/23 17:47
Radiochemistry by Method SM7500Ra B M	WG2074499	1	06/14/23 16:02	06/16/23 17:47
EQUIPMENT BLANK 11 L1619139-09 Non-Potable Water		Collected by	Collected date/time	Received date/time
			05/16/23 17:26	05/23/23 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320	WG2073396	1	06/08/23 08:06	06/14/23 17:51
Radiochemistry by Method Calculation	WG2074499	1	06/14/23 16:02	06/16/23 17:47
Radiochemistry by Method SM7500Ra B M	WG2074499	1	06/14/23 16:02	06/16/23 17:47

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gi

8 Al

9 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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

[Preliminary Report]


Haley Torrence
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC

OM01

Collected date/time: 05/16/23 10:48

SAMPLE RESULTS - 01

L1619139

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.799		0.312	0.549	06/14/2023 17:51	<u>WG2073396</u>
(<i>T</i>) Barium	87.3			30.0-143	06/14/2023 17:51	<u>WG2073396</u>
(<i>T</i>) Yttrium	104			30.0-136	06/14/2023 17:51	<u>WG2073396</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.799		0.346	0.630	06/16/2023 17:46	<u>WG2074499</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	-0.00744	<u>U</u>	0.149	0.310	06/16/2023 17:46	<u>WG2074499</u>
(<i>T</i>) Barium-133	90.0			30.0-143	06/16/2023 17:46	<u>WG2074499</u>

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	1.23		0.345	0.596	06/14/2023 17:51	WG2073396
(<i>T</i>) Barium	74.9			30.0-143	06/14/2023 17:51	WG2073396
(<i>T</i>) Yttrium	97.8			30.0-136	06/14/2023 17:51	WG2073396

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	1.28		0.407	0.708	06/16/2023 17:47	WG2074499

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.0507	<u>U</u>	0.216	0.382	06/16/2023 17:47	WG2074499
(<i>T</i>) Barium-133	89.6			30.0-143	06/16/2023 17:47	WG2074499

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.224	<u>U</u>	0.330	0.601	06/14/2023 17:51	<u>WG2073396</u>
(<i>T</i>) Barium	72.0			30.0-143	06/14/2023 17:51	<u>WG2073396</u>
(<i>T</i>) Yttrium	103			30.0-136	06/14/2023 17:51	<u>WG2073396</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.290	<u>U</u>	0.370	0.670	06/16/2023 17:47	<u>WG2074499</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.0651	<u>U</u>	0.167	0.296	06/16/2023 17:47	<u>WG2074499</u>
(<i>T</i>) Barium-133	91.8			30.0-143	06/16/2023 17:47	<u>WG2074499</u>

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	-0.0449	<u>U</u>	0.288	0.535	06/14/2023 17:51	<u>WG2073396</u>
(<i>T</i>) Barium	73.6			30.0-143	06/14/2023 17:51	<u>WG2073396</u>
(<i>T</i>) Yttrium	106			30.0-136	06/14/2023 17:51	<u>WG2073396</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.0414	<u>U</u>	0.320	0.601	06/16/2023 17:47	<u>WG2074499</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.0414	<u>U</u>	0.140	0.273	06/16/2023 17:47	<u>WG2074499</u>
(<i>T</i>) Barium-133	91.3			30.0-143	06/16/2023 17:47	<u>WG2074499</u>

OR02

Collected date/time: 05/16/23 12:14

SAMPLE RESULTS - 05

L1619139

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.715		0.344	0.611	06/14/2023 17:51	<u>WG2073396</u>
(<i>T</i>) Barium	86.9			30.0-143	06/14/2023 17:51	<u>WG2073396</u>
(<i>T</i>) Yttrium	113			30.0-136	06/14/2023 17:51	<u>WG2073396</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	1.68		0.544	0.703	06/16/2023 17:47	<u>WG2074499</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.964		0.421	0.348	06/16/2023 17:47	<u>WG2074499</u>
(<i>T</i>) Barium-133	86.7			30.0-143	06/16/2023 17:47	<u>WG2074499</u>

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	1.05		0.376	0.658	06/14/2023 17:51	<u>WG2073396</u>
(<i>T</i>) Barium	75.6			30.0-143	06/14/2023 17:51	<u>WG2073396</u>
(<i>T</i>) Yttrium	92.4			30.0-136	06/14/2023 17:51	<u>WG2073396</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	1.21		0.422	0.709	06/16/2023 17:47	<u>WG2074499</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.160	J	0.192	0.264	06/16/2023 17:47	<u>WG2074499</u>
(<i>T</i>) Barium-133	92.3			30.0-143	06/16/2023 17:47	<u>WG2074499</u>

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	1.89		0.313	0.508	06/14/2023 17:51	<u>WG2073396</u>
(<i>T</i>) Barium	72.8			30.0-143	06/14/2023 17:51	<u>WG2073396</u>
(<i>T</i>) Yttrium	106			30.0-136	06/14/2023 17:51	<u>WG2073396</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	2.39		0.434	0.593	06/16/2023 17:47	<u>WG2074499</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.500		0.301	0.306	06/16/2023 17:47	<u>WG2074499</u>
(<i>T</i>) Barium-133	92.6			30.0-143	06/16/2023 17:47	<u>WG2074499</u>

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.329	<u>J</u>	0.303	0.546	06/14/2023 17:51	<u>WG2073396</u>
(<i>T</i>) Barium	89.7			30.0-143	06/14/2023 17:51	<u>WG2073396</u>
(<i>T</i>) Yttrium	96.2			30.0-136	06/14/2023 17:51	<u>WG2073396</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.329	<u>J</u>	0.308	0.577	06/16/2023 17:47	<u>WG2074499</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	-0.0242	<u>U</u>	0.0531	0.188	06/16/2023 17:47	<u>WG2074499</u>
(<i>T</i>) Barium-133	95.5			30.0-143	06/16/2023 17:47	<u>WG2074499</u>

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.206	<u>U</u>	0.361	0.661	06/14/2023 17:51	<u>WG2073396</u>
(<i>T</i>) Barium	91.1			30.0-143	06/14/2023 17:51	<u>WG2073396</u>
(<i>T</i>) Yttrium	103			30.0-136	06/14/2023 17:51	<u>WG2073396</u>

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.213	<u>U</u>	0.372	0.695	06/16/2023 17:47	<u>WG2074499</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.00692	<u>U</u>	0.0910	0.215	06/16/2023 17:47	<u>WG2074499</u>
(<i>T</i>) Barium-133	92.1			30.0-143	06/16/2023 17:47	<u>WG2074499</u>

QUALITY CONTROL SUMMARY

L1619139-01,02,03,04,05,06,07,08,09

Method Blank (MB)

(MB) R3938842-1 06/14/23 17:51

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.488		0.154	0.268
(T) Barium	88.7		88.7	
(T) Yttrium	104		104	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1619139-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1619139-09 06/14/23 17:51 • (DUP) R3938842-5 06/14/23 17:51

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-228	0.206	0.361	0.661	0.734	0.414	0.661	1	112	0.960	J	20	3
(T) Barium	91.1			80.7	80.7							
(T) Yttrium	103			97.4	97.4							

Laboratory Control Sample (LCS)

(LCS) R3938842-2 06/14/23 17:51

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	4.68	93.5	80.0-120	
(T) Barium			99.0		
(T) Yttrium			90.4		

L1619136-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1619136-03 06/14/23 17:51 • (MS) R3938842-3 06/14/23 17:51 • (MSD) R3938842-4 06/14/23 17:51

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.939	15.8	18.5	89.1	105	1	70.0-130			15.3		20
(T) Barium		79.0		81.7	81.7	85.2							
(T) Yttrium		105		108	108	95.2							

QUALITY CONTROL SUMMARY

[L1619139-01,02,03,04,05,06,07,08,09](#)

Method Blank (MB)

(MB) R3938909-1 06/16/23 17:46

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	0.00379	<u>U</u>	0.0352	0.0716
(T) Barium-133	90.6		90.6	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1619139-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1619139-04 06/16/23 17:47 • (DUP) R3938909-5 06/16/23 17:46

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.0414	0.140	0.273	0.175	0.247	0.273	1	124	0.471	<u>J</u>	20	3
(T) Barium-133	91.3			84.9	84.9							

Laboratory Control Sample (LCS)

(LCS) R3938909-2 06/16/23 17:46

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.01	5.35	107	80.0-120	
(T) Barium-133			87.7		

⁹Sc

L1614550-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1614550-02 06/16/23 17:46 • (MS) R3938909-3 06/16/23 17:46 • (MSD) R3938909-4 06/16/23 17:46

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.475	21.6	22.2	105	109	1	75.0-125			3.11		20
(T) Barium-133		91.2			88.6	87.5							

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

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
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.
U	Below Detectable Limits: Indicates that the analyte was not detected.

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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ Al

⁹ Sc



Ship to :
 Pace Analytical Services, LLC
 12065 Lebanon Rd
 Mt Juliet TN 37122
 (615)758-5858

INTER LABORATORY WORK ORDER # GE03280

(To be complete by sending lab)

Sending Project No:	GE03280
Receiving Project No:	
Check Box for Consolidated Invoice:	
Date Prepared:	5/17/2023
REQUESTED COMPLETION DATE:	5/28/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	VISTRA - DUCK CREEK
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? _____ Cert Needed: IL

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226		9		9	\$121.05	\$1,089.45
Radium 228		9		9	\$121.05	\$1,089.45
		1		1		\$0.00
					TOTAL	\$2,178.90

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary & edd

Receiving Region/Department	Accdg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept (20%)
radiological	38	\$2,178.90	\$1,743.12	\$435.78
* Custom Revenue Allocation		TOTAL	\$1,743.12	\$435.78

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: Yes No

CONFIRMATION OF WORK COMPLETED

Date Completed: _____ Receiving Project Manager: _____

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC
GE03280

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

Sample: GE03280-01
Name: OM01

Sampled: 05/16/23 10:48
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/31/23 16:00	11/12/23 10:48	

Sample: GE03280-02
Name: OM04S

Sampled: 05/16/23 12:15
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/31/23 16:00	11/12/23 12:15	

Sample: GE03280-03
Name: OM24D

Sampled: 05/16/23 14:58
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/31/23 16:00	11/12/23 14:58	

Sample: GE03280-04
Name: OM24D DUP

Sampled: 05/16/23 14:58
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/31/23 16:00	11/12/23 14:58	

Sample: GE03280-05
Name: OR02

Sampled: 05/16/23 12:14
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/31/23 16:00	11/12/23 12:14	

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC
GE03280

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

Sample: GE03280-06
Name: OR03D

Sampled: 05/16/23 13:36
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/31/23 16:00	11/12/23 13:36	

Sample: GE03280-07
Name: OR04D

Sampled: 05/16/23 10:55
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/31/23 16:00	11/12/23 10:55	

Sample: GE03280-08
Name: EB-10

Sampled: 05/16/23 17:41
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/31/23 16:00	11/12/23 17:41	

Sample: GE03280-09
Name: EB-11

Sampled: 05/16/23 17:26
Matrix: Ground Water
Preservative: HNO3, pH <2

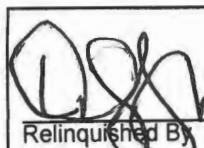
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/31/23 16:00	11/12/23 17:26	

SUBCONTRACT ORDER
Transfer Chain of Custody
Pace Analytical Services, LLC
GE03280

Please email results to Gail Schindler at gail.schindler@pacelabs.com

Date Shipped: 5/22/23 Total # of Containers: 9 Sample Origin (State): IL PO #: _____

Turn-Around Time Requested NORMAL RUSH Date Results Needed: _____

 Relinquished By	<u>5/22/23 0550</u> Date/Time	Received By	Date/Time	Sample Temperature Upon Receipt _____ °C
				Sample(s) Received on Ice Y or N
				Proper Bottles Received in Good Condition Y or N
				Bottles Filled with Adequate Volume Y or N
				Samples Received Within Hold Time Y or N
Relinquished By	Date/Time	Received By	Date/Time	Date/Time Taken From Sample Bottle Y or N



ANALYTICAL REPORT

June 23, 2023

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷GI

⁸AI

⁹Sc

Pace IR - Peoria, IL

Sample Delivery Group: L1619136
Samples Received: 05/23/2023
Project Number: GEO3619
Description: Vistra-Duck Creek
Site: 01
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
[Preliminary Report]

Haley Torrence
Project Manager

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

Pace Analytical National

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

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SAMPLE SUMMARY

		Collected by	Collected date/time	Received date/time
			05/17/23 12:13	05/23/23 09:00
OM07 L1619136-01 Non-Potable Water	Method	Batch	Dilution	Preparation date/time
				Analysis date/time
Radiochemistry by Method 904/9320		WG2073396	1	06/08/23 08:06
Radiochemistry by Method Calculation		WG2072628	1	06/12/23 13:37
Radiochemistry by Method SM7500Ra B M		WG2072628	1	06/12/23 13:37
OM22D L1619136-02 Non-Potable Water	Method	Batch	Dilution	Preparation date/time
				Analysis date/time
Radiochemistry by Method 904/9320		WG2073396	1	06/08/23 08:06
Radiochemistry by Method Calculation		WG2074499	1	06/14/23 16:02
Radiochemistry by Method SM7500Ra B M		WG2074499	1	06/14/23 16:02
OR06A L1619136-03 Non-Potable Water	Method	Batch	Dilution	Preparation date/time
				Analysis date/time
Radiochemistry by Method 904/9320		WG2073396	1	06/08/23 08:06
Radiochemistry by Method Calculation		WG2074499	1	06/14/23 16:02
Radiochemistry by Method SM7500Ra B M		WG2074499	1	06/14/23 16:02
OR13S L1619136-04 Non-Potable Water	Method	Batch	Dilution	Preparation date/time
				Analysis date/time
Radiochemistry by Method 904/9320		WG2073396	1	06/08/23 08:06
Radiochemistry by Method Calculation		WG2074499	1	06/14/23 16:02
Radiochemistry by Method SM7500Ra B M		WG2074499	1	06/14/23 16:02
EQUIPMENT BLANK 12 L1619136-05 Non-Potable Water	Method	Batch	Dilution	Preparation date/time
				Analysis date/time
Radiochemistry by Method 904/9320		WG2073396	1	06/08/23 08:06
Radiochemistry by Method Calculation		WG2074499	1	06/14/23 16:02
Radiochemistry by Method SM7500Ra B M		WG2074499	1	06/14/23 16:02



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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

[Preliminary Report]


Haley Torrence
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC

OM07

Collected date/time: 05/17/23 12:13

SAMPLE RESULTS - 01

L1619136

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.270	<u>U</u>	0.357	0.649	06/14/2023 17:51	<u>WG2073396</u>
(<i>T</i>) Barium	64.3			30.0-143	06/14/2023 17:51	<u>WG2073396</u>
(<i>T</i>) Yttrium	104			30.0-136	06/14/2023 17:51	<u>WG2073396</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.643	<u>J</u>	0.426	0.681	06/14/2023 17:51	<u>WG2072628</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.373		0.233	0.207	06/14/2023 16:23	<u>WG2072628</u>
(<i>T</i>) Barium-133	95.9			30.0-143	06/14/2023 16:23	<u>WG2072628</u>

OM22D

Collected date/time: 05/17/23 16:55

SAMPLE RESULTS - 02

L1619136

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l	+ / -		pCi/l	date / time	
RADIUM-228	0.984		0.265	0.455	06/14/2023 17:51	WG2073396
(<i>T</i>) Barium	81.9			30.0-143	06/14/2023 17:51	WG2073396
(<i>T</i>) Yttrium	102			30.0-136	06/14/2023 17:51	WG2073396

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l	+ / -		pCi/l	date / time	
Combined Radium	1.54		0.394	0.497	06/16/2023 17:46	WG2074499

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
	pCi/l	+ / -		pCi/l	date / time	
RADIUM-226	0.554		0.292	0.200	06/16/2023 17:46	WG2074499
(<i>T</i>) Barium-133	81.9			30.0-143	06/16/2023 17:46	WG2074499

OR06A

Collected date/time: 05/17/23 13:45

SAMPLE RESULTS - 03

L1619136

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.939		0.476	0.846	06/14/2023 17:51	WG2073396
(<i>T</i>) Barium	79.0			30.0-143	06/14/2023 17:51	WG2073396
(<i>T</i>) Yttrium	105			30.0-136	06/14/2023 17:51	WG2073396

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	1.34		0.545	0.884	06/16/2023 17:46	WG2074499

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.402		0.265	0.258	06/16/2023 17:46	WG2074499
(<i>T</i>) Barium-133	94.4			30.0-143	06/16/2023 17:46	WG2074499

OR13S

Collected date/time: 05/17/23 15:20

SAMPLE RESULTS - 04

L1619136

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	0.282	J	0.315	0.572	06/14/2023 17:51	WG2073396
(T) Barium	69.5			30.0-143	06/14/2023 17:51	WG2073396
(T) Yttrium	110			30.0-136	06/14/2023 17:51	WG2073396

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.320	J	0.332	0.606	06/16/2023 17:46	WG2074499

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.0388	U	0.106	0.201	06/16/2023 17:46	WG2074499
(T) Barium-133	88.4			30.0-143	06/16/2023 17:46	WG2074499

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-228	-0.367	<u>U</u>	0.271	0.509	06/14/2023 17:51	<u>WG2073396</u>
(<i>T</i>) Barium	86.6			30.0-143	06/14/2023 17:51	<u>WG2073396</u>
(<i>T</i>) Yttrium	104			30.0-136	06/14/2023 17:51	<u>WG2073396</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.114	<u>U</u>	0.326	0.580	06/16/2023 17:46	<u>WG2074499</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
RADIUM-226	0.114	<u>J</u>	0.182	0.278	06/16/2023 17:46	<u>WG2074499</u>
(<i>T</i>) Barium-133	90.5			30.0-143	06/16/2023 17:46	<u>WG2074499</u>

QUALITY CONTROL SUMMARY

L1619136-01,02,03,04,05

Method Blank (MB)

(MB) R3938842-1 06/14/23 17:51

¹Cp

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.488		0.154	0.268
(T) Barium	88.7		88.7	
(T) Yttrium	104		104	

²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1619139-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1619139-09 06/14/23 17:51 • (DUP) R3938842-5 06/14/23 17:51

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-228	0.206	0.361	0.661	0.734	0.414	0.661	1	112	0.960	J	20	3
(T) Barium	91.1			80.7	80.7							
(T) Yttrium	103			97.4	97.4							

Laboratory Control Sample (LCS)

(LCS) R3938842-2 06/14/23 17:51

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	4.68	93.5	80.0-120	
(T) Barium			99.0		
(T) Yttrium			90.4		

L1619136-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1619136-03 06/14/23 17:51 • (MS) R3938842-3 06/14/23 17:51 • (MSD) R3938842-4 06/14/23 17:51

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.939	15.8	18.5	89.1	105	1	70.0-130			15.3		20
(T) Barium		79.0			81.7	85.2							
(T) Yttrium		105			108	95.2							

QUALITY CONTROL SUMMARY

L1619136-01

Method Blank (MB)

(MB) R3937863-1 06/14/23 16:23

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	0.0613	J	0.0908	0.136
(T) Barium-133	47.6		47.6	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1617727-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1617727-01 06/14/23 16:23 • (DUP) R3937863-5 06/14/23 16:23

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.742	0.400	0.359	0.496	0.326	0.359	1	39.8	0.477		20	3
(T) Barium-133	76.2			83.9	83.9							

Laboratory Control Sample (LCS)

(LCS) R3937863-2 06/14/23 16:23

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.01	5.91	118	80.0-120	
(T) Barium-133			61.3		

L1617729-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1617729-03 06/14/23 16:23 • (MS) R3937863-3 06/14/23 16:23 • (MSD) R3937863-4 06/14/23 16:23

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.0663	22.3	22.1	111	110	1	75.0-125			0.946		20
(T) Barium-133		90.1			79.0	69.9							

QUALITY CONTROL SUMMARY

L1619136-02,03,04,05

Method Blank (MB)

(MB) R3938909-1 06/16/23 17:46

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	0.00379	<u>U</u>	0.0352	0.0716
(T) Barium-133	90.6		90.6	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1619139-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1619139-04 06/16/23 17:47 • (DUP) R3938909-5 06/16/23 17:46

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.0414	0.140	0.273	0.175	0.247	0.273	1	124	0.471	<u>J</u>	20	3
(T) Barium-133	91.3			84.9	84.9							

Laboratory Control Sample (LCS)

(LCS) R3938909-2 06/16/23 17:46

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.01	5.35	107	80.0-120	
(T) Barium-133			87.7		

⁷Gl⁸Al⁹Sc

L1614550-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1614550-02 06/16/23 17:46 • (MS) R3938909-3 06/16/23 17:46 • (MSD) R3938909-4 06/16/23 17:46

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.475	21.6	22.2	105	109	1	75.0-125			3.11		20
(T) Barium-133		91.2			88.6	87.5							

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

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
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.
U	Below Detectable Limits: Indicates that the analyte was not detected.

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.

¹ Cp

² TC

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ Al

⁹ Sc

Internal Transfer Chain of Custody

State of Origin: IL
 Cert. Needed: YES NO

Pace Analytical®
www.pacelabs.com

GE03619	Workorder Name: VISTRA - DUCK CREEK				Owner Received Date: 5/17/2023	Results Required By: 6/1/2023			
Report To:	Subcontract To:				Requested Analysis				
Gail Schindler Pace Analytical - IL/MO 2231 W. Altorfer Drive Peoria, IL 61615 800-752-6651	Pace Analytical - Mt Juliet 12065 Lebanon Rd Mt Juliet TN 37122				L212				
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	HNO3	Radium 226	Radium 228	LAB USE ONLY
1	OM07	GRAB	5/17/2023 12:13	GE03619-01	GW	X	X X		01
2	OM22D	GRAB	5/17/2023 16:55	GE03619-02	GW	X	X X		02
3	OR06A	GRAB	5/17/2023 13:45	GE03619-03	GW	X	X X		03
4	OR13S	GRAB	5/17/2023 15:20	GE03619-04	GW	X	X X		04
5	EQUIPMENT BLANK 12	GRAB	5/17/2023 17:08	GE03619-05	DI	X	X X		05
6									
7									
8									
9									
Transfers	Date/Time		Received By		Date/Time	Comments			
1	5/18/2023 08:31		<i>[Signature]</i>		5/18/23 08:50	Needs 226, 228 and combined Include QC summary and edd 10 day TAT			
2									
3			<i>[Signature]</i>		5/18/23 08:50				

Cooler Temperature on Receipt	°C	Custody Seal Y or N	Received on Ice Y or N	Sample Intact Y or N
-------------------------------	----	---------------------	------------------------	----------------------

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

FMT-ALL-C-002rev

Cont
S-offer

Sample Receipt Checklist		
COC Seal Present/Intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	If Applicable
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	VOA Zero Headspace:
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Prem.Correct/Check:
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

631659996575 - 20.2 ft = 20.2 NSM

6514 - 18.9 ft = 18.9 NSA



Ship to :
Pace Analytical Services, LLC
 12065 Lebanon Rd
 Mt Juliet TN 37122

(615)758-5858

INTER LABORATORY WORK ORDER # **GEO3619**

(To be complete by sending lab)

Sending Project No: **GEO3619**Receiving Project No: **###**Check Box for Consolidated Invoice: Date Prepared: **5/19/2023**REQUESTED COMPLETION DATE: **6/1/2023**

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	VISTRA - DUCK CREEK
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.Requested Reportable Units Report Wet or Dry Weight? Cert Needed: IL

WORK REQUESTED					
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price
Radium 226		5		5	\$121.05
Radium 228		5		5	\$121.05
		1		1	\$0.00
				TOTAL	\$1,210.50

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary & edd

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$1,210.50	\$968.40	\$242.10
		TOTAL	\$968.40	\$242.10

* Custom Revenue Allocation

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO		
Return Samples to Sending Region:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Return Samples to Sending Region: Yes No

CONFIRMATION OF WORK COMPLETED		
Date Completed:	<input type="text"/>	Receiving Project Manager: <input type="text"/>

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

GE03619

SENDING LABORATORY

PDC Laboratories, Inc.
 2231 W Altorfer Dr
 Peoria, IL 61615
 (800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
 12065 Lebanon Rd
 Mt Juliet, TN 37122
 (615) 758-5858

Sample: GE03619-01
Name: OM07

Sampled: 05/17/23 12:13
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

06/01/23 16:00

11/13/23 12:13

Sample: GE03619-02
Name: OM22D

Sampled: 05/17/23 16:55
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

06/01/23 16:00

11/13/23 16:55

Sample: GE03619-03
Name: OR06A

Sampled: 05/17/23 13:45
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

06/01/23 16:00

11/13/23 13:45

Sample: GE03619-04
Name: OR13S

Sampled: 05/17/23 15:20
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

06/01/23 16:00

11/13/23 15:20

Sample: GE03619-05
Name: EB 12

Sampled: 05/17/23 17:08
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

06/01/23 16:00

11/13/23 17:08

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC
GE03619

Please email results to Gail Schindler at gail.schindler@pacealabs.com

Date Shipped: 5/20/23 Total # of Containers: 5 Sample Origin (State): IL PO #: _____

Turn-Around Time Requested NORMAL RUSH Date Results Needed: _____

<u>100</u>	<u>5/23/23</u>	<u>0550</u>	Received By	Date/Time	Sample Temperature Upon Receipt	____ °C
Relinquished By	Date/Time	Received By	Date/Time	Sample(s) Received on Ice	Y or N	
Relinquished By	Date/Time	Received By	Date/Time	Proper Bottles Received in Good Condition	Y or N	
Relinquished By	Date/Time	Received By	Date/Time	Bottles Filled with Adequate Volume	Y or N	
Relinquished By	Date/Time	Received By	Date/Time	Samples Received Within Hold Time	Y or N	
Relinquished By	Date/Time	Received By	Date/Time	Date/Time Taken From Sample Bottle	Y or N	

Company: Vistra Corp	Report To: Brian Vogelker	Attention: Jason Stuckey
Address: 13488 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp
Email To: Brian.Vogelker@VistraCorp.com	Purchase Order No.:	Address: See Section A
Phone: (217) 753-8911 Fax:	Project Name:	Guide Reference:
Requested Due Date/TAT: 10 day	Project Number: 2285	Project Manager: Profile #:

Section A Required Client Information		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		UNPRESERVED		PRESERVATIVES		ANALYSIS TEST		REQUESTED ANALYSIS FILTRATED (Y/N)		REGULATORY AGENCY								
ITEM #	SAMPLE ID (A-Z, 0-9, /-.) Sample IDs MUST BE UNIQUE	DATE	TIME	MATRIX CODE	SAMPLE TYPE (G=GRAIN C=COMP) <small>(see well code to left)</small>	H ₂ SO ₄	HNO ₃	NaOH	Na ₂ S ₂ O ₃	Other	DC-257-203	DC-257-204	DC-257-205	DC-845-203	DC-845-205	DC-CLOSURE-201-202	DC-SUP-000	DC-WPCP-203-206	Residual Chlorine (Y/N)	NPDES UST	GROUND WATER RCRA	DRINKING WATER OTHER
1	DC_0M04HS																					
2	DC_0M05RS																					
3	DC_0M07																					
4	DC_0M08																					
5	DC_0M09																					
6	DC_0M10																					
7	DC_0M12																					
8	DC_0M15																					
9	DC_0M16	5/10/23	13:50																			
10	DC_0M17	5/10/23	12:14																			
11	DC_0M21																					
12	DC_0M24S																					
13	DC_0M22&D																					
14	DC_0M23&S																					
15	DC_0M23&D																					
16	DC_0M24&D																					
ADDITIONAL COMMENTS		RElinquished by / Affiliation		Accepted By / Affiliation		Date		Time		Accepted By / Affiliation		Date		Time		Accepted By / Affiliation		Date				
DC-23Q2-Rev 0		Jason Stuckey		Vista		5-10-23		1720		3.3		Y		N		Y		5-10-23				

Temp In °C	Received Date (Y/M/D)	Released Date (Y/M/D)	Sample I.D.
Print Name of Sampler:	Signature of Sampler:	Date Signed (MM/DD/YY):	Initials of Client:
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.			

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section C

Initials of Client:

Required Client Information:

Report To: Brian Vogelker

Section A

Required Project Information:

Company: Vistra Corp

Page: 6 of 8

CHAIN-OF-CUSTODY Analytical Request Document

The Creditor-Custodian is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

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Phone: (217) 763-8911	Fax:	Project Name:	Project Number: 2285	Project Manager: <i>Jeffrey</i>	Project Profile #:	Site Location: II	STATE:	Requested Analysis Filtered (Y/N): <i>geo</i>	Project No./Lab ID.: <i>GEO2285</i>
Section D Required Client Information				Requester Information					
SAMPLE ID (A-Z, D9-17) Sample IDs MUST BE UNIQUE				Client Name: <i>VIN Analytical Test</i> Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Fax: _____ E-mail: _____					
Matrix Codes MATURES DRINKING WATER: DW WATER: WT WASTE WATER: WW PRODUCT: P SOLID: SL OIL: OL NINE: NP AIR: AR OTHER: OT Tissue: TS				Matrix Code (G=GRA C=COMPO) (See VNR Codes to Left) SAMPLE TYPE (G=GRA C=COMPO) COLLECTED DATE TIME					
* OF CONTAINERS Unpreserved				SAMPLE TEMP AT COLLECTION °C					
Preservatives Other: Methanol: Na ₂ SO ₄ : NaOH: HCl: HNO ₃ : H ₂ SO ₄ : HgCl ₂ :				ANALYSIS TEST VIN					
Requested On (Y/N): <i>DC</i> Collected On (Y/N): <i>DC</i> Sealed Color: <i>DC</i> Sample (Y/N): <i>DC</i>				Temp in °C Date: <i>5/10/23</i> Time: <i>14:35</i> Date: <i>5/10/23</i> Time: <i>15:10</i> Date: <i>5/10/23</i> Time: <i>15:43</i> Date: <i>5/10/23</i> Time: <i>15:45</i> Date: <i>5/10/23</i> Time: <i>15:45</i> Date: <i>5/10/23</i> Time: <i>15:45</i>					
Additional Comments: DC-23Q2-Rev 0				RElinquished By / Affiliation: <i>Jeffrey R. Rau</i> Date: <i>5/10/23</i> Time: <i>17:20</i> Accepted By / Affiliation: <i>Vincent Wagner</i> Date: <i>5/10/23</i> Time: <i>17:20</i> Date Received: <i>5/10/23</i> Date Signed: <i>5/10/23</i>					
SAMPLER NAME AND SIGNATURE									
PRINT Name of Sampler: <i>Jeffrey R. Rau</i> Signature of Sampler: <i>Jeffrey R. Rau</i>									

Phone: (217) 753-8911	Fax:	Project Name:
Requested Due Date/TAT:	10 day	Project Number: 2285
Section D Required Client Information		
SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		
Valid Matrix Codes MATRIX CODES DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOLID/SOLID SL OIL WP WIPE AR AIR OT OTHER TS TISSUE TS		
SAMPLE TYPE (G=GRAIN C=COMPOUND) MATRIX CODE (See Valid codes to left)		
# OF CONTAINERS SAMPLE TEMP AT COLLECTION		
ITEM #	DATE	TIME
1	5/10/23	14:35
2	5/10/23	15:10
3	DC_T46L	
4	DC_X301_leachate	
5		
6	5/10/23	15:45
7	5/10/23	15:45
8		
9		
10		
11		
12		
13		
14		
15		
16		
ADDITIONAL COMMENTS		
DC-23Q2-Rev 0		Jerry R. Reed
Project No./Lab I.D.		5/10/23 1720
Accepted By / Affiliation		Vance W. Dunn
Date Accepted		5/10/23
Time Accepted		1720
Temp In °C		33
Refrigerated or Frozen (Y/N)		Y
Customary Code Profile (Y/N)		N
Samples In Intact (Y/N)		Y
Comments		of Reed
Print Name of Sampler:		Jerry R. Reed
Signature of Sampler:		Jerry R. Reed
Date Signed (MM/DD/YY):		5/10/23



PACE ANALYTICAL SERVICES
WWW.PACELABS.COM

REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

CHAIN OF CUSTODY RECORD

SAMPLE COLLECTED IN THE STATE OF IL

CHAIN-OF-CUSTODY / Analytical Request Document

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

GEO2632
Vnuv 5-12-23
GEO2654

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp	
				Address: see Section A	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:	
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:	
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:	

Page: 1 of 9

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location
STATE: IL

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes: <small>MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPES WP AIR AR OTHER OT TISSUE TS</small>	MATRIX CODE (see valid codes to left) <small>(G=GRAIN C=COMP)</small>	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives					Analysis Test ↓ <small>Y/N</small>	Project No./ Lab LD.	
				DATE	TIME			H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃			Methanol
1	DC_BA01	WT	6	5/11/23	1333		11	X	X	X				DC_257_203	
2	DC_BA02													DC_257_204	
3	DC_BA02!L													DC_257_205	
4	DC_BA03													DC_811_204	
5	DC_BA03!L													DC_845_201-202	
6	DC_BA04	WT	6	5/11/23	1146		11	X	X	X				DC_845_203	
7	DC_BA05#													DC_845_205	
8	DC_BA06													DC_CLOSURE_201-202	
9	DC_G02!L													DC_SUP_000	
10	DC_G02#S													DC_WFCP_203-206	
11	DC_G02&D														
12	DC_G03!L														
13	DC_G04!L														
14	DC_G06!L														
15	DC_G06#S														
16	DC_G07!L														
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS				
DC-23Q2-Rev 0			<i>[Signature]</i>		5/11/23	1720	<i>Grace Jackson</i>		5/11/23	17:20	5°	5°	/	/	
											Temp in °C	Received on Ice (Y/N)	Custody Sealed/Cooler (Y/N)	Samples Intact (Y/N)	
			SAMPLER NAME AND SIGNATURE												
			PRINT Name of SAMPLER:		<i>Harold Remmert</i>										
			SIGNATURE of SAMPLER:		<i>[Signature]</i>		DATE Signed (MM/DD/YY): 05/11/23								

CHAIN-OF-CUSTODY / Analytical Request Document

GEO2656 ~~GEO2632~~
Vmn 5-12-23

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 3 of 9	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey			
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp		REGULATORY AGENCY	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A		NPDES GROUND WATER DRINKING WATER	
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:		UST RCRA OTHER	
Requested Due Date/TAT: 10 day		Project Number: 2265		Project Manager:		Site Location: IL	
Profile #:		STATE:					

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left) (G=GRAV C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Project No./Lab I.D.						
				DATE	TIME		# OF CONTAINERS	Preservatives	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	↓ Analysis Test ↓	Y/N			DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203
1	DC_G54#S																									
2	DC_G55!L																									
3	DC_G55#S																									
4	DC_G56!L <i>YFD</i>	WT	6	5/11/23	1109		8	X X X																		
5	DC_G56#S																									
6	DC_G57!L	WT	6	5/11/23	1158		4	X X X X																		
7	DC_G57#S	WT	6	5/11/23	1522		5	X X X X																		
8	DC_G58!L	WT	6	5/11/23	1258		4	X X X X																		
9	DC_G58#S																									
10	DC_G59!L																									
11	DC_G59#S																									
12	DC_G60!L																									
13	DC_G60#S																									
14	DC_G61#S																									
15	DC_G62!L	WT	6	5/11/23	1358		5	X X X																		
16	DC_G63!L																									
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS															
DC-23Q2-Rev 0			<i>[Signature]</i>		5/11/23	1720					5		1	2												
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <i>Brian Pemberton</i> SIGNATURE of SAMPLER: <i>[Signature]</i> DATE Signed (MM/DD/YY): 05/11/23																Temp in °C	Received on Ice (Y/N)	Custody Sealed/Coder (Y/N)	Samples intact (Y/N)							

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Section B

Section C

Page: 4 of 9

Geo2656 GE02652
VMW 5-12-23

Required Client Information:		Required Project Information:		Invoice Information:			
Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey		Company Name: Vistra Corp	REGULATORY AGENCY		
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Address: see Section A		NPDES GROUND WATER DRINKING WATER			
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:		UST RCRA OTHER			
Phone: (217) 753-8911	Fax:	Project Manager:		Site Location:	IL		
Requested Due Date/TAT:	10 day	Project Number:	Profile #:	STATE:			

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	Preservatives						Requested Analysis Filtered (Y/N)						Project No./Lab I.D.					
				DATE	TIME		# OF CONTAINERS	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test ↓	DC_257_203	DC_257_204		DC_257_205	DC_B11_204	DC_845_201-202	DC_845_203	DC_845_205
1	DC_G63#S												DC_257_203											
2	DC_G64!L												DC_257_204											
3	DC_G64#S	WT	5/11/23	1511		12	X	X	X				DC_257_205											
4	DC_G65!L	WT	5/11/23	1251		14	X	X	X				DC_B11_204											
5	DC_G65#S												DC_845_201-202											
6	DC_G66!L												DC_845_203											
7	DC_G66#S												DC_845_204											
8	DC_G67!L												DC_CLOSURE_201-202											
9	DC_G67#S												DC_SUP_000											
10	DC_G70!L												DC_WPCP_203-206											
11	DC_G71!L																							
12	DC_G71#S																							
13	DC_G72!L																							
14	DC_G73!L	WT	5/11/23	1205		10	X	X	X															
15	DC_L103																							
16	DC_OM01																							
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS													
DC-23Q2-Rev 0			<i>[Signature]</i>		5/11/23	1720	<i>grace jast</i>		5/11/23	17:20	5	7	4	2	4	Temp in °C	Received on Ice (Y/N)	Custody Sealed/Colder (Y/N)	Sample intact (Y/N)					
SAMPLER NAME AND SIGNATURE																								
PRINT Name of SAMPLER: <i>Brian Voelker</i>																								
SIGNATURE of SAMPLER: <i>[Signature]</i>												DATE Signed (MM/DD/YY): 05/11/23												

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Page: 5 of 9

GE026574
from 5-12-23

Phone: (217) 753-8911	Fax:	Project Name:		
Requested Due Date/TAT:		Project Number:	2285	
Section D Required Client Information		SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE		ITEM #
Valid Matrix Codes CODES DRINKING WATER WATER WASTE WATER PRODUCT SOLID OIL WIPES AIR OTHER Tissue		MATRIX CODE (see valid codes to left)		SAMPLE TYPE (G=GRA, C=COMP) (see valid codes to left)
COLLECTED		DATE	TIME	# OF CONTAINERS
Unpreserved		H ₂ SO ₄	HNO ₃	
Preservatives		HCl	NaOH	Na ₂ S ₂ O ₃
Analyses Test		NH ₃	Other	Na ₂ SO ₃
Requested Analysis Filtered (Y/N)		Site Location		STATE: IL
Residual Chlorine (Y/N)		Project No./Lab I.D.		Sample (Y/N)
Temp in °C		Sample Code (Y/N)		Sealed Container (Y/N)
Received on		Project Manager: Profile #:		Sample (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Section B

Required Project Information:

Section C

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CHAIN-OF-CUSTODY / Analytical Request Document

Section A Recipient Client Information
Section B Recipient Project Information

Section C
Invasive Insects

Page: 3 of 9

CHAIN-OF-CUSTODY / Analytical Request Document

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Section 4

Project Name:	(217) 753-8911	Fax:	Project Number:	22885
Requested Due Date/TAT:	10 day		Project Manager Profile #:	
SAMPLE ID (A-Z, 0-9,-)		Sample IDs MUST BE UNIQUE		
# ITEM		Valid Matrix Codes	COLLECTED	DATE TIME
1		DC_T44L		
2		DC_T45L		
3		DC_T46L		
4		DC_X301_leachate		
5		EB-6	5/2/23 10:36	
6		EB-7	5/2/23 12:45	
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
ADDITIONAL COMMENTS		RElinquished By / AFFILIATION		
DC-23Q2-Rev 0		Joseph R. Neal 5/12/23		
SAMPLER NAME AND SIGNATURE		PERMIT Name of SAMPLER: Joseph R. Neal		
SIGNATURE of SAMPLER:		Signature: Joseph R. Neal		
Temp in C		DATE	TIME	SAMPLE CONDITIONS
		5/12/23	14:31	2
Received on		DATE Signed (MM/DD/YY):	5/12/23	
Cubeddy Sealed Container (Y/N)		Signature: Joseph R. Neal		
Sample ID (Y/N)		Signature: Joseph R. Neal		
Project No./Lab I.D.		Signature: Joseph R. Neal		
Requested Analysis Filtered (Y/N)		Signature: Joseph R. Neal		
Site Location STATE:		Signature: Joseph R. Neal		
IL		Signature: Joseph R. Neal		
Residual Chlorine (Y/N)		Signature: Joseph R. Neal		
66027755 get		Signature: Joseph R. Neal		

GEO3000
Ver 5-16-23

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 1 of 9	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey			
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp		REGULATORY AGENCY	
				Address: see Section A		NPDES	GROUND WATER
				Quote Reference:		UST	DRINKING WATER
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Project Manager:		RCRA	OTHER
Phone: (217) 753-8911 Fax:		Project Name:		Profile #:		Site Location	STATE: IL
Requested Due Date/TAT: 10 day		Project Number: 2285					

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		SAMPLE TYPE (G=GRAB O=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.				
		MATRIX	CODE		MATRIX CODE (see valid codes to left)	DATE			TIME	Preservatives										Y/N			
1	DC_BA01	DW	WT			H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206	Residual Chlorine (Y/N)
2	DC_BA02	WT	WT	5/15/23	1123																		
3	DC_BA02!L	WW	WW																				
4	DC_BA03	P	P																				
5	DC_BA03!L	SL	SL																				
6	DC_BA04	Q	Q																				
7	DC_BA05#	WP	WP																				
8	DC_BA06	AR	AR																				
9	DC_G02!L	OT	OT																				
10	DC_G02#S	TS	TS	5/15/23	1518																		
11	DC_G02&D																						
12	DC_G03!L																						
13	DC_G04!L																						
14	DC_G06!L																						
15	DC_G06#S																						
16	DC_G07!L																						
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS												
DC-23Q2-Rev 0			Joseph R Reed 5/15/23 1800				Vern Lohman 5/16/23 650				Temp in °C		Received on Ice (Y/N)		Custody Sealed Cooler (Y/N)		Samples intact (Y/N)						

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed
(MM/DD/YY):

5/15/23

CHAIN-OF-CUSTODY / Analytical Request Document

GEO3000

VMM 5-16-23

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 2 of 9	
Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey					
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	REGULATORY AGENCY				
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Address: see Section A	NPDES	GROUND WATER	DRINKING WATER		
Phone: (217) 753-8911	Fax:	Quote Reference:	UST	RCRA	OTHER		
Requested Due Date/TAT: 10 day	Project Name: 2285	Project Manager:	Site Location:	IL			
Profile #:	STATE:						

ITEM #	Section D Required Client Information	Valid Matrix Codes		COLLECTED		SAMPLE TEMP AT COLLECTION	Requested Analysis Filtered (Y/N)										Project No / Lab I.D.					
		MATRIX	CODE	MATRIX CODE (use valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)		DATE	TIME	# OF CONTAINERS	Preservatives									↓ Analysis Test ↑			
1	SAMPLE ID (A-Z, 0-9 / .) Sample IDs MUST BE UNIQUE	DW	WT				H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	DC_257_203	DC_257_204	DC_257_205	DC_311_204	DC_845_201-202	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206	Residual Chlorine (Y/N)
2	DC_G08!L	WT	WW																			
3	DC_G09!L	WT	WW																			
4	DC_G12!L	WT	WW																			
5	DC_G12#S	WT	WW																			
6	DC_G14!L	WT	WW																			
7	DC_G15!L	WT	WW																			
8	DC_G16!L	WT	WW																			
9	DC_G50!L	WT	WW																			
10	DC_G50#S	WT	WW	5/15/23	12:56	12																
11	DC_G51!L	WT	WW	5/15/23	11:26	12																
12	DC_G51#S	WT	WW																			
13	DC_G52!L	WT	WW																			
14	DC_G52#S	WT	WW																			
15	DC_G53!L	WT	WW																			
16	DC_G53#S	WT	WW																			
	DC_G54!L	WT	WW																			
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS												
DC-23Q2-Rev 0		Jol Reed		5/15/23	18:00	Van Heynen		5-16-23	6:50	0.3	Y	N	✓	Received on Ice (Y/N)	Custody Sealed/Colder (Y/N)	Samples intact (Y/N)						
				SAMPLE NAME AND SIGNATURE																		
				PRINT Name of SAMPLER:		Jol Reed																
				SIGNATURE of SAMPLER:		Jol Reed		DATE Signed (MM/DD/YY):		5/15/23												

CHAIN-OF-CUSTODY / Analytical Request Document

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GEO3000
Vmu 5-16-23

Page: 3 of 9

Section A
Required Client Information:

Company: Vistra Corp

Address: 13498 E. 900th St

Email To: Brian.Voelker@VistraCorp.com

Phone: (217) 763-8911

Requested Due Date/TAT: 10 day

Section B
Required Project Information:

Report To: Brian Voelker

Copy To: Jason Stuckey

Purchase Order No.:

Project Name:

Project Number: 2285

Section C

Invoice Information:

Attention: Jason Stuckey

Company Name: Vistra Corp

Address: see Section A

Quota Reference:

Project Manager:

Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location
STATE:

IL

ITEM #	SAMPLE ID (A-Z, 0-9 / .) Sample IDs MUST BE UNIQUE	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	Project No./Lab I.D.																													
						DATE	TIME				Y	N																															
1	DC_G54#S								Unpreserved	DC_257_203																																	
2	DC_G55!L								H ₂ SO ₄	DC_257_204																																	
3	DC_G55#S								HNO ₃	DC_257_205																																	
4	DC_G56!L								HCl	DC_811_204																																	
5	DC_G56#S								NaOH	DC_B45_201-202																																	
6	DC_G57!L								Na ₂ S ₂ O ₃	DC_B45_203																																	
7	DC_G57#S								Methanol	DC_B45_205																																	
8	DC_G58!L								Other	DC_CLOSURE_201-202																																	
9	DC_G58#S									DC_SUP_000																																	
10	DC_G59!L									DC_WPCP_203-206																																	
11	DC_G59#S																																										
12	DC_G60!L																																										
13	DC_G60#S																																										
14	DC_G61#S																																										
15	FB #8																																										
16	DC_G60!L FB #9																																										
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																																
DC-23Q2-Rev 0			Joe Reed		5/13/23	1552	Vern Wagner		5/16/23	1650	0.3	Y	N	Y																													
<table border="1"> <tr> <td colspan="2">SAMPLER NAME AND SIGNATURE</td> <td colspan="2">PRINT Name of SAMPLER:</td> <td colspan="2">SIGNATURE of SAMPLER:</td> <td>Temp in °C</td> <td>Received on Ice (Y/N)</td> <td>Custody Sealed/Coder (Y/N)</td> <td>Samples Intact (Y/N)</td> </tr> <tr> <td colspan="2">Joe Reed</td> <td colspan="2"></td> <td colspan="2">Joseph A Reed</td> <td>5/13/23</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td>DATE Signed (MM/DD/YY):</td> <td colspan="3"></td> </tr> </table>														SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		SIGNATURE of SAMPLER:		Temp in °C	Received on Ice (Y/N)	Custody Sealed/Coder (Y/N)	Samples Intact (Y/N)	Joe Reed				Joseph A Reed		5/13/23										DATE Signed (MM/DD/YY):			
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		SIGNATURE of SAMPLER:		Temp in °C	Received on Ice (Y/N)	Custody Sealed/Coder (Y/N)	Samples Intact (Y/N)																																		
Joe Reed				Joseph A Reed		5/13/23																																					
						DATE Signed (MM/DD/YY):																																					

CHAIN-OF-CUSTODY / Analytical Request Document

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

GEO3000
MMW 5-16-23

Required Client Information:

Company: Vistra Corp	Report To: Brian Voelker
Address: 13498 E. 900th St	Copy To: Jason Stuckey
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT: 10 day	Project Name: Project Number: 2285

Required Project Information:

Attention: Jason Stuckey
Company Name: Vistra Corp
Address: see Section A
Quote Reference:
Project Manager:
Profile #:

Invoice Information:

REGULATORY AGENCY
NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER
Site Location STATE: IL

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	Project No./ Lab I.D.					
					DATE	TIME			H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Meethanol	Other	↓ Analysis Test ↓			Y/N				
1		DC_G63#S			5/15/23	1500		12															
2		DC_G64#L																					
3		DC_G64#S																					
4		DC_G65#L																					
5		DC_G65#S																					
6		DC_G66#L																					
7		DC_G66#S																					
8		DC_G67#L																					
9		DC_G67#S																					
10		DC_G70#L																					
11		DC_G71#L																					
12		DC_G71#S																					
13		DC_G72#L																					
14		DC_G73#L																					
15		DC_L103																					
16		DC_OM01																					
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS												
DC-23Q2-Rev 0			Joseph R Reed		5/15/23	1800	Vann Wayne		5-16-23	1650	0.3	Y	N	Y	Temp in °C	Received in Ice (Y/N)	Custody Sealed/Colder (Y/N)	Samples Infect (Y/N)					
<table border="1"> <tr> <td colspan="2">SAMPLER NAME AND SIGNATURE</td> </tr> <tr> <td colspan="2">PRINT Name of SAMPLER: Joseph R Reed</td> </tr> <tr> <td colspan="2">SIGNATURE of SAMPLER: Joseph R Reed</td> </tr> <tr> <td colspan="2">DATE Signed (MM/DD/YY): 5/15/23</td> </tr> </table>																SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER: Joseph R Reed		SIGNATURE of SAMPLER: Joseph R Reed		DATE Signed (MM/DD/YY): 5/15/23	
SAMPLER NAME AND SIGNATURE																							
PRINT Name of SAMPLER: Joseph R Reed																							
SIGNATURE of SAMPLER: Joseph R Reed																							
DATE Signed (MM/DD/YY): 5/15/23																							

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Page: 5 of 9

GC03000
VWR S-16-23

Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey	REGULATORY AGENCY		
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	NPDES	GROUND WATER	DRINKING WATER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Address: see Section A	UST	RCRA	OTHER
Phone: (217) 753-8911	Fax:	Circle Reference:			
Requested Due Date/TAT: 10 day	Project Name: Project Number: 2285	Project Manager: Profile #:	Site Location:	IL	
STATE:					

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DW WT WW P SL DP WP AR OT TS	MATRIX CODE (see valid codes to left) SAMPLE TYPE (G-CRAB D-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ Y/N	Requested Analysis Filtered (Y/N)						Project No./Lab I.D.		
				DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202		DC_845_203	DC_845_205
1	DC_OM04#S																							
2	DC_OM05#S																							
3	DC_OM07																							
4	DC_OM08																							
5	DC_OM09																							
6	DC_OM10			5/15/23	1314																			
7	DC_OM12			5/15/23	1405																			
8	DC_OM15																							
9	DC_OM16																							
10	DC_OM17																							
11	DC_OM21			5/15/23	1324																			
12	DC_OM22#S																							
13	DC_OM22&D																							
14	DC_OM23#S																							
15	DC_OM23&D			5/15/23	1600																			
16	DC_OM24&D																							
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS													
DC-23Q2-Rev 0			<i>Joseph R. Reid</i>		5/15/23	1900	<i>Vern W. Jones</i>		5-16-23	1650	0.3	Y	N	Y	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Sample In tact (Y/N)						

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: *Joe Reed*

SIGNATURE of SAMPLER: *Joseph R. Reid*

DATE Signed (MM/DD/YY): 5/15/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Company: Vistra Corp

Report To: Brian Voelker

Attention: Jason Stuckey

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GEO3000
Vnew 5-16-23

Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	REGULATORY AGENCY		
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Address: see Section A	NPDES	GROUND WATER	DRINKING WATER
Phone: (217) 753-8911	Fax:	Quote Reference:	UST	RCRA	OTHER
Requested Due Date/TAT: 10 day	Project Name: Project Number: 2285	Project Manager: Profile #:	Site Location:	STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	COLLECTED		SAMPLE TEMP AT COLLECTION	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No./ Lab I.D.								
				SAMPLE TYPE (G-GRAB C-COMP)	DATE		TIME	# OF CONTAINERS	Preservatives										Y/N							
1		DC_OM25#S						Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	↓ Analysis Test ↓	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206
2		DC_OM25&D																								
3		DC_OR02																								
4		DC_OR03#S																								
5		DC_OR03&D																								
6		DC_OR04&D																								
7		DC_OR05&D																								
8		DC_OR06!A																								
9		DC_OR11		5/13/23	1233	11																				
10		DC_OR13#S																								
11		DC_OR13&D																								
12		DC_OR14#S																								
13		DC_OR14&D		5/15/23	1135	11																				
14		DC_OR18																								
15		DC_OR19		5/15/23	1328	11																				
16		DC_OR20		5/15/23	1110	11																				
ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS														
DC-23Q2-Rev 0				Joe Reed		5/15/23	1800	Van Wagoner		5-16-23	650	03	Y	N	Y	Temp in °C	Received on Ice (Y/N)	Custody Sealed/Coker (Y/N)	Samples Intact (Y/N)							
SAMPLER NAME AND SIGNATURE														DATE Signed (MM/DD/YY): 5/15/23												
PRINT Name of SAMPLER: Joe Reed																										
SIGNATURE of SAMPLER: Joe Reed																										

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 7 of 9	
Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey					
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	REGULATORY AGENCY				

Required Client Information:					
Company: Vistra Corp	Address: 1349B E. 900th St	Report To: Brian Voelker	Attention: Jason Stuckey	Company Name: Vistra Corp	REGULATORY AGENCY
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Copy To: Jason Stuckey	Reference:	NPDES	DRINKING WATER
Phone: (217) 753-8911	Project Name:		Project Manager:	UST	GROUND WATER
Requested Due Date/TAT: 10 day	Project Number: 2285		Profile #:	RCREA	OTHER
geoff					
Residual Chlorine (Y/N)					
Requested Analysis Filtered (Y/N)					
Project No./Lab I.D.					
Site Location STATE: IL					
Site ID: 6EO3280					
Analysts Test ↑ Y/N					
Preservatives					
# OF CONTAINERS					
SAMPLE TEMP AT COLLECTION					
MATRIX CODE (see valid codes to left)					
SAMPLE TYPE (G=GRA B=C=COMP)					
TIME					
DATE					
COLLECTED					
Valid Matrix Codes					
DISCHARGING WATER DW WATER W WASTE WATER WW PRODUCT P SEALANT S CIL C WIP WIP AIR AIR OTHER OT Tissue TS					
SAMPLE ID					
Sample ID MUST BE UNIQUE					
ITEM #					
1	DC_G63#S				
2	DC_G64#L				
3	DC_G64#S				
4	DC_G65#L				
5	DC_G65#S				
6	DC_G66#L				
7	DC_G66#S				
8	DC_G67#L				
9	DC_G67#S				
10	DC_G70#L				
11	DC_G71#L				
12	DC_G71#S				
13	DC_G72#L	RS	WTG	S/16/23	1525
14	DC_G73#L				1K
15	DC_L103				
16	DC_DM01				
ADDITIONAL COMMENTS					
RELINQUISHED BY / AFFILIATION					
DATE TIME ACCEPTED BY / AFFILIATION DATE TIME					
PRINT Name of SAMPLER: 5/16/23 7M7					
SIGNATURE of SAMPLER: Jason Stuckey					
SAMPLE CONDITIONS					
Temp In C 5/16/23 17:47 5.5 N Y					
Relative Cond on Site (Y/N) Customer Condition (Y/N) Samples (Y/N)					

CHAIN-OF-CUSTODY / Analytical Request Document

The Graphical User Study is a LEGAL DOCUMENT. A relevant page number is usually

Section B
Received Product Information:

SCHOLARLY PAPERS IN THE LIBRARY

**SECTION A
Required Client Information:**

Index Information:

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	
Company:	Vistra Corp
Address:	13498 E. 900th St
Email To:	Brian.Voelker@VistraCorp.com
Phone:	(217) 753-8911
Requested Due Date/TAT:	10 day
Copy To:	Jason Stuckey
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section B Required Project Information:	
Report To:	Brian Voelker
Attention:	Jason Stuckey
Company Name:	Vistra Corp
Address:	See Section A
Quote Reference:	
Project Manager:	
Project Profile #:	

Section C Invoice Information:		REGULATORY AGENCY	
		NPDES	GROUND WATER DRINKING WATER
		UST	RCRA OTHER
		Site Location:	IL
		STATE:	
		Residual Chlorine (Y/N)	
		GE63280 geej	
Requested Analysis Filtered (Y/N)			
<input checked="" type="checkbox"/> Analytes Test <input type="checkbox"/> V/N			
<input checked="" type="checkbox"/> Preservatives <input type="checkbox"/> V/N			
<input checked="" type="checkbox"/> Sample Temp at Collection <input type="checkbox"/> V/N			
<input checked="" type="checkbox"/> Unpreserved <input type="checkbox"/> V/N			
<input checked="" type="checkbox"/> # OF CONTAINERS <input type="checkbox"/> V/N			
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<input checked="" type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄			
<input checked="" type="checkbox"/> NaOH <input type="checkbox"/> HCl			
<input checked="" type="checkbox"/> Na ₂ CO ₃ <input type="checkbox"/> Other			
<input checked="" type="checkbox"/> Methanol <input type="checkbox"/> Methane			
<input checked="" type="checkbox"/> H ₂ O <input type="checkbox"/> N ₂			
<input checked="" type="checkbox"/> DATE <input type="checkbox"/> TIME			
<input checked="" type="checkbox"/> MATRIX CODE <input type="checkbox"/> SAMPLE TYPE (Q=GRA C=COM)			
<input checked="" type="checkbox"/> COLLECTED <input type="checkbox"/> USED CODES TO FM			
<input checked="" type="checkbox"/> Matrix <input type="checkbox"/> Vessel Codes to FM			
<input checked="" type="checkbox"/> WATER <input type="checkbox"/> WASTE WATER			
<input checked="" type="checkbox"/> PRODUCT <input type="checkbox"/> SOLID			
<input checked="" type="checkbox"/> OTHER <input type="checkbox"/> LIQUID			
<input checked="" type="checkbox"/> AIR <input type="checkbox"/> GASEOUS			
<input checked="" type="checkbox"/> TISSUE <input type="checkbox"/> OTHER			
<input checked="" type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄			
<input checked="" type="checkbox"/> NaOH <input type="checkbox"/> HCl			
<input checked="" type="checkbox"/> Na ₂ CO ₃ <input type="checkbox"/> Other			
<input checked="" type="checkbox"/> Methanol <input type="checkbox"/> Methane			
<input checked="" type="checkbox"/> H ₂ O <input type="checkbox"/> N ₂			
<input checked="" type="checkbox"/> DATE <input type="checkbox"/> TIME			
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<input checked="" type="checkbox"/> TISSUE <input type="checkbox"/> OTHER			
<input checked="" type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄			
<input checked="" type="checkbox"/> NaOH <input type="checkbox"/> HCl			
<input checked="" type="checkbox"/> Na ₂ CO ₃ <input type="checkbox"/> Other			
<input checked="" type="checkbox"/> Methanol <input type="checkbox"/> Methane			
<input checked="" type="checkbox"/> H ₂ O <input type="checkbox"/> N ₂			
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<input checked="" type="checkbox"/> PRODUCT <input type="checkbox"/> SOLID			
<input checked="" type="checkbox"/> OTHER <input type="checkbox"/> LIQUID			
<input checked="" type="checkbox"/> AIR <input type="checkbox"/> GASEOUS			
<input checked="" type="checkbox"/> TISSUE <input type="checkbox"/> OTHER			
<input checked="" type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄			
<input checked="" type="checkbox"/> NaOH <input type="checkbox"/> HCl			
<input checked="" type="checkbox"/> Na ₂ CO ₃ <input type="checkbox"/> Other			
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<input checked="" type="checkbox"/> H ₂ O <input type="checkbox"/> N ₂			
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<input checked="" type="checkbox"/> TISSUE <input type="checkbox"/> OTHER			
<input checked="" type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄			

CHAIN-OF-CUSTODY / Analytical Request Document

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Required Project Information:

External Client Information:

Client Information:		Project Information:		Regulatory Agency		Sample Conditions					
Company Name:	Vistra Corp	Report To:	Brian Voelker	Address:	13498 E. 900th St	Copy To:	Jason Stuckey	NPDES	GROUND WATER	DRINKING WATER	Temp In °C
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Address:	see Section A	Quota:		UST	RCRA	OTHER	Received by (Y/N)
Phone:	(217) 753-8911	Project Name:		Reference:		Project Manager:		Site Location:	IL	STATE:	Samples Received (Y/N)
Requested Due Date/TAT:	10 day	Project Number:	2285	From #:		To #:		Residual Chlorine (Y/N)			
Request Analysis Filtered (Y/N)											
Analysis Test ↑ Y/N ↓											
Preservatives											
# OF CONTAINERS											
SAMPLE TEMP AT COLLECTION											
TIME DATE TIME											
#											
SAMPLE TYPE (GRAB-COMP)											
MATRIX CODE (see valid codes to left)											
SAMPLE ID (A-Z, 0-9, -)											
Sample ID MUST BE UNIQUE											
#											
1	DC_T44L										Project No./Lab I.D.
2	DC_T45L										
3	DC_T46L										
4	DC_X301_leachate	Q.S.	WT	G	S/16/23	1	S 30	1	X		
5	Equipment	Blank	7	as	WT	G	S/16/23	1	X		
6	Equipment	Blank	10		WT	G	S/16/23	1741	X		
7	Equipment	Blank	11		WT	G	S/16/23	1726	X		
8	BAO3 + EDWQLS	Q.S. 312	WT	G	S/16/23	1423	2	X			
9	BAO3L	Q.S.	WT	G	S/16/23	1446	1	X			
10											
11											
12											
13											
14											
15											
16											
ADDITIONAL COMMENTS		REINFORCED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE	
DC-23Q2-Rev 0				11/16/23		17:47		grace J. V.		11/16/23	
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		DATE		TIME		SAMPLE CONDITIONS		DATE SIGNED	
Hector		Hector								(MM/DD/YY): 05/15/23	

Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey	REGULATORY AGENCY	
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	NPDES	GROUND WATER	DRINKING WATER	
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Address: see Section A	UST	RCRA	OTHER	
Phone: (217) 753-8911	Project Name:	Quote Reference	Site Location	IL	6E03C19 gdy	
Requested Due Date/TAT: 10 day	Project Number: 2285	Project Manager: Profile #:	STATE:			
Requested Analysis Filtered (Y/N)						
Preservatives						
# OF CONTAINERS						
SAMPLE TEMP AT COLLECTION						
Section D Required Client Information		COLLECTED	DATE	TIME	Analysts Test Y/N	
SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		MATRIX CODE (see VMEC code list)	SAMPLE TYPE (G=GRAB C=COMB)		Residual Chlorine (Y/N)	
ITEM #	Valid Matrix Codes CODE DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID OIL WATE AIR OT TS	DC_0M04#S DC_0M05#S DC_0M07 DC_0M08 DC_0M09 DC_0M10 DC_0M12 DC_0M15 DC_0M16 DC_0M17 DC_0M21 DC_0M22#S DC_0M22&D DC_0M23#S DC_0M23&D DC_0M24&D	WT WT WW P SI Q AR OT TS	Na ₂ S ₂ O ₃ NaOH HCl HNO ₃ H ₂ SO ₄ Unpreserved	DC_WPCP_203-206 DC_SUP_000 DC_CLOSURE_201-202 DC_845_205 DC_845_203 DC_845_201-202 DC_811_204 DC_257_205 DC_257_204 DC_257_203	Project No./ Lab I.D.
Additional Comments						
DC-23Q2-Rev 0		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	
DC-23Q2-Rev 0		5/17/23	1814	Jason W. Jones	DATE	TIME
SAMPLE CONDITIONS						
Temp in °C						
Received on Date (Y/N)						
Custody Sealed/Coder (Y/N)						
Samples Interlaced (Y/N)						

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section C

Section B
Required Client Information:

Print Name of Sampler:
Signature of Sampler:

Section A
Required Client Information:

Print Name of Sampler:
Signature of Sampler:

Invoice Information:
Attention: Jason Stuckey

Page: 6 of 9

REGULATORY AGENCY																																																					
Address:	Vistra Corp		NPDES	GROUND WATER	DRINKING WATER																																																
Email To:	Jason Stuckey		RCRA	OTHER																																																	
Phone:	Brian.Voelker@VistraCorp.com		Project Name:	GEO3e19 gj																																																	
Requested Due Date/TAT:	10 day		Project Number:	2285																																																	
<table border="1"> <tr> <td colspan="2">Section D Required Client Information</td> <td colspan="4"> Company Name: Vistra Corp Address: See Section A Quote Reference: Project Manager: Profile #: </td> </tr> <tr> <td colspan="2"> SAMPLE ID (A-Z, 0-9, .) <small>Sample IDs MUST BE UNIQUE</small> </td> <td colspan="4"> Valid Matrix Codes MATRIX CODE DRINKING WATER DH WATER WT WASTE WATER WW PRODUCT P SOLID SL OIL OL WIPER WP AIR AR OTHER OT TISSUE TS </td> </tr> <tr> <td colspan="2"></td> <td colspan="4"> SAMPLE TYPE (G=GRAB C=COMP) MATRIX CODE (see valid codes to left) </td> </tr> <tr> <td colspan="2"></td> <td>COLLECTED</td> <td>DATE</td> <td>TIME</td> <td></td> </tr> <tr> <td colspan="2"></td> <td colspan="4"> # OF CONTAINERS SAMPLE TEMP AT COLLECTION Preservatives </td> </tr> <tr> <td colspan="2"></td> <td colspan="4"> Analysis Test ↑ ↑ Residual Chlorine (Y/N) </td> </tr> <tr> <td colspan="2"></td> <td colspan="4"> Requested Analysis Filtered (Y/N) ↑ Project No./Lab I.D. </td> </tr> <tr> <td colspan="6"> Temp in °C Selected on C Custody Sealed Container (Y/N) Samples in (Y/N) </td> </tr> </table>						Section D Required Client Information		Company Name: Vistra Corp Address: See Section A Quote Reference: Project Manager: Profile #:				SAMPLE ID (A-Z, 0-9, .) <small>Sample IDs MUST BE UNIQUE</small>		Valid Matrix Codes MATRIX CODE DRINKING WATER DH WATER WT WASTE WATER WW PRODUCT P SOLID SL OIL OL WIPER WP AIR AR OTHER OT TISSUE TS						SAMPLE TYPE (G=GRAB C=COMP) MATRIX CODE (see valid codes to left)						COLLECTED	DATE	TIME				# OF CONTAINERS SAMPLE TEMP AT COLLECTION Preservatives						Analysis Test ↑ ↑ Residual Chlorine (Y/N)						Requested Analysis Filtered (Y/N) ↑ Project No./Lab I.D.				Temp in °C Selected on C Custody Sealed Container (Y/N) Samples in (Y/N)					
Section D Required Client Information		Company Name: Vistra Corp Address: See Section A Quote Reference: Project Manager: Profile #:																																																			
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ADDITIONAL COMMENTS RELINQUISHED BY / AFFILIATION DATE TIME ACCEPTED BY / AFFILIATION DATE TIME SAMPLE CONDITIONS																																																					
DC-23Q2-Rev 0 <i>[Signature]</i> 5/17/23 15:14 <i>[Signature]</i> 5/17/23 15:14 - 14:4 N Y																																																					
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <i>Aaron Voelker</i> SIGNATURE of SAMPLER: <i>[Signature]</i> DATE Signed (MM/DD/YYYY): 05/17/23																																																					
Section A Required Client Information: Company: Vistra Corp Address: 13498 E. 900th St																																																					
Section B Required Project Information: Report To: Brian Voelker Copy To: Jason Stuckey																																																					
Section C Invoice Information: Attention: Jason Stuckey Company Name: Vistra Corp																																																					
REGULATORY AGENCY																																																					

CHAIN-OF-CUSTODY / Analytical Request Document

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Section

Section C

Section B

Section B
Background Protection Information:

Phone: (217) 753-8911	Fax:	Project Name:	Project Manager:
Requested Due Date/TAT:	10 day	Project Number:	Profile #:
SAMPLE TEMP AT COLLECTION			
COLLECTED		TIME	
ITEM #		DATE	
SAMPLE TYPE (G=GRA B=C=COMP)		TIME	
MATRIX CODE (see valid codes to left)			
# OF CONTAINERS			
Unpreserved			
HNO ₃			
H ₂ SO ₄			
HCl			
NaOH			
Na ₂ S ₂ O ₃			
Methanol			
Other			
Preservatives			
# ANALYSIS TEST ↑		Y/N ↑	
DC_257_203			
DC_257_204			
DC_257_205			
DC_845_202			
DC_845_203			
DC_845_205			
DC_CLOSURE_201_202			
DC_SUP_000			
DC_WPCP_203_206			
Residual Chlorine (Y/N)			
Project No./Lab I.D.		GEO3C19	
Site Location		STATE: IL	
Requested Analysis Filtered (Y/N)			
Samples intact (Y/N)			
Sealed Container (Y/N)			
Received on (cc) (MM/DD/YY):			
Temp in C			

SAMPLE NAME AND SIGNATURE		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
PRINT NAME OF SAMPLER:		5/17/23 /8/14		Van Wagoner		5-17-23 18/14		Y	N
SIGNATURE OF SAMPLER:		<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>		Y	Y
DATE Signed (MM/DD/YY):		05/17/23							



Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

October 24, 2023

Daryl Johnson
Vistra - Duck Creek
17751 North Cilco Road
Canton, IL 61520-8761

RE: DC 23Q3

Dear Daryl Johnson:

Please find enclosed the analytical results for the **100** sample(s) the laboratory received on **7/19/23 5:12 pm** and logged in under work order **GG03353**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise . We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Diane Billings
Sincerely,

Diane Billings
Project Manager



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order GG03353

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GG03704

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GG04129

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GG04417

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GG04630

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GG04652

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GG04978

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GG05277

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GH02459

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
YES	Case narrative provided



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

ANALYTICAL RESULTS

Sample: GG03353-04

Sampled: 07/19/23 15:05

Name: OM21

Received: 07/19/23 17:12

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	270	mg/L	Q4	07/20/23 17:26	250	250	07/20/23 17:26	CRD	EPA 300.0 REV 2.1
Sulfate	1200	mg/L	Q4	07/20/23 17:26	250	250	07/20/23 17:26	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	10.8	Feet		07/19/23 15:05	1		07/19/23 15:05	FIELD	Field*
Dissolved oxygen, Field	2.7	mg/L		07/19/23 15:05	1		07/19/23 15:05	FIELD	Field*
Oxidation Reduction Potential	-47.6	mV		07/19/23 15:05	1	-500	07/19/23 15:05	FIELD	Field*
pH, Field Measured	6.47	pH Units		07/19/23 15:05	1		07/19/23 15:05	FIELD	Field*
Specific Conductance, Field Measured	3344	umhos/cm		07/19/23 15:05	1		07/19/23 15:05	FIELD	Field*
Temperature, Field Measured	18.8	°C		07/19/23 15:05	1		07/19/23 15:05	FIELD	Field*
Temperature, Field Measured	65.8	°F		07/19/23 15:05	1		07/19/23 15:05	FIELD	Field*
Turbidity, Field Measured	1890	NTU		07/19/23 15:05	1	0.00	07/19/23 15:05	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	620	mg/L		07/31/23 09:55	1	10	07/31/23 09:55	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		07/31/23 09:55	1	10	07/31/23 09:55	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		07/26/23 15:02	1	0.250	07/26/23 15:02	ANK	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	2700	mg/L		07/24/23 10:28	1	26	07/24/23 12:06	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		07/20/23 09:16	5	3.0	08/01/23 14:31	wjm	EPA 6020A
Arsenic	3.6	ug/L		07/20/23 09:16	5	1.0	08/01/23 14:31	wjm	EPA 6020A
Barium	62	ug/L		07/20/23 09:16	5	1.0	08/01/23 14:31	wjm	EPA 6020A
Beryllium	< 1.0	ug/L		07/20/23 09:16	5	1.0	07/28/23 09:31	TJJ	EPA 6020A
Boron	9800	ug/L		07/20/23 09:16	5	10	07/28/23 09:31	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		07/20/23 09:16	5	1.0	08/01/23 14:31	wjm	EPA 6020A
Calcium	300	mg/L		07/20/23 09:16	5	0.20	08/01/23 14:31	wjm	EPA 6020A
Chromium	17	ug/L		07/20/23 09:16	5	4.0	08/01/23 14:31	wjm	EPA 6020A
Cobalt	6.6	ug/L		07/20/23 09:16	5	2.0	08/01/23 14:31	wjm	EPA 6020A
Lead	6.9	ug/L		07/20/23 09:16	5	1.0	08/01/23 14:31	wjm	EPA 6020A
Magnesium	170	mg/L		07/20/23 09:16	50	1.0	08/07/23 19:11	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GG03353-04

Name: OM21

Matrix: Ground Water - Grab

Sampled: 07/19/23 15:05

Received: 07/19/23 17:12

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Mercury	< 0.20	ug/L		07/20/23 09:16	5	0.20	08/01/23 14:31	wjm	EPA 6020A
Molybdenum	3.3	ug/L		07/20/23 09:16	5	1.0	08/01/23 14:31	wjm	EPA 6020A
Potassium	11	mg/L		07/20/23 09:16	5	0.10	08/01/23 14:31	wjm	EPA 6020A
Selenium	< 1.0	ug/L		07/20/23 09:16	5	1.0	08/01/23 14:31	wjm	EPA 6020A
Sodium	280	mg/L		07/20/23 09:16	5	0.10	08/01/23 14:31	wjm	EPA 6020A
Thallium	< 1.0	ug/L		07/20/23 09:16	5	1.0	08/01/23 14:31	wjm	EPA 6020A
Lithium	0.045	mg/L		07/20/23 09:16	1	0.020	07/26/23 10:23	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG03353-05

Sampled: 07/19/23 12:42

Name: OM22D

Received: 07/19/23 17:12

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	940	mg/L		07/20/23 20:20	100	100	07/20/23 20:20	CRD	EPA 300.0 REV 2.1
Sulfate	800	mg/L		07/20/23 20:20	100	100	07/20/23 20:20	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	18.85	Feet		07/19/23 12:42	1		07/19/23 12:42	FIELD	Field*
Dissolved oxygen, Field	2.6	mg/L		07/19/23 12:42	1		07/19/23 12:42	FIELD	Field*
Oxidation Reduction Potential	2.20	mV		07/19/23 12:42	1	-500	07/19/23 12:42	FIELD	Field*
pH, Field Measured	6.68	pH Units		07/19/23 12:42	1		07/19/23 12:42	FIELD	Field*
Specific Conductance, Field Measured	3907	umhos/cm		07/19/23 12:42	1		07/19/23 12:42	FIELD	Field*
Temperature, Field Measured	18.7	°C		07/19/23 12:42	1		07/19/23 12:42	FIELD	Field*
Temperature, Field Measured	65.6	°F		07/19/23 12:42	1		07/19/23 12:42	FIELD	Field*
Turbidity, Field Measured	6540	NTU		07/19/23 12:42	1	0.00	07/19/23 12:42	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	340	mg/L		07/31/23 09:55	1	10	07/31/23 09:55	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		07/31/23 09:55	1	10	07/31/23 09:55	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		07/26/23 15:05	1	0.250	07/26/23 15:05	ANK	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	4300	mg/L		07/24/23 10:28	1	26	07/24/23 12:06	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		07/20/23 09:16	5	3.0	08/01/23 14:35	wjm	EPA 6020A
Arsenic	12	ug/L		07/20/23 09:16	5	1.0	08/01/23 14:35	wjm	EPA 6020A
Barium	280	ug/L		07/20/23 09:16	5	1.0	08/01/23 14:35	wjm	EPA 6020A
Beryllium	1.7	ug/L		07/20/23 09:16	5	1.0	07/28/23 09:34	TJJ	EPA 6020A
Boron	52000	ug/L		07/20/23 09:16	100	200	07/28/23 11:33	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		07/20/23 09:16	5	1.0	08/01/23 14:35	wjm	EPA 6020A
Calcium	490	mg/L		07/20/23 09:16	5	0.20	08/01/23 14:35	wjm	EPA 6020A
Chromium	47	ug/L		07/20/23 09:16	5	4.0	08/01/23 14:35	wjm	EPA 6020A
Cobalt	27	ug/L		07/20/23 09:16	5	2.0	08/01/23 14:35	wjm	EPA 6020A
Lead	16	ug/L		07/20/23 09:16	5	1.0	08/01/23 14:35	wjm	EPA 6020A
Magnesium	180	mg/L		07/20/23 09:16	50	1.0	08/07/23 19:15	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GG03353-05

Name: OM22D

Matrix: Ground Water - Grab

Sampled: 07/19/23 12:42

Received: 07/19/23 17:12

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Mercury	< 0.20	ug/L		07/20/23 09:16	5	0.20	08/01/23 14:35	wjm	EPA 6020A
Molybdenum	93	ug/L		07/20/23 09:16	5	1.0	08/01/23 14:35	wjm	EPA 6020A
Potassium	12	mg/L		07/20/23 09:16	5	0.10	08/01/23 14:35	wjm	EPA 6020A
Selenium	1.2	ug/L		07/20/23 09:16	5	1.0	08/01/23 14:35	wjm	EPA 6020A
Sodium	150	mg/L		07/20/23 09:16	5	0.10	08/01/23 14:35	wjm	EPA 6020A
Thallium	< 1.0	ug/L		07/20/23 09:16	5	1.0	08/01/23 14:35	wjm	EPA 6020A
Lithium	0.080	mg/L		07/20/23 09:16	1	0.020	07/26/23 10:25	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG03704-04

Sampled: 07/20/23 12:35

Name: OM01

Received: 07/20/23 17:22

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	36	mg/L		07/21/23 21:18	5	5.0	07/21/23 21:18	TMS	EPA 300.0 REV 2.1
Sulfate	2000	mg/L		07/21/23 21:37	250	250	07/21/23 21:37	TMS	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	12.08	Feet		07/20/23 12:35	1		07/20/23 12:35	JD	Field*
Dissolved oxygen, Field	1.4	mg/L		07/20/23 12:35	1		07/20/23 12:35	JD	Field*
Oxidation Reduction Potential	7.40	mV		07/20/23 12:35	1	-500	07/20/23 12:35	JD	Field*
pH, Field Measured	6.35	pH Units		07/20/23 12:35	1		07/20/23 12:35	JD	Field*
Specific Conductance, Field Measured	3520	umhos/cm		07/20/23 12:35	1		07/20/23 12:35	JD	Field*
Temperature, Field Measured	20.1	°C		07/20/23 12:35	1		07/20/23 12:35	JD	Field*
Temperature, Field Measured	68.1	°F		07/20/23 12:35	1		07/20/23 12:35	JD	Field*
Turbidity, Field Measured	89.6	NTU		07/20/23 12:35	1	0.00	07/20/23 12:35	JD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	540	mg/L		08/02/23 09:09	1	10	08/02/23 09:09	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		08/02/23 09:09	1	10	08/02/23 09:09	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		07/26/23 15:06	1	0.250	07/26/23 15:06	ANK	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	3700	mg/L		07/27/23 11:41	1	26	07/27/23 13:34	MKH	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		07/24/23 09:36	5	3.0	08/01/23 16:46	wjm	EPA 6020A
Arsenic	< 1.0	ug/L		07/24/23 09:36	5	1.0	08/01/23 16:46	wjm	EPA 6020A
Barium	19	ug/L		07/24/23 09:36	5	1.0	08/01/23 16:46	wjm	EPA 6020A
Beryllium	< 1.0	ug/L		07/24/23 09:36	5	1.0	07/28/23 11:51	TJJ	EPA 6020A
Boron	210	ug/L		07/24/23 09:36	5	10	07/28/23 11:51	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		07/24/23 09:36	5	1.0	08/01/23 16:46	wjm	EPA 6020A
Calcium	530	mg/L		07/24/23 09:36	20	0.80	08/03/23 15:54	wjm	EPA 6020A
Chromium	< 4.0	ug/L		07/24/23 09:36	5	4.0	08/01/23 16:46	wjm	EPA 6020A
Cobalt	18	ug/L		07/24/23 09:36	5	2.0	08/01/23 16:46	wjm	EPA 6020A
Lead	< 1.0	ug/L		07/24/23 09:36	5	1.0	08/01/23 16:46	wjm	EPA 6020A
Magnesium	250	mg/L		07/24/23 09:36	5	0.10	08/03/23 15:04	wjm	EPA 6020A



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ANALYTICAL RESULTS

Sample: GG03704-04

Name: OM01

Matrix: Ground Water - Grab

Sampled: 07/20/23 12:35

Received: 07/20/23 17:22

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Mercury	< 0.20	ug/L		07/24/23 09:36	5	0.20	08/01/23 16:46	wjm	EPA 6020A
Molybdenum	< 1.0	ug/L		07/24/23 09:36	5	1.0	08/01/23 16:46	wjm	EPA 6020A
Potassium	0.87	mg/L		07/24/23 09:36	5	0.10	08/01/23 16:46	wjm	EPA 6020A
Selenium	< 1.0	ug/L		07/24/23 09:36	5	1.0	08/01/23 16:46	wjm	EPA 6020A
Sodium	28	mg/L		07/24/23 09:36	5	0.10	08/01/23 16:46	wjm	EPA 6020A
Thallium	< 1.0	ug/L		07/24/23 09:36	5	1.0	08/01/23 16:46	wjm	EPA 6020A
Lithium	< 0.020	mg/L		07/24/23 09:36	1	0.020	07/26/23 10:10	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG03704-05
Name: OM01 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 07/20/23 12:35
Received: 07/20/23 17:22

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	36	mg/L		07/21/23 21:57	5	5.0	07/21/23 21:57	TMS	EPA 300.0 REV 2.1
Sulfate	2100	mg/L		07/21/23 22:16	250	250	07/21/23 22:16	TMS	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	12.08	Feet		07/20/23 12:35	1		07/20/23 12:35	JD	Field*
Dissolved oxygen, Field	1.4	mg/L		07/20/23 12:35	1		07/20/23 12:35	JD	Field*
Oxidation Reduction Potential	7.40	mV		07/20/23 12:35	1	-500	07/20/23 12:35	JD	Field*
pH, Field Measured	6.35	pH Units		07/20/23 12:35	1		07/20/23 12:35	JD	Field*
Specific Conductance, Field Measured	3520	umhos/cm		07/20/23 12:35	1		07/20/23 12:35	JD	Field*
Temperature, Field Measured	20.1	°C		07/20/23 12:35	1		07/20/23 12:35	JD	Field*
Temperature, Field Measured	68.1	°F		07/20/23 12:35	1		07/20/23 12:35	JD	Field*
Turbidity, Field Measured	89.6	NTU		07/20/23 12:35	1	0.00	07/20/23 12:35	JD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	520	mg/L		08/02/23 09:09	1	10	08/02/23 09:09	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		08/02/23 09:09	1	10	08/02/23 09:09	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		07/26/23 15:07	1	0.250	07/26/23 15:07	ANK	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	3800	mg/L		07/27/23 11:41	1	26	07/27/23 13:34	MKH	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		07/24/23 09:36	5	3.0	08/01/23 16:58	wjm	EPA 6020A
Arsenic	< 1.0	ug/L		07/24/23 09:36	5	1.0	08/01/23 16:58	wjm	EPA 6020A
Barium	20	ug/L		07/24/23 09:36	5	1.0	08/01/23 16:58	wjm	EPA 6020A
Beryllium	< 1.0	ug/L		07/24/23 09:36	5	1.0	07/28/23 12:18	TJJ	EPA 6020A
Boron	210	ug/L		07/24/23 09:36	5	10	07/28/23 12:18	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		07/24/23 09:36	5	1.0	08/01/23 16:58	wjm	EPA 6020A
Calcium	600	mg/L		07/24/23 09:36	100	4.0	08/08/23 12:38	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		07/24/23 09:36	5	4.0	08/01/23 16:58	wjm	EPA 6020A
Cobalt	19	ug/L		07/24/23 09:36	5	2.0	08/01/23 16:58	wjm	EPA 6020A
Lead	< 1.0	ug/L		07/24/23 09:36	5	1.0	08/01/23 16:58	wjm	EPA 6020A
Magnesium	230	mg/L		07/24/23 09:36	5	0.10	08/03/23 15:31	wjm	EPA 6020A



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ANALYTICAL RESULTS

Sample: GG03704-05
Name: OM01 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 07/20/23 12:35
Received: 07/20/23 17:22

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Mercury	< 0.20	ug/L		07/24/23 09:36	5	0.20	08/01/23 16:58	wjm	EPA 6020A
Molybdenum	< 1.0	ug/L		07/24/23 09:36	5	1.0	08/01/23 16:58	wjm	EPA 6020A
Potassium	0.89	mg/L		07/24/23 09:36	5	0.10	08/01/23 16:58	wjm	EPA 6020A
Selenium	< 1.0	ug/L		07/24/23 09:36	5	1.0	08/01/23 16:58	wjm	EPA 6020A
Sodium	29	mg/L		07/24/23 09:36	5	0.10	08/01/23 16:58	wjm	EPA 6020A
Thallium	< 1.0	ug/L		07/24/23 09:36	5	1.0	08/01/23 16:58	wjm	EPA 6020A
Lithium	< 0.020	mg/L		07/24/23 09:36	1	0.020	07/26/23 10:11	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG03704-06

Sampled: 07/20/23 14:00

Name: OR02

Received: 07/20/23 17:22

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	230	mg/L		07/21/23 23:53	50	50	07/21/23 23:53	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		07/21/23 23:34	1	0.250	07/21/23 23:34	TMS	EPA 300.0 REV 2.1
Sulfate	270	mg/L		07/21/23 23:53	50	50	07/21/23 23:53	TMS	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	6.19	Feet		07/20/23 14:00	1		07/20/23 14:00	JD	Field*
Dissolved oxygen, Field	1.3	mg/L		07/20/23 14:00	1		07/20/23 14:00	JD	Field*
Oxidation Reduction Potential	-34.2	mV		07/20/23 14:00	1	-500	07/20/23 14:00	JD	Field*
pH, Field Measured	6.62	pH Units		07/20/23 14:00	1		07/20/23 14:00	JD	Field*
Specific Conductance, Field Measured	1972	umhos/cm		07/20/23 14:00	1		07/20/23 14:00	JD	Field*
Temperature, Field Measured	21.8	°C		07/20/23 14:00	1		07/20/23 14:00	JD	Field*
Turbidity, Field Measured	4350	NTU		07/20/23 14:00	1	0.00	07/20/23 14:00	JD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	500	mg/L		08/02/23 09:09	1	10	08/02/23 09:09	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		08/02/23 09:09	1	10	08/02/23 09:09	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1400	mg/L		07/27/23 11:41	1	26	07/27/23 13:34	MKH	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		07/24/23 09:36	5	3.0	08/01/23 17:02	wjm	EPA 6020A
Arsenic	23	ug/L		07/24/23 09:36	5	1.0	08/01/23 17:02	wjm	EPA 6020A
Barium	90	ug/L		07/24/23 09:36	5	1.0	08/01/23 17:02	wjm	EPA 6020A
Beryllium	< 2.0	ug/L		07/24/23 09:36	10	2.0	07/28/23 12:20	TJJ	EPA 6020A
Boron	4900	ug/L		07/24/23 09:36	10	20	07/28/23 12:20	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		07/24/23 09:36	5	1.0	08/01/23 17:02	wjm	EPA 6020A
Calcium	110	mg/L		07/24/23 09:36	5	0.20	08/01/23 17:02	wjm	EPA 6020A
Chromium	16	ug/L		07/24/23 09:36	5	4.0	08/01/23 17:02	wjm	EPA 6020A
Cobalt	10	ug/L		07/24/23 09:36	5	2.0	08/01/23 17:02	wjm	EPA 6020A
Lead	18	ug/L		07/24/23 09:36	5	1.0	08/01/23 17:02	wjm	EPA 6020A
Magnesium	82	mg/L		07/24/23 09:36	5	0.10	08/03/23 15:34	wjm	EPA 6020A
Mercury	< 0.20	ug/L		07/24/23 09:36	5	0.20	08/01/23 17:02	wjm	EPA 6020A



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ANALYTICAL RESULTS

Sample: GG03704-06

Name: OR02

Matrix: Ground Water - Grab

Sampled: 07/20/23 14:00

Received: 07/20/23 17:22

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Molybdenum	5.7	ug/L		07/24/23 09:36	5	1.0	08/01/23 17:02	wjm	EPA 6020A
Potassium	2.0	mg/L		07/24/23 09:36	5	0.10	08/01/23 17:02	wjm	EPA 6020A
Selenium	1.5	ug/L		07/24/23 09:36	5	1.0	08/01/23 17:02	wjm	EPA 6020A
Sodium	50	mg/L		07/24/23 09:36	5	0.10	08/01/23 17:02	wjm	EPA 6020A
Thallium	< 1.0	ug/L		07/24/23 09:36	5	1.0	08/01/23 17:02	wjm	EPA 6020A
Lithium	< 0.020	mg/L		07/24/23 09:36	1	0.020	07/26/23 10:12	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG04129-01

Sampled: 07/24/23 11:10

Name: OR20

Received: 07/24/23 17:42

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	330	mg/L	Q4	07/25/23 11:05	100	100	07/25/23 11:05	TMS	EPA 300.0 REV 2.1
Sulfate	390	mg/L	Q4	07/25/23 11:05	100	100	07/25/23 11:05	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	21.95	Feet		07/24/23 11:10	1		07/24/23 11:10	JD	Field*
Dissolved oxygen, Field	0.34	mg/L		07/24/23 11:10	1		07/24/23 11:10	JD	Field*
Oxidation Reduction Potential	-42.2	mV		07/24/23 11:10	1	-500	07/24/23 11:10	JD	Field*
pH, Field Measured	6.85	pH Units		07/24/23 11:10	1		07/24/23 11:10	JD	Field*
Specific Conductance, Field Measured	2509	umhos/cm		07/24/23 11:10	1		07/24/23 11:10	JD	Field*
Temperature, Field Measured	64.6	°F		07/24/23 11:10	1		07/24/23 11:10	JD	Field*
Temperature, Field Measured	18.1	°C		07/24/23 11:10	1		07/24/23 11:10	JD	Field*
Turbidity, Field Measured	4250	NTU		07/24/23 11:10	1	0.00	07/24/23 11:10	JD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	520	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Fluoride	0.511	mg/L		07/27/23 13:00	1	0.250	07/27/23 13:00	ANK	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1800	mg/L		07/28/23 10:45	1	26	07/28/23 14:16	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		07/26/23 08:54	5	3.0	08/01/23 11:54	wjm	EPA 6020A
Arsenic	8.0	ug/L		07/26/23 08:54	5	1.0	08/01/23 11:54	wjm	EPA 6020A
Barium	31	ug/L		07/26/23 08:54	5	1.0	08/01/23 11:54	wjm	EPA 6020A
Beryllium	< 1.0	ug/L		07/26/23 08:54	5	1.0	07/28/23 13:25	TJJ	EPA 6020A
Boron	23000	ug/L	Q4	07/26/23 08:54	100	200	07/28/23 15:32	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		07/26/23 08:54	5	1.0	08/01/23 11:54	wjm	EPA 6020A
Calcium	210	mg/L	Q4	07/26/23 08:54	5	0.20	08/01/23 11:54	wjm	EPA 6020A
Chromium	< 4.0	ug/L		07/26/23 08:54	5	4.0	08/01/23 11:54	wjm	EPA 6020A
Cobalt	< 2.0	ug/L		07/26/23 08:54	5	2.0	08/01/23 11:54	wjm	EPA 6020A
Lead	2.4	ug/L		07/26/23 08:54	5	1.0	08/01/23 11:54	wjm	EPA 6020A
Magnesium	99	mg/L	Q4	07/26/23 08:54	5	0.10	08/01/23 11:54	wjm	EPA 6020A



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ANALYTICAL RESULTS

Sample: GG04129-01

Name: OR20

Matrix: Ground Water - Grab

Sampled: 07/24/23 11:10

Received: 07/24/23 17:42

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Mercury	< 0.20	ug/L		07/26/23 08:54	5	0.20	08/01/23 11:54	wjm	EPA 6020A
Molybdenum	33	ug/L		07/26/23 08:54	5	1.0	08/01/23 11:54	wjm	EPA 6020A
Potassium	7.7	mg/L		07/26/23 08:54	5	0.10	08/01/23 11:54	wjm	EPA 6020A
Selenium	< 1.0	ug/L		07/26/23 08:54	5	1.0	08/01/23 11:54	wjm	EPA 6020A
Sodium	170	mg/L	Q4	07/26/23 08:54	5	0.10	08/01/23 11:54	wjm	EPA 6020A
Thallium	< 1.0	ug/L		07/26/23 08:54	5	1.0	08/01/23 11:54	wjm	EPA 6020A
Lithium	0.035	mg/L		07/26/23 08:54	1	0.020	08/02/23 09:45	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG04129-02

Sampled: 07/24/23 12:45

Name: OM16

Received: 07/24/23 17:42

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	10	mg/L		07/25/23 11:43	10	10	07/25/23 11:43	TMS	EPA 300.0 REV 2.1
Sulfate	2300	mg/L		07/25/23 12:03	500	500	07/25/23 12:03	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	24.5	Feet		07/24/23 12:45	1		07/24/23 12:45	JD	Field*
Dissolved oxygen, Field	0.45	mg/L		07/24/23 12:45	1		07/24/23 12:45	JD	Field*
Oxidation Reduction Potential	0.500	mV		07/24/23 12:45	1	-500	07/24/23 12:45	JD	Field*
pH, Field Measured	6.50	pH Units		07/24/23 12:45	1		07/24/23 12:45	JD	Field*
Specific Conductance, Field Measured	3986	umhos/cm		07/24/23 12:45	1		07/24/23 12:45	JD	Field*
Temperature, Field Measured	17.9	°C		07/24/23 12:45	1		07/24/23 12:45	JD	Field*
Temperature, Field Measured	64.2	°F		07/24/23 12:45	1		07/24/23 12:45	JD	Field*
Turbidity, Field Measured	1090	NTU		07/24/23 12:45	1	0.00	07/24/23 12:45	JD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	750	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		07/27/23 13:01	1	0.250	07/27/23 13:01	ANK	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	4200	mg/L		07/28/23 10:45	1	26	07/28/23 14:16	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		07/26/23 08:54	5	3.0	08/01/23 13:44	wjm	EPA 6020A
Arsenic	1.4	ug/L		07/26/23 08:54	5	1.0	08/01/23 13:44	wjm	EPA 6020A
Barium	16	ug/L		07/26/23 08:54	5	1.0	08/01/23 13:44	wjm	EPA 6020A
Beryllium	< 1.0	ug/L		07/26/23 08:54	5	1.0	07/28/23 13:34	TJJ	EPA 6020A
Boron	55	ug/L		07/26/23 08:54	5	10	07/28/23 15:26	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		07/26/23 08:54	5	1.0	08/01/23 13:44	wjm	EPA 6020A
Calcium	480	mg/L		07/26/23 08:54	5	0.20	08/01/23 13:44	wjm	EPA 6020A
Chromium	< 4.0	ug/L		07/26/23 08:54	5	4.0	08/01/23 13:44	wjm	EPA 6020A
Cobalt	2.7	ug/L		07/26/23 08:54	5	2.0	08/01/23 13:44	wjm	EPA 6020A
Lead	< 1.0	ug/L		07/26/23 08:54	5	1.0	08/01/23 13:44	wjm	EPA 6020A
Magnesium	340	mg/L		07/26/23 08:54	5	0.10	08/01/23 13:44	wjm	EPA 6020A



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ANALYTICAL RESULTS

Sample: GG04129-02

Name: OM16

Matrix: Ground Water - Grab

Sampled: 07/24/23 12:45

Received: 07/24/23 17:42

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Mercury	< 0.20	ug/L		07/26/23 08:54	5	0.20	08/01/23 13:44	wjm	EPA 6020A
Molybdenum	< 1.0	ug/L		07/26/23 08:54	5	1.0	08/01/23 13:44	wjm	EPA 6020A
Potassium	1.3	mg/L		07/26/23 08:54	5	0.10	08/01/23 13:44	wjm	EPA 6020A
Selenium	< 1.0	ug/L		07/26/23 08:54	5	1.0	08/01/23 13:44	wjm	EPA 6020A
Sodium	21	mg/L		07/26/23 08:54	5	0.10	08/01/23 13:44	wjm	EPA 6020A
Thallium	< 1.0	ug/L		07/26/23 08:54	5	1.0	08/01/23 13:44	wjm	EPA 6020A
Lithium	0.031	mg/L		07/26/23 08:54	1	0.020	08/02/23 09:48	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG04129-03

Sampled: 07/24/23 15:31

Name: OR14D

Received: 07/24/23 17:42

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	240	mg/L		07/25/23 12:41	100	100	07/25/23 12:41	TMS	EPA 300.0 REV 2.1
Sulfate	890	mg/L		07/25/23 12:41	100	100	07/25/23 12:41	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	10.52	Feet		07/24/23 15:31	1		07/24/23 15:31	JD	Field*
Dissolved oxygen, Field	0.35	mg/L		07/24/23 15:31	1		07/24/23 15:31	JD	Field*
Oxidation Reduction Potential	-96.3	mV		07/24/23 15:31	1	-500	07/24/23 15:31	JD	Field*
pH, Field Measured	6.72	pH Units		07/24/23 15:31	1		07/24/23 15:31	JD	Field*
Specific Conductance, Field Measured	2624	umhos/cm		07/24/23 15:31	1		07/24/23 15:31	JD	Field*
Temperature, Field Measured	66.9	°F		07/24/23 15:31	1		07/24/23 15:31	JD	Field*
Temperature, Field Measured	19.4	°C		07/24/23 15:31	1		07/24/23 15:31	JD	Field*
Turbidity, Field Measured	2920	NTU		07/24/23 15:31	1	0.00	07/24/23 15:31	JD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	500	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Fluoride	0.252	mg/L		07/27/23 13:02	1	0.250	07/27/23 13:02	ANK	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	2300	mg/L		07/28/23 10:45	1	26	07/28/23 14:16	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		07/26/23 08:54	5	3.0	08/01/23 12:10	wjm	EPA 6020A
Arsenic	6.2	ug/L		07/26/23 08:54	5	1.0	08/01/23 12:10	wjm	EPA 6020A
Barium	46	ug/L		07/26/23 08:54	5	1.0	08/01/23 12:10	wjm	EPA 6020A
Beryllium	< 1.0	ug/L		07/26/23 08:54	5	1.0	07/28/23 13:37	TJJ	EPA 6020A
Boron	12000	ug/L		07/26/23 08:54	100	200	07/28/23 15:40	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		07/26/23 08:54	5	1.0	08/01/23 12:10	wjm	EPA 6020A
Calcium	370	mg/L		07/26/23 08:54	5	0.20	08/01/23 12:10	wjm	EPA 6020A
Chromium	7.2	ug/L		07/26/23 08:54	5	4.0	08/01/23 12:10	wjm	EPA 6020A
Cobalt	4.6	ug/L		07/26/23 08:54	5	2.0	08/01/23 12:10	wjm	EPA 6020A
Lead	4.7	ug/L		07/26/23 08:54	5	1.0	08/01/23 12:10	wjm	EPA 6020A
Magnesium	130	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:10	wjm	EPA 6020A



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ANALYTICAL RESULTS

Sample: GG04129-03

Name: OR14D

Matrix: Ground Water - Grab

Sampled: 07/24/23 15:31

Received: 07/24/23 17:42

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Mercury	0.22	ug/L		07/26/23 08:54	5	0.20	08/01/23 12:10	wjm	EPA 6020A
Molybdenum	7.2	ug/L		07/26/23 08:54	5	1.0	08/01/23 12:10	wjm	EPA 6020A
Potassium	5.0	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:10	wjm	EPA 6020A
Selenium	< 1.0	ug/L		07/26/23 08:54	5	1.0	08/01/23 12:10	wjm	EPA 6020A
Sodium	47	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:10	wjm	EPA 6020A
Thallium	< 1.0	ug/L		07/26/23 08:54	5	1.0	08/01/23 12:10	wjm	EPA 6020A
Lithium	0.031	mg/L		07/26/23 08:54	1	0.020	08/02/23 09:49	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG04129-10

Sampled: 07/24/23 15:34

Name: BA06

Received: 07/24/23 17:42

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	560	mg/L		07/25/23 13:59	100	100	07/25/23 13:59	TMS	EPA 300.0 REV 2.1
Sulfate	360	mg/L		07/25/23 13:59	100	100	07/25/23 13:59	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	25.04	Feet		07/24/23 15:34	1		07/24/23 15:34	JD	Field*
Dissolved oxygen, Field	2.5	mg/L		07/24/23 15:34	1		07/24/23 15:34	JD	Field*
Oxidation Reduction Potential	-40.0	mV		07/24/23 15:34	1	-500	07/24/23 15:34	JD	Field*
pH, Field Measured	6.54	pH Units		07/24/23 15:34	1		07/24/23 15:34	JD	Field*
Specific Conductance, Field Measured	3140	umhos/cm		07/24/23 15:34	1		07/24/23 15:34	JD	Field*
Temperature, Field Measured	65.7	°F		07/24/23 15:34	1		07/24/23 15:34	JD	Field*
Temperature, Field Measured	18.7	°C		07/24/23 15:34	1		07/24/23 15:34	JD	Field*
Turbidity, Field Measured	5.30	NTU		07/24/23 15:34	1	0.00	07/24/23 15:34	JD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	560	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Fluoride	0.264	mg/L		07/27/23 13:03	1	0.250	07/27/23 13:03	ANK	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	2300	mg/L		07/28/23 10:45	1	26	07/28/23 14:16	MKH	SM 2540C
Soluble Nutrients - PIA									
Ammonia, Dissolved	< 0.10	mg/L		08/08/23 18:07	1	0.10	08/08/23 18:07	TTH	EPA 350.1 REV2
Total Metals - PIA									
Antimony	< 3.0	ug/L		07/26/23 08:54	5	3.0	08/01/23 12:42	wjm	EPA 6020A
Arsenic	4.2	ug/L		07/26/23 08:54	5	1.0	08/01/23 12:42	wjm	EPA 6020A
Barium	93	ug/L		07/26/23 08:54	5	1.0	08/01/23 12:42	wjm	EPA 6020A
Beryllium	< 1.0	ug/L		07/26/23 08:54	5	1.0	07/28/23 14:42	TJJ	EPA 6020A
Boron	9000	ug/L		07/26/23 08:54	5	10	07/28/23 14:42	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		07/26/23 08:54	5	1.0	08/01/23 12:42	wjm	EPA 6020A
Calcium	280	mg/L		07/26/23 08:54	5	0.20	08/01/23 12:42	wjm	EPA 6020A
Chromium	< 4.0	ug/L		07/26/23 08:54	5	4.0	08/01/23 12:42	wjm	EPA 6020A
Cobalt	9.7	ug/L		07/26/23 08:54	5	2.0	08/01/23 12:42	wjm	EPA 6020A



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ANALYTICAL RESULTS

Sample: GG04129-10

Name: BA06

Matrix: Ground Water - Grab

Sampled: 07/24/23 15:34

Received: 07/24/23 17:42

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lead	< 1.0	ug/L		07/26/23 08:54	5	1.0	08/01/23 12:42	wjm	EPA 6020A
Magnesium	210	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:42	wjm	EPA 6020A
Mercury	< 0.20	ug/L		07/26/23 08:54	5	0.20	08/01/23 12:42	wjm	EPA 6020A
Molybdenum	1.2	ug/L		07/26/23 08:54	5	1.0	08/01/23 12:42	wjm	EPA 6020A
Potassium	0.28	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:42	wjm	EPA 6020A
Selenium	< 1.0	ug/L		07/26/23 08:54	5	1.0	08/01/23 12:42	wjm	EPA 6020A
Sodium	16	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:42	wjm	EPA 6020A
Thallium	< 1.0	ug/L		07/26/23 08:54	5	1.0	08/01/23 12:42	wjm	EPA 6020A
Lithium	< 0.020	mg/L		07/26/23 08:54	1	0.020	08/02/23 09:51	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG04417-01

Sampled: 07/25/23 15:15

Name: OM17

Received: 07/25/23 17:45

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	2.8	mg/L		07/26/23 10:40	1	1.0	07/26/23 10:40	TMS	EPA 300.0 REV 2.1
Sulfate	350	mg/L	Q4	07/26/23 11:38	50	50	07/26/23 11:38	TMS	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	13.66	Feet		07/25/23 15:15	1		07/25/23 15:15	FIELD	Field*
Dissolved oxygen, Field	0.49	mg/L		07/25/23 15:15	1		07/25/23 15:15	FIELD	Field*
Oxidation Reduction Potential	-28.8	mV		07/25/23 15:15	1	-500	07/25/23 15:15	FIELD	Field*
pH, Field Measured	6.76	pH Units		07/25/23 15:15	1		07/25/23 15:15	FIELD	Field*
Specific Conductance, Field Measured	1092	umhos/cm		07/25/23 15:15	1		07/25/23 15:15	FIELD	Field*
Temperature, Field Measured	67.0	°F		07/25/23 15:15	1		07/25/23 15:15	FIELD	Field*
Temperature, Field Measured	19.4	°C		07/25/23 15:15	1		07/25/23 15:15	FIELD	Field*
Turbidity, Field Measured	1840	NTU		07/25/23 15:15	1	0.00	07/25/23 15:15	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	360	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		07/27/23 15:11	1	0.250	07/27/23 15:11	ANK	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	960	mg/L		08/01/23 09:40	1	26	08/01/23 11:00	MKH	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L	Q3	07/27/23 09:21	5	3.0	08/07/23 16:13	TJJ	EPA 6020A
Arsenic	34	ug/L		07/27/23 09:21	50	10	08/11/23 09:48	TJJ	EPA 6020A
Barium	1300	ug/L		07/27/23 09:21	5	1.0	08/07/23 16:13	TJJ	EPA 6020A
Beryllium	16	ug/L		07/27/23 09:21	5	1.0	08/08/23 16:45	TJJ	EPA 6020A
Boron	470	ug/L	Q3	07/27/23 09:21	100	200	08/09/23 15:44	TJJ	EPA 6020A
Cadmium	9.2	ug/L		07/27/23 09:21	5	1.0	08/07/23 16:13	TJJ	EPA 6020A
Calcium	290	mg/L	Q4	07/27/23 09:21	5	0.20	08/08/23 16:45	TJJ	EPA 6020A
Chromium	440	ug/L		07/27/23 09:21	5	4.0	08/07/23 16:13	TJJ	EPA 6020A
Cobalt	240	ug/L		07/27/23 09:21	5	2.0	08/07/23 16:13	TJJ	EPA 6020A
Lead	320	ug/L		07/27/23 09:21	5	1.0	08/07/23 16:13	TJJ	EPA 6020A
Magnesium	180	mg/L	Q4	07/27/23 09:21	5	0.10	08/08/23 16:45	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GG04417-01

Name: OM17

Matrix: Ground Water - Grab

Sampled: 07/25/23 15:15

Received: 07/25/23 17:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Mercury	0.83	ug/L		07/27/23 09:21	5	0.20	08/07/23 16:13	TJJ	EPA 6020A
Molybdenum	6.3	ug/L	Q3	07/27/23 09:21	5	1.0	08/08/23 16:45	TJJ	EPA 6020A
Potassium	24	mg/L		07/27/23 09:21	5	0.10	08/07/23 16:13	TJJ	EPA 6020A
Selenium	14	ug/L	Q3	07/27/23 09:21	5	1.0	08/08/23 16:45	TJJ	EPA 6020A
Sodium	5.6	mg/L		07/27/23 09:21	5	0.10	08/08/23 16:45	TJJ	EPA 6020A
Thallium	3.4	ug/L		07/27/23 09:21	5	1.0	08/07/23 16:13	TJJ	EPA 6020A
Lithium	0.40	mg/L	F	07/27/23 09:21	1	0.020	08/02/23 10:48	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG04417-02
Name: OM04S
Matrix: Ground Water - Grab

Sampled: 07/25/23 14:24
Received: 07/25/23 17:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	16	mg/L		07/26/23 12:17	5	5.0	07/26/23 12:17	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		07/26/23 11:57	1	0.250	07/26/23 11:57	TMS	EPA 300.0 REV 2.1
Sulfate	150	mg/L		07/26/23 12:36	25	25	07/26/23 12:36	TMS	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	20	Feet		07/25/23 14:24	1		07/25/23 14:24	FIELD	Field*
Dissolved oxygen, Field	0.96	mg/L		07/25/23 14:24	1		07/25/23 14:24	FIELD	Field*
Oxidation Reduction Potential	-1.90	mV		07/25/23 14:24	1	-500	07/25/23 14:24	FIELD	Field*
pH, Field Measured	6.74	pH Units		07/25/23 14:24	1		07/25/23 14:24	FIELD	Field*
Specific Conductance, Field Measured	1208	umhos/cm		07/25/23 14:24	1		07/25/23 14:24	FIELD	Field*
Temperature, Field Measured	21.2	°C		07/25/23 14:24	1		07/25/23 14:24	FIELD	Field*
Temperature, Field Measured	70.2	°F		07/25/23 14:24	1		07/25/23 14:24	FIELD	Field*
Turbidity, Field Measured	122	NTU		07/25/23 14:24	1	0.00	07/25/23 14:24	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	540	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	740	mg/L		08/01/23 09:40	1	26	08/01/23 11:00	MKH	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		07/27/23 09:21	5	3.0	08/07/23 16:25	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		07/27/23 09:21	5	1.0	08/08/23 16:57	TJJ	EPA 6020A
Barium	51	ug/L		07/27/23 09:21	5	1.0	08/07/23 16:25	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		07/27/23 09:21	5	1.0	08/08/23 16:57	TJJ	EPA 6020A
Boron	64	ug/L		07/27/23 09:21	5	10	08/09/23 16:35	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		07/27/23 09:21	5	1.0	08/07/23 16:25	TJJ	EPA 6020A
Calcium	150	mg/L		07/27/23 09:21	5	0.20	08/08/23 16:57	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		07/27/23 09:21	5	4.0	08/07/23 16:25	TJJ	EPA 6020A
Cobalt	8.9	ug/L		07/27/23 09:21	5	2.0	08/07/23 16:25	TJJ	EPA 6020A
Lead	< 1.0	ug/L		07/27/23 09:21	5	1.0	08/07/23 16:25	TJJ	EPA 6020A
Magnesium	75	mg/L		07/27/23 09:21	5	0.10	08/07/23 16:25	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GG04417-02

Name: OM04S

Matrix: Ground Water - Grab

Sampled: 07/25/23 14:24

Received: 07/25/23 17:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Mercury	0.22	ug/L		07/27/23 09:21	5	0.20	08/07/23 16:25	TJJ	EPA 6020A
Molybdenum	1.3	ug/L		07/27/23 09:21	5	1.0	08/08/23 16:57	TJJ	EPA 6020A
Potassium	0.95	mg/L		07/27/23 09:21	5	0.10	08/07/23 16:25	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		07/27/23 09:21	5	1.0	08/07/23 16:25	TJJ	EPA 6020A
Sodium	14	mg/L		07/27/23 09:21	5	0.10	08/08/23 16:57	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		07/27/23 09:21	5	1.0	08/07/23 16:25	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		07/27/23 09:21	1	0.020	08/02/23 10:51	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG04417-03

Sampled: 07/25/23 12:01

Name: OR04D

Received: 07/25/23 17:45

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	1100	mg/L		07/26/23 13:15	250	250	07/26/23 13:15	TMS	EPA 300.0 REV 2.1
Sulfate	1200	mg/L		07/26/23 13:15	250	250	07/26/23 13:15	TMS	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	21.21	Feet		07/25/23 12:01	1		07/25/23 12:01	FIELD	Field*
Dissolved oxygen, Field	0.43	mg/L		07/25/23 12:01	1		07/25/23 12:01	FIELD	Field*
Oxidation Reduction Potential	-30.2	mV		07/25/23 12:01	1	-500	07/25/23 12:01	FIELD	Field*
pH, Field Measured	6.73	pH Units		07/25/23 12:01	1		07/25/23 12:01	FIELD	Field*
Specific Conductance, Field Measured	5280	umhos/cm		07/25/23 12:01	1		07/25/23 12:01	FIELD	Field*
Temperature, Field Measured	21.3	°C		07/25/23 12:01	1		07/25/23 12:01	FIELD	Field*
Temperature, Field Measured	70.3	°F		07/25/23 12:01	1		07/25/23 12:01	FIELD	Field*
Turbidity, Field Measured	2150	NTU		07/25/23 12:01	1	0.00	07/25/23 12:01	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	490	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		07/27/23 15:12	1	0.250	07/27/23 15:12	ANK	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	4700	mg/L		08/01/23 09:40	1	26	08/01/23 11:00	MKH	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		07/27/23 09:21	5	3.0	08/07/23 16:29	TJJ	EPA 6020A
Arsenic	3.3	ug/L		07/27/23 09:21	5	1.0	08/08/23 17:01	TJJ	EPA 6020A
Barium	29	ug/L		07/27/23 09:21	5	1.0	08/07/23 16:29	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		07/27/23 09:21	5	1.0	08/08/23 17:01	TJJ	EPA 6020A
Boron	71000	ug/L		07/27/23 09:21	100	200	08/09/23 15:55	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		07/27/23 09:21	5	1.0	08/07/23 16:29	TJJ	EPA 6020A
Calcium	650	mg/L		07/27/23 09:21	100	4.0	08/10/23 10:49	TJJ	EPA 6020A
Chromium	5.5	ug/L		07/27/23 09:21	5	4.0	08/07/23 16:29	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		07/27/23 09:21	5	2.0	08/07/23 16:29	TJJ	EPA 6020A
Lead	1.1	ug/L		07/27/23 09:21	5	1.0	08/07/23 16:29	TJJ	EPA 6020A
Magnesium	260	mg/L		07/27/23 09:21	5	0.10	08/08/23 17:01	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GG04417-03

Name: OR04D

Matrix: Ground Water - Grab

Sampled: 07/25/23 12:01

Received: 07/25/23 17:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Mercury	< 0.20	ug/L		07/27/23 09:21	5	0.20	08/07/23 16:29	TJJ	EPA 6020A
Molybdenum	3.9	ug/L		07/27/23 09:21	5	1.0	08/08/23 17:01	TJJ	EPA 6020A
Potassium	13	mg/L		07/27/23 09:21	5	0.10	08/07/23 16:29	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		07/27/23 09:21	5	1.0	08/07/23 16:29	TJJ	EPA 6020A
Sodium	200	mg/L		07/27/23 09:21	5	0.10	08/08/23 17:01	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		07/27/23 09:21	5	1.0	08/07/23 16:29	TJJ	EPA 6020A
Lithium	0.058	mg/L		07/27/23 09:21	1	0.020	08/02/23 10:53	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG04630-01

Sampled: 07/26/23 13:15

Name: OR13D

Received: 07/26/23 15:29

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Field - PIA</u>									
Depth, From Measuring Point	13.35	Feet		07/26/23 13:15	1		07/26/23 13:15	FIELD	Field*
Dissolved oxygen, Field	0.49	mg/L		07/26/23 13:15	1		07/26/23 13:15	FIELD	Field*
Oxidation Reduction Potential	-69.0	mV		07/26/23 13:15	1	-500	07/26/23 13:15	FIELD	Field*
pH, Field Measured	6.65	pH Units		07/26/23 13:15	1		07/26/23 13:15	FIELD	Field*
Specific Conductance, Field Measured	1850	umhos/cm		07/26/23 13:15	1		07/26/23 13:15	FIELD	Field*
Temperature, Field Measured	24.8	°C		07/26/23 13:15	1		07/26/23 13:15	FIELD	Field*
Temperature, Field Measured	76.7	°F		07/26/23 13:15	1		07/26/23 13:15	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		07/26/23 13:15	1	0.00	07/26/23 13:15	FIELD	Field*
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		07/31/23 09:19	5	3.0	08/07/23 17:19	TJJ	EPA 6020A
Arsenic	8.3	ug/L		07/31/23 09:19	5	1.0	08/08/23 17:47	TJJ	EPA 6020A
Barium	33	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:19	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/08/23 17:47	TJJ	EPA 6020A
Boron	1800	ug/L		07/31/23 09:19	20	40	08/10/23 09:33	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:19	TJJ	EPA 6020A
Calcium	120	mg/L	Q4	07/31/23 09:19	5	0.20	08/08/23 17:47	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		07/31/23 09:19	5	4.0	08/07/23 17:19	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		07/31/23 09:19	5	2.0	08/07/23 17:19	TJJ	EPA 6020A
Lead	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:19	TJJ	EPA 6020A
Magnesium	61	mg/L		07/31/23 09:19	5	0.10	08/07/23 17:19	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		07/31/23 09:19	5	0.20	08/07/23 17:19	TJJ	EPA 6020A
Molybdenum	7.4	ug/L		07/31/23 09:19	5	1.0	08/08/23 17:47	TJJ	EPA 6020A
Potassium	5.2	mg/L		07/31/23 09:19	5	0.10	08/07/23 17:19	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:19	TJJ	EPA 6020A
Sodium	270	mg/L	Q4	07/31/23 09:19	5	0.10	08/08/23 17:47	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:19	TJJ	EPA 6020A
Lithium	0.026	mg/L		07/31/23 09:19	1	0.020	08/02/23 11:03	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG04630-02

Sampled: 07/26/23 13:15

Name: OR13D DUP

Received: 07/26/23 15:29

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Field - PIA</u>									
Depth, From Measuring Point	13.35	Feet		07/26/23 13:15	1		07/26/23 13:15	FIELD	Field*
Dissolved oxygen, Field	0.49	mg/L		07/26/23 13:15	1		07/26/23 13:15	FIELD	Field*
Oxidation Reduction Potential	-69.0	mV		07/26/23 13:15	1	-500	07/26/23 13:15	FIELD	Field*
pH, Field Measured	6.65	pH Units		07/26/23 13:15	1		07/26/23 13:15	FIELD	Field*
Specific Conductance, Field Measured	1850	umhos/cm		07/26/23 13:15	1		07/26/23 13:15	FIELD	Field*
Temperature, Field Measured	24.8	°C		07/26/23 13:15	1		07/26/23 13:15	FIELD	Field*
Temperature, Field Measured	76.7	°F		07/26/23 13:15	1		07/26/23 13:15	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		07/26/23 13:15	1	0.00	07/26/23 13:15	FIELD	Field*
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		07/31/23 09:19	5	3.0	08/11/23 17:41	TJJ	EPA 6020A
Arsenic	9.1	ug/L		07/31/23 09:19	5	1.0	08/08/23 18:11	TJJ	EPA 6020A
Barium	32	ug/L		07/31/23 09:19	5	1.0	08/08/23 18:11	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/08/23 18:11	TJJ	EPA 6020A
Boron	1800	ug/L		07/31/23 09:19	20	40	08/10/23 09:44	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:38	TJJ	EPA 6020A
Calcium	120	mg/L		07/31/23 09:19	5	0.20	08/08/23 18:11	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		07/31/23 09:19	5	4.0	08/07/23 17:38	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		07/31/23 09:19	5	2.0	08/07/23 17:38	TJJ	EPA 6020A
Lead	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/08/23 18:11	TJJ	EPA 6020A
Magnesium	62	mg/L		07/31/23 09:19	5	0.10	08/07/23 17:38	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		07/31/23 09:19	5	0.20	08/08/23 18:11	TJJ	EPA 6020A
Molybdenum	7.7	ug/L		07/31/23 09:19	5	1.0	08/08/23 18:11	TJJ	EPA 6020A
Potassium	5.3	mg/L		07/31/23 09:19	5	0.10	08/07/23 17:38	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:38	TJJ	EPA 6020A
Sodium	260	mg/L		07/31/23 09:19	5	0.10	08/08/23 18:11	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/08/23 18:11	TJJ	EPA 6020A
Lithium	0.027	mg/L		07/31/23 09:19	1	0.020	08/02/23 11:07	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG04630-03

Sampled: 07/26/23 11:42

Name: OR13S

Received: 07/26/23 15:29

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Field - PIA</u>									
Depth, From Measuring Point	13.52	Feet		07/26/23 11:42	1		07/26/23 11:42	FIELD	Field*
Dissolved oxygen, Field	2.1	mg/L		07/26/23 11:42	1		07/26/23 11:42	FIELD	Field*
Oxidation Reduction Potential	-33.0	mV		07/26/23 11:42	1	-500	07/26/23 11:42	FIELD	Field*
pH, Field Measured	6.48	pH Units		07/26/23 11:42	1		07/26/23 11:42	FIELD	Field*
Specific Conductance, Field Measured	2110	umhos/cm		07/26/23 11:42	1		07/26/23 11:42	FIELD	Field*
Temperature, Field Measured	21.0	°C		07/26/23 11:42	1		07/26/23 11:42	FIELD	Field*
Temperature, Field Measured	69.8	°F		07/26/23 11:42	1		07/26/23 11:42	FIELD	Field*
Turbidity, Field Measured	530	NTU		07/26/23 11:42	1	0.00	07/26/23 11:42	FIELD	Field*
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		07/31/23 09:19	5	3.0	08/07/23 17:42	TJJ	EPA 6020A
Arsenic	16	ug/L		07/31/23 09:19	5	1.0	08/08/23 18:15	TJJ	EPA 6020A
Barium	26	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:42	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/08/23 18:15	TJJ	EPA 6020A
Boron	3100	ug/L		07/31/23 09:19	20	40	08/10/23 09:48	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:42	TJJ	EPA 6020A
Calcium	290	mg/L		07/31/23 09:19	5	0.20	08/08/23 18:15	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		07/31/23 09:19	5	4.0	08/07/23 17:42	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		07/31/23 09:19	5	2.0	08/07/23 17:42	TJJ	EPA 6020A
Lead	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:42	TJJ	EPA 6020A
Magnesium	130	mg/L		07/31/23 09:19	5	0.10	08/08/23 18:15	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		07/31/23 09:19	5	0.20	08/07/23 17:42	TJJ	EPA 6020A
Molybdenum	7.2	ug/L		07/31/23 09:19	5	1.0	08/08/23 18:15	TJJ	EPA 6020A
Potassium	3.8	mg/L		07/31/23 09:19	5	0.10	08/07/23 17:42	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:42	TJJ	EPA 6020A
Sodium	74	mg/L		07/31/23 09:19	5	0.10	08/08/23 18:15	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:42	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		07/31/23 09:19	1	0.020	08/02/23 11:08	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG04630-04

Sampled: 07/26/23 10:10

Name: OR11

Received: 07/26/23 15:29

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Field - PIA</u>									
Depth, From Measuring Point	31.84	Feet		07/26/23 10:10	1		07/26/23 10:10	FIELD	Field*
Dissolved oxygen, Field	2.9	mg/L		07/26/23 10:10	1		07/26/23 10:10	FIELD	Field*
Oxidation Reduction Potential	2.80	mV		07/26/23 10:10	1	-500	07/26/23 10:10	FIELD	Field*
pH, Field Measured	7.02	pH Units		07/26/23 10:10	1		07/26/23 10:10	FIELD	Field*
Specific Conductance, Field Measured	1214	umhos/cm		07/26/23 10:10	1		07/26/23 10:10	FIELD	Field*
Temperature, Field Measured	15.2	°C		07/26/23 10:10	1		07/26/23 10:10	FIELD	Field*
Temperature, Field Measured	59.4	°F		07/26/23 10:10	1		07/26/23 10:10	FIELD	Field*
Turbidity, Field Measured	534	NTU		07/26/23 10:10	1	0.00	07/26/23 10:10	FIELD	Field*
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		07/31/23 09:19	5	3.0	08/07/23 17:46	TJJ	EPA 6020A
Arsenic	5.5	ug/L		07/31/23 09:19	5	1.0	08/08/23 18:19	TJJ	EPA 6020A
Barium	100	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:46	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/08/23 18:19	TJJ	EPA 6020A
Boron	9800	ug/L		07/31/23 09:19	20	40	08/10/23 09:52	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:46	TJJ	EPA 6020A
Calcium	160	mg/L		07/31/23 09:19	5	0.20	08/08/23 18:19	TJJ	EPA 6020A
Chromium	5.9	ug/L		07/31/23 09:19	5	4.0	08/07/23 17:46	TJJ	EPA 6020A
Cobalt	4.6	ug/L		07/31/23 09:19	5	2.0	08/07/23 17:46	TJJ	EPA 6020A
Lead	7.1	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:46	TJJ	EPA 6020A
Magnesium	68	mg/L		07/31/23 09:19	5	0.10	08/07/23 17:46	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		07/31/23 09:19	5	0.20	08/07/23 17:46	TJJ	EPA 6020A
Molybdenum	7.1	ug/L		07/31/23 09:19	5	1.0	08/08/23 18:19	TJJ	EPA 6020A
Potassium	5.1	mg/L		07/31/23 09:19	5	0.10	08/07/23 17:46	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:46	TJJ	EPA 6020A
Sodium	33	mg/L		07/31/23 09:19	5	0.10	08/08/23 18:19	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:46	TJJ	EPA 6020A
Lithium	0.020	mg/L		07/31/23 09:19	1	0.020	08/02/23 11:09	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG04630-05

Sampled: 07/26/23 11:52

Name: OM07

Received: 07/26/23 15:29

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Field - PIA</u>									
Depth, From Measuring Point	12.41	Feet		07/26/23 11:52	1		07/26/23 11:52	FIELD	Field*
Dissolved oxygen, Field	1.4	mg/L		07/26/23 11:52	1		07/26/23 11:52	FIELD	Field*
Oxidation Reduction Potential	-22.2	mV		07/26/23 11:52	1	-500	07/26/23 11:52	FIELD	Field*
pH, Field Measured	6.88	pH Units		07/26/23 11:52	1		07/26/23 11:52	FIELD	Field*
Specific Conductance, Field Measured	1101	umhos/cm		07/26/23 11:52	1		07/26/23 11:52	FIELD	Field*
Temperature, Field Measured	21.8	°C		07/26/23 11:52	1		07/26/23 11:52	FIELD	Field*
Temperature, Field Measured	71.2	°F		07/26/23 11:52	1		07/26/23 11:52	FIELD	Field*
Turbidity, Field Measured	319	NTU		07/26/23 11:52	1	0.00	07/26/23 11:52	FIELD	Field*
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		07/31/23 09:19	5	3.0	08/07/23 17:50	TJJ	EPA 6020A
Arsenic	2.5	ug/L		07/31/23 09:19	5	1.0	08/08/23 18:22	TJJ	EPA 6020A
Barium	100	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:50	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/08/23 18:22	TJJ	EPA 6020A
Boron	1800	ug/L		07/31/23 09:19	20	40	08/10/23 09:56	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:50	TJJ	EPA 6020A
Calcium	140	mg/L		07/31/23 09:19	5	0.20	08/08/23 18:22	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		07/31/23 09:19	5	4.0	08/07/23 17:50	TJJ	EPA 6020A
Cobalt	6.8	ug/L		07/31/23 09:19	5	2.0	08/07/23 17:50	TJJ	EPA 6020A
Lead	1.3	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:50	TJJ	EPA 6020A
Magnesium	75	mg/L		07/31/23 09:19	5	0.10	08/07/23 17:50	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		07/31/23 09:19	5	0.20	08/07/23 17:50	TJJ	EPA 6020A
Molybdenum	1.3	ug/L		07/31/23 09:19	5	1.0	08/08/23 18:22	TJJ	EPA 6020A
Potassium	1.4	mg/L		07/31/23 09:19	5	0.10	08/07/23 17:50	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:50	TJJ	EPA 6020A
Sodium	57	mg/L		07/31/23 09:19	5	0.10	08/08/23 18:22	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:50	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		07/31/23 09:19	1	0.020	08/02/23 11:10	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG04630-06

Sampled: 07/26/23 12:33

Name: OR06A

Received: 07/26/23 15:29

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Field - PIA</u>									
Depth, From Measuring Point	14.07	Feet		07/26/23 12:33	1		07/26/23 12:33	FIELD	Field*
Dissolved oxygen, Field	2.4	mg/L		07/26/23 12:33	1		07/26/23 12:33	FIELD	Field*
Oxidation Reduction Potential	-32.8	mV		07/26/23 12:33	1	-500	07/26/23 12:33	FIELD	Field*
pH, Field Measured	6.81	pH Units		07/26/23 12:33	1		07/26/23 12:33	FIELD	Field*
Specific Conductance, Field Measured	3301	umhos/cm		07/26/23 12:33	1		07/26/23 12:33	FIELD	Field*
Temperature, Field Measured	65.1	°F		07/26/23 12:33	1		07/26/23 12:33	FIELD	Field*
Temperature, Field Measured	18.4	°C		07/26/23 12:33	1		07/26/23 12:33	FIELD	Field*
Turbidity, Field Measured	382	NTU		07/26/23 12:33	1	0.00	07/26/23 12:33	FIELD	Field*
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		07/31/23 09:19	5	3.0	08/07/23 17:54	TJJ	EPA 6020A
Arsenic	12	ug/L		07/31/23 09:19	5	1.0	08/08/23 18:26	TJJ	EPA 6020A
Barium	54	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:54	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/08/23 18:26	TJJ	EPA 6020A
Boron	66000	ug/L		07/31/23 09:19	100	200	08/10/23 09:59	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:54	TJJ	EPA 6020A
Calcium	480	mg/L		07/31/23 09:19	5	0.20	08/08/23 18:26	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		07/31/23 09:19	5	4.0	08/07/23 17:54	TJJ	EPA 6020A
Cobalt	3.8	ug/L		07/31/23 09:19	5	2.0	08/07/23 17:54	TJJ	EPA 6020A
Lead	3.6	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:54	TJJ	EPA 6020A
Magnesium	130	mg/L		07/31/23 09:19	5	0.10	08/08/23 18:26	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		07/31/23 09:19	5	0.20	08/07/23 17:54	TJJ	EPA 6020A
Molybdenum	92	ug/L		07/31/23 09:19	5	1.0	08/08/23 18:26	TJJ	EPA 6020A
Potassium	2.8	mg/L		07/31/23 09:19	5	0.10	08/07/23 17:54	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:54	TJJ	EPA 6020A
Sodium	91	mg/L		07/31/23 09:19	5	0.10	08/08/23 18:26	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:54	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		07/31/23 09:19	1	0.020	08/02/23 11:11	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG04630-07

Sampled: 07/26/23 13:30

Name: OM25S

Received: 07/26/23 15:29

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Field - PIA</u>									
Depth, From Measuring Point	57.96	Feet		07/26/23 13:30	1		07/26/23 13:30	FIELD	Field*
Dissolved oxygen, Field	1.8	mg/L		07/26/23 13:30	1		07/26/23 13:30	FIELD	Field*
Oxidation Reduction Potential	0.900	mV		07/26/23 13:30	1	-500	07/26/23 13:30	FIELD	Field*
pH, Field Measured	6.87	pH Units		07/26/23 13:30	1		07/26/23 13:30	FIELD	Field*
Specific Conductance, Field Measured	3223	umhos/cm		07/26/23 13:30	1		07/26/23 13:30	FIELD	Field*
Temperature, Field Measured	65.0	°F		07/26/23 13:30	1		07/26/23 13:30	FIELD	Field*
Temperature, Field Measured	18.3	°C		07/26/23 13:30	1		07/26/23 13:30	FIELD	Field*
Turbidity, Field Measured	409	NTU		07/26/23 13:30	1	0.00	07/26/23 13:30	FIELD	Field*
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		07/31/23 09:19	5	3.0	08/07/23 17:57	TJJ	EPA 6020A
Arsenic	21	ug/L		07/31/23 09:19	100	20	08/10/23 10:37	TJJ	EPA 6020A
Barium	390	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:57	TJJ	EPA 6020A
Beryllium	4.2	ug/L		07/31/23 09:19	5	1.0	08/08/23 18:30	TJJ	EPA 6020A
Boron	29000	ug/L		07/31/23 09:19	100	200	08/10/23 10:37	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:57	TJJ	EPA 6020A
Calcium	460	mg/L		07/31/23 09:19	5	0.20	08/08/23 18:30	TJJ	EPA 6020A
Chromium	120	ug/L		07/31/23 09:19	5	4.0	08/07/23 17:57	TJJ	EPA 6020A
Cobalt	78	ug/L		07/31/23 09:19	5	2.0	08/07/23 17:57	TJJ	EPA 6020A
Lead	70	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:57	TJJ	EPA 6020A
Magnesium	260	mg/L		07/31/23 09:19	5	0.10	08/07/23 17:57	TJJ	EPA 6020A
Mercury	0.21	ug/L		07/31/23 09:19	5	0.20	08/07/23 17:57	TJJ	EPA 6020A
Molybdenum	7.7	ug/L		07/31/23 09:19	5	1.0	08/08/23 18:30	TJJ	EPA 6020A
Potassium	17	mg/L		07/31/23 09:19	5	0.10	08/07/23 17:57	TJJ	EPA 6020A
Selenium	4.0	ug/L		07/31/23 09:19	5	1.0	08/12/23 10:05	TJJ	EPA 6020A
Sodium	130	mg/L		07/31/23 09:19	5	0.10	08/08/23 18:30	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		07/31/23 09:19	5	1.0	08/07/23 17:57	TJJ	EPA 6020A
Lithium	0.17	mg/L		07/31/23 09:19	1	0.020	08/02/23 11:15	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG04978-01

Sampled: 07/27/23 16:02

Name: OM12

Received: 07/27/23 18:38

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	3.3	mg/L		07/28/23 12:33	1	1.0	07/28/23 12:33	CRD	EPA 300.0 REV 2.1
Fluoride	0.257	mg/L		07/28/23 12:33	1	0.250	07/28/23 12:33	CRD	EPA 300.0 REV 2.1
Sulfate	460	mg/L	Q4	07/28/23 13:51	50	50	07/28/23 13:51	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	17.31	Feet		07/27/23 16:02	1		07/27/23 16:02	FIELD	Field*
Dissolved oxygen, Field	2.4	mg/L		07/27/23 16:02	1		07/27/23 16:02	FIELD	Field*
Oxidation Reduction Potential	-87.6	mV		07/27/23 16:02	1	-500	07/27/23 16:02	FIELD	Field*
pH, Field Measured	7.28	pH Units		07/27/23 16:02	1		07/27/23 16:02	FIELD	Field*
Specific Conductance, Field Measured	1937	umhos/cm		07/27/23 16:02	1		07/27/23 16:02	FIELD	Field*
Temperature, Field Measured	20.0	°C		07/27/23 16:02	1		07/27/23 16:02	FIELD	Field*
Temperature, Field Measured	67.9	°F		07/27/23 16:02	1		07/27/23 16:02	FIELD	Field*
Turbidity, Field Measured	66.3	NTU		07/27/23 16:02	1	0.00	07/27/23 16:02	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	800	mg/L		08/09/23 11:11	1	10	08/09/23 11:11	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		08/09/23 11:11	1	10	08/09/23 11:11	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1400	mg/L		08/02/23 11:04	1	26	08/02/23 14:29	LAL2	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		08/02/23 08:02	5	3.0	08/10/23 13:01	TJJ	EPA 6020A
Arsenic	10	ug/L		08/02/23 08:02	5	1.0	08/10/23 13:01	TJJ	EPA 6020A
Barium	170	ug/L		08/02/23 08:02	5	1.0	08/10/23 13:01	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/02/23 08:02	5	1.0	08/10/23 13:01	TJJ	EPA 6020A
Boron	92	ug/L		08/02/23 08:02	5	10	08/10/23 13:01	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/02/23 08:02	5	1.0	08/10/23 13:01	TJJ	EPA 6020A
Calcium	300	mg/L	Q4	08/02/23 08:02	5	0.20	08/10/23 13:01	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/02/23 08:02	5	4.0	08/10/23 13:01	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/02/23 08:02	5	2.0	08/10/23 13:01	TJJ	EPA 6020A
Lead	1.5	ug/L		08/02/23 08:02	5	1.0	08/11/23 10:43	TJJ	EPA 6020A
Magnesium	120	mg/L	Q4	08/02/23 08:02	5	0.10	08/10/23 13:01	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GG04978-01

Name: OM12

Matrix: Ground Water - Grab

Sampled: 07/27/23 16:02

Received: 07/27/23 18:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Mercury	< 0.20	ug/L		08/02/23 08:02	5	0.20	08/11/23 10:43	TJJ	EPA 6020A
Molybdenum	1.9	ug/L		08/02/23 08:02	5	1.0	08/10/23 13:01	TJJ	EPA 6020A
Potassium	2.0	mg/L		08/02/23 08:02	5	0.10	08/10/23 13:01	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/02/23 08:02	5	1.0	08/11/23 10:43	TJJ	EPA 6020A
Sodium	14	mg/L		08/02/23 08:02	5	0.10	08/10/23 13:01	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/02/23 08:02	5	1.0	08/11/23 10:43	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		08/02/23 08:02	1	0.020	08/09/23 09:48	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG04978-02

Sampled: 07/27/23 14:12

Name: OM23D

Received: 07/27/23 18:38

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	29	mg/L		07/28/23 14:29	5	5.0	07/28/23 14:29	CRD	EPA 300.0 REV 2.1
Fluoride	0.284	mg/L		07/28/23 14:10	1	0.250	07/28/23 14:10	CRD	EPA 300.0 REV 2.1
Sulfate	410	mg/L		07/28/23 14:49	50	50	07/28/23 14:49	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	38.54	Feet		07/27/23 14:12	1		07/27/23 14:12	FIELD	Field*
Dissolved oxygen, Field	8.7	mg/L		07/27/23 14:12	1		07/27/23 14:12	FIELD	Field*
Oxidation Reduction Potential	-20.0	mV		07/27/23 14:12	1	-500	07/27/23 14:12	FIELD	Field*
pH, Field Measured	6.34	pH Units		07/27/23 14:12	1		07/27/23 14:12	FIELD	Field*
Specific Conductance, Field Measured	1610	umhos/cm		07/27/23 14:12	1		07/27/23 14:12	FIELD	Field*
Temperature, Field Measured	14.3	°C		07/27/23 14:12	1		07/27/23 14:12	FIELD	Field*
Temperature, Field Measured	57.8	°F		07/27/23 14:12	1		07/27/23 14:12	FIELD	Field*
Turbidity, Field Measured	113	NTU		07/27/23 14:12	1	0.00	07/27/23 14:12	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	620	mg/L		08/09/23 11:11	1	10	08/09/23 11:11	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		08/09/23 11:11	1	10	08/09/23 11:11	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1200	mg/L		08/02/23 11:04	1	26	08/02/23 14:29	LAL2	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		08/02/23 08:02	5	3.0	08/10/23 13:12	TJJ	EPA 6020A
Arsenic	1.5	ug/L		08/02/23 08:02	5	1.0	08/10/23 13:12	TJJ	EPA 6020A
Barium	33	ug/L		08/02/23 08:02	5	1.0	08/10/23 13:12	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/02/23 08:02	5	1.0	08/10/23 13:12	TJJ	EPA 6020A
Boron	2000	ug/L		08/02/23 08:02	5	10	08/10/23 13:12	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/02/23 08:02	5	1.0	08/10/23 13:12	TJJ	EPA 6020A
Calcium	170	mg/L		08/02/23 08:02	5	0.20	08/10/23 13:12	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/02/23 08:02	5	4.0	08/10/23 13:12	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/02/23 08:02	5	2.0	08/10/23 13:12	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/02/23 08:02	5	1.0	08/11/23 10:54	TJJ	EPA 6020A
Magnesium	97	mg/L		08/02/23 08:02	5	0.10	08/10/23 13:12	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GG04978-02

Name: OM23D

Matrix: Ground Water - Grab

Sampled: 07/27/23 14:12

Received: 07/27/23 18:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Mercury	0.23	ug/L		08/02/23 08:02	5	0.20	08/11/23 10:54	TJJ	EPA 6020A
Molybdenum	2.5	ug/L		08/02/23 08:02	5	1.0	08/10/23 13:12	TJJ	EPA 6020A
Potassium	5.6	mg/L		08/02/23 08:02	5	0.10	08/10/23 13:12	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/02/23 08:02	5	1.0	08/11/23 10:54	TJJ	EPA 6020A
Sodium	110	mg/L		08/02/23 08:02	5	0.10	08/10/23 13:12	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/02/23 08:02	5	1.0	08/11/23 10:54	TJJ	EPA 6020A
Lithium	0.033	mg/L		08/02/23 08:02	1	0.020	08/09/23 09:51	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG04978-03

Sampled: 07/27/23 15:40

Name: OM24D

Received: 07/27/23 18:38

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	450	mg/L		07/28/23 15:27	50	50	07/28/23 15:27	CRD	EPA 300.0 REV 2.1
Sulfate	770	mg/L		08/01/23 15:45	250	250	08/01/23 15:45	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	4.9	Feet		07/27/23 15:40	1		07/27/23 15:40	FIELD	Field*
Dissolved oxygen, Field	1.9	mg/L		07/27/23 15:40	1		07/27/23 15:40	FIELD	Field*
Oxidation Reduction Potential	-61.0	mV		07/27/23 15:40	1	-500	07/27/23 15:40	FIELD	Field*
pH, Field Measured	6.32	pH Units		07/27/23 15:40	1		07/27/23 15:40	FIELD	Field*
Specific Conductance, Field Measured	2640	umhos/cm		07/27/23 15:40	1		07/27/23 15:40	FIELD	Field*
Temperature, Field Measured	83.8	°F		07/27/23 15:40	1		07/27/23 15:40	FIELD	Field*
Temperature, Field Measured	28.8	°C		07/27/23 15:40	1		07/27/23 15:40	FIELD	Field*
Turbidity, Field Measured	710	NTU		07/27/23 15:40	1	0.00	07/27/23 15:40	FIELD	Field*
General Chemistry - PIA									
Fluoride	< 0.250	mg/L		08/01/23 16:54	1	0.250	08/01/23 16:54	TTH	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	2500	mg/L		08/02/23 11:04	1	26	08/02/23 14:29	LAL2	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		08/02/23 08:02	5	3.0	08/10/23 13:43	TJJ	EPA 6020A
Arsenic	5.8	ug/L		08/02/23 08:02	5	1.0	08/10/23 13:43	TJJ	EPA 6020A
Barium	25	ug/L		08/02/23 08:02	5	1.0	08/10/23 13:43	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/02/23 08:02	5	1.0	08/10/23 13:43	TJJ	EPA 6020A
Boron	18000	ug/L		08/02/23 08:02	100	200	08/11/23 10:58	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/02/23 08:02	5	1.0	08/10/23 13:43	TJJ	EPA 6020A
Calcium	420	mg/L		08/02/23 08:02	100	4.0	08/11/23 10:58	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/02/23 08:02	5	4.0	08/10/23 13:43	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/02/23 08:02	5	2.0	08/10/23 13:43	TJJ	EPA 6020A
Lead	1.9	ug/L		08/02/23 08:02	5	1.0	08/11/23 17:53	TJJ	EPA 6020A
Magnesium	140	mg/L		08/02/23 08:02	5	0.10	08/10/23 13:43	TJJ	EPA 6020A
Mercury	< 4.0	ug/L		08/02/23 08:02	100	4.0	08/11/23 10:58	TJJ	EPA 6020A
Molybdenum	5.3	ug/L		08/02/23 08:02	5	1.0	08/10/23 13:43	TJJ	EPA 6020A
Potassium	4.2	mg/L		08/02/23 08:02	5	0.10	08/10/23 13:43	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GG04978-03

Name: OM24D

Matrix: Ground Water - Grab

Sampled: 07/27/23 15:40

Received: 07/27/23 18:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		08/02/23 08:02	5	1.0	08/11/23 17:53	TJJ	EPA 6020A
Sodium	110	mg/L		08/02/23 08:02	5	0.10	08/10/23 13:43	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/02/23 08:02	5	1.0	08/11/23 17:53	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		08/02/23 08:02	1	0.020	08/09/23 09:52	BRS	EPA 6010B

Sample: GG04978-09

Name: OR13D

Matrix: Ground Water - Grab

Sampled: 07/27/23 16:34

Received: 07/27/23 18:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	43	mg/L		08/09/23 21:27	10	10	08/09/23 21:27	CRD	EPA 300.0 REV 2.1
Fluoride	0.343	mg/L		07/28/23 19:20	1	0.250	07/28/23 19:20	CRD	EPA 300.0 REV 2.1
Sulfate	290	mg/L		08/09/23 21:46	100	100	08/09/23 21:46	CRD	EPA 300.0 REV 2.1

Sample: GG04978-10

Name: OR13S

Matrix: Ground Water - Grab

Sampled: 07/27/23 11:01

Received: 07/27/23 18:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	28	mg/L		08/09/23 23:04	10	10	08/09/23 23:04	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		07/28/23 20:18	1	0.250	07/28/23 20:18	CRD	EPA 300.0 REV 2.1
Sulfate	520	mg/L		08/09/23 23:23	250	250	08/09/23 23:23	CRD	EPA 300.0 REV 2.1

Sample: GG04978-11

Name: OM07

Matrix: Ground Water - Grab

Sampled: 07/27/23 11:35

Received: 07/27/23 18:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	12	mg/L		08/10/23 00:02	5	5.0	08/10/23 00:02	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		07/28/23 20:37	1	0.250	07/28/23 20:37	CRD	EPA 300.0 REV 2.1
Sulfate	180	mg/L	Q4	08/10/23 00:21	50	50	08/10/23 00:21	CRD	EPA 300.0 REV 2.1



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ANALYTICAL RESULTS

Sample: GG04978-12

Name: OR06A

Matrix: Ground Water - Grab

Sampled: 07/27/23 11:59

Received: 07/27/23 18:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	180	mg/L		08/10/23 01:38	100	100	08/10/23 01:38	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		07/28/23 21:35	1	0.250	07/28/23 21:35	CRD	EPA 300.0 REV 2.1
Sulfate	390	mg/L		08/10/23 01:38	100	100	08/10/23 01:38	CRD	EPA 300.0 REV 2.1

Sample: GG04978-13

Name: OR11

Matrix: Ground Water - Grab

Sampled: 07/27/23 12:19

Received: 07/27/23 18:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	60	mg/L		08/10/23 02:56	25	25	08/10/23 02:56	CRD	EPA 300.0 REV 2.1
Fluoride	0.281	mg/L		07/28/23 21:55	1	0.250	07/28/23 21:55	CRD	EPA 300.0 REV 2.1
Sulfate	130	mg/L		08/10/23 02:56	25	25	08/10/23 02:56	CRD	EPA 300.0 REV 2.1

Sample: GG04978-14

Name: OM25S

Matrix: Ground Water - Grab

Sampled: 07/27/23 12:41

Received: 07/27/23 18:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	610	mg/L		08/10/23 03:34	250	250	08/10/23 03:34	CRD	EPA 300.0 REV 2.1
Sulfate	710	mg/L		08/10/23 03:34	250	250	08/10/23 03:34	CRD	EPA 300.0 REV 2.1
General Chemistry - PIA									
Fluoride	< 0.250	mg/L		08/15/23 14:00	1	0.250	08/15/23 14:00	TTH	SM 4500F C 1997



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ANALYTICAL RESULTS

Sample: GG04978-15
Name: OR13D DUP
Matrix: Ground Water - Field Duplicate

Sampled: 07/27/23 16:34
Received: 07/27/23 18:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	43	mg/L		08/10/23 04:13	10	10	08/10/23 04:13	CRD	EPA 300.0 REV 2.1
Fluoride	0.273	mg/L		07/28/23 22:53	1	0.250	07/28/23 22:53	CRD	EPA 300.0 REV 2.1
Sulfate	290	mg/L		08/10/23 04:32	100	100	08/10/23 04:32	CRD	EPA 300.0 REV 2.1



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ANALYTICAL RESULTS

Sample: GG05277-01

Sampled: 07/31/23 11:30

Name: OR03D

Received: 07/31/23 16:05

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	1100	mg/L	Q4	08/01/23 10:55	250	250	08/01/23 10:55	TMS	EPA 300.0 REV 2.1
Sulfate	630	mg/L	Q4	08/01/23 10:55	250	250	08/01/23 10:55	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	44.94	Feet		07/31/23 11:30	1		07/31/23 11:30	FIELD	Field*
Dissolved oxygen, Field	3.4	mg/L		07/31/23 11:30	1		07/31/23 11:30	FIELD	Field*
Oxidation Reduction Potential	-14.0	mV		07/31/23 11:30	1	-500	07/31/23 11:30	FIELD	Field*
pH, Field Measured	6.95	pH Units		07/31/23 11:30	1		07/31/23 11:30	FIELD	Field*
Specific Conductance, Field Measured	4020	umhos/cm		07/31/23 11:30	1		07/31/23 11:30	FIELD	Field*
Temperature, Field Measured	15.5	°C		07/31/23 11:30	1		07/31/23 11:30	FIELD	Field*
Temperature, Field Measured	59.9	°F		07/31/23 11:30	1		07/31/23 11:30	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		07/31/23 11:30	1	0.00	07/31/23 11:30	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	500	mg/L		08/09/23 11:11	1	10	08/09/23 11:11	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		08/09/23 11:11	1	10	08/09/23 11:11	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		08/07/23 16:04	1	0.250	08/07/23 16:04	ANK	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	5200	mg/L		08/02/23 11:04	1	26	08/02/23 14:29	LAL2	SM 2540C
Total Metals - PIA									
Antimony	< 6.0	ug/L		08/02/23 08:02	10	6.0	08/10/23 14:10	TJJ	EPA 6020A
Arsenic	36	ug/L		08/02/23 08:02	10	2.0	08/10/23 14:10	TJJ	EPA 6020A
Barium	1000	ug/L		08/02/23 08:02	10	2.0	08/10/23 14:10	TJJ	EPA 6020A
Beryllium	6.6	ug/L		08/02/23 08:02	10	2.0	08/10/23 14:10	TJJ	EPA 6020A
Boron	41000	ug/L		08/02/23 08:02	100	200	08/11/23 11:50	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/02/23 08:02	5	1.0	08/11/23 16:51	TJJ	EPA 6020A
Calcium	730	mg/L		08/02/23 08:02	100	4.0	08/12/23 08:48	TJJ	EPA 6020A
Chromium	230	ug/L		08/02/23 08:02	10	8.0	08/10/23 14:10	TJJ	EPA 6020A
Cobalt	120	ug/L		08/02/23 08:02	10	4.0	08/10/23 14:10	TJJ	EPA 6020A
Lead	96	ug/L		08/02/23 08:02	10	2.0	08/10/23 14:10	TJJ	EPA 6020A
Magnesium	360	mg/L		08/02/23 08:02	10	0.20	08/10/23 14:10	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GG05277-01

Name: OR03D

Matrix: Ground Water - Grab

Sampled: 07/31/23 11:30

Received: 07/31/23 16:05

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Mercury	< 0.20	ug/L		08/02/23 08:02	5	0.20	08/11/23 16:51	TJJ	EPA 6020A
Molybdenum	14	ug/L		08/02/23 08:02	10	2.0	08/10/23 14:10	TJJ	EPA 6020A
Potassium	24	mg/L		08/02/23 08:02	10	0.20	08/10/23 14:10	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/02/23 08:02	5	1.0	08/11/23 16:51	TJJ	EPA 6020A
Sodium	170	mg/L		08/02/23 08:02	10	0.20	08/10/23 14:10	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/02/23 08:02	5	1.0	08/11/23 16:51	TJJ	EPA 6020A
Lithium	0.22	mg/L	F	08/02/23 08:02	1	0.020	08/09/23 09:59	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GG05277-02

Sampled: 07/31/23 13:27

Name: OR19

Received: 07/31/23 16:05

Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	160	mg/L		08/01/23 11:34	100	100	08/01/23 11:34	TMS	EPA 300.0 REV 2.1
Sulfate	910	mg/L		08/01/23 11:34	100	100	08/01/23 11:34	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	25.99	Feet		07/31/23 13:27	1		07/31/23 13:27	FIELD	Field*
Dissolved oxygen, Field	1.5	mg/L		07/31/23 13:27	1		07/31/23 13:27	FIELD	Field*
Oxidation Reduction Potential	-41.0	mV		07/31/23 13:27	1	-500	07/31/23 13:27	FIELD	Field*
pH, Field Measured	6.69	pH Units		07/31/23 13:27	1		07/31/23 13:27	FIELD	Field*
Specific Conductance, Field Measured	2710	umhos/cm		07/31/23 13:27	1		07/31/23 13:27	FIELD	Field*
Temperature, Field Measured	69.5	°F		07/31/23 13:27	1		07/31/23 13:27	FIELD	Field*
Temperature, Field Measured	20.8	°C		07/31/23 13:27	1		07/31/23 13:27	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		07/31/23 13:27	1	0.00	07/31/23 13:27	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	610	mg/L		08/09/23 11:11	1	10	08/09/23 11:11	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		08/09/23 11:11	1	10	08/09/23 11:11	CPS	SM 2320B 1997*
Fluoride	0.384	mg/L		08/07/23 16:05	1	0.250	08/07/23 16:05	ANK	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	2500	mg/L		08/02/23 11:04	1	26	08/02/23 14:29	LAL2	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		08/02/23 08:02	5	3.0	08/12/23 08:52	TJJ	EPA 6020A
Arsenic	1.4	ug/L		08/02/23 08:02	5	1.0	08/11/23 17:03	TJJ	EPA 6020A
Barium	40	ug/L		08/02/23 08:02	10	2.0	08/10/23 14:14	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/02/23 08:02	5	1.0	08/12/23 08:52	TJJ	EPA 6020A
Boron	13000	ug/L		08/02/23 08:02	10	20	08/10/23 14:14	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/02/23 08:02	5	1.0	08/11/23 17:03	TJJ	EPA 6020A
Calcium	360	mg/L		08/02/23 08:02	5	0.20	08/11/23 17:03	TJJ	EPA 6020A
Chromium	8.2	ug/L		08/02/23 08:02	5	4.0	08/12/23 08:52	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/02/23 08:02	5	2.0	08/11/23 17:03	TJJ	EPA 6020A
Lead	4.3	ug/L		08/02/23 08:02	10	2.0	08/10/23 14:14	TJJ	EPA 6020A
Magnesium	150	mg/L		08/02/23 08:02	10	0.20	08/10/23 14:14	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GG05277-02

Name: OR19

Matrix: Ground Water - Grab

Sampled: 07/31/23 13:27

Received: 07/31/23 16:05

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Mercury	0.22	ug/L		08/02/23 08:02	5	0.20	08/11/23 17:03	TJJ	EPA 6020A
Molybdenum	4.0	ug/L		08/02/23 08:02	10	2.0	08/10/23 14:14	TJJ	EPA 6020A
Potassium	5.6	mg/L		08/02/23 08:02	10	0.20	08/10/23 14:14	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/02/23 08:02	5	1.0	08/11/23 17:03	TJJ	EPA 6020A
Sodium	140	mg/L		08/02/23 08:02	10	0.20	08/10/23 14:14	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/02/23 08:02	5	1.0	08/11/23 17:03	TJJ	EPA 6020A
Lithium	0.022	mg/L		08/02/23 08:02	1	0.020	08/09/23 10:01	BRS	EPA 6010B



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B339086 - SW 3015 - EPA 6010B</u>									
Blank (B339086-BLK1)					Prepared: 07/20/23	Analyzed: 07/26/23			
Lithium	< 0.020	mg/L							
<u>LCS (B339086-BS1)</u>									
Lithium	0.529	mg/L		0.5556		95	80-120		
<u>Batch B339086 - SW 3015 - EPA 6020A</u>									
Blank (B339086-BLK1)					Prepared: 07/20/23	Analyzed: 08/01/23			
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
LCS (B339086-BS1)					Prepared: 07/20/23	Analyzed: 08/01/23			
Antimony	527	ug/L		555.6		95	80-120		
Arsenic	532	ug/L		555.6		96	80-120		
Barium	510	ug/L		555.6		92	80-120		
Beryllium	614	ug/L		555.6		111	80-120		
Boron	624	ug/L		555.6		112	80-120		
Cadmium	529	ug/L		555.6		95	80-120		
Calcium	5.18	mg/L		5.556		93	80-120		
Chromium	554	ug/L		555.6		100	80-120		
Cobalt	546	ug/L		555.6		98	80-120		
Lead	530	ug/L		555.6		95	80-120		
Magnesium	6.17	mg/L		5.556		111	80-120		
Mercury	52.7	ug/L		55.56		95	80-120		
Molybdenum	515	ug/L		555.6		93	80-120		
Potassium	5.67	mg/L		5.556		102	80-120		
Selenium	550	ug/L		555.6		99	80-120		
Sodium	5.72	mg/L		5.556		103	80-120		
Thallium	522	ug/L		555.6		94	80-120		

Batch B339233 - IC No Prep - EPA 300.0 REV 2.1



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (B339233-MS1)	Sample: GG03353-04			Prepared & Analyzed: 07/20/23					
Sulfate	1.00E9	mg/L	Q4	1.500	1180	NR	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	270	NR	80-120		
Matrix Spike Dup (B339233-MSD1)	Sample: GG03353-04			Prepared & Analyzed: 07/20/23					
Chloride	1.0E9	mg/L	Q4	1.500	270	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4	1.500	1180	NR	80-120	0	20
<u>Batch B339333 - SW 3015 - EPA 6010B</u>									
Blank (B339333-BLK1)	Prepared: 07/24/23 Analyzed: 07/26/23								
Lithium	< 0.020	mg/L							
LCS (B339333-BS1)	Prepared: 07/24/23 Analyzed: 07/26/23								
Lithium	0.520	mg/L		0.5556		94	80-120		
Matrix Spike (B339333-MS1)	Sample: GG03704-01			Prepared: 07/24/23 Analyzed: 07/26/23					
Lithium	0.531	mg/L		0.5556	ND	95	75-125		
Matrix Spike Dup (B339333-MSD1)	Sample: GG03704-01			Prepared: 07/24/23 Analyzed: 07/26/23					
Lithium	0.523	mg/L		0.5556	ND	94	75-125	2	20
<u>Batch B339333 - SW 3015 - EPA 6020A</u>									
Blank (B339333-BLK1)	Prepared: 07/24/23 Analyzed: 08/01/23								
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
LCS (B339333-BS1)	Prepared: 07/24/23 Analyzed: 08/01/23								
Antimony	535	ug/L		555.6		96	80-120		
Arsenic	551	ug/L		555.6		99	80-120		
Barium	517	ug/L		555.6		93	80-120		
Beryllium	624	ug/L		555.6		112	80-120		
Boron	624	ug/L		555.6		112	80-120		
Cadmium	557	ug/L		555.6		100	80-120		
Calcium	4.80	mg/L		5.556		86	80-120		
Chromium	582	ug/L		555.6		105	80-120		
Cobalt	572	ug/L		555.6		103	80-120		



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B339333-BS1)									
Lead	548	ug/L		555.6	99	80-120			
Magnesium	5.31	mg/L		5.556	96	80-120			
Mercury	54.6	ug/L		55.56	98	80-120			
Molybdenum	543	ug/L		555.6	98	80-120			
Potassium	5.43	mg/L		5.556	98	80-120			
Selenium	570	ug/L		555.6	103	80-120			
Sodium	5.44	mg/L		5.556	98	80-120			
Thallium	546	ug/L		555.6	98	80-120			
Matrix Spike (B339333-MS1)									
	Sample: GG03704-01			Prepared: 07/24/23 Analyzed: 08/01/23					
Antimony	551	ug/L		555.6	ND	99	75-125		
Arsenic	568	ug/L		555.6	2.63	102	75-125		
Barium	729	ug/L		555.6	210	94	75-125		
Beryllium	582	ug/L		555.6	ND	105	75-125		
Boron	599	ug/L		555.6	31.7	102	75-125		
Cadmium	571	ug/L		555.6	ND	103	75-125		
Calcium	177	mg/L	Q4	5.556	175	28	75-125		
Chromium	592	ug/L		555.6	ND	106	75-125		
Cobalt	566	ug/L		555.6	1.09	102	75-125		
Lead	549	ug/L		555.6	ND	99	75-125		
Magnesium	92.7	mg/L	Q4	5.556	89.8	52	75-125		
Mercury	56.9	ug/L		55.56	ND	102	75-125		
Molybdenum	572	ug/L		555.6	ND	103	75-125		
Potassium	5.89	mg/L		5.556	0.387	99	75-125		
Selenium	583	ug/L		555.6	ND	105	75-125		
Sodium	19.3	mg/L		5.556	14.2	93	75-125		
Thallium	547	ug/L		555.6	ND	98	75-125		
Matrix Spike Dup (B339333-MSD1)									
	Sample: GG03704-01			Prepared: 07/24/23 Analyzed: 08/01/23					
Antimony	546	ug/L		555.6	ND	98	75-125	0.9	20
Arsenic	564	ug/L		555.6	2.63	101	75-125	0.8	20
Barium	729	ug/L		555.6	210	94	75-125	0.005	20
Beryllium	588	ug/L		555.6	ND	106	75-125	1	20
Boron	612	ug/L		555.6	31.7	105	75-125	2	20
Cadmium	566	ug/L		555.6	ND	102	75-125	0.9	20
Calcium	177	mg/L	Q4	5.556	175	40	75-125	0.4	20
Chromium	586	ug/L		555.6	ND	105	75-125	1	20
Cobalt	564	ug/L		555.6	1.09	101	75-125	0.4	20
Lead	541	ug/L		555.6	ND	97	75-125	1	20
Magnesium	94.2	mg/L		5.556	89.8	80	75-125	2	20
Mercury	56.9	ug/L		55.56	ND	102	75-125	0.05	20
Molybdenum	565	ug/L		555.6	ND	102	75-125	1	20
Potassium	5.83	mg/L		5.556	0.387	98	75-125	1	20
Selenium	575	ug/L		555.6	ND	103	75-125	1	20
Sodium	19.0	mg/L		5.556	14.2	88	75-125	2	20
Thallium	539	ug/L		555.6	ND	97	75-125	1	20



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B339340 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B339340-MS3)									
Chloride	1.0E9	mg/L	Q4	1.500	43	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	124	NR	80-120		
Fluoride	1.86	mg/L		1.500	0.306	103	80-120		
Matrix Spike Dup (B339340-MSD3)									
Fluoride	1.85	mg/L		1.500	0.306	103	80-120	0.3	20
Sulfate	1.00E9	mg/L	Q4	1.500	124	NR	80-120	0	20
Chloride	1.0E9	mg/L	Q4	1.500	43	NR	80-120	0	20
<u>Batch B339345 - No Prep - SM 2540C</u>									
Blank (B339345-BLK1)									
Solids - total dissolved solids (TDS)	< 17	mg/L			Prepared & Analyzed: 07/24/23				
LCS (B339345-BS1)									
Solids - total dissolved solids (TDS)	980	mg/L		1000		98	84.9-109		
Duplicate (B339345-DUP1)									
Solids - total dissolved solids (TDS)	4180	mg/L			4320			3	5
<u>Batch B339448 - No Prep - SM 4500F C 1997</u>									
Matrix Spike (B339448-MS2)									
Fluoride	1.27	mg/L		1.000	0.245	102	80-120		
Matrix Spike Dup (B339448-MSD2)									
Fluoride	1.26	mg/L		1.000	0.245	102	80-120	0.5	20
<u>Batch B339564 - SW 3015 - EPA 6010B</u>									
Blank (B339564-BLK1)									
Lithium	< 0.020	mg/L			Prepared: 07/26/23 Analyzed: 08/02/23				
LCS (B339564-BS1)									
Lithium	0.561	mg/L		0.5556		101	80-120		
Matrix Spike (B339564-MS1)									
Lithium	0.570	mg/L		0.5556	0.0349	96	75-125		
Matrix Spike Dup (B339564-MSD1)									
Lithium	0.551	mg/L		0.5556	0.0349	93	75-125	3	20
<u>Batch B339564 - SW 3015 - EPA 6020A</u>									
Blank (B339564-BLK1)									
Antimony	< 3.0	ug/L			Prepared: 07/26/23 Analyzed: 08/01/23				
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit			
Blank (B339564-BLK1)					Prepared: 07/26/23 Analyzed: 08/01/23							
Lead	< 1.0	ug/L										
Magnesium	< 0.10	mg/L										
Mercury	< 0.20	ug/L										
Molybdenum	< 1.0	ug/L										
Potassium	< 0.10	mg/L										
Selenium	< 1.0	ug/L										
Sodium	< 0.10	mg/L										
Thallium	< 1.0	ug/L										
LCS (B339564-BS1)					Prepared: 07/26/23 Analyzed: 08/01/23							
Antimony	544	ug/L		555.6		98	80-120					
Arsenic	566	ug/L		555.6		102	80-120					
Barium	535	ug/L		555.6		96	80-120					
Beryllium	651	ug/L		555.6		117	80-120					
Boron	663	ug/L		555.6		119	80-120					
Cadmium	566	ug/L		555.6		102	80-120					
Calcium	5.11	mg/L		5.556		92	80-120					
Chromium	579	ug/L		555.6		104	80-120					
Cobalt	567	ug/L		555.6		102	80-120					
Lead	552	ug/L		555.6		99	80-120					
Magnesium	5.77	mg/L		5.556		104	80-120					
Mercury	55.2	ug/L		55.56		99	80-120					
Molybdenum	553	ug/L		555.6		100	80-120					
Potassium	5.43	mg/L		5.556		98	80-120					
Selenium	582	ug/L		555.6		105	80-120					
Sodium	5.34	mg/L		5.556		96	80-120					
Thallium	545	ug/L		555.6		98	80-120					
Matrix Spike (B339564-MS1)	Sample: GG04129-01				Prepared: 07/26/23 Analyzed: 08/01/23							
Antimony	540	ug/L		555.6	ND	97	75-125					
Arsenic	575	ug/L		555.6	7.95	102	75-125					
Barium	564	ug/L		555.6	30.9	96	75-125					
Beryllium	597	ug/L		555.6	ND	107	75-125					
Boron	23800	ug/L	Q4	555.6	23500	68	75-125					
Cadmium	559	ug/L		555.6	ND	101	75-125					
Calcium	212	mg/L	Q4	5.556	211	22	75-125					
Chromium	579	ug/L		555.6	2.97	104	75-125					
Cobalt	551	ug/L		555.6	1.76	99	75-125					
Lead	537	ug/L		555.6	2.41	96	75-125					
Magnesium	102	mg/L	Q4	5.556	98.9	53	75-125					
Mercury	57.3	ug/L		55.56	ND	103	75-125					
Molybdenum	594	ug/L		555.6	32.6	101	75-125					
Potassium	12.9	mg/L		5.556	7.69	94	75-125					
Selenium	579	ug/L		555.6	ND	104	75-125					
Sodium	173	mg/L	Q4	5.556	173	6	75-125					
Thallium	527	ug/L		555.6	ND	95	75-125					
Matrix Spike Dup (B339564-MSD1)	Sample: GG04129-01				Prepared: 07/26/23 Analyzed: 08/01/23							



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike Dup (B339564-MSD1)	Sample: GG04129-01			Prepared: 07/26/23 Analyzed: 08/01/23					
Antimony	533	ug/L		555.6	ND	96	75-125	1	20
Arsenic	572	ug/L		555.6	7.95	102	75-125	0.4	20
Barium	561	ug/L		555.6	30.9	95	75-125	0.6	20
Beryllium	591	ug/L		555.6	ND	106	75-125	1	20
Boron	24200	ug/L	Q4	555.6	23500	129	75-125	1	20
Cadmium	558	ug/L		555.6	ND	101	75-125	0.07	20
Calcium	211	mg/L	Q4	5.556	211	NR	75-125	0.6	20
Chromium	577	ug/L		555.6	2.97	103	75-125	0.4	20
Cobalt	554	ug/L		555.6	1.76	99	75-125	0.5	20
Lead	532	ug/L		555.6	2.41	95	75-125	1	20
Magnesium	101	mg/L	Q4	5.556	98.9	42	75-125	0.6	20
Mercury	57.3	ug/L		55.56	ND	103	75-125	0.07	20
Molybdenum	593	ug/L		555.6	32.6	101	75-125	0.1	20
Potassium	12.8	mg/L		5.556	7.69	93	75-125	0.6	20
Selenium	574	ug/L		555.6	ND	103	75-125	0.9	20
Sodium	173	mg/L	Q4	5.556	173	NR	75-125	0.3	20
Thallium	522	ug/L		555.6	ND	94	75-125	0.8	20

Batch B339593 - IC No Prep - EPA 300.0 REV 2.1

Matrix Spike (B339593-MS1)	Sample: GG04129-01			Prepared & Analyzed: 07/25/23					
Chloride	1.0E9	mg/L	Q4	1.500	330	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	391	NR	80-120		
Matrix Spike (B339593-MS2)	Sample: GG04129-11			Prepared & Analyzed: 07/25/23					
Chloride	1.0E9	mg/L	Q4	1.500	18	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	150	NR	80-120		
Matrix Spike Dup (B339593-MSD1)	Sample: GG04129-01			Prepared & Analyzed: 07/25/23					
Chloride	1.0E9	mg/L	Q4	1.500	330	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4	1.500	391	NR	80-120	0	20
Matrix Spike Dup (B339593-MSD2)	Sample: GG04129-11			Prepared & Analyzed: 07/25/23					
Chloride	1.0E9	mg/L	Q4	1.500	18	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4	1.500	150	NR	80-120	0	20

Batch B339691 - No Prep - SM 4500F C 1997

Matrix Spike (B339691-MS1)	Sample: GG03704-19			Prepared & Analyzed: 07/27/23					
Fluoride	2.77	mg/L		1.000	1.75	102	80-120		
Matrix Spike Dup (B339691-MSD1)	Sample: GG03704-19			Prepared & Analyzed: 07/27/23					
Fluoride	2.79	mg/L		1.000	1.75	104	80-120	0.6	20

Batch B339705 - SW 3015 - EPA 6010B

Blank (B339705-BLK1)				Prepared: 07/27/23 Analyzed: 08/02/23					
Lithium	< 0.020	mg/L							
LCS (B339705-BS1)				Prepared: 07/27/23 Analyzed: 08/02/23					
Lithium	0.567	mg/L		0.5556		102	80-120		
Matrix Spike (B339705-MS1)	Sample: GG04417-01			Prepared: 07/27/23 Analyzed: 08/02/23					
Lithium	1.00	mg/L	F	0.5556	0.396	109	75-125		



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike Dup (B339705-MSD1)	Sample: GG04417-01			Prepared: 07/27/23 Analyzed: 08/02/23					
Lithium	0.992	mg/L	F	0.5556	0.396	107	75-125	0.9	20
<u>Batch B339705 - SW 3015 - EPA 6020A</u>									
Blank (B339705-BLK1) Prepared: 07/27/23 Analyzed: 08/07/23									
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
LCS (B339705-BS1)	Prepared: 07/27/23 Analyzed: 08/07/23								
Antimony	565	ug/L		555.6	102	80-120			
Arsenic	541	ug/L		555.6	97	80-120			
Barium	555	ug/L		555.6	100	80-120			
Beryllium	581	ug/L		555.6	105	80-120			
Boron	526	ug/L		555.6	95	80-120			
Cadmium	509	ug/L		555.6	92	80-120			
Calcium	5.59	mg/L		5.556	101	80-120			
Chromium	565	ug/L		555.6	102	80-120			
Cobalt	594	ug/L		555.6	107	80-120			
Lead	600	ug/L		555.6	108	80-120			
Magnesium	5.81	mg/L		5.556	105	80-120			
Mercury	53.2	ug/L		55.56	96	80-120			
Molybdenum	493	ug/L		555.6	89	80-120			
Potassium	6.05	mg/L		5.556	109	80-120			
Selenium	615	ug/L		555.6	111	80-120			
Sodium	5.69	mg/L		5.556	102	80-120			
Thallium	614	ug/L		555.6	111	80-120			
Matrix Spike (B339705-MS1)	Sample: GG04417-01			Prepared: 07/27/23 Analyzed: 08/07/23					
Antimony	69.1	ug/L	Q1	555.6	0.817	12	75-125		
Barium	1980	ug/L		555.6	1320	118	75-125		
Beryllium	445	ug/L		555.6	16.0	77	75-125		
Boron	826	ug/L	Q1	555.6	472	64	75-125		
Cadmium	526	ug/L		555.6	9.18	93	75-125		



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (B339705-MS1)	Sample: GG04417-01			Prepared: 07/27/23 Analyzed: 08/08/23					
Calcium	290	mg/L	Q4	5.556	289	18	75-125		
Chromium	993	ug/L		555.6	440	99	75-125		
Cobalt	828	ug/L		555.6	236	107	75-125		
Lead	914	ug/L		555.6	316	108	75-125		
Magnesium	189	mg/L	Q4	5.556	179	173	75-125		
Mercury	53.0	ug/L		55.56	0.828	94	75-125		
Molybdenum	369	ug/L	Q1	555.6	6.34	65	75-125		
Potassium	30.8	mg/L		5.556	24.5	113	75-125		
Selenium	304	ug/L	Q1	555.6	14.2	52	75-125		
Sodium	10.7	mg/L		5.556	5.57	93	75-125		
Thallium	543	ug/L		555.6	3.41	97	75-125		
Matrix Spike Dup (B339705-MSD1)	Sample: GG04417-01			Prepared: 07/27/23 Analyzed: 08/07/23					
Antimony	64.8	ug/L	Q2	555.6	0.817	12	75-125	6	20
Barium	1980	ug/L		555.6	1320	119	75-125	0.3	20
Beryllium	443	ug/L		555.6	16.0	77	75-125	0.4	20
Boron	770	ug/L	Q2	555.6	472	54	75-125	7	20
Cadmium	524	ug/L		555.6	9.18	93	75-125	0.3	20
Calcium	285	mg/L	Q4	5.556	289	NR	75-125	2	20
Chromium	1000	ug/L		555.6	440	101	75-125	0.7	20
Cobalt	843	ug/L		555.6	236	109	75-125	2	20
Lead	915	ug/L		555.6	316	108	75-125	0.1	20
Magnesium	191	mg/L	Q4	5.556	179	205	75-125	0.9	20
Mercury	52.9	ug/L		55.56	0.828	94	75-125	0.04	20
Molybdenum	361	ug/L	Q2	555.6	6.34	64	75-125	2	20
Potassium	31.3	mg/L		5.556	24.5	123	75-125	2	20
Selenium	336	ug/L	Q2	555.6	14.2	58	75-125	10	20
Sodium	10.6	mg/L		5.556	5.57	90	75-125	1	20
Thallium	537	ug/L		555.6	3.41	96	75-125	1	20
<u>Batch B339730 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B339730-MS1)	Sample: GG04417-01			Prepared & Analyzed: 07/26/23					
Chloride	4.5	mg/L		1.500	2.8	115	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	347	NR	80-120		
Matrix Spike Dup (B339730-MSD1)	Sample: GG04417-01			Prepared & Analyzed: 07/26/23					
Sulfate	1.00E9	mg/L	Q4	1.500	347	NR	80-120	0	20
Chloride	4.4	mg/L		1.500	2.8	113	80-120	0.9	20
<u>Batch B339734 - No Prep - SM 2540C</u>									
Blank (B339734-BLK1)	Prepared & Analyzed: 07/27/23								
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B339734-BS1)	Prepared & Analyzed: 07/27/23								
Solids - total dissolved solids (TDS)	1020	mg/L		1000		102	84.9-109		
Duplicate (B339734-DUP1)	Sample: GG03704-01			Prepared & Analyzed: 07/27/23					
Solids - total dissolved solids (TDS)	1060	mg/L			1100			5	5
Duplicate (B339734-DUP2)	Sample: GG03704-07			Prepared & Analyzed: 07/27/23					



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Duplicate (B339734-DUP2)	Sample: GG03704-07				Prepared & Analyzed: 07/27/23				
Solids - total dissolved solids (TDS)	735	mg/L	M		1180			47	5
<u>Batch B339834 - No Prep - SM 2540C</u>									
Blank (B339834-BLK1)					Prepared & Analyzed: 07/28/23				
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B339834-BS1)					Prepared & Analyzed: 07/28/23				
Solids - total dissolved solids (TDS)	963	mg/L		1000	96	84.9-109			
Duplicate (B339834-DUP1)	Sample: GG04129-01				Prepared & Analyzed: 07/28/23				
Solids - total dissolved solids (TDS)	1760	mg/L			1840			4	5
Duplicate (B339834-DUP2)	Sample: GG04129-11				Prepared & Analyzed: 07/28/23				
Solids - total dissolved solids (TDS)	630	mg/L			635			0.8	5
<u>Batch B339934 - No Prep - SM 2540C</u>									
Blank (B339934-BLK1)					Prepared & Analyzed: 08/01/23				
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B339934-BS1)					Prepared & Analyzed: 08/01/23				
Solids - total dissolved solids (TDS)	993	mg/L		1000	99	84.9-109			
Duplicate (B339934-DUP1)	Sample: GG04417-01				Prepared & Analyzed: 08/01/23				
Solids - total dissolved solids (TDS)	980	mg/L			960			2	5
Duplicate (B339934-DUP2)	Sample: GG04417-11				Prepared & Analyzed: 08/01/23				
Solids - total dissolved solids (TDS)	785	mg/L	M		810			3	5
<u>Batch B339939 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B339939-MS1)	Sample: GG04978-01				Prepared & Analyzed: 07/28/23				
Sulfate	1.00E9	mg/L	Q4	1.500	463	NR	80-120		
Fluoride	1.74	mg/L		1.500	0.257	99	80-120		
Chloride	4.5	mg/L		1.500	3.3	85	80-120		
Matrix Spike (B339939-MS2)	Sample: GG04978-11				Prepared: 07/29/23 Analyzed: 07/28/23				
Fluoride	1.66	mg/L		1.500	0.192	98	80-120		
Matrix Spike Dup (B339939-MSD1)	Sample: GG04978-01				Prepared & Analyzed: 07/28/23				
Sulfate	1.00E9	mg/L	Q4	1.500	463	NR	80-120	0	20
Matrix Spike Dup (B339939-MSD2)	Sample: GG04978-11				Prepared: 07/29/23 Analyzed: 07/28/23				
Fluoride	1.68	mg/L		1.500	0.192	99	80-120	0.8	20
<u>Batch B339942 - SW 3015 - EPA 6010B</u>									
Blank (B339942-BLK1)					Prepared: 07/31/23 Analyzed: 08/02/23				
Lithium	< 0.020	mg/L							
LCS (B339942-BS1)					Prepared: 07/31/23 Analyzed: 08/02/23				
Lithium	0.554	mg/L		0.5556		100	80-120		
Matrix Spike (B339942-MS1)	Sample: GG04630-01				Prepared: 07/31/23 Analyzed: 08/02/23				
Lithium	0.551	mg/L		0.5556	0.0265	94	75-125		
Matrix Spike Dup (B339942-MSD1)	Sample: GG04630-01				Prepared: 07/31/23 Analyzed: 08/02/23				
Lithium	0.534	mg/L		0.5556	0.0265	91	75-125	3	20
<u>Batch B339942 - SW 3015 - EPA 6020A</u>									



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit			
Blank (B339942-BLK1)					Prepared: 07/31/23 Analyzed: 08/07/23							
Antimony	< 3.0	ug/L										
Arsenic	< 1.0	ug/L										
Barium	< 1.0	ug/L										
Beryllium	< 1.0	ug/L										
Boron	< 10	ug/L										
Cadmium	< 1.0	ug/L										
Calcium	< 0.20	mg/L										
Chromium	< 4.0	ug/L										
Cobalt	< 2.0	ug/L										
Lead	< 1.0	ug/L										
Magnesium	< 0.10	mg/L										
Mercury	< 0.20	ug/L										
Molybdenum	< 1.0	ug/L										
Potassium	< 0.10	mg/L										
Selenium	< 1.0	ug/L										
Sodium	< 0.10	mg/L										
Thallium	< 1.0	ug/L										
LCS (B339942-BS1)					Prepared: 07/31/23 Analyzed: 08/07/23							
Antimony	550	ug/L		555.6	99	80-120						
Arsenic	548	ug/L		555.6	99	80-120						
Barium	545	ug/L		555.6	98	80-120						
Beryllium	593	ug/L		555.6	107	80-120						
Boron	514	ug/L		555.6	93	80-120						
Cadmium	501	ug/L		555.6	90	80-120						
Calcium	5.54	mg/L		5.556	100	80-120						
Chromium	562	ug/L		555.6	101	80-120						
Cobalt	581	ug/L		555.6	105	80-120						
Lead	587	ug/L		555.6	106	80-120						
Magnesium	5.72	mg/L		5.556	103	80-120						
Mercury	52.1	ug/L		55.56	94	80-120						
Molybdenum	498	ug/L		555.6	90	80-120						
Potassium	5.84	mg/L		5.556	105	80-120						
Selenium	599	ug/L		555.6	108	80-120						
Sodium	5.76	mg/L		5.556	104	80-120						
Thallium	605	ug/L		555.6	109	80-120						
Matrix Spike (B339942-MS1)	Sample: GG04630-01				Prepared: 07/31/23 Analyzed: 08/07/23							
Antimony	560	ug/L		555.6	ND	101	75-125					
Arsenic	565	ug/L		555.6	8.27	100	75-125					
Barium	572	ug/L		555.6	33.2	97	75-125					
Beryllium	584	ug/L		555.6	ND	105	75-125					
Boron	2340	ug/L		555.6	1780	101	75-125					
Cadmium	494	ug/L		555.6	ND	89	75-125					
Calcium	125	mg/L	Q4	5.556	122	61	75-125					
Chromium	554	ug/L		555.6	ND	100	75-125					
Cobalt	566	ug/L		555.6	ND	102	75-125					



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (B339942-MS1)	Sample: GG04630-01			Prepared: 07/31/23 Analyzed: 08/07/23					
Lead	569	ug/L		555.6	0.778	102	75-125		
Magnesium	66.0	mg/L		5.556	61.5	82	75-125		
Mercury	54.3	ug/L		55.56	0.194	97	75-125		
Molybdenum	516	ug/L		555.6	7.37	92	75-125		
Potassium	10.9	mg/L		5.556	5.23	101	75-125		
Selenium	598	ug/L		555.6	ND	108	75-125		
Sodium	265	mg/L	Q4	5.556	265	7	75-125		
Thallium	590	ug/L		555.6	ND	106	75-125		
Matrix Spike Dup (B339942-MSD1)	Sample: GG04630-01			Prepared: 07/31/23 Analyzed: 08/07/23					
Antimony	552	ug/L		555.6	ND	99	75-125	1	20
Arsenic	562	ug/L		555.6	8.27	100	75-125	0.7	20
Barium	569	ug/L		555.6	33.2	96	75-125	0.6	20
Beryllium	576	ug/L		555.6	ND	104	75-125	1	20
Boron	2380	ug/L		555.6	1780	107	75-125	1	20
Cadmium	491	ug/L		555.6	ND	88	75-125	0.5	20
Calcium	124	mg/L	Q4	5.556	122	35	75-125	1	20
Chromium	550	ug/L		555.6	ND	99	75-125	0.8	20
Cobalt	566	ug/L		555.6	ND	102	75-125	0.07	20
Lead	561	ug/L		555.6	0.778	101	75-125	1	20
Magnesium	66.0	mg/L		5.556	61.5	81	75-125	0.09	20
Mercury	54.1	ug/L		55.56	0.194	97	75-125	0.4	20
Molybdenum	511	ug/L		555.6	7.37	91	75-125	0.9	20
Potassium	10.8	mg/L		5.556	5.23	101	75-125	0.3	20
Selenium	592	ug/L		555.6	ND	106	75-125	1	20
Sodium	262	mg/L	Q4	5.556	265	NR	75-125	1	20
Thallium	581	ug/L		555.6	ND	105	75-125	2	20
<u>Batch B339993 - No Prep - SM 2320B 1997</u>									
Duplicate (B339993-DUP1)	Sample: GG03353-01			Prepared & Analyzed: 07/31/23					
Alkalinity - bicarbonate as CaCO ₃	512	mg/L			500			2	10
<u>Batch B340157 - SW 3015 - EPA 6010B</u>									
Blank (B340157-BLK1)	Prepared: 08/02/23 Analyzed: 08/09/23								
Lithium	< 0.020	mg/L							
LCS (B340157-BS1)	Prepared: 08/02/23 Analyzed: 08/09/23								
Lithium	0.543	mg/L		0.5556		98	80-120		
Matrix Spike (B340157-MS1)	Sample: GG04978-01			Prepared: 08/02/23 Analyzed: 08/09/23					
Lithium	0.537	mg/L		0.5556	ND	97	75-125		
Matrix Spike Dup (B340157-MSD1)	Sample: GG04978-01			Prepared: 08/02/23 Analyzed: 08/09/23					
Lithium	0.538	mg/L		0.5556	ND	97	75-125	0.2	20
<u>Batch B340157 - SW 3015 - EPA 6020A</u>									
Blank (B340157-BLK1)	Prepared: 08/02/23 Analyzed: 08/10/23								
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit			
Blank (B340157-BLK1)					Prepared: 08/02/23 Analyzed: 08/10/23							
Barium	< 1.0	ug/L										
Beryllium	< 1.0	ug/L										
Boron	< 10	ug/L										
Cadmium	< 1.0	ug/L										
Calcium	< 0.20	mg/L										
Chromium	< 4.0	ug/L										
Cobalt	< 2.0	ug/L										
Lead	< 1.0	ug/L										
Magnesium	< 0.10	mg/L										
Mercury	< 0.20	ug/L										
Molybdenum	< 1.0	ug/L										
Potassium	< 0.10	mg/L										
Selenium	< 1.0	ug/L										
Sodium	< 0.10	mg/L										
Thallium	< 1.0	ug/L										
LCS (B340157-BS1)					Prepared: 08/02/23 Analyzed: 08/10/23							
Antimony	645	ug/L		555.6		116	80-120					
Arsenic	550	ug/L		555.6		99	80-120					
Barium	656	ug/L		555.6		118	80-120					
Beryllium	648	ug/L		555.6		117	80-120					
Boron	619	ug/L		555.6		111	80-120					
Cadmium	563	ug/L		555.6		101	80-120					
Calcium	5.74	mg/L		5.556		103	80-120					
Chromium	541	ug/L		555.6		97	80-120					
Cobalt	551	ug/L		555.6		99	80-120					
Lead	536	ug/L		555.6		96	80-120					
Magnesium	5.58	mg/L		5.556		100	80-120					
Mercury	54.5	ug/L		55.56		98	80-120					
Molybdenum	545	ug/L		555.6		98	80-120					
Potassium	5.58	mg/L		5.556		101	80-120					
Selenium	583	ug/L		555.6		105	80-120					
Sodium	5.65	mg/L		5.556		102	80-120					
Thallium	546	ug/L		555.6		98	80-120					
Matrix Spike (B340157-MS1)	Sample: GG04978-01				Prepared: 08/02/23 Analyzed: 08/10/23							
Antimony	559	ug/L		555.6	2.14	100	75-125					
Arsenic	560	ug/L		555.6	10.2	99	75-125					
Barium	721	ug/L		555.6	174	99	75-125					
Beryllium	526	ug/L		555.6	ND	95	75-125					
Boron	605	ug/L		555.6	91.6	92	75-125					
Cadmium	560	ug/L		555.6	ND	101	75-125					
Calcium	305	mg/L	Q4	5.556	303	26	75-125					
Chromium	539	ug/L		555.6	ND	97	75-125					
Cobalt	533	ug/L		555.6	0.867	96	75-125					
Lead	524	ug/L		555.6	1.49	94	75-125					
Magnesium	118	mg/L	Q4	5.556	115	52	75-125					



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (B340157-MS1)									
Mercury	56.0	ug/L		55.56	0.183	100	75-125		
Molybdenum	557	ug/L		555.6	1.94	100	75-125		
Potassium	7.42	mg/L		5.556	1.95	98	75-125		
Selenium	582	ug/L		555.6	ND	105	75-125		
Sodium	18.9	mg/L		5.556	13.7	94	75-125		
Thallium	537	ug/L		555.6	ND	97	75-125		
Matrix Spike Dup (B340157-MSD1)									
Antimony	550	ug/L		555.6	2.14	99	75-125	2	20
Arsenic	557	ug/L		555.6	10.2	98	75-125	0.6	20
Barium	717	ug/L		555.6	174	98	75-125	0.7	20
Beryllium	530	ug/L		555.6	ND	95	75-125	0.9	20
Boron	613	ug/L		555.6	91.6	94	75-125	1	20
Cadmium	556	ug/L		555.6	ND	100	75-125	0.7	20
Calcium	305	mg/L	Q4	5.556	303	32	75-125	0.1	20
Chromium	538	ug/L		555.6	ND	97	75-125	0.2	20
Cobalt	530	ug/L		555.6	0.867	95	75-125	0.5	20
Lead	521	ug/L		555.6	1.49	94	75-125	0.6	20
Magnesium	118	mg/L	Q4	5.556	115	50	75-125	0.1	20
Mercury	55.6	ug/L		55.56	0.183	100	75-125	0.7	20
Molybdenum	558	ug/L		555.6	1.94	100	75-125	0.04	20
Potassium	7.37	mg/L		5.556	1.95	97	75-125	0.7	20
Selenium	577	ug/L		555.6	ND	104	75-125	0.9	20
Sodium	18.8	mg/L		5.556	13.7	93	75-125	0.3	20
Thallium	534	ug/L		555.6	ND	96	75-125	0.6	20
<u>Batch B340192 - No Prep - SM 2540C</u>									
Blank (B340192-BLK1)									
Solids - total dissolved solids (TDS)	< 17	mg/L			Prepared & Analyzed: 08/02/23				
LCS (B340192-BS1)									
Solids - total dissolved solids (TDS)	987	mg/L		1000	99	84.9-109			
Duplicate (B340192-DUP1)									
Solids - total dissolved solids (TDS)	1480	mg/L			1420			4	5
<u>Batch B340193 - No Prep - SM 2320B 1997</u>									
Duplicate (B340193-DUP1)									
Alkalinity - bicarbonate as CaCO3	675	mg/L			725			7	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Duplicate (B340193-DUP2)									
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	538	mg/L			500			7	10
<u>Batch B340448 - No Prep - SM 2320B 1997</u>									
Duplicate (B340448-DUP1)									
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	525	mg/L			525			0	10



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Duplicate (B340448-DUP2)	Sample: GG04129-11			Prepared & Analyzed: 08/04/23					
Alkalinity - bicarbonate as CaCO ₃	400	mg/L			388			3	10
Alkalinity - carbonate as CaCO ₃	< 10	mg/L			ND				10
Duplicate (B340448-DUP3)	Sample: GG04129-14			Prepared & Analyzed: 08/04/23					
Alkalinity - bicarbonate as CaCO ₃	500	mg/L			488			3	10
Alkalinity - carbonate as CaCO ₃	< 10	mg/L			ND				10
Duplicate (B340448-DUP4)	Sample: GG04417-01			Prepared & Analyzed: 08/04/23					
Alkalinity - bicarbonate as CaCO ₃	400	mg/L			362			10	10
Alkalinity - carbonate as CaCO ₃	< 10	mg/L			ND				10
<u>Batch B340643 - No Prep - EPA 350.1 REV2</u>									
Matrix Spike (B340643-MS1)	Sample: GG04129-10			Prepared & Analyzed: 08/08/23					
Ammonia-N	2.01	mg/L		2.000	ND	100	90-110		
Matrix Spike Dup (B340643-MSD1)	Sample: GG04129-10			Prepared & Analyzed: 08/08/23					
Ammonia-N	2.03	mg/L		2.000	ND	102	90-110	1	20
<u>Batch B340811 - No Prep - SM 2320B 1997</u>									
Duplicate (B340811-DUP1)	Sample: GG04978-01			Prepared & Analyzed: 08/09/23					
Alkalinity - carbonate as CaCO ₃	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO ₃	825	mg/L			800			3	10
<u>Batch B340896 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B340896-MS2)	Sample: GG04978-11			Prepared & Analyzed: 08/10/23					
Chloride	< 1.0	mg/L	Q4	3.000	12	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	3.000	183	NR	80-120		
Matrix Spike Dup (B340896-MSD2)	Sample: GG04978-11			Prepared & Analyzed: 08/10/23					
Sulfate	1.00E9	mg/L	Q4	3.000	183	NR	80-120	0	20
Chloride	< 1.0	mg/L	Q4	3.000	12	NR	80-120		20



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

Qualifiers

- F Internal standard area failed to meet the required acceptance criteria in repeat instrumental analyses. Results should be interpreted as estimated concentrations.
- M Analyte failed to meet the required acceptance criteria for duplicate analysis.
- Q1 Matrix Spike failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q2 Matrix Spike Duplicate failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q3 Matrix Spike/Matrix Spike Duplicate both failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.

Certified by: Diane Billings, Project Manager



SAR-3: Episodic Depth to Groundwater Measurements

All DTWs on SAR-3 must be collected within 24 hours.

Plant: DC
Event: DC-23Q3 Rev 0

Well	Unique ID	Unit Numt	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
BA01C	DC-BA01!C	205	BAB	7/17/23	1428	14.90		KL
BA01L	DC-BA01!L	205	BAB		1425	15.29		KL
G02L	DC-G02!L	204	LF		0941	12.22		JD
G02D	DC-G02&D	204	LF		0944	22.04	TD = 68.48'	JD
G03L	DC-G03!L	204	LF		0934	8.68	TD = 26.80'	JD
G03S	DC-G03#S	204	LF		0929	8.33		JD
G04L	DC-G04!L	204	LF		1327	15.42	dry	NW
G04S	DC-G04#S	204	LF		1329	18.27		NW
G06L	DC-G06!L	204	LF		1232	21.80		JD
G06S	DC-G06#S	204	LF		1230	22.02		JD
G07L	DC-G07!L	204	LF		1222	21.12		JD
G08L	DC-G08!L	204	LF		1216	20.68		JD
G09L	DC-G09!L	204	LF		1207	20.75		JD
G09S	DC-G09#S	204	LF		1210	20.63		JD
G12L	DC-G12!L	204	LF		1139	21.67		JD
G12S	DC-G12#S	204	LF		1141	22.72		JD
G14L	DC-G14!L	204	LF		106	24.02	TD = 26.86	JD
G15L	DC-G15!L	204	LF		1050	30.85		JD
G15S	DC-G15#S	204	LF		1047	31.19		JD
G16L	DC-G16!L	204	LF		1042	29.41		JD
G50L	DC-G50!L	203	GMF		1036	12.52		KL
G51L	DC-G51!L	203	GMF		1522	15.75		JD
G52L	DC-G52!L	203	GMF		1515	26.38		JD

SAR-3: Episodic Depth to Groundwater Measurements

All DTWs on SAR-3 must be collected within 24 hours.

Plant: DC

Event: DC-23Q3 Rev 0

Well	Unique ID	Unit Num	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
G52S	DC-G52#S	203	GMF	7/17/23	15:16	31.00		JD
G53L	DC-G53!L	203	GMF		11:56	11.98		KL
G53S	DC-G53#S	203	GMF		11:59	13.70		KL
G55L	DC-G55!L	203	GMF		15:32	19.38		JD
G55S	DC-G55#S	203	GMF		15:31	19.18		JD
G56L	DC-G56!L	203	GMF		9:36	18.15	TD = 25.43	KL
G56S	DC-G56#S	203	GMF		9:33	18.55		KL
G57L	DC-G57!L	203	GMF		9:47	22.35	TD = 29.28	KL
G58L	DC-G58!L	203	GMF		9:51	26.56	TD = 33.81	KL
G58S	DC-G58#S	203	GMF		9:54	26.59		KL
G59L	DC-G59!L	203	GMF		9:57	25.54	TD = 35.32	KL
G59S	DC-G59#S	203	GMF		9:59	33.85		KL
G61S	DC-G61#S	203	GMF		10:14	19.28		KL
G62L	DC-G62!L	203	GMF		10:19	20.79	TD = 33.52	KL
G63L	DC-G63!L	203	GMF		10:22	23.60	TD = 31.02	KL
G63S	DC-G63#S	203	GMF		10:26	24.34		KL
G65L	DC-G65!L	203	GMF		12:35	18.21	TD = 25.16	NW
G65S	DC-G65#S	203	GMF		10:31	18.52		NW
G66L	DC-G66!L	203	GMF		10:45	12.35		NW
G66S	DC-G66#S	203	GMF		10:46	13.01		NW
G67L	DC-G67!L	203	GMF		10:55	11.45		NW
G67S	DC-G67#S	203	GMF		10:58	12.33		NW
G68L	DC-G68!L	203	GMF	↓	11:41	11.97		NW

SAR-3: Episodic Depth to Groundwater Measurements

All DTWs on SAR-3 must be collected within 24 hours.

Plant: DC
Event: DC-23Q3 Rev 0

Well	Unique ID	Unit Num	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
G68S	DC-G68#S	203	GMF	7/17/23	1148	12.85		NW
G69L	DC-G69#L	203	GMF		0941	13.80	TD = 27.86	NW
G69S	DC-G69#S	203	GMF		0933	16.96		NW
G70L	DC-G70#L	203	GMF		0949	16.54		NW
G71L	DC-G71#L	203	GMF		1000	23.71	TD = 32.96	NW
G71S	DC-G71#S	203	GMF		0955	24.48		NW
G72L	DC-G72#L	203	GMF		1005	22.40	TD = 28.02	NW
G73L	DC-G73#L	203	GMF		1025	25.53		NW
L103	DC-L103	204	LF		1515	1.10		AP
OM05S	DC-OM05#S	201-202	AP1/2		1463	18.00	TD = 25.70	AP
OM08	DC-OM08	201-202	AP1/2		1348	14.85	TD = 26.94	AP
OM09	DC-OM09	201-202	AP1/2		1259	4.18		AP
OM10	DC-OM10	201-202	AP1/2		1100	-	not safe to access	AP
OM15	DC-OM15	201-202	AP1/2		1437	21.60	TD = 51.17	AP
OM22S	DC-OM22#S	201-202	AP1/2		1057	41.79 19.31		BG
OM23S	DC-OM23#S	201-202	AP1/2		1235	57.95 41.79	TD = 46.10	AP
OM25D	DC-OM25&D	201-202	AP1/2		1317	49.62 57.95	TD = 77.39	AP
OR03S	DC-OR03#S	201-202	AP1/2		1045	21.65 45.62		BG
OR05D	DC-OR05&D	201-202	AP1/2		1460	6. 21.65	TD = 49.74	AP
OR14S	DC-OR14#S	201-202	AP1/2		1337	33.71 6.82	TD = 24.33	AP
OR18	DC-OR18	201-202	AP1/2		0943	17.32	TD = 53.10	AP
P01L	DC-P01#L	204	LF		0951	10.38	TD = 23.35'	JJ
P01S	DC-P01#S	204	LF	-	0954	10.13	TD = 29.31'	JJ

SAR-3: Episodic Depth to Groundwater Measurements

All DTWs on SAR-3 must be collected within 24 hours.

Plant: DC
Event: DC-23Q3 Rev 0

Well	Unique ID	Unit Numt	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
P01I	DC-P01#I	204	LF	7/17/23	1005	10.05	TD = 46.95	JD
P02S	DC-P02#S	204	LF		1523	14.89	TD = 91.94	JD
P04S	DC-P04#S	204	LF		1329	18.27		JD
P05L	DC-P05!L	204	LF		1335	3.11	TD = 14.92'	JD
P05S	DC-P05#S	204	LF		1337	3.28		JD
P05D	DC-P05&D	204	LF		13:39	6.30	TD = 46.10'	JD
P36L	DC-P36!L	204	LF	¹³⁰⁶ 1024	^{11.17} 6.96	^{TD = 15.09'} TD = 31.713		JD
P36S	DC-P36#S	204	LF		1302	11.33	TD = 31.43'	JD
P36D	DC-P36&D	204	LF		1310	11.57	TD = 51.38	JD
P37L	DC-P37!L	204	LF		1203	13.64		JD
P37D	DC-P37&D	204	LF		1306	15.59		KL
P38L	DC-P38!L	204	LF		1059	17.95	TD = 19.75	JD
P38S	DC-P38#S	204	LF		1057	17.30	TD = 31.42'	JD
P39L	DC-P39!L	204	LF		1024	6.96	TD = 15.09'	JD
P39S	DC-P39#S	204	LF		1031	7.14	TD = 26.25'	JD
P39D	DC-P39&D	204	LF		1028	13.75	TD = 43.58'	JD
P40L	DC-P40!L	204	LF		1359	10.28	TD = 20.44'	JD
P40S	DC-P40#S	204	LF		1401	9.54	TD = 35.42'	JD
P41L	DC-P41!L	204	LF		1117	6.90	TD = 12.00'	JD
P41S	DC-P41#S	204	LF		1119	9.51		KL
P41D	DC-P41&D	204	LF		1123	35.90		KL
P42L	DC-P42!L	204	LF		1216	5.88	TD = 24.30 well is Knocked over	NW
P42S	DC-P42#S	204	LF		1218	5.73	TD = 31.47	NW

SAR-3: Episodic Depth to Groundwater Measurements

All DTWs on SAR-3 must be collected within 24 hours.

Plant: DC
Event: DC-23Q3 Rev 0

Well	Unique ID	Unit Num#	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
P42I1	DC-P42\$I1	204	LF	7/17/23	1536	6.02	TD = 42.22	KL
P42I2	DC-P42%I2	204	LF		1534	32.42	TD = 57.30	KL
P42D	DC-P42&D	204	LF		1221	37.62	TD = 77.07	NW
P52	DC-P52	203	GMF		1514	14.82	TD = 28.26	KL
P57L	DC-P57!L	203	GMF		1517	22.32	TD = 29.27	KL
P57S	DC-P57#S	203	GMF		1520	22.08		KL
P60	DC-P60	203	GMF		1010	24.54	TD = 37.30	KL
P61	DC-P61	203	GMF		1053	10.00	TD = 21.53	KL
P62	DC-P62	203	GMF		1050	10.55	TD = 19.11	KL
P63	DC-P63	203	GMF		1048	14.17	TD = 20.46	KL
P64	DC-P64	203	GMF		1103	14.71	TD = 18.92	KL
R10L	DC-R10!L	204	LF		1154	21.93	27.45' = TD	JD
R11L	DC-R11!L	204	LF		1145	21.37	26.89' = TD ^{soil} _{bottom}	JD
R13L	DC-R13!L	204	LF		1131	21.10	29.88' = TD	JD
R61L	DC-R61!L	203	GMF		1528	19.00	31.45' = TD	KL
R72S	DC-R72#S	203	GMF		1010	22.26	TD = 37.77	NW
T43L	DC-T43!L	204	LF		1238	6.69		JD
T44L	DC-T44!L	204	LF		1243	11.00		JD
T45L	DC-T45!L	204	LF		1246	8.96		JD
T46L	DC-T46!L	204	LF		1258	7.00		JD
X301	DC-X301-leachate	203	GMF		NA	NA	NA	
XTPW02	DC-XTPW02-pore	203	GMF		1530	6.99	Dry	AP

U:6/19/23 GKJ

SAR-3: Episodic Depth to Groundwater Measurements**All DTWs on SAR-3 must be collected within 24 hours.****Plant:** DC**Event:** DC-23Q3 Rev 0

Well	Unique ID	Unit Num	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads

All DTWs on SAR-4 form may be collected at anytime during the sampling event.

Plant: DC
Event: DC-23Q3 Rev 0

Well #	Unique ID	Unit Name	Unit Number	Date	Time	Measured Depth to Water (ft/bmp)	On-site Transducer Data				Comments	Initials
							Data Logger Serial No.	WL Reading on Transducer (ft)	Does Data Match?	Serial No. Logged		
BA01	DC-BA01	BAB	205	7/24/23	11:05	15.79	21615533	yes	179.21	Y	H	KL
BA02	DC-BA02	BAB	205	7/25/23	11:11	12.02	21615636	yes	5.06	Y	H	JR
BA02L	DC-BA02IL	BAB	205	7/24	10:56	Dry	21615682	yes	173.38	Y	H	KL
BA03	DC-BA03	BAB	205	7/31/23	13:40	10.48	21615637	yes	578.34	Y	H	JR
BA03L	DC-BA03IL	BAB	205	7/24	10:09	Dry	21615687	yes	173.24	Y	M	KL
BA04	DC-BA04	BAB	205	7/24/23	12:49	6.99	21615631	yes	573.67	Y	H	JR
BA05	DC-BA05#	BAB	205	7/31/23	13:32	21.36	21615540	yes	572.81	Y	H	JR
BA06	DC-BA06	BAB	205	7/24/23	15:14	25.04	21615525	yes	173.93	Y	H	KL
G02S	DC-G02#S	LF	204	7/25/23	13:16	10.47	21615554	yes	611.07	Y	M	JR
G50S	DC-G50#S	GMF	203	7/27	13:14	15.44	21615535	yes	185.41	Y	H	KL
G51S	DC-G51#S	GMF	203	7/31	13:32	15.33	21615691	yes	183.68	Y	H	KL
G54L	DC-G54IL	GMF	203	7/31	13:41	22.37	21615690	yes	183.09	Y	H	KL
G54S	DC-G54#S	GMF	203	7/31	13:57	23.56	21615684	yes	182.72	Y	H	KL
G57S	DC-G57#S	GMF	203	7/31	13:47	22.26	21615683	yes	182.88	Y	H	KL
G60L	DC-G60IL	GMF	203	7/31	13:59	12.20	21615678	yes	183.39	Y	H	KL
G60S	DC-G60#S	GMF	203	7/31	13:51	24.63	21615677	yes	179.73	Y	H	KL
G64L	DC-G64IL	GMF	203	7/31	13:58	22.83	21615688	yes	190.29	Y	H	KL
G64S	DC-G64#S	GMF	203	7/25/23	15:04	24.18	21615632	yes	600.32	Y	H	JR

SAR-4: Depth to Groundwater Measurements = On-site Transducer Downloads
All DTWs on SAR-4 form may be collected at anytime during the sampling event.

Plant: DC
 Event: DC-23Q3 Rev 0

Well	Unique ID	Unit Name	Unit Number	Date	Time	Measured Depth to Water (ft/bmp)	Data Logger Serial No.	On-site Transducer Data			Comments
								Does Data Match?	Serial No.	Wt. Transducer (ft)	
OM01	DC-OM01	201-AP1/2	7/20/23	10:19	12.08	21615685	YES	583.4573	YES	H	TD - 21.83 ft
OM04S	DC-OM04#S	201-AP1/2	7/25/23	10:50	20.00	21615542	YES	587.37	YES	H	TD35.88
OM07	DC-DM07	201-AP1/2	7/26/23	10:45	12.41	21615541	YES	584.12	YES	H	TD - 29.97
OM12	DC-OM12	201-AP1/2	7/27/23	15:11	17.34	21615527	YES	176.17	YES	H	KJ
OM16	DC-OM16	201-AP1/2	7/24/23	11:30	24.50	21615539	YES	580.61	YES	H	TD = 43.60
OM17	DC-OM17	201-AP1/2	7/24/23	13:30	13.66	21615693	YES	—	—	H	replaced battery
OM21	DC-OM21	201-AP1/2	7/10/23	13:17	10.80	21615593	YES	11.3153	YES	H	TD - 60.57
OM22D	DC-OM22&D	201-AP1/2	7/10/23	11:05	18.85	21615592	YES	580.0543	YES	H	TD - 65.07
OM23D	DC-OM23&D	201-AP1/2	7/21/23	12:22	38.54	21615591	YES	39.76	YES	M	KJ
OM24D	DC-OM24&D	201-AP1/2	7/21/23	12:30	41.90	21615522	YES	broken	NO	—	broken/called broken
OM25S	DC-OM25#S	201-AP1/2	7/26/23	12:51	57.96	21615681	YES	570.79	YES	H	JL
OR02	DC-OR02	201-AP1/2	7/20/23	12:42	6.19	21615679	YES	595.0210	YES	H	TD - 22.28
OR03D	DC-OR03&D	201-AP1/2	7/20/23	14:10	44.44	21615577	YES	583.1047	YES	H	TD
OR04D	DC-OR04&D	201-AP1/2	7/25/23	10:47	21.21	21615570	YES	586.37	YES	H	TD - 68.01
OR06A	DC-OR06#A	201-AP1/2	7/26/23	12:02	14.07	21615692	YES	581.23	YES	H	TD - 26.65
OR11	DC-OR11	201-AP1/2	7/25/23	10:00	31.84	21615686	YES	564.59	YES	H	TD = 41.63
OR13S	DC-OR13#S	201-AP1/2	7/31/23	17:55	—	21615676	YES	588.75	YES	M	JR
OR13D	DC-OR13&D	201-AP1/2	7/26/23	17:42	—	21564135	YES	589.15	YES	H	JR

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads

All DTWs on SAR-4 form may be collected at anytime during the sampling event.

Plant: DC
Event: DC-23Q3 Rev 0

Well	Unique ID	Unit Number	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Data Logger Serial No.	On-site Transducer Data				Comments
								Does Data Match?	Serial No.	WL Reading on Transducer (ft)	Data downloaded?	
OR14D	DC-OR14&D	201	AP1/202	7/24/23	1431	10.52	21615611	Yes	588.34	X	H	
OR19	DC-OR19	201	AP1/202	7/31/23	1210	25.99	21615634	Yes	571.76	Y	H	
OR20	DC-OR20	201	AP1/202	07/24/23	0936	21.95	21615610	Yes	-565.1	Y	H	TP = 52.55
												U: 6/21/23 GKO

Duck Creek

WELL/SAMPLE POINT

BA06

Purge Method:

low flow

Date:

7/24/23

Start Time:

14:21

Finish/Sample Time:

15:34

Well Depth (Bottom) From MP:

Pump ft

Min. Purge Volume:

1.0 Gal / L / mL

Depth to Water From MP:

25.04 ft

Total Purge Volume:

13 Gal / L / mL

Water Column Length:

 ft

Well Water Volume:

 Gal / L

Total Drawdown:

5.94 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	<u>14:34</u>	<u>26.78</u>	<u>100</u>	<u>6.56</u>	<u>3,140</u>	<u>18.78</u>	<u>-28</u>	<u>2.73</u>	<u>5.5</u>
2	<u>14:35</u>	<u>26.75</u>	<u>100</u>	<u>6.53</u>	<u>3,110</u>	<u>18.81</u>	<u>-34</u>	<u>2.61</u>	<u>4.8</u>
3	<u>14:36</u>	<u>27.10</u>	<u>100</u>	<u>6.54</u>	<u>3,140</u>	<u>18.70</u>	<u>-40</u>	<u>2.56</u>	<u>3.3</u>
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

HoriGa

Sample Appearance:

Odor: None Slight Mod. StrongColor: None Slight Mod. StrongTurb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL)
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - Over range mg/LFinal DTW: 30.98 ftComments NASampler's Signature: Keller

Duck Creek

WELL/SAMPLE POINT OM01

Purge Method: peristaltic pump with deionized water

Date: 7/20/2023 Start Time: 1019 Finish/Sample Time: 1235

Well Depth (Bottom) From MP: 27.79 ft 27.83

Min. Purge Volume: — Gal / L / mL

Depth to Water From MP: 12.08 ft

Total Purge Volume: 1000 Gal / L / mL

Water Column Length: 15.75 ft

Well Water Volume: 0.53 Gal (L) Total Drawdown: 11.56 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1037	16.60	100	6.35	3514	19.88	-2.3	1.57	116.02
2	1039	16.64	100	6.35	3514	20.04	7.0	1.43	96.91
3	1041	16.66	100	6.35	3520	20.06	7.4	1.40	89.62
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod Strong

BOTTLE INFORMATION:

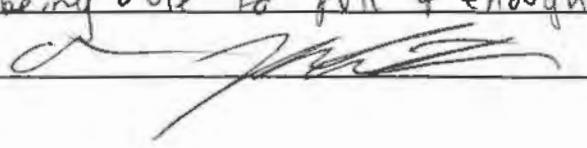
Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3+3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1+1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1+1	General (P, 500mL) <u>1000mL</u>
	Ammonia (P, 250mL, H ₂ SO ₄)
1+1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1+1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
1+1	General (P,500mL) <u>1000mL</u>
3+3	TOC (A,V 40mL, H ₂ SO ₄)

Ferrous Iron - 2.080 mg/L

Final DTW: 23.64 ft

Comments Pump dry filled here Final Bottle (P,1000mL, D:S)
Fill half way due to pump not being able to pull up enough water
Had to pour/recharge

Sampler's Signature: 

Duck Creek

WELL/SAMPLE POINT OM01

Purge Method: Portable pump

Date: 7/25/23 Start Time: 1208 Finish/Sample Time: 1241
 Well Depth (Bottom) From MP: 27.79 ft 27.83 Min. Purge Volume: 1000 Gal / L / mL
 Depth to Water From MP: 12.25 ft Total Purge Volume: 1500 Gal / L / mL
 Water Column Length: 15.58 ft
 Well Water Volume: 9.44 Gal / L Total Drawdown: 7.65 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	ml/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	1220	16.68	100	6.41	3153.2	25.24	30.9	0.93	332.68
2	1221	16.85	100	6.40	3130.1	25.32	31.9	0.91	331.46
3	1222	17.08	100	6.40	3136.5	25.37	32.8	0.89	343.58
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Aquaroll 600

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes		/

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
<u>1+1 dup</u>	General (P, 500 mL)
	Ammonia (P, 250mL, H ₂ SO ₄)
	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
<u>1+1 dup</u>	General (P,500mL)
	TOC (A,V 40mL, H ₂ SO ₄)

Ferrous Iron - mg/L

Final DTW: 19.90 ft

Comments Resamples

Sampler's Signature: Jeanne Dorn

Duck Creek

WELL/SAMPLE POINT OR02

Purge Method: Portable Pump with Dedicated tubing

Date: 7/20/2022 Start Time: 12:42 Finish/Sample Time: 14:00

Well Depth (Bottom) From MP: 22.41 ft 22.28 Min. Purge Volume: — Gal / L / mL

Depth to Water From MP: 6.19 ft Total Purge Volume: 1000 Gal / L / mL

Water Column Length: 16.09 ft

Well Water Volume: 0.73 Gal Total Drawdown: 0.01 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	12:57	6.31	100	6.63	1980	21.64	-37.2	1.32	4550.0
2	12:59	6.31	100	6.62	1971	21.74	-32.5	1.20	3930.8
3	13:01	6.31	100	6.62	1972	21.80	-34.2	1.30	4351.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: A7600

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P,500mL) 1000mL
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) 1000mL
3	TOC (A, V, 40mL, H ₂ SO ₄)

Ferrous Iron - 2.016 mg/L

Final DTW: 6.20 ft

Comments

Sampler's Signature:



Duck Creek

WELL/SAMPLE POINT OR03D **Purge Method:** portable pump with battery backup
 Date: 7/20/2023 Start Time: 1110 Finish/Sample Time: 1130
 Well Depth (Bottom) From MP: 77.77 ft Min. Purge Volume: 19.80 Gal L mL
 Depth to Water From MP: 44.94 ft Total Purge Volume: 4000 Gal L mL
 Water Column Length: 32.74 ft
 Well Water Volume: 16.80 Gal L Total Drawdown: 0.43 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1046	45.25	100	7.21	3600	15.59	-19	3.59	646
2	1053	45.31	100	7.03	3880	15.57	-17	3.45	>1000
3	1107	45.35	100	6.95	4020	15.51	-14	3.40	>1000
4		45.35	/						
5		/	/						
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
1	VOAs (C,V, 40mL, HCl)
1	VOAS (C,V, 40mL)
1	Organics (A,G,U 1000mL)
1	Organics (A,G,U 500mL)
1	TOC (A,V 40mL, H ₂ SO ₄)
3	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
1	Cyanide (P, 250mL, NaOH)
1	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500mL) <u>1000mL</u>
1	Ammonia (P,250 mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>1000mL</u>
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 5.539 mg/L

Final DTW: 45.37 ft

Comments 7/20/23 Attempted to sample, but pump wasn't purging

Sampler's Signature:

APP 7/20/23

SGR

Duck Creek

WELL/SAMPLE POINT OR04D

Purge Method: Portable pump

Date: 7/25/23 Start Time: 1050 Finish/Sample Time: 1203
 Well Depth (Bottom) From MP: 50 ft 68.01 Min. Purge Volume: 1000 Gal / L / mL
 Depth to Water From MP: 21.21 ft Total Purge Volume: 2500 Gal / L / mL
 Water Column Length: 46.80 ft
 Well Water Volume: 28.34 Gal / L Total Drawdown: 0.01 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	1105	21.22	100	6.75	5239.9	21.32	-28.4	0.43	2245.7
2	1106	21.22	100	6.74	5223.3	21.34	-28.8	0.43	2134.4
3	1107	21.22	100	6.73	5279.8	21.29	-30.2	0.43	2150.6
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquaform 600

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes		/

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL)
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 5.838 mg/L

Final DTW: 21.22 ft

Comments

Sampler's Signature: Jane D

Duck Creek

WELL/SAMPLE POINT	OM04S	Purge Method:	Portable pump
Date:	7/25/23	Start Time:	1300
			Finish/Sample Time: 1424
Well Depth (Bottom) From MP:	35.85 ft	Min. Purge Volume:	1000 Gal / L / ml
Depth to Water From MP:	24.00 ft	Total Purge Volume:	1400 Gal / L / ml
Water Column Length:	15.85 ft		
Well Water Volume:	962 Gal	Total Drawdown:	9.15 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1312	26.01	100	6.77	1207.2	21.16	-4.2	0.36	120.22
2	1313	26.05	100	6.76	1208.8	21.21	-2.8	0.97	122.57
3	1314	26.10	100	6.74	1208.0	21.25	-1.9	0.96	121.54
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Aquatell 600

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P, 250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL)
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

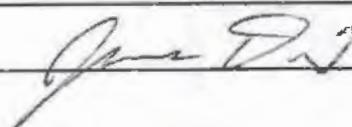
Filtered	
Qty	Bottles
1	Metals (P, 250mL, HNO ₃)
1	Ammonia (P, 250mL, H ₂ SO ₄)
1	General (P, 500mL)
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 1.742 mg/L

Final DTW: 29.15 ft

Comments

Sampler's Signature:



Duck Creek

WELL/SAMPLE POINT OR06A

Purge Method: Boiler

Date: 7/26/23 Start Time: 1202 Finish/Sample Time: 1233

Well Depth (Bottom) From MP: 25.65 ft Min. Purge Volume: 22 Gal (C) mL

Depth to Water From MP: 14.07 ft Total Purge Volume: 22 Gal (D) mL

Water Column Length: 11.58 ft

Well Water Volume: 7.01 Gal (C) Total Drawdown: 0.01 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	1212	14.07	-	6.78	2037.6	20.57	-17.7	2.28	547.07
2	1214	14.07	-	6.82	3088.3	18.12	-31.5	2.41	355.65
3	1217	14.07	-	6.81	3301.0	18.46	-32.8	2.45	382.18
4									
5					49.13				
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AquaTroll Goo

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes		/

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL)
	Ammonia (P, 250 mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 6.081 mg/L

Final DTW: 14.08 ft

Comments Portable pump doesn't pump water all the way up. Used boiler.

Sampler's Signature: Jean Dwyer

Duck Creek

WELL/SAMPLE POINT OM07

Purge Method: Portable pump

Date: 7/26/23 Start Time: 1045 Finish/Sample Time: 1152
 Well Depth (Bottom) From MP: 30 Min. Purge Volume: 1000 Gal / L ml
 Depth to Water From MP: 29.97 Total Purge Volume: 1300 Gal / L ml
 Water Column Length: 12.41 ft
 Well Water Volume: 10.63 Gal / L Total Drawdown: 0.24 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1057	12.60	100	6.90	1095.1	21.70	-21.0	1.45	242.82
2	1058	12.60	100	6.89	1101.6	21.75	-21.8	1.41	288.98
3	1059	12.60	100	6.88	1100.8	21.80	-22.2	1.39	318.92
4						21.24			
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aneroid 600

Sample Appearance:

Odor: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes		/

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL)
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 1.566 mg/L

Final DTW: 12.65 ft

Comments

Sampler's Signature: Jean Doty

Duck Creek

WELL/SAMPLE POINT OR11

Purge Method: Bottle

Date: 7/26/23 Start Time: 0940 Finish/Sample Time: 1010
 Well Depth (Bottom) From MP: 30 ft 7/26/23 Min. Purge Volume: 18 Gal (L)/mL
 Depth to Water From MP: 31.84 ft Total Purge Volume: 18 Gal (L)/mL
 Water Column Length: 9.79 ft
 Well Water Volume: 5.93 Gal (L) Total Drawdown: 0.07 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	0948	31.89	—	7.04	1089.0	16.53	13.4	2.07	353.59
2	0953	31.90	—	7.01	1204.0	16.08	2.1	2.26	426.52
3	0956	31.89	—	7.02	1213.8	15.21	2.8	2.90	533.80
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field-Meter: Aguntroll 600

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes		/

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL)
	Ammonia (P, 250mL, H ₂ SO ₄)
	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 0.871 mg/L

Final DTW: 31.91 ft

Comments Portable pump wouldn't pump water all the way up. Used boaters

Sampler's Signature: Jean Dill

Duck Creek

WELL/SAMPLE POINT OM12

Purge Method: Bailier

Date: 7/27/23 Start Time: 15:18 Finish/Sample Time: 016:02

Well Depth (Bottom) From MP: 43.19 ft Min. Purge Volume: 15 Gal / L / mL

Depth to Water From MP: 17.31 ft Total Purge Volume: 45 Gal / L / mL

Water Column Length: 25.88 ft

Well Water Volume: 4.14 Gal / L Total Drawdown: 0.21 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	15:27	20.15		7.30	1850.5	19.89	-101.8	2.41	95.70
2	15:35	20.40		7.47	1903.1	19.69	-87.3	2.58	95.82
3	15:43	20.35		7.28	1937.0	19.90	-87.0	2.38	100.34
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Agratoll 600

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes		✓

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL)
	Ammonia (P,250mL H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
1	Bottles
	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - over range mg/L

Final DTW: 17.55 ft

Comments: N/A

Sampler's Signature: M. M. W.

Duck Creek

WELL/SAMPLE POINT OR13DPurge Method: Submersible pumpDate: 7/20/23 Start Time: 11:45 Finish/Sample Time: 13:15Well Depth (Bottom) From MP: 50.23 ft Min. Purge Volume: 1.0 Gal L/mLDepth to Water From MP: 13.35 ft Total Purge Volume: 1.3 Gal L/mLWater Column Length: 36.88 ftWell Water Volume: 22.30 Gal L Total Drawdown: 0.0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1204		100	6.63	1870	24.99	-68	0.65	>1000
2	1207		100	6.63	1850	24.85	-69	0.52	>1000
3	1208	13.37	100	6.63	1850	24.85	-69	0.49	>1000
4						-16.23			
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: None Slight Mod. StrongColor None Slight Mod. StrongTurb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3+3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1+1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1+1	General (P, 500mL) 1L
	Ammonia (P, 250mL, H ₂ SO ₄)
1+1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1+1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
1+1	General (P,500mL) 1L
3+3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 2.731 mg/LFinal DTW: 13.35 ft

Comments

Sampler's Signature: Joseph R. Red

Duck Creek

WELL/SAMPLE POINT OR13D

Purge Method: Submersible

Date: 8/10/23

OR13D

Start Time: 1325

Finish/Sample Time: 358

Well Depth (Bottom) From MP: 50.23 ft

Min. Purge Volume: 10 Gal / L / mL

Depth to Water From MP: 13.49 ft

Total Purge Volume: 3 Gal / L / mL

Water Column Length: 36.79 ft

Well Water Volume: 22.22 Gal.

Total Drawdown: 0.0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1336	13.49	100	6.91	1780	15.99	-50	1.11	20.8
2	1337	13.49	100	6.89	1790	15.86	-50	0.94	21.1
3	1338	13.49	100	6.82	1810	15.70	-50	0.76	14.3
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horiba

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod Strong

BOTTLE INFORMATION:

Final DTW: 13,49 ft

Comments

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT OR13S

Purge Method: B Submersible pump

Date: 7/20/23 Start Time: 10:00 Finish/Sample Time: 11:42

Well Depth (Bottom) From MP: 29.55 ft Min. Purge Volume: 1.0 Gal L mL

Depth to Water From MP: 13.52 ft Total Purge Volume: 1.3 Gal / L / mL

Water Column Length: 16.03 ft

Well Water Volume: 9.70 Gal L Total Drawdown: .03 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	11:12	+3 19.55	100	6.45	2110	20.91	-23	2.35	541
2	11:13	13.53	100	6.47	2110	20.99	-27	2.20	528
3	11:14	13.55	100	6.49	2110	20.99	-33	2.11	530
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance: JR

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500mL) <u>1L</u>
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>1L</u>
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 0.320 mg/L

Final DTW: 13.55 ft

Comments

Sampler's Signature: Joseph Rant

Duck Creek

WELL/SAMPLE POINT OR14D

Purge Method: Portable pump

Date: 7/24/23 Start Time: 1428 Finish/Sample Time: 1531

Well Depth (Bottom) From MP: 48.78 ft Min. Purge Volume: 1.0 Gal L/mL

Depth to Water From MP: 10.52 ft Total Purge Volume: 2.2 Gal L/mL

Water Column Length: 38.26 ft

Well Water Volume: 23.17 Gal L Total Drawdown: 0.23 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1442	10.65	100	6.74	2620.3	19.30	-92.0	0.33	3747.2
2	1443	10.65	100	6.73	2626.3	19.34	-90.0	0.35	3314.2
3	1445	10.66	100	6.72	2624.3	19.38	-96.3	0.35	2923.7
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Aqua 7000

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes		/

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL)
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 3.28 mg/L

Final DTW: 10.75 ft

Comments _____

Sampler's Signature:

John Dm

Duck Creek

WELL/SAMPLE POINT OM16

Purge Method: Portable pump

Date: 7/24/23 Start Time: 1130 Finish/Sample Time: 1245

Well Depth (Bottom) From MP: 43.60 ft Min. Purge Volume: 1000 Gal / L / mL

Depth to Water From MP: 24.50 ft Total Purge Volume: 2,1 Gal / L / mL

Water Column Length: 19.10 ft

Well Water Volume: 11.57 Gal / L Total Drawdown: 4.03 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1147	28.10	100	6.52	3965.2	17.79	-2.2	0.40	1777.1
2	1148	28.13	100	6.51	3986.5	17.83	-0.4	0.39	1414.1
3	1149	28.10	100	6.50	3986.2	17.89	0.5	0.45	1093.5
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

AquaPro II 600

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL)
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 1.509 mg/L

Final DTW: 28.53 ft

Comments Loose mud

Sampler's Signature: Jeanne

Duck Creek

WELL/SAMPLE POINT OM17

Purge Method: Portable Pump

Date: 7/27/23 Start Time: 1335 Finish/Sample Time: 1515 7/25/23
 Well Depth (Bottom) From MP: 17.35 ft Min. Purge Volume: 1000 Gal/L/mL
 Depth to Water From MP: 13.66 ft Total Purge Volume: 1400 Gal/L/mL
 Water Column Length: 3.69 ft
 Well Water Volume: 2.23 Gal/L Total Drawdown: 3.69 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	µmhos/cm	deg C	mV	mg/L	NTU
1	1347	15.10	100	6.76	1093.2	19.53	-39.4	0.51	2123.8
2	1350	15.10	100	6.76	1089.2	19.47	-29.5	0.50	1913.9
3	1351	15.10	100	6.76	1091.8	19.45	-28.8	0.49	1843.9
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Aquatrill 600

Sample Appearance:

Odor: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes		/

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL)
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
	General (P,500mL)
2	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 0.846 mg/L

Final DTW: 17.35 ft

Comments: DTW during draw was top of pump. Not enough water to pump through portable pump

7/25/23 1500 DTW: 15.11 Sampler's Signature: Jewell Dwyer

sampled w/ transfer due to low water volume

Well ran dry, very slow recharge

Duck Creek

WELL/SAMPLE POINT

OR19

Purge Method:

Submersible pumpDate: 7/31/23Start Time: 1210Finish/Sample Time: 1327Well Depth (Bottom) From MP: 55.03 ftMin. Purge Volume: 1.0 Gal / L / mLDepth to Water From MP: 25.99 ftTotal Purge Volume: 1.3 Gal / L / mLWater Column Length: 29.04 ftWell Water Volume: 17.56 Gal / LTotal Drawdown: 0.10 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	12 26	26.00	100	6.73	2720	20.84	-41	1.71	>1000
2	12 27	26.09	100	6.70	2710	20.80	-40	1.60	>1000
3	12 28	26.00	100	6.69	2710	20.81	-41	1.51	>1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Herr, bg

Sample Appearance:

Odor: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

Color: None Slight Mod. StrongTurb: None Slight Mod. Strong**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL)
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - Overrange mg/L

Final DTW: 26.09 ft

Comments

Sampler's Signature:

Joseph R. Radt

Duck Creek

WELL/SAMPLE POINT OR20

Purge Method: Portable pump

Date: 7/24/13 Start Time: 1000 Finish/Sample Time: 1110

Well Depth (Bottom) From MP: 57.55 ft Min. Purge Volume: 1.0 Gal / 0 mL

Depth to Water From MP: 21.95 ft Total Purge Volume: 2.0 Gal / 0 mL

Water Column Length: 35.60 ft

Well Water Volume: 21.56 Gal 0 Total Drawdown: 0.06 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1015	22.00	100	6.85	2511.0	18.06	-42.1	0.30	6217.7
2	1016	22.00	100	6.85	2511.3	18.03	-42.2	0.33	5561.5
3	1017	22.01	100	6.85	2509.3	18.11	-42.2	0.34	4248.3
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Aquatell 600

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL)
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - mg/L

Final DTW: 22.0 ft

Comments 50/46% Iron = 2.271 ppm

Sampler's Signature:

John Dr

Duck Creek

WELL/SAMPLE POINT OM21 Purge Method: portable pump with
deteriorating tubing
 Date: 7/16/2023 Start Time: 1337 Finish/Sample Time: 1505
 Well Depth (Bottom) From MP: 60.55 ft Min. Purge Volume: — Gal / L / mL
 Depth to Water From MP: 10.80 ft Total Purge Volume: 1000 Gal / L / mL
 Water Column Length: 44.77 ft
 Well Water Volume: 30.10 Gal Total Drawdown: 0.20 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	1359	10.97	100	6.47	3319	18.67	-39.7	2.65	1908.5
2	1401	10.99	100	6.47	3311	18.83	-46.0	2.56	2110.7
3	1403	11.00	100	6.47	3344	18.77	-47.6	2.69	1818.6
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

A7600

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500mL) <u>1000mL</u>
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

(11)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ S0 ₄)
1	General (P,500mL) <u>1000mL</u>
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - Over range mg/L

Final DTW: 11.00 ft

Comments

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT OM22D

Purge Method:

portable pump with dedicated tubing

Date: 7/19/2023 Start Time: 1105 Finish/Sample Time: 1242

Well Depth (Bottom) From MP: 65.40 ft 65.07 Min. Purge Volume: — Gal / L / mL

Depth to Water From MP: 18.85 ft Total Purge Volume: 1000 Gal / L / mL

Water Column Length: 46.22 ft

Well Water Volume: 27.05 Gal Total Drawdown: 0.02 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1138	18.90	100	6.70	3859	18.50	5.3	2.71	5,747.5
2	+3 1140	18.90	100	6.69	3887	18.63	3.9	2.62	5884.4
3	1142	18.90	100	6.68	3907	18.66	2.2	2.58	6542.5
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: A1600

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P, 250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500mL) 1000 mL
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P, 250mL, HNO ₃)
1	Ammonia (P, 250mL, H ₂ SO ₄)
1	General (P, 500mL) 1000 mL
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 3.322 mg/L

Final DTW: 18.87 ft

Comments

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT OM23D

Purge Method: Bailer

Date: 7/27/23 Start Time: 15:12:25 Finish/Sample Time: 14:12

Well Depth (Bottom) From MP: 82.91 ft Min. Purge Volume: 26.83 Gal / L / mL

Depth to Water From MP: 38.54 ft Total Purge Volume: 90.5 Gal / L / mL

Water Column Length: 44.37 ft

Well Water Volume: 26.83 Gal / L Total Drawdown: 1.14 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	12:48	39.00	27 bail	6.32	1590	15.91	-6	9.00	98.6
2	13:05	39.39	27 bail	6.33	1600	14.09	-16	8.76	100
3	13:21	39.39	27 bail	6.34	1610	14.33	-20	8.68	113
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely	X	
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

Unfiltered		Filtered	
Qty	Bottles	Qty	Bottles
	VOAs (C,V, 40mL, HCl)		Metals (P, 250mL, HNO3)
	VOAS (C,V, 40mL)		Ammonia (P, 250mL, H2SO4)
	Organics (A,G,U 1000mL)		General (P, 500mL)
	Organics (A,G,U 500mL)		TOC (A,V, 40mL, H2SO4)
3	TOC (A,V 40mL, H2SO4)		
	TOX (A,G 500mL, H2SO4)		
1	Metals (P, 250mL, HNO3)		
	Cyanide (P, 250mL, NaOH)		
	Phenols (A,G, 250mL, H2SO4)		
1	General (P, 500 mL)		
	Ammonia (P, 250mL, H2SO4)		
1	Rad (P, 2.5L, HNO3)		

Comments

Sampler's Signature: Joseph A. Paul

Ferrous Iron - 2.502 mg/L

Final DTW: 39.68 ft

Duck Creek

WELL/SAMPLE POINT OM24D Purge Method: Submersible pump
 Date: 7/27/23 Start Time: 1428 Finish/Sample Time: 1540
 Well Depth (Bottom) From MP: 19.66 ft Min. Purge Volume: 1.0 Gal / L / mL
 Depth to Water From MP: 4.90 ft Total Purge Volume: 1.3 Gal / L / mL
 Water Column Length: 14.76 ft
 Well Water Volume: 8.93 Gal Total Drawdown: 0.95 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1448	4.92	100	6.31	2620	28.80	-61	2.03	732
2	1449	4.92	100	6.31	2630	28.80	-61	1.94	717
3	1450	4.12	100	6.32	2640	28.78	-61	1.90	710
4	-								
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horiba

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL)
	Ammonia (P,250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - Over range mg/L

Final DTW: 4.95 ft

Comments

Sampler's Signature:

Joseph A Reed

Duck Creek

WELL/SAMPLE POINT OM25S

Purge Method: Bs./er

Date: 7/26/23 Start Time: 1251 Finish/Sample Time: 1330

Well Depth (Bottom) From MP: 63.97 ft Min. Purge Volume: 8 Gal L / mL

Depth to Water From MP: 57.96 ft Total Purge Volume: 8 Gal L / mL

Water Column Length: 6.01 ft

Well Water Volume: 3.64 Gal / L Total Drawdown: 0.79 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1301		—	6.89	5100.5	19.84	-10.7	1.70	657.92
2	1306		—	6.87	3225.1	18.34	0.9	1.82	448.74
3									
4						14.07			
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatrol 600

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes		/

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL)
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL)
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 1.370 mg/L

Final DTW: 58.75 ft

Comments: Purged 2 volumes due to slow recharge
Used Buoy

Sampler's Signature: Jane Dr

Multiparameter Meter Field Calibration Checklist

Field Personnel:	JD NW			Location:	Vista Duck Creek		
Weather:	13-79% cloudy wind NNW 5 mph			Environment:	Grass		

Multiparameter Water Meter	Make:	Aquatrol	Model:	600	Serial Number:	480944		
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Water Level Meter	Make:	Heron	Model:	dipper	Serial Number:	11FF2209305ML		
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Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	Pass	No	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.05	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.05	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	0.00	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1973.3	µS/cm	±5%				Geotech	3GA1071	Jan-24
ORP	225.3	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.00	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	97.95	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	09:20			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.13	s.u.	±0.15 s.u.	Pass	N/A		Geotech	2GE870	Mar-24
pH 7.00b	7.07	s.u.	±0.15 s.u.		N/A		Geotech	2GC931	Mar-24
pH 10.00b	9.91	s.u.	±0.15 s.u.		N/A		Geotech	2GE820	May-24
SC 1000	980.90	µS/cm	±5%		N/A		Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1546			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.10	s.u.	±0.1 s.u.	Pass	No	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.08	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.99	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	947.20	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.08	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	Nicole Welch	Date:	7/18/23
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36A526
Oct 23
7/21

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Brendan Gilman		Location:	Duck Creek Power Station	
Weather:	70° Cloudy 3 mph W		Environment:	Grass field	
Multiparameter Water Meter	Make:	AC	Model:	600	Serial Number:
Water Level Meter	Make:	Heron	Model:	2001	Serial Number:
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?
pH 4.00a	4.05	s.u.	±0.1 s.u.	P	N
pH 7.00a	6.96	s.u.	±0.1 s.u.		
pH 10.00a	9.01	s.u.	±0.1 s.u.		
SC Zero (DI)	5.38	µS/cm	0<25 µS/cm		
SC 2000	1950.5	µS/cm	±5%		
ORP	221.0	mV	±15 mV		
DO (Zero pt)	0.07	mg/L	±0.1		
DO (Saturated)	99.77	%	97-100%		
Turbidity (DI)	0.0	NTU	<2 NTU		

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.05	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	May-24
pH 7.00b	6.83	s.u.	±0.15 s.u.	F	✓ - 7.00	Geotech	2GF113	Jun-24
pH 10.00b	9.85	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE820	May-24
SC 1000	1012.6	µS/cm	±5%	I	I	Ricca	4209A12	Aug-23

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
pH 7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Only 1 well

Signature:	Brendan Gilman	Date:	7/18/23
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Wren			Location:	Duck Creek				
Weather:	81° Sunny			Environment:	Dry				
Multiparameter Water Meter	Make:	Heron	Model:	v-500	Serial Number:	PW2GyD3			
Water Level Meter	Make:	Heron	Model:	Water Tape	Serial Number:	19PF2111921B			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.98	s.u.	± 0.1 s.u.	P	Yes	3.98	MSI	L344-09	12/14/2023
pH 7.00a	6.98	s.u.	± 0.1 s.u.	F	Yes	6.98	MSI	L343-07	12/9/2023
pH 10.00a	9.99	s.u.	± 0.1 s.u.	F	No	9.99	MSI	M082-04	3/25/2024
SC Zero (DI)	20.10	$\mu\text{s}/\text{cm}$	<25 $\mu\text{s}/\text{cm}$				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2030	$\mu\text{s}/\text{cm}$	$\pm 5\%$				Geotech	3GA1071	Jan-24
ORP	214	mV	± 15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	± 0.1				Macron	#000228049	8/26/2025
DO (Saturated)	97.60	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time: 16:09				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00b	3.89	s.u.	± 0.15 s.u.	F	Na		Geotech	2GE870	Mar-24
pH 7.00b	6.87	s.u.	± 0.15 s.u.	F			Geotech	2GC931	Mar-24
pH 10.00b	9.88	s.u.	± 0.15 s.u.	F			Geotech	2GE820	May-24
SC 1000	1,010	$\mu\text{s}/\text{cm}$	$\pm 5\%$	F			Ricca	4207N97	Jul-24
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time: Na				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a		s.u.	± 0.1 s.u.				MSI	L344-09	12/14/2023
pH 7.00a		s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a		s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		$\mu\text{s}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time: 16:09				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.09	s.u.	± 0.1 s.u.	F	Na		MSI	L344-09	12/14/2023
7.00a	6.97	s.u.	± 0.1 s.u.	F			MSI	L343-07	12/9/2023
10.00a	9.87	s.u.	± 0.1 s.u.	F			MSI	M082-04	3/25/2024
SC 1000	1,010	$\mu\text{s}/\text{cm}$	$\pm 5\%$	F			Ricca	4207N97	Jul-24
DO (Zero pt)	0.04	mg/L	± 0.1 mg/L	F			Macron	#000228049	8/26/2025
Turbidity (DI)	0	NTU	<2 NTU	F			Pace Labs	N/A (DI)	N/A (DI)
Comments: Na									
Signature:	Kellen			Date:	7-18-23				

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Remberger		Location:	Duck Creek					
Weather:	69°-80° F mostly cloudy wind NE 3 mph			grass, dirt, dust					
Multiparameter Water Meter	Make:	A-T	Model:	600	Serial Number:	762215			
Water Level Meter	Make:	Heron	Model:	Dipper	Serial Number:	3717-7			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	P	No	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.98	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.98	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	19.00	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1002.7	µS/cm	±5%				Geotech	3GA1071	Jan-24
ORP	225.7	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.00	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	100.00	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.23	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	0925			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	3.00	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	Mar-24	
pH 7.00b	6.87	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24	
pH 10.00b	9.95	s.u.	±0.15 s.u.			Geotech	2GE820	May-24	
SC 1000	1005.3	µS/cm	±5%			Ricca	4207N97	Jul-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1500			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	±0.1 s.u.	P	No	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.02	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.10	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1033.7	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.00	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	7/18/2023
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aeran Remberton			Location:	Rock Creek Woods, farm field				
Weather:	71°-86°F sunny wind SE Gmph			Environment:					
Multiparameter Water Meter	Make:	AI	Model:	600	Serial Number:	739449			
Water Level Meter	Make:	Heron	Model:	Dipper T	Serial Number:	3717-1			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.96	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L343-07	12/9/2023
pH 10.00a	9.92	s.u.	±0.1 s.u.	P	NO	N/A	MSI	M082-04	3/25/2024
SC Zero (DI)	15.16	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1697.4	µS/cm	±5%				Geotech	3GA1071	Jan-24
ORP	225.6	mV	±15 mV				InSitu	2G1762	Jun-23
DQ (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	10.33	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)

Time: 0655

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.02	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	Mar-24
pH 7.00b	6.96	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC931	Mar-24
pH 10.00b	9.91	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE820	May-24
SC 1000	166.07	µS/cm	±5%	P	N/A	Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):

Time: 1530

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.06	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.03	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L343-07	12/9/2023
pH 10.00a	10.09	s.u.	±0.1 s.u.	P	NO	N/A	MSI	M082-04	3/25/2024
SC 1000	1004.8	µS/cm	±5%	P	NO	N/A	Ricca	4207N97	Jul-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L	P	NO	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	NTU	<2 NTU	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):

Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	7/19/2023
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	NW			Location:	Dutch Creek				
Weather:	Sunny wind ESE 10 mph 75-88 °F			Environment:	Grass				
Multiparameter Water Meter	Make:	4quattro			Model:	600	Serial Number:	480944	
Water Level Meter	Make:	Huron			Model:	dipper	Serial Number:	11FF2209305ML	
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	P	N	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.	P	1	1	MSI	L343-07	12/9/2023
pH 10.00a	9.93	s.u.	±0.1 s.u.	P	1	1	MSI	M082-04	3/25/2024
SC Zero (DI)	0.00	µS/cm	0<25 µS/cm	P	—	—	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1833.7	µS/cm	±5%	F	yes	2001.9	Geotech	3GA1071	Jan-24
ORP	220.4	mV	±15 mV	F	N	N/A	InSitu	261762	Jun-23
DO (Zero pt)	0.09	mg/L	±0.1	P	—	—	Macron	#000228049	8/26/2025
DO (Saturated)	97.3	%	97-100%	P	1	1	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU	P	—	—	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 10:00			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.00	s.u.	±0.15 s.u.	P	N	Geotech	2GE870	Mar-24
pH 7.00b	7.00	s.u.	±0.15 s.u.	F	calibrate - 7.00	Geotech	2GC931	Mar-24
pH 10.00b	9.99	s.u.	±0.15 s.u.	P	N	Geotech	2GE820	May-24
SC 1000	1800	µS/cm	±5%	F	calibrate - 1000.0	Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 14:50				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.17	s.u.	±0.1 s.u.	F	XS	4.00	MSI	L344-09	12/14/2023
pH 7.00a	7.17	s.u.	±0.1 s.u.	F	N/S	0.99	MSI	L343-07	12/9/2023
pH 10.00a	9.97	s.u.	±0.1 s.u.	P	N	N/A	MSI	M082-04	3/25/2024
SC 1000	170	µS/cm	±5%	P	—	—	Ricca	4207N97	Jul-24
DO (Zero pt)	0.03	mg/L	±0.1 mg/L	P	—	—	Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	NTU	<2 NTU	P	—	—	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	Nicole Welch	Date:	7/19/23
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Oct 23
7/19

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Brenden Gilenan			Location:	Duck Creek				
Weather:	82° Mostly Sunny 7 mph SE			Environment:	Grass Field				
Multiparameter Water Meter	Make:	AquaTroll	Model:	600	Serial Number:	762193			
Water Level Meter	Make:	Heron	Model:	200 ft. Draft	Serial Number:	19FF2111192HB			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	P	N	N/A	MSI	023067-01	3/14/2025
pH 7.00a	6.97	s.u.	±0.1 s.u.	P	N	N/A	MSI	023051-02	2/21/2025
pH 10.00a	9.01	s.u.	±0.1 s.u.	P	N	N/A	MSI	022361-01	12/27/2024
SC Zero (DI)	0.55	µS/cm	<25 µS/cm	P	N	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1768.6	µS/cm	±5%	F	Y	3000.0	Geotech	3GA1071	Jan-24
ORP	305.1	mV	±15 mV	F	Y	229.0	InSitu	3GD927	Jan-24
DO (Zero pt)	0.04	mg/L	±0.1	P	N	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	97.78	%	97-100%	P	N	N/A	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.76	NTU	<2 NTU	P	N	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	0930			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.04	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	May-24	
pH 7.00b	6.59	s.u.	±0.15 s.u.	P	N/A	Geotech	2GF113	Jun-24	
pH 10.00b	9.46	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE820	May-24	
SC 1000	1000.06	µS/cm	±5%	P	N/A	Ricca	4209A12	Aug-23	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	10:19			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.10	s.u.	±0.1 s.u.	P	N	N/A	MSI	023067-01	3/14/2025
pH 7.00a	6.93	s.u.	±0.1 s.u.	P	Y	7	MSI	023051-02	2/21/2025
pH 10.00a	9.91	s.u.	±0.1 s.u.	P	Y	10	MSI	022361-01	12/27/2024
SC 1000	1128.1	µS/cm	±5%	F	Y	1000.0	Ricca	4209A12	Aug-23
DO (Zero pt)	0.09	mg/L	±0.1 mg/L	P	NO	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	12.20	NTU	<2 NTU	F	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments: No turb cal solution available

Signature:	Brenden Gilenan	Date:	7/20/23
	Nicole Welch		

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane			Location:	DVCK Creek				
Weather:	83° Sunsh			Environment:	wet				
Multiparameter Water Meter	Make:	HoriBa	Model:	V-5000	Serial Number:	123456789 PWGJJD3			
Water Level Meter	Make:	Heron	Model:	water tape	Serial Number:	19FP2202131ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.06	s.u.	±0.1 s.u.	P	No	No	MSI	L344-09	12/14/2023
pH 7.00a	7.03	s.u.	±0.1 s.u.	P	No	No	MSI	L343-07	12/9/2023
pH 10.00a	10.05	s.u.	±0.1 s.u.	P	No	No	MSI	M082-04	3/25/2024
SC Zero (DI)	13.00	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000	µS/cm	±5%				Geotech	3GA1071	Jan-24
ORP	216	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.04	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.00	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	09:34			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.07	s.u.	±0.15 s.u.	P	No	Geotech	2GE870	Mar-24	
pH 7.00b	7.02	s.u.	±0.15 s.u.	P	No	Geotech	2GC931	Mar-24	
pH 10.00b	10.13	s.u.	±0.15 s.u.	P	No	Geotech	2GE820	May-24	
SC 1000	1000	µS/cm	±5%	P	No	Ricca	4207N97	Jul-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	No			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
pH 7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	15:29			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.08	s.u.	±0.1 s.u.	P	No	No	MSI	L344-09	12/14/2023
7.00a	7.06	s.u.	±0.1 s.u.	P	No	No	MSI	L343-07	12/9/2023
10.00a	10.05	s.u.	±0.1 s.u.	P	No	No	MSI	M082-04	3/25/2024
SC 1000	1000	µS/cm	±5%	P	No	No	Ricca	4207N97	Jul-24
DO (Zero pt)	0.04	mg/L	±0.1 mg/L	P	No	No	Macron	#000228049	8/26/2025
Turbidity (DI)	0	NTU	<2 NTU	P	No	No	Pace Labs	N/A (DI)	N/A (DI)

Comments:

NA

Signature:	K. Bell	Date:	7-20-2023
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3GIA524
Oct 23
W-721

Multiparameter Meter Field Calibration Checklist

Field Personnel:	<i>Aaron Pemberton</i>			Location:	Duck creek				
Weather:	80°-88° Wind NW 7 mph <i>Sunny</i>			Environment:	grass, dirt, trees				
Multiparameter Water Meter	Make:	Heron	Model:	600	Serial Number:	739449			
Water Level Meter	Make:	Heron	Model:	Dipper I	Serial Number:	3717-T			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.05</i>	s.u.	±0.1 s.u.	<i>P</i>	No	<i>N/A</i>	MSI	L344-09	12/14/2023
pH 7.00a	<i>7.00</i>	s.u.	±0.1 s.u.	<i>P</i>			MSI	L343-07	12/9/2023
pH 10.00a	<i>10.03</i>	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	<i>12.31</i>	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>1945.6</i>	µS/cm	±5%				Geotech	3GA1071	Jan-24
ORP	<i>223.0</i>	mV	±15 mV				InSitu	261762	Jun-23
DO (Zero pt)	<i>0.06</i>	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	<i>99.87</i>	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.00</i>	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time:	<i>0910</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00b	<i>4.03</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	<i>N/A</i>	Geotech	2GE870	Mar-24
pH 7.00b	<i>7.05</i>	s.u.	±0.15 s.u.	<i>P</i>			Geotech	2GC931	Mar-24
pH 10.00b	<i>10.07</i>	s.u.	±0.15 s.u.				Geotech	2GE820	May-24
SC 1000	<i>1945.85</i>	µS/cm	±5%				Ricca	4207N97	Jul-24
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:	<i>1500</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.07</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>No</i>	<i>N/A</i>	MSI	L344-09	12/14/2023
pH 7.00a	<i>7.02</i>	s.u.	±0.1 s.u.	<i>P</i>			MSI	L343-07	12/9/2023
pH 10.00a	<i>10.00</i>	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	<i>1949.86</i>	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	<i>0.07</i>	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.00</i>	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Comments:									
Signature:	<i>[Signature]</i>			Date:	<i>7/20/2023</i>				

Multiparameter Meter Field Calibration Checklist

Field Personnel:	JD			Location:	Vista Duck Creek				
Weather:	78-90°F p. cloudy wind W 8-13 mph			Environment:	HFF HFF2209305ML grass				
Multiparameter Water Meter	Make:	Aquatroll	Model:	600	Serial Number:	762215			
Water Level Meter	Make:	Heron	Model:	Dipper-T	Serial Number:	11FF2209305ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	± 0.1 s.u.	pass	No	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.00	s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.02	s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	9.67	$\mu\text{S}/\text{cm}$	0<25 $\mu\text{S}/\text{cm}$				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	187.2	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Geotech	3GA1071	Jan-24
ORP	216.3	mV	± 15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.09	mg/L	± 0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.55	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	0915		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.02	s.u.	± 0.15 s.u.	pass	No	Geotech	2GE870	Mar-24
pH 7.00b	7.00	s.u.	± 0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	10.02	s.u.	± 0.15 s.u.			Geotech	2GE820	May-24
SC 1000	187.24	$\mu\text{S}/\text{cm}$	$\pm 5\%$			Ricca	4207N97	Jul-24

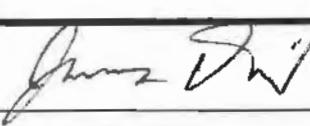
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1531			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.16	s.u.	± 0.1 s.u.	pass	No	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.09	s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.08	s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	181.14	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)	0.08	mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.49	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	7/20/23
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3 GIA 526
Oct 23
4 7/21

Multiparameter Meter Field Calibration Checklist

Field Personnel:	SD			Location:	Vizier Duck Creek				
Weather:	76-90°F sunny wind NNE 6 mph			Environment:	grass, woods				
Multiparameter Water Meter	Make:	Aquametric		Model:	600		Serial Number:	762215	
Water Level Meter	Make:	Heron		Model:	Dipper-T		Serial Number:	11FF2209305ML	
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.99	s.u.	±0.1 s.u.	pass	N	NA	MSI	L344-09	12/14/2023
pH 7.00a	6.99	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	10.26	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2013.6	µS/cm	±5%				Geotech	3GA1071	Jan-24
ORP	217.4	mV	±15 mV				InSitu	2G1763	Jun-23
DO (Zero pt)	0.08	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	11.32	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.62	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time:	0905		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.01	s.u.	±0.15 s.u.	pass	NA	Geotech	2GE870	Mar-24	
pH 7.00b	6.85	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24	
pH 10.00b	9.89	s.u.	±0.15 s.u.			Geotech	2GE820	May-24	
SC 1000	1009.4	µS/cm	±5%			Ricca	4207N97	Jul-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:	1545		
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	pass	N	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.06	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.78	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1016.22	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.52	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	7/24/23
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#36A526
Exp. Oct 23
BG 7/26/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	NW			Location:	Duck Creek		
Weather:	76-89°F Sunny Wind 2 mph E			Environment:	Grass		

Multiparameter Water Meter	Make:	Aquatrol	Model:	1000	Serial Number:	739449		
Water Level Meter	Make:	Heron	Model:	1900	Serial Number:	19FF2111192HB		

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.07	s.u.	±0.1 s.u.	P	N	N/A	MSI	023067-01	3/14/2025
pH 7.00a	7.00	s.u.	±0.1 s.u.	P	—	—	MSI	023051-02	2/21/2025
pH 10.00a	9.99	s.u.	±0.1 s.u.	P	—	—	MSI	022361-01	12/27/2024
SC Zero (DI)	17.05	µS/cm	0<25 µS/cm	P	—	—	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	17102.1	µS/cm	±5%	F	YES	2000.0	Geotech	3GA1071	Jan-24
ORP	218.0	mV	±15 mV	P	N/A	N/A	InSitu	3GD927	Jan-24
DO (Zero pt)	0.03	mg/L	±0.1	P	—	—	Macron	#000228049	8/26/2025
DO (Saturated)	17.3	%	97-100%	P	—	—	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU	P	—	—	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	08:50			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.09	s.u.	±0.15 s.u.	P	N	Geotech	2GE870	May-24	
pH 7.00b	6.91	s.u.	±0.15 s.u.	P	—	Geotech	2GF113	Jun-24	
pH 10.00b	9.90	s.u.	±0.15 s.u.	P	—	Geotech	2GE820	May-24	
SC 1000	1129.5	µS/cm	±5%	F	YES - calibrate: 1000	Ricca	4209A12	Aug-23	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	14:55			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.110	s.u.	±0.1 s.u.	F	YES	4.00	MSI	023067-01	3/14/2025
pH 7.00a	7.10	s.u.	±0.1 s.u.	F	N	—	MSI	023051-02	2/21/2025
pH 10.00a	9.80	s.u.	±0.1 s.u.	F	YES	10.0	MSI	022361-01	12/27/2024
SC 1000	1382.3	µS/cm	±5%	F	YES	1000.0	Ricca	4209A12	Aug-23
DO (Zero pt)	0.03	mg/L	±0.1 mg/L	P	N	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	0.87	NTU	<2 NTU	P	—	—	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	Nicole Welsh	Date:	7/24/23	
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed			Location:	Duck Creek grassy / dry				
Weather:	94° Sunny			Environment:					
Multiparameter Water Meter	Make:	AquaTroll	Model:	600	Serial Number:	762193			
Water Level Meter	Make:	Heron	Model:	1900	Serial Number:	19FF211105HR			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.99	s.u.	± 0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	6.98	s.u.	± 0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	9.99	s.u.	± 0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC Zero (DI)	9.44	$\mu\text{S}/\text{cm}$	$0 < 25 \mu\text{S}/\text{cm}$				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000.1	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Geotech	3GA1071	Jan-24
ORP	230.1	mV	± 15 mV	P	N		InSitu	2000	
DO (Zero pt)	0.02	mg/L	± 0.1				Macron	#000228049	8/26/2025
DO (Saturated)	9.89	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)

Time: 950

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.99	s.u.	± 0.15 s.u.	P	N	Geotech	2GE870	Mar-24
pH 7.00b	6.96	s.u.	± 0.15 s.u.	P	N	Geotech	2GC931	Mar-24
pH 10.00b	9.97	s.u.	± 0.15 s.u.	P	N	Geotech	2GE820	May-24
SC 1000	1019.4	$\mu\text{S}/\text{cm}$	$\pm 5\%$	P	N	Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):

Time: 1612

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	± 0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	7.02	s.u.	± 0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	10.01	s.u.	± 0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC 1000	1032.1	$\mu\text{S}/\text{cm}$	$\pm 5\%$	P	N		Ricca	4207N97	Jul-24
DO (Zero pt)	0.05	mg/L	± 0.1 mg/L	P	N		Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

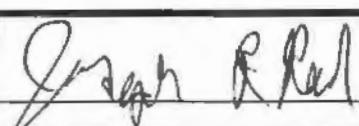
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):

Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	± 0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	± 0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:				Date:	7/24/23		
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	KYL LANE	Location:	DUCK CREEK
Weather:	81° SUNNY	Environment:	DRY

Multiparameter Water Meter	Make:	HOMBA	Model:	U-500	Serial Number:	PW2647D3
Water Level Meter	Make:	Heron	Model:	water tape	Serial Number:	19FF2202131ML

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	N/A	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.95	s.u.	±0.1 s.u.	J			MSI	L343-07	12/9/2023
pH 10.00a	9.93	s.u.	±0.1 s.u.	J			MSI	M082-04	3/25/2024
SC Zero (DI)	14.10	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	20620	µS/cm	±5%	J			Geotech	3GA1071	Jan-24
ORP	215	mV	±15 mV				InSitu	201702	JUL-23
DO (Zero pt)	0.01	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	97.10	%	97-100%	J			Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0	NTU	<2 NTU	J			Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	08:59		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.97	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	Mar-24
pH 7.00b	6.99	s.u.	±0.15 s.u.	J		Geotech	2GC931	Mar-24
pH 10.00b	8.88	s.u.	±0.15 s.u.	J		Geotech	2GE820	May-24
SC 1000	1048	µS/cm	±5%	J		Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	N/A			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
pH 7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	16:06			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.04	s.u.	±0.1 s.u.	P	N/A	N/A	MSI	L344-09	12/14/2023
7.00a	7.06	s.u.	±0.1 s.u.	J			MSI	L343-07	12/9/2023
10.00a	10.81	s.u.	±0.1 s.u.	J			MSI	M082-04	3/25/2024
SC 1000	1088	µS/cm	±5%	J			Ricca	4207N97	Jul-24
DO (Zero pt)	0.06	mg/L	±0.1 mg/L	J			Macron	#000228049	8/26/2025
Turbidity (DI)	0	NTU	<2 NTU	J			Pace Labs	N/A (DI)	N/A (DI)

Comments:

N/A

Signature:	K. M. LANE	Date:	7-24-23
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	NW			Location:	Duck Creek				
Weather:	Sunny 80-92°F, wind SSE 10 mph			Environment:	Grass				
Multiparameter Water Meter	Make:	Aquatrol	Model:	600	Serial Number:	739449			
Water Level Meter	Make:	Heron	Model:	1900	Serial Number:	19FF2111192HB			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	± 0.1 s.u.	P	N	N/A	MSI	023067-01	3/14/2025
pH 7.00a	6.95	s.u.	± 0.1 s.u.	P			MSI	023051-02	2/21/2025
pH 10.00a	9.92	s.u.	± 0.1 s.u.	P	1	1	MSI	022361-01	12/27/2024
SC Zero (DI)	17.99	$\mu\text{S}/\text{cm}$	$<25 \mu\text{S}/\text{cm}$	P	1	1	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2203.1	$\mu\text{S}/\text{cm}$	$\pm 5\%$	F	YES	2000.0	Geotech	3GA1071	Jan-24
ORP	213.3	mV	± 15 mV	P	N	N/A	InSitu	3GD927	Jan-24
DO (Zero pt)	0.08	mg/L	± 0.1	P	1	1	Macron	#000228049	8/26/2025
DO (Saturated)	99.8	%	97-100%	P	1	1	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU	P	1	—	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time:	09:10			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.21	s.u.	± 0.15 s.u.	F	Calibrate - 4.00	Geotech	2GE870	May-24	
pH 7.00b	6.82	s.u.	± 0.15 s.u.	F	Calibrate - 7.00	Geotech	2GF113	Jun-24	
pH 10.00b	9.85	s.u.	± 0.15 s.u.	P	N/A	Geotech	2GE820	May-24	
SC 1000	720.85	$\mu\text{S}/\text{cm}$	$\pm 5\%$	F	calibrate - 1000.0	Ricca	4209A12	Aug-23	
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:	14:27			
					Time:	16:27			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.04	s.u.	± 0.1 s.u.	P	N	N/A	MSI	023067-01	3/14/2025
pH 7.00a	6.98	s.u.	± 0.1 s.u.	P	1	1	MSI	023051-02	2/21/2025
pH 10.00a	9.90	s.u.	± 0.1 s.u.	P	1	1	MSI	022361-01	12/27/2024
SC 1000	1039.1	$\mu\text{S}/\text{cm}$	$\pm 5\%$	F	YES	1000.0	Ricca	4209A12	Aug-23
DO (Zero pt)	0.07	mg/L	± 0.1 mg/L	P	N	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	0.70	NTU	<2 NTU	P	1	—	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	± 0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	± 0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4209A12	Aug-23
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Comments:									
Signature:	Nicole Welch				Date:	7/25/23			

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane			Location:	Duck Creek				
Weather:	75° to 93° Sunny			Environment:	Dry				
Multiparameter Water Meter	Make:	Hanna		Model:	U5000	Serial Number:	PW294503		
Water Level Meter	Make:	Hanna		Model:	Water tape	Serial Number:	19FF220213ML		
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.09	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	6.95	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	14.00	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2040	µS/cm	±5%				Geotech	3GA1071	Jan-24
ORP	214	mV	±15 mV				InSitu	2G8702	Mar-23
DO (Zero pt)	0.01	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.00	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	8	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	08:47		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.00	s.u.	±0.15 s.u.	P	NA	Geotech	2GE870	Mar-24
pH 7.00b	7.02	s.u.	±0.15 s.u.	J	NA	Geotech	2GC931	Mar-24
pH 10.00b	9.99	s.u.	±0.15 s.u.	J	NA	Geotech	2GE820	May-24
SC 1000	2020	µS/cm	±5%	J	NA	Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	NA			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
pH 7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	16:23			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.02	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
7.00a	7.08	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a	10.30	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	213	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.21	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	2	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

NA

Signature:	Y. S. S.	Date:	7-25-2023
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lom			Location:	DVC (see K)				
Weather:	96° Sunny			Environment:	Dry				
Multiparameter Water Meter	Make:	HORIBA	Model:	V-500e	Serial Number:	PW267JD3			
Water Level Meter	Make:	HORN	Model:	water tape	Serial Number:	19FF2202131ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	Na	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.07	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	2.00	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000	µS/cm	±5%				Geotech	3GA1071	Jan-24
ORP	216	mV	±15 mV				InSitu	261762	Jun-23
DO (Zero pt)	0.01	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	97.10	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	10:23		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.00	s.u.	±0.15 s.u.	P	NA	Geotech	2GE870	Mar-24
pH 7.00b	6.93	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	10.00	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1020	µS/cm	±5%	↓	↓	Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	NA			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
pH 7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	Kyle Lom	Date:	7-27-23
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A3GAS26
Exp. Oct. '23
BG
9/6/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	NW			Location:	Duck Creek				
Weather:	Sunny 74-98°F Wind 4 mph SSE			Environment:	Grass				
Multiparameter Water Meter	Make:	Aquatrol	Model:	1000	Serial Number:	762215			
Water Level Meter	Make:	Heron	Model:	1900	Serial Number:	19FF211192HB			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	N	N/A	MSI	023067-01	3/14/2025
pH 7.00a	7.00	s.u.	±0.1 s.u.	P	↓		MSI	023051-02	2/21/2025
pH 10.00a	9.99	s.u.	±0.1 s.u.	P	↓		MSI	022361-01	12/27/2024
SC Zero (DI)	21.54	µS/cm	0<25 µS/cm	P	↓		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1755.9	µS/cm	±5%	F	YES	2000.0	Geotech	3GA1071	Jan-24
ORP	216.0	mV	±15 mV	P	↓N	N/A	InSitu	3GD927	Jan-24
DO (Zero pt)	0.09	mg/L	±0.1	P	↓		Macron	#000228049	8/26/2025
DO (Saturated)	98.71	%	97-100%	P	↓		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.01	NTU	<2 NTU	P	↓		Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time: 09:40				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00b	4.05	s.u.	±0.15 s.u.	P	N		Geotech	2GE870	May-24
pH 7.00b	8.98	s.u.	±0.15 s.u.	P	↓		Geotech	2GF113	Jun-24
pH 10.00b	9.98	s.u.	±0.15 s.u.	P	↓		Geotech	2GE820	May-24
SC 1000	1118.10	µS/cm	±5%	F	Calibrate - 1000.0		Ricca	4209A12	Aug-23
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time: 110:17				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.09	s.u.	±0.1 s.u.	P	N	N/A	MSI	023067-01	3/14/2025
pH 7.00a	7.24	s.u.	±0.1 s.u.	F	YES	7.00	MSI	023051-02	2/21/2025
pH 10.00a	10.05	s.u.	±0.1 s.u.	P	↓N	N/A	MSI	022361-01	12/27/2024
SC 1000	1043.0	µS/cm	±5%	F	YES	1000.0	Ricca	4209A12	Aug-23
DO (Zero pt)	0.03	mg/L	±0.1 mg/L	P	↓N	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	0.95	NTU	<2 NTU	P	↓		Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Comments:									
Signature:	Mike Welch			Date:	7/27/23				

BG

Multiparameter Meter Field Calibration Checklist

Field Personnel:	KL JR			Location:	Duck Creek				
Weather:	75° SUNNY			Environment:	DRY				
Multiparameter Water Meter	Make:	Horiba	Model:	V-5000	Serial Number:	PN264JD3			
Water Level Meter	Make:	Heron	Model:	Water Info	Serial Number:	19FF202131ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.96	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	6.99	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.07	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	2.00	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	20.30	µS/cm	±5%				Geotech	3GA1071	Jan-24
ORP	213	mV	±15 mV				InSitu	2G1762	Jan-23
DO (Zero pt)	0.02	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.04	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	09:53			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.05	s.u.	±0.15 s.u.	P	NA	Geotech	2GE870	Mar-24	
pH 7.00b	6.99	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24	
pH 10.00b	10.00	s.u.	±0.15 s.u.			Geotech	2GE820	May-24	
SC 1000	10.0	µS/cm	±5%			Ricca	4207N97	Jul-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	NA			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
pH 7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	15:00			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.07	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
7.00a	6.94	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a	10.02	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	10.0	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.04	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0	NTU	<2 NTU	—			Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	K. Gae	Date:	7-31-2023
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#3GA-520
Exp. Oct. '23
BG
9/6/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	JR KL			Location:	Duck Creek				
Weather:	70°-86° Sunny wind 3 mph			Environment:	grass				
Multiparameter Water Meter	Make:	Horiba	Model:	U500	Serial Number:	PW2GYJD3			
Water Level Meter	Make:	Heron	Model:	1900	Serial Number:	19FF2202131ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.99	s.u.	± 0.1 s.u.	P	N		MSI	023067-01	3/14/2025
pH 7.00a	6.95	s.u.	± 0.1 s.u.	P	N		MSI	023051-02	2/21/2025
pH 10.00a	9.98	s.u.	± 0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	0.0	$\mu\text{s}/\text{cm}$	0<25 $\mu\text{s}/\text{cm}$				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000	$\mu\text{s}/\text{cm}$	$\pm 5\%$				Geotech	3GA1071	Jan-24
ORP	239	mV	± 15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	0.04	mg/L	± 0.1				Macron	#000228049	8/26/2025
DO (Saturated)	18.5	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

20°C

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	920			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.01	s.u.	± 0.15 s.u.	P	N	Geotech	2GE870	May-24	
pH 7.00b	7.00	s.u.	± 0.15 s.u.	P	N	Geotech	2GF113	Jun-24	
pH 10.00b	9.99	s.u.	± 0.15 s.u.	P	N	Geotech	2GE820	May-24	
SC 1000	1010	$\mu\text{s}/\text{cm}$	$\pm 5\%$	P	N	Ricca	4209A12	Aug-23	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1515			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	± 0.1 s.u.				MSI	023067-01	3/14/2025
pH 7.00a	7.01	s.u.	± 0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.02	s.u.	± 0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000	1020	$\mu\text{s}/\text{cm}$	$\pm 5\%$				Ricca	4209A12	Aug-23
DO (Zero pt)	0.04	mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	± 0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	± 0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		$\mu\text{s}/\text{cm}$	$\pm 5\%$				Ricca	4209A12	Aug-23
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:				Date:	8/10/23			
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CHAIN-OF-CUSTODY / Analytical Request Document

GG 03353
Vmw 7-19-23

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

No Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.		
Section A Required Client Information:		Section B Required Project Information:
Company: Vistra Corp		Report To: Brian Voelker
Address: 13498 E. 900th St		Copy To: Jason Stuckey
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:
Phone: (217) 753-8911	Fax:	Project Name:
Requested Due Date/TAT:		Project Number: 2285
		Invoice Information:
		Attention: Jason Stuckey
		Company Name: Vistra Corp
		Address: see Section A
		Quote Reference:
		Project Manager:
		Profile #:
Page: 3 of 7		
REGULATORY AGENCY		
NPDES GROUND WATER DRINKING WATER		
UST RCRA OTHER		
Site Location		
STATE:		IL

ITEM #	Section D Required Client Information	Valid Matrix Codes		SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	SAMPLE TEMP AT COLLECTION	Requested Analysis Filtered (Y/N)									
		MATRIX	CODE				(see valid codes to left)	Preservatives					Y/N			
1	SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	DRINKING WATER	DW				H ₂ SO ₄	X		DC-257-205						
2	607L	WT	G	7/19/23	1431 1400	3	NH ₄ NO ₃	X		DC-SUP-000						
3	608L	WT	G	7/19/23	1205	2	HCl	X		DC-845-205						
4	609L	WT	G	7/19/23	1428	3	NaOH	X		DC-845-201-202						
5	OM 21	WT	G	7/19/23	1605	11	Na ₂ SO ₄	X		DC-257-203						
6	OM 23D rmw 7/19/23	WT	G	7/19/23	1242	11	Methanol	X		DC-845-203						
7	EB 3	WT	G	7/19/23	1710	11	Other	X		DC-257-204						
8										DC-811-204						
9										DC-WPCP-203-206						
10										DC-CLOSURE-201-202						
11																
12																
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16																
															Project No./ Lab I.D.	
															Residual Chlorine (Y/N)	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Aaron Zimmerman				
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):	07/19/23		

Counter

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information																																																																																																																																																																																																																																					
Company Address	Vistra Corp 13498 E. 900th St	Report To Copy To	Brian Voelker Jason Stuckey	Attention	Jason Stuckey																																																																																																																																																																																																																																				
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Company Name	Vistra Corp																																																																																																																																																																																																																																				
Phone	(217) 753-8911	Project Name		Address:	see Section A																																																																																																																																																																																																																																				
Requested Due Date/TAT:	10 day	Project Number	2285	City:																																																																																																																																																																																																																																					
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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information		Section C Invoice Information		Page: 6 of 7																																					
Company: Vistra Corp Address: 13498 E. 900th St		Report To: Brian Voelker Copy To: Jason Stuckey		Attention: Jason Stuckey Company Name: Vistra Corp Address: see Section A																																							
Email To: Brian.Voelker@vistraCorp.com Phone: (217) 753-5911		Purchase Order No.: Project Name: Project Number: 2285		Quote Reference: Project Manager: Profile #:																																							
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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information		Section B Required Project Information:		Section C Invoice Information	
Company Address	Vistra Corp 13498 E. 900th St	Report To: Brian Voelker	Copy To: Jason Stuckey	Attention: Jason Stuckey	
EMail To: Phone:	Brian.Voelker@VistraCorp.com (217) 753-8911	Purchase Order No.: Project Name: Project Number:	see Section A Quote Reference Project Manager Profile #	Company Name: Vistra Corp	
Requested Due Date/TAT:	10 day	TIME	TIME	DATE	TIME
#	SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	TIME
			DW WT WW P SL OL WP AR OT TS		
			PRODUCT SOIL/SOLID OIL WIPE AIR OTHER TISSUE		
			MATRIX CODE (see valid codes to left)		
			SAMPLE TYPE (G=GRAB C=COMP)		
			# OF CONTAINERS		
			Preservatives		
			Analysts Test		
			Y/N		
			Residual Chlorine (Y/N)		
			DC-CLOSURE-201-202		
			DC-WPCP-203-206		
			DC-811-204		
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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp	Address: 13498 E. 900th St	Report To: Brian Voelker	Copy To: Jason Stuckey	Company Name: Vistra Corp	Attention: Jason Stuckey
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:			Address: Quicke Refrence: Project: Manager: Profile #:	see Section A
Phone: (217) 753-8911 Fax:	Project Name:			Site Location:	NPDES UST RCRA
Requested Due Date/TAT:	10 day			STATE:	IL
REGULATORY AGENCY					
Ground Water Drinking Water Other					
(630418)					
Requested Analysis Filtered (Y/N)					
Residual Chlorine (Y/N)					
DC-CLOSURE-201-202					
DC-WPCP-203-206					
DC-B11-204					
DC-257-204					
DC-845-203					
DC-257-203					
DC-845-201-202					
DC-845-205					
DC-SLP-000					
DC-257-205					
DC-257-204					
Analysis Test					
Preservatives					
# OF CONTAINERS					
SAMPLE TEMP AT COLLECTION					
Project No./Lab ID.					
Temp in °C					
Received on					
Sampled (Y/N)					
Custody Seal (Y/N)					
Matrix (Y/N)					
Samples (Y/N)					
Comments (Y/N)					
Section D Required Client Information		Section E SAMPLE ID		Section F SAMPLE TYPE (G=GRAB C=COMPOUND) (A-Z, 0-9, -, _)	
Valid Matrix Codes	CODE	COLLECTED	TIME	MATRIX CODE (See valid codes to left)	G=GRAB C=COMPOUND
DRINKING WATER	DW			NaOH	
WATER/WATER	WT			HCl	
WATER/WATER	WW			HNO ₃	
PRODUCT	P			H ₂ SO ₄	
SOLID	SL			Na ₂ SO ₄	
OIL	OL			Other	
WIPE	WP				
AIR	AR				
OTHER	OT				
TISSUE	TS				
#	TEST	DATE			
1	0M12	7/27/23	1602	11	
2	0M27D		1412	11	
3	0M24D		1540	11	
4	0503		1428	11	
5	059L		1400	11	
6	644_GSN_PUP		1403206	11	
7	644		1206	11	
8	65L		1258	2	
9	0R13D		1634	2	
10	0R13		1101	2	
11	0R07		1135	2	
12	0R06A		150	2	
13	0R07 OR11		1219	2	
14	0M26S		1241	2	
15	0R13D Bump		1634	2	
16	EB 12		0000		
ADDITIONAL COMMENTS		REINQUISITED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION
DC-23Q3 Rev 0		Joseph R. Bell	7/27/23	1838	44
		PRINTED NAME AND SIGNATURE	DATE	TIME	SAMPLE CONDITIONS
		JOSEPH R. BELL	7/27/23	1838	44
		DATE Signed (MM/DD/YY):			
		SIGNATURE of SAMPLER:			

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp	Address: 13498 E. 90th St	Report To: Brian Voelker	Copy To: Jason Stuckey	Attention: Jason Stuckey	
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Project Name:	Address: See Section A	NPDES	REGULATORY AGENCY
Phone: (217) 753-8911	Fax:	Project Number: 22B5	Quote Registration Project Manager Profile #:	UST	GROUND WATER
				RCRA	DRINKING WATER
				OTHER	
Residual Chlorine (Y/N)					
Requested Analysis Filtered (Y/N)					
Analysis Test					
Preservatives					
# OF CONTAINERS					
SAMPLE TEMP AT COLLECTION					
COLLECTED					
SAMPLE TYPE (G=GRAIN C=COMP)					
MATRIX CODE (see valid codes to left)					
#					
ITEM					
SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE					
Valid Matrix Codes MATRIX					
DRINKING WATER DW					
WATER WT					
WASTE WATER WW					
PRODUCT P					
SOIL SOLID SL					
OIL OL					
WINE WP					
AIR AR					
OTHER OT					
TISSUE TS					
DATE					
TIME					
1	OR 03 D	WT G 7/31/23	1130	11	
2	OR 1A	WT G 7/31/23	1321	11	
3	EP 13	7/31/23	1550	11	
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
ADDITIONAL COMMENTS		RElinquished By / AFFILIATION		DATE	TIME
DC-23Q3 Rev 0		J. Stuckey		7/31/23	1605
SAMPLE CONDITIONS					
Temp in °C					
Received on Date (Y/N)					
Sealed Barcode (Y/N)					
Comments (Y/N)					
Signature of SAMPLER: <i>Joe Stuckey</i>					
PRINT Name of SAMPLER: <i>Joe Stuckey</i>					
Signature of SAMPLER: <i>Joe Stuckey</i>					
DATE Signed (MM/DD/YY): <i>7/31/23</i>					

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section C

Invoice Information

Section A Required Client Information		Section B Required Project Information		Section D Required Client Information		Section E Regulatory Agency		Section F Project No./Lab I.D.	
Company Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey	Company Name Vistra Corp	NPDES Address: see Section A	GROUND WATER Reference:	DRINKING WATER RCRA	OTHER	STATE: #REF!	STATE: #REF!
Address 13498 E 900th St	Copy To: Jason Stuckey	Quipre	Purchase Order No.: 	Site Location	NPDES	GROUND WATER	DRINKING WATER	STATE: #REF!	STATE: #REF!
Email To: Brian.Voelker@VistraCorp.com	Phone: (217)753-8911	Project Name: 	Project Manager: 	RCRA	UST	RCRA	OTHER	STATE: #REF!	STATE: #REF!
Requested Due Date/TAT: #REF!	Project Number: 2285								
Requested Analysis Filtered (Y/N) <input checked="" type="checkbox"/> ALK CO ₃ & HCO ₃ TOTAL <input checked="" type="checkbox"/> ALK CO ₃ TOTAL & DISS <input checked="" type="checkbox"/> TDS <input checked="" type="checkbox"/> ALK CO ₃ TOTAL & DISS <input checked="" type="checkbox"/> ALK CO ₃ & HCO ₃ TOTAL <input checked="" type="checkbox"/> ANALYSIS TEST <input checked="" type="checkbox"/> Preservatives <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/> Methanol <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCl <input checked="" type="checkbox"/> HNO ₃ <input checked="" type="checkbox"/> H ₂ SO ₄ <input checked="" type="checkbox"/> Uppreserved <input checked="" type="checkbox"/> # OF CONTAINERS <input checked="" type="checkbox"/> SAMPLE TEMP AT COLLECTION <input checked="" type="checkbox"/> MATRIX CODE (see valid codes to left) <input checked="" type="checkbox"/> SAMPLE TYPE (G=GRA B=COMP) <input checked="" type="checkbox"/> COLLECTED <input checked="" type="checkbox"/> DATE <input checked="" type="checkbox"/> TIME <input checked="" type="checkbox"/> Project No./Lab I.D. <input checked="" type="checkbox"/> Residual Chlorine (Y/N)									
SAMPLE COMMENTS #REF!									
ADDITIONAL COMMENTS #REF!									
RELINQUISHED BY / AFFILIATION Joe R. Reed 8/10/23 1630 granted 8/10/23 1630 Joe R. Reed 8/10/23 1630 granted 8/10/23 1630 Joe R. Reed 8/10/23 1630 granted									
ACCEPTED BY / AFFILIATION Joe R. Reed 8/10/23 1630 granted 8/10/23 1630 Joe R. Reed 8/10/23 1630 granted 8/10/23 1630 Joe R. Reed 8/10/23 1630 granted									
SAMPLE CONDITIONS Temp in °C Received On Custody Sealed Sealed/Cooler (Y/N) Initial Samples intact (Y/N)									



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

January 17, 2024

Daryl Johnson
Vistra - Duck Creek
17751 North Cilco Road
Canton, IL 61520-8761

Dear Daryl Johnson:

Please find enclosed the analytical results for the sample(s) the laboratory received. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise . We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Sincerely,

A handwritten signature in black ink that reads "Diane Billings".

Diane Billings
Project Manager



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order GJ03182

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GJ03740

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GJ04131

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GJ04373

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GJ04578

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
NO	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GJ04582

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GJ04861

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GJ04997

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GK00649

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
YES	Case narrative provided



Pace Analytical Services, LLC
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Case Narrative

BA02L, G02L, G04L, G07L, GO8L, B09L, G14L, G15L, G51L, OM17, P60, R10L, R11L, XTPWO2 were dry. G52S could not be sampled. OMO1 was sampled but had limited volume. Dissolved metals and ferrous iron are not reported. There is no access point to take DTW for X301. We do not have L103 GWEinformation and can't measure BMP at this location.



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ANALYTICAL RESULTS

Sample: GJ03182-08
Name: OR13S
Matrix: Ground Water - Grab

Sampled: 10/17/23 11:14
Received: 10/17/23 16:51
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	39	mg/L		10/18/23 10:39	10	10	10/18/23 10:39	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		10/18/23 10:21	1	0.250	10/18/23 10:21	CRD	EPA 300.0 REV 2.1
Sulfate	560	mg/L		10/18/23 10:57	100	100	10/18/23 10:57	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	14.74	Feet		10/17/23 11:14	1		10/17/23 11:14	FIELD	Field*
Dissolved oxygen, Field	3.8	mg/L		10/17/23 11:14	1		10/17/23 11:14	FIELD	Field*
Oxidation Reduction Potential	20.0	mV		10/17/23 11:14	1	-500	10/17/23 11:14	FIELD	Field*
pH, Field Measured	6.10	pH Units		10/17/23 11:14	1		10/17/23 11:14	FIELD	Field*
Specific Conductance, Field Measured	1900	umhos/cm		10/17/23 11:14	1		10/17/23 11:14	FIELD	Field*
Temperature, Field Measured	15.0	°C		10/17/23 11:14	1		10/17/23 11:14	FIELD	Field*
Temperature, Field Measured	59.0	°F		10/17/23 11:14	1		10/17/23 11:14	FIELD	Field*
Turbidity, Field Measured	210	NTU		10/17/23 11:14	1	0.00	10/17/23 11:14	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	510	mg/L		10/27/23 14:21	1	10	10/27/23 14:21	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		10/27/23 14:21	1	10	10/27/23 14:21	TMS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1400	mg/L		10/19/23 13:29	1	26	10/19/23 15:14	OGS	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		10/19/23 08:58	5	3.0	10/19/23 16:26	TJJ	EPA 6020A
Arsenic	40	ug/L		10/19/23 08:58	5	1.0	10/19/23 16:26	TJJ	EPA 6020A
Barium	78	ug/L		10/19/23 08:58	5	1.0	10/19/23 16:26	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		10/19/23 08:58	5	1.0	10/19/23 16:26	TJJ	EPA 6020A
Boron	3300	ug/L		10/19/23 08:58	5	10	10/20/23 12:36	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		10/19/23 08:58	5	1.0	10/19/23 16:26	TJJ	EPA 6020A
Calcium	260	mg/L		10/19/23 08:58	5	0.20	10/19/23 16:26	TJJ	EPA 6020A
Chromium	6.6	ug/L		10/19/23 08:58	5	4.0	10/19/23 16:26	TJJ	EPA 6020A
Cobalt	5.0	ug/L		10/19/23 08:58	5	2.0	10/19/23 16:26	TJJ	EPA 6020A
Lead	13	ug/L		10/19/23 08:58	5	1.0	10/19/23 16:26	TJJ	EPA 6020A
Magnesium	110	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:26	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		10/19/23 08:58	5	0.20	10/20/23 12:36	TJJ	EPA 6020A
Molybdenum	8.8	ug/L		10/19/23 08:58	5	1.0	10/19/23 16:26	TJJ	EPA 6020A



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

ANALYTICAL RESULTS

Sample: GJ03182-08

Name: OR13S

Matrix: Ground Water - Grab

Sampled: 10/17/23 11:14

Received: 10/17/23 16:51

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	4.4	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:26	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		10/19/23 08:58	5	1.0	10/19/23 16:26	TJJ	EPA 6020A
Sodium	69	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:26	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		10/19/23 08:58	5	1.0	10/19/23 16:26	TJJ	EPA 6020A
Lithium	0.021	mg/L		10/19/23 08:58	1	0.020	10/25/23 11:37	BRS	EPA 6010B



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Peoria, IL 61615
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ANALYTICAL RESULTS

Sample: GJ03740-02
Name: BA06
Matrix: Ground Water - Grab

Sampled: 10/19/23 13:09
Received: 10/19/23 16:42
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	510	mg/L		10/31/23 01:37	100	100	10/31/23 01:37	CRD	EPA 300.0 REV 2.1
Sulfate	370	mg/L		10/25/23 03:40	50	50	10/25/23 03:40	TMS	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	24.76	Feet		10/19/23 13:09	1		10/19/23 13:09	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		10/19/23 13:09	1		10/19/23 13:09	FIELD	Field*
Oxidation Reduction Potential	-38.0	mV		10/19/23 13:09	1	-500	10/19/23 13:09	FIELD	Field*
pH, Field Measured	6.57	pH Units		10/19/23 13:09	1		10/19/23 13:09	FIELD	Field*
Specific Conductance, Field Measured	3170	umhos/cm		10/19/23 13:09	1		10/19/23 13:09	FIELD	Field*
Temperature, Field Measured	13.3	°C		10/19/23 13:09	1		10/19/23 13:09	FIELD	Field*
Temperature, Field Measured	55.9	°F		10/19/23 13:09	1		10/19/23 13:09	FIELD	Field*
Turbidity, Field Measured	3.30	NTU		10/19/23 13:09	1	0.00	10/19/23 13:09	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	500	mg/L		11/01/23 09:54	1	10	11/01/23 09:54	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/01/23 09:54	1	10	11/01/23 09:54	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		11/08/23 14:02	1	0.250	11/08/23 14:02	ANK	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	2000	mg/L		10/24/23 11:20	1	26	10/24/23 15:20	OGS	SM 2540C
<u>Soluble Nutrients - PIA</u>									
Ammonia, Dissolved	< 0.10	mg/L		10/31/23 15:01	1	0.10	10/31/23 15:01	TTH	EPA 350.1 REV2
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		10/23/23 09:11	5	3.0	10/25/23 16:03	TJJ	EPA 6020A
Arsenic	3.0	ug/L		10/23/23 09:11	5	1.0	10/25/23 16:03	TJJ	EPA 6020A
Barium	95	ug/L		10/23/23 09:11	5	1.0	10/25/23 16:03	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		10/23/23 09:11	5	1.0	10/27/23 08:14	TJJ	EPA 6020A
Boron	9900	ug/L		10/23/23 09:11	5	10	10/27/23 08:14	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		10/23/23 09:11	5	1.0	10/25/23 16:03	TJJ	EPA 6020A
Calcium	300	mg/L		10/23/23 09:11	5	0.20	10/25/23 16:03	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		10/23/23 09:11	5	4.0	10/25/23 16:03	TJJ	EPA 6020A
Cobalt	7.0	ug/L		10/23/23 09:11	5	2.0	10/25/23 16:03	TJJ	EPA 6020A
Lead	< 1.0	ug/L		10/23/23 09:11	5	1.0	10/25/23 16:03	TJJ	EPA 6020A



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Peoria, IL 61615
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ANALYTICAL RESULTS

Sample: GJ03740-02

Name: BA06

Matrix: Ground Water - Grab

Sampled: 10/19/23 13:09

Received: 10/19/23 16:42

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Magnesium	210	mg/L		10/23/23 09:11	5	0.10	10/25/23 16:03	TJJ	EPA 6020A
Mercury	0.25	ug/L		10/23/23 09:11	5	0.20	10/25/23 16:03	TJJ	EPA 6020A
Molybdenum	1.1	ug/L		10/23/23 09:11	5	1.0	10/25/23 16:03	TJJ	EPA 6020A
Potassium	0.31	mg/L		10/23/23 09:11	5	0.10	10/25/23 16:03	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		10/23/23 09:11	5	1.0	10/25/23 16:03	TJJ	EPA 6020A
Sodium	17	mg/L		10/23/23 09:11	5	0.10	10/25/23 16:03	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		10/23/23 09:11	5	1.0	10/25/23 16:03	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		10/23/23 09:11	1	0.020	10/25/23 12:17	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GJ04131-06
Name: OM22D
Matrix: Ground Water - Grab

Sampled: 10/23/23 14:11
Received: 10/23/23 17:34
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	810	mg/L		10/27/23 21:49	250	250	10/27/23 21:49	CRD	EPA 300.0 REV 2.1
Sulfate	920	mg/L		10/24/23 12:10	100	100	10/24/23 12:10	TMS	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	20.22	Feet		10/23/23 14:11	1		10/23/23 14:11	FIELD	Field*
Dissolved oxygen, Field	0.38	mg/L		10/23/23 14:11	1		10/23/23 14:11	FIELD	Field*
Oxidation Reduction Potential	-13.8	mV		10/23/23 14:11	1	-500	10/23/23 14:11	FIELD	Field*
pH, Field Measured	6.88	pH Units		10/23/23 14:11	1		10/23/23 14:11	FIELD	Field*
Specific Conductance, Field Measured	4426	umhos/cm		10/23/23 14:11	1		10/23/23 14:11	FIELD	Field*
Temperature, Field Measured	57.7	°F		10/23/23 14:11	1		10/23/23 14:11	FIELD	Field*
Temperature, Field Measured	14.3	°C		10/23/23 14:11	1		10/23/23 14:11	FIELD	Field*
Turbidity, Field Measured	889	NTU		10/23/23 14:11	1	0.00	10/23/23 14:11	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	340	mg/L		11/02/23 13:24	1	10	11/02/23 13:24	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/02/23 13:24	1	10	11/02/23 13:24	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		11/01/23 13:59	1	0.250	11/01/23 13:59	ANK	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	4000	mg/L		10/25/23 11:20	1	26	10/25/23 14:25	OGS	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		10/26/23 08:40	5	3.0	10/31/23 14:52	TJJ	EPA 6020A
Arsenic	2.7	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:52	TJJ	EPA 6020A
Barium	49	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:52	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		10/26/23 08:40	5	1.0	11/01/23 15:59	TJJ	EPA 6020A
Boron	60000	ug/L		10/26/23 08:40	100	200	11/01/23 12:06	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:52	TJJ	EPA 6020A
Calcium	610	mg/L		10/26/23 08:40	100	4.0	11/01/23 12:06	wjm	EPA 6020A
Chromium	7.3	ug/L		10/26/23 08:40	5	4.0	10/31/23 14:52	TJJ	EPA 6020A
Cobalt	4.2	ug/L		10/26/23 08:40	5	2.0	10/31/23 14:52	TJJ	EPA 6020A
Lead	1.9	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:52	TJJ	EPA 6020A
Magnesium	150	mg/L		10/26/23 08:40	5	0.10	10/31/23 14:52	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		10/26/23 08:40	5	0.20	10/31/23 14:52	TJJ	EPA 6020A
Molybdenum	120	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:52	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04131-06

Name: OM22D

Matrix: Ground Water - Grab

Sampled: 10/23/23 14:11

Received: 10/23/23 17:34

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	10	mg/L		10/26/23 08:40	5	0.10	10/31/23 14:52	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:52	TJJ	EPA 6020A
Sodium	160	mg/L		10/26/23 08:40	5	0.10	10/31/23 14:52	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:52	TJJ	EPA 6020A
Lithium	0.045	mg/L		10/26/23 08:40	1	0.020	10/31/23 10:02	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GJ04131-07
Name: OM23D
Matrix: Ground Water - Grab

Sampled: 10/23/23 12:54
Received: 10/23/23 17:34
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	31	mg/L		10/24/23 12:46	5	5.0	10/24/23 12:46	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		10/24/23 12:28	1	0.250	10/24/23 12:28	TMS	EPA 300.0 REV 2.1
Sulfate	360	mg/L		10/24/23 13:04	50	50	10/24/23 13:04	TMS	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	39.06	Feet		10/23/23 12:54	1		10/23/23 12:54	FIELD	Field*
Dissolved oxygen, Field	0.73	mg/L		10/23/23 12:54	1		10/23/23 12:54	FIELD	Field*
Oxidation Reduction Potential	-42.9	mV		10/23/23 12:54	1	-500	10/23/23 12:54	FIELD	Field*
pH, Field Measured	7.00	pH Units		10/23/23 12:54	1		10/23/23 12:54	FIELD	Field*
Specific Conductance, Field Measured	1771	umhos/cm		10/23/23 12:54	1		10/23/23 12:54	FIELD	Field*
Temperature, Field Measured	58.2	°F		10/23/23 12:54	1		10/23/23 12:54	FIELD	Field*
Temperature, Field Measured	14.6	°C		10/23/23 12:54	1		10/23/23 12:54	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		10/23/23 12:54	1	0.00	10/23/23 12:54	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	640	mg/L		11/02/23 13:24	1	10	11/02/23 13:24	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/02/23 13:24	1	10	11/02/23 13:24	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1200	mg/L		10/25/23 11:20	1	26	10/25/23 14:25	OGS	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		10/26/23 08:40	5	3.0	10/31/23 14:41	TJJ	EPA 6020A
Arsenic	1.8	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:41	TJJ	EPA 6020A
Barium	38	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:41	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		10/26/23 08:40	5	1.0	11/01/23 11:51	TJJ	EPA 6020A
Boron	2000	ug/L		10/26/23 08:40	5	10	11/01/23 11:51	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:41	TJJ	EPA 6020A
Calcium	160	mg/L		10/26/23 08:40	5	0.20	10/31/23 14:41	TJJ	EPA 6020A
Chromium	4.0	ug/L		10/26/23 08:40	5	4.0	10/31/23 14:41	TJJ	EPA 6020A
Cobalt	2.2	ug/L		10/26/23 08:40	5	2.0	10/31/23 14:41	TJJ	EPA 6020A
Lead	2.5	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:41	TJJ	EPA 6020A
Magnesium	94	mg/L		10/26/23 08:40	5	0.10	10/31/23 14:41	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		10/26/23 08:40	5	0.20	10/31/23 14:41	TJJ	EPA 6020A
Molybdenum	2.4	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:41	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04131-07

Name: OM23D

Matrix: Ground Water - Grab

Sampled: 10/23/23 12:54

Received: 10/23/23 17:34

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	5.5	mg/L		10/26/23 08:40	5	0.10	10/31/23 14:41	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:41	TJJ	EPA 6020A
Sodium	110	mg/L		10/26/23 08:40	5	0.10	10/31/23 14:41	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:41	TJJ	EPA 6020A
Lithium	0.036	mg/L		10/26/23 08:40	1	0.020	10/31/23 10:03	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GJ04131-08
Name: OM24D
Matrix: Ground Water - Grab

Sampled: 10/23/23 10:49
Received: 10/23/23 17:34
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	500	mg/L		10/24/23 13:40	100	100	10/24/23 13:40	TMS	EPA 300.0 REV 2.1
Sulfate	820	mg/L		10/24/23 13:40	100	100	10/24/23 13:40	TMS	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	5.4	Feet		10/23/23 10:49	1		10/23/23 10:49	FIELD	Field*
Dissolved oxygen, Field	1.3	mg/L		10/23/23 10:49	1		10/23/23 10:49	FIELD	Field*
Oxidation Reduction Potential	-45.2	mV		10/23/23 10:49	1	-500	10/23/23 10:49	FIELD	Field*
pH, Field Measured	6.74	pH Units		10/23/23 10:49	1		10/23/23 10:49	FIELD	Field*
Specific Conductance, Field Measured	3344	umhos/cm		10/23/23 10:49	1		10/23/23 10:49	FIELD	Field*
Temperature, Field Measured	60.0	°F		10/23/23 10:49	1		10/23/23 10:49	FIELD	Field*
Temperature, Field Measured	15.6	°C		10/23/23 10:49	1		10/23/23 10:49	FIELD	Field*
Turbidity, Field Measured	371	NTU		10/23/23 10:49	1	0.00	10/23/23 10:49	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	440	mg/L		11/02/23 13:24	1	10	11/02/23 13:24	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/02/23 13:24	1	10	11/02/23 13:24	CPS	SM 2320B 1997*
Fluoride	0.266	mg/L		11/01/23 14:00	1	0.250	11/01/23 14:00	ANK	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	2600	mg/L		10/25/23 11:20	1	26	10/25/23 14:25	OGS	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		10/26/23 08:40	5	3.0	10/31/23 14:56	TJJ	EPA 6020A
Arsenic	5.3	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:56	TJJ	EPA 6020A
Barium	82	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:56	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		10/26/23 08:40	5	1.0	11/01/23 16:03	TJJ	EPA 6020A
Boron	23000	ug/L		10/26/23 08:40	100	200	11/01/23 12:39	wjm	EPA 6020A
Cadmium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:56	TJJ	EPA 6020A
Calcium	400	mg/L		10/26/23 08:40	5	0.20	10/31/23 14:56	TJJ	EPA 6020A
Chromium	7.9	ug/L		10/26/23 08:40	5	4.0	10/31/23 14:56	TJJ	EPA 6020A
Cobalt	3.4	ug/L		10/26/23 08:40	5	2.0	10/31/23 14:56	TJJ	EPA 6020A
Lead	7.4	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:56	TJJ	EPA 6020A
Magnesium	140	mg/L		10/26/23 08:40	5	0.10	10/31/23 14:56	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		10/26/23 08:40	5	0.20	10/31/23 14:56	TJJ	EPA 6020A
Molybdenum	6.7	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:56	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04131-08

Name: OM24D

Matrix: Ground Water - Grab

Sampled: 10/23/23 10:49

Received: 10/23/23 17:34

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	5.8	mg/L		10/26/23 08:40	5	0.10	10/31/23 14:56	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:56	TJJ	EPA 6020A
Sodium	110	mg/L		10/26/23 08:40	5	0.10	10/31/23 14:56	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 14:56	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		10/26/23 08:40	1	0.020	10/31/23 10:04	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GJ04131-09
Name: OM25S
Matrix: Ground Water - Grab

Sampled: 10/23/23 11:30
Received: 10/23/23 17:34
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	650	mg/L		10/24/23 14:17	100	100	10/24/23 14:17	TMS	EPA 300.0 REV 2.1
Sulfate	730	mg/L		10/24/23 14:17	100	100	10/24/23 14:17	TMS	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	58.25	Feet		10/23/23 11:30	1		10/23/23 11:30	FIELD	Field*
Dissolved oxygen, Field	2.5	mg/L		10/23/23 11:30	1		10/23/23 11:30	FIELD	Field*
Oxidation Reduction Potential	-9.30	mV		10/23/23 11:30	1	-500	10/23/23 11:30	FIELD	Field*
pH, Field Measured	6.82	pH Units		10/23/23 11:30	1		10/23/23 11:30	FIELD	Field*
Specific Conductance, Field Measured	3656	umhos/cm		10/23/23 11:30	1		10/23/23 11:30	FIELD	Field*
Temperature, Field Measured	14.4	°C		10/23/23 11:30	1		10/23/23 11:30	FIELD	Field*
Temperature, Field Measured	57.9	°F		10/23/23 11:30	1		10/23/23 11:30	FIELD	Field*
Turbidity, Field Measured	1670	NTU		10/23/23 11:30	1	0.00	10/23/23 11:30	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	500	mg/L		11/02/23 13:24	1	10	11/02/23 13:24	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/02/23 13:24	1	10	11/02/23 13:24	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		11/01/23 14:42	1	0.250	11/01/23 14:42	ANK	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	2900	mg/L		10/25/23 11:20	1	26	10/25/23 14:25	OGS	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		10/26/23 08:40	5	3.0	10/31/23 15:00	TJJ	EPA 6020A
Arsenic	50	ug/L		10/26/23 08:40	100	20	11/01/23 12:43	TJJ	EPA 6020A
Barium	630	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:00	TJJ	EPA 6020A
Beryllium	< 20	ug/L		10/26/23 08:40	100	20	11/01/23 12:43	TJJ	EPA 6020A
Boron	34000	ug/L		10/26/23 08:40	100	200	11/01/23 12:43	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:00	TJJ	EPA 6020A
Calcium	480	mg/L		10/26/23 08:40	5	0.20	10/31/23 15:00	TJJ	EPA 6020A
Chromium	190	ug/L		10/26/23 08:40	5	4.0	10/31/23 15:00	TJJ	EPA 6020A
Cobalt	120	ug/L		10/26/23 08:40	5	2.0	10/31/23 15:00	TJJ	EPA 6020A
Lead	110	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:00	TJJ	EPA 6020A
Magnesium	270	mg/L		10/26/23 08:40	5	0.10	10/31/23 15:00	TJJ	EPA 6020A
Mercury	0.23	ug/L		10/26/23 08:40	5	0.20	10/31/23 15:00	TJJ	EPA 6020A
Molybdenum	12	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:00	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04131-09

Name: OM25S

Matrix: Ground Water - Grab

Sampled: 10/23/23 11:30

Received: 10/23/23 17:34

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	23	mg/L		10/26/23 08:40	5	0.10	10/31/23 15:00	TJJ	EPA 6020A
Selenium	3.6	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:00	TJJ	EPA 6020A
Sodium	110	mg/L		10/26/23 08:40	5	0.10	10/31/23 15:00	TJJ	EPA 6020A
Thallium	1.1	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:00	TJJ	EPA 6020A
Lithium	0.27	mg/L		10/26/23 08:40	5	0.10	10/31/23 10:16	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GJ04131-10
Name: OR03D
Matrix: Ground Water - Grab

Sampled: 10/23/23 15:30
Received: 10/23/23 17:34
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	820	mg/L		10/24/23 15:47	250	250	10/24/23 15:47	TMS	EPA 300.0 REV 2.1
Sulfate	490	mg/L		10/24/23 15:47	250	250	10/24/23 15:47	TMS	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	45.26	Feet		10/23/23 15:30	1		10/23/23 15:30	FIELD	Field*
Dissolved oxygen, Field	8.9	mg/L		10/23/23 15:30	1		10/23/23 15:30	FIELD	Field*
Oxidation Reduction Potential	-29.1	mV		10/23/23 15:30	1	-500	10/23/23 15:30	FIELD	Field*
pH, Field Measured	7.45	pH Units		10/23/23 15:30	1		10/23/23 15:30	FIELD	Field*
Specific Conductance, Field Measured	3684	umhos/cm		10/23/23 15:30	1		10/23/23 15:30	FIELD	Field*
Temperature, Field Measured	22.2	°C		10/23/23 15:30	1		10/23/23 15:30	FIELD	Field*
Temperature, Field Measured	72.0	°F		10/23/23 15:30	1		10/23/23 15:30	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		10/23/23 15:30	1	0.00	10/23/23 15:30	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	500	mg/L		11/02/23 13:24	1	10	11/02/23 13:24	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/02/23 13:24	1	10	11/02/23 13:24	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		11/01/23 14:43	1	0.250	11/01/23 14:43	ANK	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	4800	mg/L		10/25/23 11:20	1	26	10/25/23 14:25	OGS	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		10/26/23 08:40	5	3.0	10/31/23 15:04	TJJ	EPA 6020A
Arsenic	20	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:04	TJJ	EPA 6020A
Barium	580	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:04	TJJ	EPA 6020A
Beryllium	3.9	ug/L		10/26/23 08:40	5	1.0	11/01/23 16:23	TJJ	EPA 6020A
Boron	27000	ug/L		10/26/23 08:40	100	200	11/01/23 12:47	wjm	EPA 6020A
Cadmium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:04	TJJ	EPA 6020A
Calcium	420	mg/L		10/26/23 08:40	5	0.20	10/31/23 15:04	TJJ	EPA 6020A
Chromium	140	ug/L		10/26/23 08:40	5	4.0	10/31/23 15:04	TJJ	EPA 6020A
Cobalt	68	ug/L		10/26/23 08:40	5	2.0	10/31/23 15:04	TJJ	EPA 6020A
Lead	50	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:04	TJJ	EPA 6020A
Magnesium	220	mg/L		10/26/23 08:40	5	0.10	10/31/23 15:04	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		10/26/23 08:40	5	0.20	10/31/23 15:04	TJJ	EPA 6020A
Molybdenum	11	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:04	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04131-10
Name: OR03D
Matrix: Ground Water - Grab

Sampled: 10/23/23 15:30
Received: 10/23/23 17:34
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	17	mg/L		10/26/23 08:40	5	0.10	10/31/23 15:04	TJJ	EPA 6020A
Selenium	5.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:04	TJJ	EPA 6020A
Sodium	160	mg/L		10/26/23 08:40	5	0.10	10/31/23 15:04	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:04	TJJ	EPA 6020A
Lithium	0.14	mg/L		10/26/23 08:40	5	0.10	10/31/23 10:17	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GJ04373-01
Name: OR20
Matrix: Ground Water - Grab

Sampled: 10/24/23 12:48
Received: 10/24/23 16:39
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	300	mg/L	Q4	10/25/23 12:08	100	100	10/25/23 12:08	CRD	EPA 300.0 REV 2.1
Sulfate	360	mg/L	Q4	10/25/23 12:08	100	100	10/25/23 12:08	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	22.42	Feet		10/24/23 12:48	1		10/24/23 12:48	FIELD	Field*
Dissolved oxygen, Field	2.3	mg/L		10/24/23 12:48	1		10/24/23 12:48	FIELD	Field*
Oxidation Reduction Potential	-48.0	mV		10/24/23 12:48	1	-500	10/24/23 12:48	FIELD	Field*
pH, Field Measured	6.85	pH Units		10/24/23 12:48	1		10/24/23 12:48	FIELD	Field*
Specific Conductance, Field Measured	2590	umhos/cm		10/24/23 12:48	1		10/24/23 12:48	FIELD	Field*
Temperature, Field Measured	58.4	°F		10/24/23 12:48	1		10/24/23 12:48	FIELD	Field*
Temperature, Field Measured	14.7	°C		10/24/23 12:48	1		10/24/23 12:48	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		10/24/23 12:48	1	0.00	10/24/23 12:48	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	500	mg/L		11/02/23 13:24	1	10	11/02/23 13:24	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/02/23 13:24	1	10	11/02/23 13:24	CPS	SM 2320B 1997*
Fluoride	0.499	mg/L		11/01/23 14:47	1	0.250	11/01/23 14:47	ANK	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1600	mg/L		10/27/23 09:57	1	26	10/27/23 11:44	LAL2	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		10/26/23 08:40	5	3.0	10/31/23 15:19	TJJ	EPA 6020A
Arsenic	44	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:19	TJJ	EPA 6020A
Barium	100	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:19	TJJ	EPA 6020A
Beryllium	1.1	ug/L		10/26/23 08:40	5	1.0	11/01/23 16:27	TJJ	EPA 6020A
Boron	31000	ug/L		10/26/23 08:40	100	200	11/01/23 12:51	wjm	EPA 6020A
Cadmium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:19	TJJ	EPA 6020A
Calcium	220	mg/L	Q4	10/26/23 08:40	5	0.20	10/31/23 15:19	TJJ	EPA 6020A
Chromium	22	ug/L		10/26/23 08:40	5	4.0	10/31/23 15:19	TJJ	EPA 6020A
Cobalt	13	ug/L		10/26/23 08:40	5	2.0	10/31/23 15:19	TJJ	EPA 6020A
Lead	19	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:19	TJJ	EPA 6020A
Magnesium	96	mg/L	Q4	10/26/23 08:40	5	0.10	10/31/23 15:19	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		10/26/23 08:40	5	0.20	10/31/23 15:19	TJJ	EPA 6020A
Molybdenum	42	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:19	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04373-01

Name: OR20

Matrix: Ground Water - Grab

Sampled: 10/24/23 12:48

Received: 10/24/23 16:39

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	8.6	mg/L		10/26/23 08:40	5	0.10	10/31/23 15:19	TJJ	EPA 6020A
Selenium	1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:19	TJJ	EPA 6020A
Sodium	160	mg/L	Q4	10/26/23 08:40	5	0.10	10/31/23 15:19	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:19	TJJ	EPA 6020A
Lithium	0.056	mg/L		10/26/23 08:40	1	0.020	10/31/23 09:52	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GJ04373-02
Name: OR11
Matrix: Ground Water - Grab

Sampled: 10/24/23 11:29
Received: 10/24/23 16:39
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	89	mg/L		10/25/23 12:51	25	25	10/25/23 12:51	CRD	EPA 300.0 REV 2.1
Sulfate	170	mg/L		10/25/23 12:51	25	25	10/25/23 12:51	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	32.35	Feet		10/24/23 11:29	1		10/24/23 11:29	FIELD	Field*
Dissolved oxygen, Field	5.2	mg/L		10/24/23 11:29	1		10/24/23 11:29	FIELD	Field*
Oxidation Reduction Potential	2.00	mV		10/24/23 11:29	1	-500	10/24/23 11:29	FIELD	Field*
pH, Field Measured	7.32	pH Units		10/24/23 11:29	1		10/24/23 11:29	FIELD	Field*
Specific Conductance, Field Measured	1350	umhos/cm		10/24/23 11:29	1		10/24/23 11:29	FIELD	Field*
Temperature, Field Measured	15.5	°C		10/24/23 11:29	1		10/24/23 11:29	FIELD	Field*
Temperature, Field Measured	59.8	°F		10/24/23 11:29	1		10/24/23 11:29	FIELD	Field*
Turbidity, Field Measured	450	NTU		10/24/23 11:29	1	0.00	10/24/23 11:29	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	400	mg/L		11/02/23 17:15	1	10	11/03/23 14:01	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/02/23 13:24	1	10	11/02/23 13:24	CPS	SM 2320B 1997*
Fluoride	0.296	mg/L		11/01/23 14:48	1	0.250	11/01/23 14:48	ANK	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	840	mg/L		10/27/23 09:57	1	26	10/27/23 11:44	LAL2	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		10/26/23 08:40	5	3.0	10/31/23 15:35	TJJ	EPA 6020A
Arsenic	2.7	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:35	TJJ	EPA 6020A
Barium	66	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:35	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		10/26/23 08:40	5	1.0	11/01/23 16:38	TJJ	EPA 6020A
Boron	11000	ug/L		10/26/23 08:40	100	200	11/01/23 13:02	wjm	EPA 6020A
Cadmium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:35	TJJ	EPA 6020A
Calcium	140	mg/L		10/26/23 08:40	5	0.20	10/31/23 15:35	TJJ	EPA 6020A
Chromium	5.9	ug/L		10/26/23 08:40	5	4.0	10/31/23 15:35	TJJ	EPA 6020A
Cobalt	3.6	ug/L		10/26/23 08:40	5	2.0	10/31/23 15:35	TJJ	EPA 6020A
Lead	3.9	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:35	TJJ	EPA 6020A
Magnesium	64	mg/L		10/26/23 08:40	5	0.10	10/31/23 15:35	TJJ	EPA 6020A
Mercury	0.27	ug/L		10/26/23 08:40	5	0.20	10/31/23 15:35	TJJ	EPA 6020A
Molybdenum	7.8	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:35	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04373-02

Name: OR11

Matrix: Ground Water - Grab

Sampled: 10/24/23 11:29

Received: 10/24/23 16:39

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	4.4	mg/L		10/26/23 08:40	5	0.10	10/31/23 15:35	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:35	TJJ	EPA 6020A
Sodium	33	mg/L		10/26/23 08:40	5	0.10	10/31/23 15:35	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:35	TJJ	EPA 6020A
Lithium	0.021	mg/L		10/26/23 08:40	1	0.020	10/31/23 10:09	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GJ04373-03
Name: OM16
Matrix: Ground Water - Grab

Sampled: 10/24/23 15:03
Received: 10/24/23 16:39
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	8.0	mg/L		10/25/23 13:34	5	5.0	10/25/23 13:34	CRD	EPA 300.0 REV 2.1
Sulfate	2000	mg/L		10/25/23 13:55	250	250	10/25/23 13:55	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	27.1	Feet		10/24/23 15:03	1		10/24/23 15:03	FIELD	Field*
Dissolved oxygen, Field	2.5	mg/L		10/24/23 15:03	1		10/24/23 15:03	FIELD	Field*
Oxidation Reduction Potential	-16.0	mV		10/24/23 15:03	1	-500	10/24/23 15:03	FIELD	Field*
pH, Field Measured	6.68	pH Units		10/24/23 15:03	1		10/24/23 15:03	FIELD	Field*
Specific Conductance, Field Measured	4020	umhos/cm		10/24/23 15:03	1		10/24/23 15:03	FIELD	Field*
Temperature, Field Measured	15.5	°C		10/24/23 15:03	1		10/24/23 15:03	FIELD	Field*
Temperature, Field Measured	59.9	°F		10/24/23 15:03	1		10/24/23 15:03	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		10/24/23 15:03	1	0.00	10/24/23 15:03	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	780	mg/L		11/02/23 17:15	1	10	11/03/23 14:01	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/02/23 13:24	1	10	11/02/23 13:24	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		11/01/23 14:49	1	0.250	11/01/23 14:49	ANK	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	3700	mg/L		10/27/23 09:57	1	26	10/27/23 11:44	LAL2	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		10/26/23 08:40	5	3.0	10/31/23 15:39	TJJ	EPA 6020A
Arsenic	8.6	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:39	TJJ	EPA 6020A
Barium	48	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:39	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		10/26/23 08:40	5	1.0	11/01/23 11:59	TJJ	EPA 6020A
Boron	66	ug/L		10/26/23 08:40	5	10	11/01/23 11:59	TJJ	EPA 6020A
Cadmium	7.6	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:39	TJJ	EPA 6020A
Calcium	530	mg/L		10/26/23 08:40	50	2.0	11/03/23 13:44	wjm	EPA 6020A
Chromium	12	ug/L		10/26/23 08:40	5	4.0	10/31/23 15:39	TJJ	EPA 6020A
Cobalt	12	ug/L		10/26/23 08:40	5	2.0	10/31/23 15:39	TJJ	EPA 6020A
Lead	6.3	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:39	TJJ	EPA 6020A
Magnesium	300	mg/L		10/26/23 08:40	5	0.10	10/31/23 15:39	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		10/26/23 08:40	5	0.20	10/31/23 15:39	TJJ	EPA 6020A
Molybdenum	1.2	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:39	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04373-03

Name: OM16

Matrix: Ground Water - Grab

Sampled: 10/24/23 15:03

Received: 10/24/23 16:39

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	2.9	mg/L		10/26/23 08:40	5	0.10	10/31/23 15:39	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:39	TJJ	EPA 6020A
Sodium	24	mg/L		10/26/23 08:40	5	0.10	10/31/23 15:39	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:39	TJJ	EPA 6020A
Lithium	0.030	mg/L		10/26/23 08:40	1	0.020	10/31/23 10:13	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GJ04373-05
Name: OR-11 FD
Matrix: Ground Water - Grab

Sampled: 10/24/23 11:29
Received: 10/24/23 16:39
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	88	mg/L		10/25/23 15:42	25	25	10/25/23 15:42	CRD	EPA 300.0 REV 2.1
Sulfate	170	mg/L		10/25/23 15:42	25	25	10/25/23 15:42	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	32.35	Feet		10/24/23 11:29	1		10/24/23 11:29	FIELD	Field*
Dissolved oxygen, Field	5.2	mg/L		10/24/23 11:29	1		10/24/23 11:29	FIELD	Field*
Oxidation Reduction Potential	2.00	mV		10/24/23 11:29	1	-500	10/24/23 11:29	FIELD	Field*
pH, Field Measured	7.32	pH Units		10/24/23 11:29	1		10/24/23 11:29	FIELD	Field*
Specific Conductance, Field Measured	1350	umhos/cm		10/24/23 11:29	1		10/24/23 11:29	FIELD	Field*
Temperature, Field Measured	15.5	°C		10/24/23 11:29	1		10/24/23 11:29	FIELD	Field*
Temperature, Field Measured	59.8	°F		10/24/23 11:29	1		10/24/23 11:29	FIELD	Field*
Turbidity, Field Measured	450	NTU		10/24/23 11:29	1	0.00	10/24/23 11:29	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	400	mg/L		11/02/23 13:24	1	10	11/02/23 13:24	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/02/23 13:24	1	10	11/02/23 13:24	CPS	SM 2320B 1997*
Fluoride	0.276	mg/L		11/01/23 14:50	1	0.250	11/01/23 14:50	ANK	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	800	mg/L		10/27/23 09:57	1	26	10/27/23 11:44	LAL2	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		10/26/23 08:40	5	3.0	10/31/23 15:43	TJJ	EPA 6020A
Arsenic	2.8	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:43	TJJ	EPA 6020A
Barium	65	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:43	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		10/26/23 08:40	5	1.0	11/01/23 16:42	TJJ	EPA 6020A
Boron	12000	ug/L		10/26/23 08:40	100	200	11/01/23 13:06	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:43	TJJ	EPA 6020A
Calcium	150	mg/L		10/26/23 08:40	5	0.20	10/31/23 15:43	TJJ	EPA 6020A
Chromium	5.6	ug/L		10/26/23 08:40	5	4.0	10/31/23 15:43	TJJ	EPA 6020A
Cobalt	3.2	ug/L		10/26/23 08:40	5	2.0	10/31/23 15:43	TJJ	EPA 6020A
Lead	3.6	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:43	TJJ	EPA 6020A
Magnesium	65	mg/L		10/26/23 08:40	5	0.10	10/31/23 15:43	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		10/26/23 08:40	5	0.20	10/31/23 15:43	TJJ	EPA 6020A
Molybdenum	7.7	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:43	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04373-05

Name: OR-11 FD

Matrix: Ground Water - Grab

Sampled: 10/24/23 11:29

Received: 10/24/23 16:39

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	4.5	mg/L		10/26/23 08:40	5	0.10	10/31/23 15:43	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:43	TJJ	EPA 6020A
Sodium	34	mg/L		10/26/23 08:40	5	0.10	10/31/23 15:43	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		10/26/23 08:40	5	1.0	10/31/23 15:43	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		10/26/23 08:40	1	0.020	10/31/23 10:15	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GJ04582-01
Name: OM04S
Matrix: Ground Water - Grab

Sampled: 10/25/23 10:15
Received: 10/25/23 16:56
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	16	mg/L	Q4, R	10/26/23 17:04	5	5.0	10/26/23 17:04	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L	Q3, R	10/26/23 16:10	1	0.250	10/26/23 16:10	TMS	EPA 300.0 REV 2.1
Sulfate	140	mg/L	Q4, R	10/26/23 17:22	25	25	10/26/23 17:22	TMS	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	21.31	Feet		10/25/23 10:15	1		10/25/23 10:15	FIELD	Field*
Dissolved oxygen, Field	8.3	mg/L		10/25/23 10:15	1		10/25/23 10:15	FIELD	Field*
Oxidation Reduction Potential	-1.00	mV		10/25/23 10:15	1	-500	10/25/23 10:15	FIELD	Field*
pH, Field Measured	7.40	pH Units		10/25/23 10:15	1		10/25/23 10:15	FIELD	Field*
Specific Conductance, Field Measured	1490	umhos/cm		10/25/23 10:15	1		10/25/23 10:15	FIELD	Field*
Temperature, Field Measured	15.2	°C		10/25/23 10:15	1		10/25/23 10:15	FIELD	Field*
Temperature, Field Measured	59.2	°F		10/25/23 10:15	1		10/25/23 10:15	FIELD	Field*
Turbidity, Field Measured	28.7	NTU		10/25/23 10:15	1	0.00	10/25/23 10:15	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	520	mg/L		11/07/23 09:23	1	10	11/07/23 09:23	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/07/23 09:23	1	10	11/07/23 09:23	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	780	mg/L		10/27/23 09:57	1	26	10/27/23 11:44	LAL2	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		11/01/23 09:04	5	3.0	11/06/23 14:03	wjm	EPA 6020A
Arsenic	2.2	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:03	wjm	EPA 6020A
Barium	53	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:03	wjm	EPA 6020A
Beryllium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:03	wjm	EPA 6020A
Boron	53	ug/L		11/01/23 09:04	5	10	11/07/23 09:04	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:03	wjm	EPA 6020A
Calcium	160	mg/L	Q4	11/01/23 09:04	5	0.20	11/06/23 14:03	wjm	EPA 6020A
Chromium	< 4.0	ug/L		11/01/23 09:04	5	4.0	11/06/23 14:03	wjm	EPA 6020A
Cobalt	6.3	ug/L		11/01/23 09:04	5	2.0	11/06/23 14:03	wjm	EPA 6020A
Lead	1.1	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:03	wjm	EPA 6020A
Magnesium	78	mg/L	Q4	11/01/23 09:04	5	0.10	11/06/23 14:03	wjm	EPA 6020A
Mercury	0.48	ug/L		11/01/23 09:04	5	0.20	11/06/23 14:03	wjm	EPA 6020A
Molybdenum	1.2	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:03	wjm	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04582-01

Name: OM04S

Matrix: Ground Water - Grab

Sampled: 10/25/23 10:15

Received: 10/25/23 16:56

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	0.60	mg/L		11/01/23 09:04	5	0.10	11/06/23 14:03	wjm	EPA 6020A
Selenium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:03	wjm	EPA 6020A
Sodium	15	mg/L		11/01/23 09:04	5	0.10	11/06/23 14:03	wjm	EPA 6020A
Thallium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:03	wjm	EPA 6020A
Lithium	< 0.020	mg/L		11/01/23 09:04	1	0.020	11/06/23 08:39	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GJ04582-02
Name: OM21
Matrix: Ground Water - Grab

Sampled: 10/25/23 15:38
Received: 10/25/23 16:56
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	270	mg/L		10/26/23 17:59	50	50	10/26/23 17:59	TMS	EPA 300.0 REV 2.1
Sulfate	1100	mg/L		10/26/23 18:17	250	250	10/26/23 18:17	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	12.64	Feet		10/25/23 15:38	1		10/25/23 15:38	FIELD	Field*
Dissolved oxygen, Field	0.59	mg/L		10/25/23 15:38	1		10/25/23 15:38	FIELD	Field*
Oxidation Reduction Potential	-35.0	mV		10/25/23 15:38	1	-500	10/25/23 15:38	FIELD	Field*
pH, Field Measured	6.70	pH Units		10/25/23 15:38	1		10/25/23 15:38	FIELD	Field*
Specific Conductance, Field Measured	3840	umhos/cm		10/25/23 15:38	1		10/25/23 15:38	FIELD	Field*
Temperature, Field Measured	59.5	°F		10/25/23 15:38	1		10/25/23 15:38	FIELD	Field*
Temperature, Field Measured	15.3	°C		10/25/23 15:38	1		10/25/23 15:38	FIELD	Field*
Turbidity, Field Measured	209	NTU		10/25/23 15:38	1	0.00	10/25/23 15:38	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	640	mg/L		11/07/23 09:23	1	10	11/07/23 09:23	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/07/23 09:23	1	10	11/07/23 09:23	CPS	SM 2320B 1997*
Fluoride	0.260	mg/L		11/01/23 14:51	1	0.250	11/01/23 14:51	ANK	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	2600	mg/L		10/27/23 13:11	1	26	10/27/23 14:54	LAL2	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		11/01/23 09:04	5	3.0	11/06/23 14:14	wjm	EPA 6020A
Arsenic	1.3	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:14	wjm	EPA 6020A
Barium	26	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:14	wjm	EPA 6020A
Beryllium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:14	wjm	EPA 6020A
Boron	8100	ug/L		11/01/23 09:04	20	40	11/07/23 10:08	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:14	wjm	EPA 6020A
Calcium	320	mg/L		11/01/23 09:04	5	0.20	11/06/23 14:14	wjm	EPA 6020A
Chromium	< 4.0	ug/L		11/01/23 09:04	5	4.0	11/06/23 14:14	wjm	EPA 6020A
Cobalt	< 2.0	ug/L		11/01/23 09:04	5	2.0	11/06/23 14:14	wjm	EPA 6020A
Lead	1.7	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:14	wjm	EPA 6020A
Magnesium	160	mg/L		11/01/23 09:04	5	0.10	11/06/23 14:14	wjm	EPA 6020A
Mercury	0.52	ug/L		11/01/23 09:04	5	0.20	11/06/23 14:14	wjm	EPA 6020A
Molybdenum	2.1	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:14	wjm	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04582-02

Name: OM21

Matrix: Ground Water - Grab

Sampled: 10/25/23 15:38

Received: 10/25/23 16:56

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	11	mg/L		11/01/23 09:04	5	0.10	11/06/23 14:14	wjm	EPA 6020A
Selenium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:14	wjm	EPA 6020A
Sodium	330	mg/L		11/01/23 09:04	5	0.10	11/06/23 14:14	wjm	EPA 6020A
Thallium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:14	wjm	EPA 6020A
Lithium	0.040	mg/L		11/01/23 09:04	1	0.020	11/06/23 08:54	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GJ04582-03
Name: OR04D
Matrix: Ground Water - Grab

Sampled: 10/25/23 11:37
Received: 10/25/23 16:56
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	1100	mg/L		10/26/23 19:47	250	250	10/26/23 19:47	TMS	EPA 300.0 REV 2.1
Sulfate	1100	mg/L		10/26/23 19:47	250	250	10/26/23 19:47	TMS	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	21.83	Feet		10/25/23 11:37	1		10/25/23 11:37	FIELD	Field*
Dissolved oxygen, Field	3.3	mg/L		10/25/23 11:37	1		10/25/23 11:37	FIELD	Field*
Oxidation Reduction Potential	-27.0	mV		10/25/23 11:37	1	-500	10/25/23 11:37	FIELD	Field*
pH, Field Measured	6.47	pH Units		10/25/23 11:37	1		10/25/23 11:37	FIELD	Field*
Specific Conductance, Field Measured	6410	umhos/cm		10/25/23 11:37	1		10/25/23 11:37	FIELD	Field*
Temperature, Field Measured	59.9	°F		10/25/23 11:37	1		10/25/23 11:37	FIELD	Field*
Temperature, Field Measured	15.5	°C		10/25/23 11:37	1		10/25/23 11:37	FIELD	Field*
Turbidity, Field Measured	821	NTU		10/25/23 11:37	1	0.00	10/25/23 11:37	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	440	mg/L		11/07/23 09:23	1	10	11/07/23 09:23	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/07/23 09:23	1	10	11/07/23 09:23	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		11/01/23 15:44	1	0.250	11/01/23 15:44	ANK	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	4000	mg/L		10/27/23 13:11	1	26	10/27/23 14:54	LAL2	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		11/01/23 09:04	5	3.0	11/06/23 14:18	wjm	EPA 6020A
Arsenic	4.9	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:18	wjm	EPA 6020A
Barium	51	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:18	wjm	EPA 6020A
Beryllium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:18	wjm	EPA 6020A
Boron	80000	ug/L		11/01/23 09:04	1000	2000	11/07/23 10:12	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:18	wjm	EPA 6020A
Calcium	660	mg/L		11/01/23 09:04	1000	40	11/06/23 16:30	TJJ	EPA 6020A
Chromium	7.5	ug/L		11/01/23 09:04	5	4.0	11/06/23 14:18	wjm	EPA 6020A
Cobalt	4.3	ug/L		11/01/23 09:04	5	2.0	11/06/23 14:18	wjm	EPA 6020A
Lead	4.2	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:18	wjm	EPA 6020A
Magnesium	260	mg/L		11/01/23 09:04	5	0.10	11/06/23 14:18	wjm	EPA 6020A
Mercury	0.21	ug/L		11/01/23 09:04	5	0.20	11/06/23 14:18	wjm	EPA 6020A
Molybdenum	5.2	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:18	wjm	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04582-03

Name: OR04D

Matrix: Ground Water - Grab

Sampled: 10/25/23 11:37

Received: 10/25/23 16:56

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	12	mg/L		11/01/23 09:04	5	0.10	11/06/23 14:18	wjm	EPA 6020A
Selenium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:18	wjm	EPA 6020A
Sodium	200	mg/L		11/01/23 09:04	5	0.10	11/06/23 14:18	wjm	EPA 6020A
Thallium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:18	wjm	EPA 6020A
Lithium	0.063	mg/L		11/01/23 09:04	1	0.020	11/06/23 09:04	BRS	EPA 6010B



ANALYTICAL RESULTS

Sample: GJ04582-04
Name: OR14D
Matrix: Ground Water - Grab

Sampled: 10/25/23 14:20
Received: 10/25/23 16:56
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	360	mg/L		10/26/23 20:23	100	100	10/26/23 20:23	TMS	EPA 300.0 REV 2.1
Sulfate	780	mg/L		10/26/23 20:23	100	100	10/26/23 20:23	TMS	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	11.99	Feet		10/25/23 14:20	1		10/25/23 14:20	FIELD	Field*
Dissolved oxygen, Field	2.3	mg/L		10/25/23 14:20	1		10/25/23 14:20	FIELD	Field*
Oxidation Reduction Potential	-42.0	mV		10/25/23 14:20	1	-500	10/25/23 14:20	FIELD	Field*
pH, Field Measured	7.00	pH Units		10/25/23 14:20	1		10/25/23 14:20	FIELD	Field*
Specific Conductance, Field Measured	3150	umhos/cm		10/25/23 14:20	1		10/25/23 14:20	FIELD	Field*
Temperature, Field Measured	16.7	°C		10/25/23 14:20	1		10/25/23 14:20	FIELD	Field*
Temperature, Field Measured	62.1	°F		10/25/23 14:20	1		10/25/23 14:20	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		10/25/23 14:20	1	0.00	10/25/23 14:20	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	410	mg/L		11/07/23 09:23	1	10	11/07/23 09:23	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/07/23 09:23	1	10	11/07/23 09:23	CPS	SM 2320B 1997*
Fluoride	0.253	mg/L		11/01/23 15:45	1	0.250	11/01/23 15:45	ANK	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	2200	mg/L		10/27/23 13:11	1	26	10/27/23 14:54	LAL2	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		11/01/23 09:04	5	3.0	11/06/23 14:22	wjm	EPA 6020A
Arsenic	30	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:22	wjm	EPA 6020A
Barium	260	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:22	wjm	EPA 6020A
Beryllium	2.2	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:22	wjm	EPA 6020A
Boron	19000	ug/L		11/01/23 09:04	100	200	11/07/23 10:16	TJJ	EPA 6020A
Cadmium	4.1	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:22	wjm	EPA 6020A
Calcium	480	mg/L		11/01/23 09:04	5	0.20	11/06/23 14:22	wjm	EPA 6020A
Chromium	65	ug/L		11/01/23 09:04	5	4.0	11/06/23 14:22	wjm	EPA 6020A
Cobalt	38	ug/L		11/01/23 09:04	5	2.0	11/06/23 14:22	wjm	EPA 6020A
Lead	49	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:22	wjm	EPA 6020A
Magnesium	160	mg/L		11/01/23 09:04	5	0.10	11/06/23 14:22	wjm	EPA 6020A
Mercury	0.23	ug/L		11/01/23 09:04	5	0.20	11/06/23 14:22	wjm	EPA 6020A
Molybdenum	14	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:22	wjm	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04582-04

Name: OR14D

Matrix: Ground Water - Grab

Sampled: 10/25/23 14:20

Received: 10/25/23 16:56

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	8.9	mg/L		11/01/23 09:04	5	0.10	11/06/23 14:22	wjm	EPA 6020A
Selenium	6.1	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:22	wjm	EPA 6020A
Sodium	52	mg/L		11/01/23 09:04	5	0.10	11/06/23 14:22	wjm	EPA 6020A
Thallium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:22	wjm	EPA 6020A
Lithium	0.083	mg/L		11/01/23 09:04	1	0.020	11/06/23 09:08	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GJ04582-05
Name: OR19
Matrix: Ground Water - Grab

Sampled: 10/25/23 13:00
Received: 10/25/23 16:56
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	160	mg/L		10/26/23 20:59	100	100	10/26/23 20:59	TMS	EPA 300.0 REV 2.1
Sulfate	920	mg/L		10/26/23 20:59	100	100	10/26/23 20:59	TMS	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	25.98	Feet		10/25/23 13:00	1		10/25/23 13:00	FIELD	Field*
Dissolved oxygen, Field	7.5	mg/L		10/25/23 13:00	1		10/25/23 13:00	FIELD	Field*
Oxidation Reduction Potential	-53.0	mV		10/25/23 13:00	1	-500	10/25/23 13:00	FIELD	Field*
pH, Field Measured	7.03	pH Units		10/25/23 13:00	1		10/25/23 13:00	FIELD	Field*
Specific Conductance, Field Measured	2950	umhos/cm		10/25/23 13:00	1		10/25/23 13:00	FIELD	Field*
Temperature, Field Measured	16.3	°C		10/25/23 13:00	1		10/25/23 13:00	FIELD	Field*
Temperature, Field Measured	61.3	°F		10/25/23 13:00	1		10/25/23 13:00	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		10/25/23 13:00	1	0.00	10/25/23 13:00	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	590	mg/L		11/07/23 09:23	1	10	11/07/23 09:23	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/07/23 09:23	1	10	11/07/23 09:23	CPS	SM 2320B 1997*
Fluoride	0.366	mg/L		11/01/23 15:46	1	0.250	11/01/23 15:46	ANK	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	2200	mg/L		10/27/23 13:11	1	26	10/27/23 14:54	LAL2	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		11/01/23 09:04	5	3.0	11/06/23 14:26	wjm	EPA 6020A
Arsenic	6.9	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:26	wjm	EPA 6020A
Barium	110	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:26	wjm	EPA 6020A
Beryllium	1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:26	wjm	EPA 6020A
Boron	13000	ug/L		11/01/23 09:04	100	200	11/07/23 10:20	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:26	wjm	EPA 6020A
Calcium	340	mg/L		11/01/23 09:04	5	0.20	11/06/23 14:26	wjm	EPA 6020A
Chromium	27	ug/L		11/01/23 09:04	5	4.0	11/06/23 14:26	wjm	EPA 6020A
Cobalt	12	ug/L		11/01/23 09:04	5	2.0	11/06/23 14:26	wjm	EPA 6020A
Lead	17	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:26	wjm	EPA 6020A
Magnesium	160	mg/L		11/01/23 09:04	5	0.10	11/06/23 14:26	wjm	EPA 6020A
Mercury	< 0.20	ug/L		11/01/23 09:04	5	0.20	11/06/23 14:26	wjm	EPA 6020A
Molybdenum	5.2	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:26	wjm	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04582-05
Name: OR19
Matrix: Ground Water - Grab

Sampled: 10/25/23 13:00
Received: 10/25/23 16:56
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	6.8	mg/L		11/01/23 09:04	5	0.10	11/06/23 14:26	wjm	EPA 6020A
Selenium	1.2	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:26	wjm	EPA 6020A
Sodium	140	mg/L		11/01/23 09:04	5	0.10	11/06/23 14:26	wjm	EPA 6020A
Thallium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:26	wjm	EPA 6020A
Lithium	0.037	mg/L		11/01/23 09:04	1	0.020	11/06/23 09:12	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GJ04861-06
Name: OM07
Matrix: Ground Water - Grab

Sampled: 10/26/23 12:04
Received: 10/27/23 07:15
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	7.2	mg/L		10/27/23 17:36	5	5.0	10/27/23 17:36	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		10/27/23 13:41	1	0.250	10/27/23 13:41	CRD	EPA 300.0 REV 2.1
Sulfate	170	mg/L		10/27/23 17:54	50	50	10/27/23 17:54	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	13.12	Feet		10/26/23 12:04	1		10/26/23 12:04	FIELD	Field*
Dissolved oxygen, Field	1.7	mg/L		10/26/23 12:04	1		10/26/23 12:04	FIELD	Field*
Oxidation Reduction Potential	-63.0	mV		10/26/23 12:04	1	-500	10/26/23 12:04	FIELD	Field*
pH, Field Measured	6.84	pH Units		10/26/23 12:04	1		10/26/23 12:04	FIELD	Field*
Specific Conductance, Field Measured	1260	umhos/cm		10/26/23 12:04	1		10/26/23 12:04	FIELD	Field*
Temperature, Field Measured	15.6	°C		10/26/23 12:04	1		10/26/23 12:04	FIELD	Field*
Temperature, Field Measured	60.1	°F		10/26/23 12:04	1		10/26/23 12:04	FIELD	Field*
Turbidity, Field Measured	10.9	NTU		10/26/23 12:04	1	0.00	10/26/23 12:04	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	500	mg/L		11/07/23 09:23	1	10	11/07/23 09:23	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/07/23 09:23	1	10	11/07/23 09:23	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	790	mg/L		10/27/23 13:11	1	26	10/27/23 14:54	LAL2	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		11/01/23 09:04	5	3.0	11/06/23 14:59	TJJ	EPA 6020A
Arsenic	1.3	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:59	TJJ	EPA 6020A
Barium	44	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:59	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:59	TJJ	EPA 6020A
Boron	450	ug/L		11/01/23 09:04	5	10	11/07/23 09:49	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:59	TJJ	EPA 6020A
Calcium	130	mg/L		11/01/23 09:04	5	0.20	11/06/23 14:59	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/01/23 09:04	5	4.0	11/06/23 14:59	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		11/01/23 09:04	5	2.0	11/06/23 14:59	TJJ	EPA 6020A
Lead	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:59	TJJ	EPA 6020A
Magnesium	71	mg/L		11/01/23 09:04	5	0.10	11/06/23 14:59	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/01/23 09:04	5	0.20	11/06/23 14:59	TJJ	EPA 6020A
Molybdenum	1.1	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:59	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04861-06

Name: OM07

Matrix: Ground Water - Grab

Sampled: 10/26/23 12:04

Received: 10/27/23 07:15

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	1.2	mg/L		11/01/23 09:04	5	0.10	11/06/23 14:59	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:59	TJJ	EPA 6020A
Sodium	58	mg/L		11/01/23 09:04	5	0.10	11/06/23 14:59	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 14:59	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		11/01/23 09:04	1	0.020	11/06/23 09:34	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GJ04861-07
Name: OM12
Matrix: Ground Water - Grab

Sampled: 10/26/23 10:45
Received: 10/27/23 07:15
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	< 5.0	mg/L		10/27/23 17:00	5	5.0	10/27/23 17:00	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		10/27/23 13:23	1	0.250	10/27/23 13:23	CRD	EPA 300.0 REV 2.1
Sulfate	380	mg/L		10/27/23 17:18	100	100	10/27/23 17:18	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	17.98	Feet		10/26/23 10:45	1		10/26/23 10:45	FIELD	Field*
Dissolved oxygen, Field	4.7	mg/L		10/26/23 10:45	1		10/26/23 10:45	FIELD	Field*
Oxidation Reduction Potential	-29.0	mV		10/26/23 10:45	1	-500	10/26/23 10:45	FIELD	Field*
pH, Field Measured	6.50	pH Units		10/26/23 10:45	1		10/26/23 10:45	FIELD	Field*
Specific Conductance, Field Measured	1700	umhos/cm		10/26/23 10:45	1		10/26/23 10:45	FIELD	Field*
Temperature, Field Measured	15.8	°C		10/26/23 10:45	1		10/26/23 10:45	FIELD	Field*
Temperature, Field Measured	60.4	°F		10/26/23 10:45	1		10/26/23 10:45	FIELD	Field*
Turbidity, Field Measured	514	NTU		10/26/23 10:45	1	0.00	10/26/23 10:45	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	750	mg/L		11/07/23 09:23	1	10	11/07/23 09:23	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/07/23 09:23	1	10	11/07/23 09:23	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1500	mg/L		10/27/23 13:11	1	26	10/27/23 14:54	LAL2	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		11/01/23 09:04	5	3.0	11/06/23 15:03	TJJ	EPA 6020A
Arsenic	54	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:03	TJJ	EPA 6020A
Barium	250	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:03	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:03	TJJ	EPA 6020A
Boron	59	ug/L		11/01/23 09:04	5	10	11/07/23 09:53	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:03	TJJ	EPA 6020A
Calcium	270	mg/L		11/01/23 09:04	5	0.20	11/06/23 15:03	TJJ	EPA 6020A
Chromium	5.2	ug/L		11/01/23 09:04	5	4.0	11/06/23 15:03	TJJ	EPA 6020A
Cobalt	4.2	ug/L		11/01/23 09:04	5	2.0	11/06/23 15:03	TJJ	EPA 6020A
Lead	6.2	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:03	TJJ	EPA 6020A
Magnesium	110	mg/L		11/01/23 09:04	5	0.10	11/06/23 15:03	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/01/23 09:04	5	0.20	11/06/23 15:03	TJJ	EPA 6020A
Molybdenum	4.6	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:03	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04861-07

Name: OM12

Matrix: Ground Water - Grab

Sampled: 10/26/23 10:45

Received: 10/27/23 07:15

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	1.5	mg/L		11/01/23 09:04	5	0.10	11/06/23 15:03	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:03	TJJ	EPA 6020A
Sodium	12	mg/L		11/01/23 09:04	5	0.10	11/06/23 15:03	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:03	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		11/01/23 09:04	1	0.020	11/06/23 09:38	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GJ04861-08
Name: OR06A
Matrix: Ground Water - Grab

Sampled: 10/26/23 14:40
Received: 10/27/23 07:15
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	510	mg/L		10/27/23 18:12	250	250	10/27/23 18:12	CRD	EPA 300.0 REV 2.1
Sulfate	650	mg/L		10/27/23 18:12	250	250	10/27/23 18:12	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	15.06	Feet		10/26/23 14:40	1		10/26/23 14:40	FIELD	Field*
Dissolved oxygen, Field	2.9	mg/L		10/26/23 14:40	1		10/26/23 14:40	FIELD	Field*
Oxidation Reduction Potential	-30.0	mV		10/26/23 14:40	1	-500	10/26/23 14:40	FIELD	Field*
pH, Field Measured	6.62	pH Units		10/26/23 14:40	1		10/26/23 14:40	FIELD	Field*
Specific Conductance, Field Measured	3430	umhos/cm		10/26/23 14:40	1		10/26/23 14:40	FIELD	Field*
Temperature, Field Measured	63.2	°F		10/26/23 14:40	1		10/26/23 14:40	FIELD	Field*
Temperature, Field Measured	17.3	°C		10/26/23 14:40	1		10/26/23 14:40	FIELD	Field*
Turbidity, Field Measured	368	NTU		10/26/23 14:40	1	0.00	10/26/23 14:40	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	340	mg/L		11/07/23 09:23	1	10	11/07/23 09:23	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/07/23 09:23	1	10	11/07/23 09:23	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		11/13/23 11:02	1	0.250	11/13/23 11:02	TTH	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	2800	mg/L		10/27/23 13:11	1	26	10/27/23 14:54	LAL2	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		11/01/23 09:04	5	3.0	11/06/23 15:07	TJJ	EPA 6020A
Arsenic	11	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:07	TJJ	EPA 6020A
Barium	40	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:07	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:07	TJJ	EPA 6020A
Boron	70000	ug/L		11/01/23 09:04	1000	2000	11/07/23 10:50	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:07	TJJ	EPA 6020A
Calcium	490	mg/L		11/01/23 09:04	5	0.20	11/06/23 15:07	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/01/23 09:04	5	4.0	11/06/23 15:07	TJJ	EPA 6020A
Cobalt	2.2	ug/L		11/01/23 09:04	5	2.0	11/06/23 15:07	TJJ	EPA 6020A
Lead	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:07	TJJ	EPA 6020A
Magnesium	130	mg/L		11/01/23 09:04	5	0.10	11/06/23 15:07	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/01/23 09:04	5	0.20	11/06/23 15:07	TJJ	EPA 6020A
Molybdenum	92	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:07	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04861-08

Name: OR06A

Matrix: Ground Water - Grab

Sampled: 10/26/23 14:40

Received: 10/27/23 07:15

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	2.9	mg/L		11/01/23 09:04	5	0.10	11/06/23 15:07	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:07	TJJ	EPA 6020A
Sodium	93	mg/L		11/01/23 09:04	5	0.10	11/06/23 15:07	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:07	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		11/01/23 09:04	1	0.020	11/06/23 09:42	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GJ04861-09
Name: OR13D
Matrix: Ground Water - Grab

Sampled: 10/26/23 13:23
Received: 10/27/23 07:15
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	37	mg/L		10/27/23 18:30	10	10	10/27/23 18:30	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		10/27/23 14:17	1	0.250	10/27/23 14:17	CRD	EPA 300.0 REV 2.1
Sulfate	280	mg/L		10/27/23 18:48	100	100	10/27/23 18:48	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	14.66	Feet		10/26/23 13:23	1		10/26/23 13:23	FIELD	Field*
Dissolved oxygen, Field	3.3	mg/L		10/26/23 13:23	1		10/26/23 13:23	FIELD	Field*
Oxidation Reduction Potential	-53.0	mV		10/26/23 13:23	1	-500	10/26/23 13:23	FIELD	Field*
pH, Field Measured	6.83	pH Units		10/26/23 13:23	1		10/26/23 13:23	FIELD	Field*
Specific Conductance, Field Measured	1920	umhos/cm		10/26/23 13:23	1		10/26/23 13:23	FIELD	Field*
Temperature, Field Measured	15.7	°C		10/26/23 13:23	1		10/26/23 13:23	FIELD	Field*
Temperature, Field Measured	60.3	°F		10/26/23 13:23	1		10/26/23 13:23	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		10/26/23 13:23	1	0.00	10/26/23 13:23	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	700	mg/L		11/07/23 09:23	1	10	11/07/23 09:23	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/07/23 09:23	1	10	11/07/23 09:23	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1200	mg/L		10/27/23 13:11	1	26	10/27/23 14:54	LAL2	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		11/01/23 09:04	5	3.0	11/06/23 15:11	TJJ	EPA 6020A
Arsenic	30	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:11	TJJ	EPA 6020A
Barium	120	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:11	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:11	TJJ	EPA 6020A
Boron	1800	ug/L		11/01/23 09:04	5	10	11/07/23 09:57	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:11	TJJ	EPA 6020A
Calcium	130	mg/L		11/01/23 09:04	5	0.20	11/06/23 15:11	TJJ	EPA 6020A
Chromium	30	ug/L		11/01/23 09:04	5	4.0	11/06/23 15:11	TJJ	EPA 6020A
Cobalt	6.2	ug/L		11/01/23 09:04	5	2.0	11/06/23 15:11	TJJ	EPA 6020A
Lead	11	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:11	TJJ	EPA 6020A
Magnesium	67	mg/L		11/01/23 09:04	5	0.10	11/06/23 15:11	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/01/23 09:04	5	0.20	11/06/23 15:11	TJJ	EPA 6020A
Molybdenum	9.4	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:11	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04861-09

Name: OR13D

Matrix: Ground Water - Grab

Sampled: 10/26/23 13:23

Received: 10/27/23 07:15

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	9.1	mg/L		11/01/23 09:04	5	0.10	11/06/23 15:11	TJJ	EPA 6020A
Selenium	1.3	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:11	TJJ	EPA 6020A
Sodium	250	mg/L		11/01/23 09:04	5	0.10	11/06/23 15:11	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		11/01/23 09:04	5	1.0	11/06/23 15:11	TJJ	EPA 6020A
Lithium	0.032	mg/L		11/01/23 09:04	1	0.020	11/06/23 09:47	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GJ04997-11
Name: OR02
Matrix: Ground Water - Grab

Sampled: 10/27/23 13:30
Received: 10/27/23 16:49
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	190	mg/L	Q3	10/28/23 04:48	50	50	10/28/23 04:48	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		10/28/23 04:29	1	0.250	10/28/23 04:29	CRD	EPA 300.0 REV 2.1
Sulfate	230	mg/L	Q4	10/28/23 04:48	50	50	10/28/23 04:48	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	7.01	Feet		10/27/23 13:30	1		10/27/23 13:30	FIELD	Field*
Dissolved oxygen, Field	2.3	mg/L		10/27/23 13:30	1		10/27/23 13:30	FIELD	Field*
Oxidation Reduction Potential	-15.0	mV		10/27/23 13:30	1	-500	10/27/23 13:30	FIELD	Field*
pH, Field Measured	7.01	pH Units		10/27/23 13:30	1		10/27/23 13:30	FIELD	Field*
Specific Conductance, Field Measured	1920	umhos/cm		10/27/23 13:30	1		10/27/23 13:30	FIELD	Field*
Temperature, Field Measured	15.7	°C		10/27/23 13:30	1		10/27/23 13:30	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		10/27/23 13:30	1	0.00	10/27/23 13:30	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/09/23 14:47	1	10	11/09/23 14:47	LAL2/CP S	SM 2320B 1997*
Alkalinity Soluble - carbonate as CaCO ₃	< 10	mg/L		11/09/23 14:47	1	10	11/09/23 14:47	LAL2/CP S	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1300	mg/L	M	11/01/23 10:19	1	26	11/01/23 11:58	LAL2	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		11/02/23 08:47	5	3.0	11/09/23 10:56	TJJ	EPA 6020A
Arsenic	28	ug/L		11/02/23 08:47	5	1.0	11/10/23 09:52	TJJ	EPA 6020A
Barium	220	ug/L		11/02/23 08:47	5	1.0	11/09/23 10:56	TJJ	EPA 6020A
Beryllium	1.4	ug/L		11/02/23 08:47	5	1.0	11/10/23 09:52	TJJ	EPA 6020A
Boron	5000	ug/L		11/02/23 08:47	5	10	11/10/23 09:52	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/09/23 10:56	TJJ	EPA 6020A
Calcium	230	mg/L		11/02/23 08:47	5	0.20	11/09/23 10:56	TJJ	EPA 6020A
Chromium	37	ug/L		11/02/23 08:47	5	4.0	11/09/23 10:56	TJJ	EPA 6020A
Cobalt	24	ug/L		11/02/23 08:47	5	2.0	11/09/23 10:56	TJJ	EPA 6020A
Lead	34	ug/L		11/02/23 08:47	5	1.0	11/09/23 10:56	TJJ	EPA 6020A
Magnesium	90	mg/L		11/02/23 08:47	5	0.10	11/09/23 10:56	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/02/23 08:47	5	0.20	11/09/23 10:56	TJJ	EPA 6020A
Molybdenum	9.4	ug/L		11/02/23 08:47	5	1.0	11/09/23 10:56	TJJ	EPA 6020A
Potassium	4.2	mg/L		11/02/23 08:47	5	0.10	11/09/23 10:56	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04997-11
Name: OR02
Matrix: Ground Water - Grab

Sampled: 10/27/23 13:30
Received: 10/27/23 16:49
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	3.1	ug/L		11/02/23 08:47	5	1.0	11/14/23 11:25	KMC	EPA 6020A
Sodium	100	mg/L	Q4	11/02/23 08:47	5	0.10	11/09/23 10:56	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/09/23 10:56	TJJ	EPA 6020A
Lithium	0.023	mg/L		11/02/23 08:47	1	0.020	11/06/23 10:12	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GJ04997-14
Name: OM01
Matrix: Ground Water - Grab

Sampled: 10/27/23 13:40
Received: 10/27/23 16:49
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	30	mg/L		10/28/23 06:03	5	5.0	10/28/23 06:03	CRD	EPA 300.0 REV 2.1
Sulfate	1800	mg/L		10/28/23 06:22	250	250	10/28/23 06:22	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	13.42	Feet		10/27/23 13:40	1		10/27/23 13:40	FIELD	Field*
Dissolved oxygen, Field	2.2	mg/L		10/27/23 13:40	1		10/27/23 13:40	FIELD	Field*
Oxidation Reduction Potential	-33.0	mV		10/27/23 13:40	1	-500	10/27/23 13:40	FIELD	Field*
pH, Field Measured	6.80	pH Units		10/27/23 13:40	1		10/27/23 13:40	FIELD	Field*
Specific Conductance, Field Measured	3590	umhos/cm		10/27/23 13:40	1		10/27/23 13:40	FIELD	Field*
Temperature, Field Measured	16.0	°C		10/27/23 13:40	1		10/27/23 13:40	FIELD	Field*
Temperature, Field Measured	60.8	°F		10/27/23 13:40	1		10/27/23 13:40	FIELD	Field*
Turbidity, Field Measured	209	NTU		10/27/23 13:40	1	0.00	10/27/23 13:40	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	540	mg/L		11/09/23 14:47	1	10	11/09/23 14:47	LAL2/CP S	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/09/23 14:47	1	10	11/09/23 14:47	LAL2/CP S	SM 2320B 1997*
Fluoride	< 0.250	mg/L		11/13/23 10:56	1	0.250	11/13/23 10:56	TTH	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	3500	mg/L		11/01/23 13:44	1	26	11/01/23 15:44	LAL2	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		11/02/23 08:47	5	3.0	11/09/23 11:34	TJJ	EPA 6020A
Arsenic	5.3	ug/L		11/02/23 08:47	5	1.0	11/10/23 10:19	TJJ	EPA 6020A
Barium	120	ug/L		11/02/23 08:47	5	1.0	11/09/23 11:34	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/10/23 10:19	TJJ	EPA 6020A
Boron	210	ug/L		11/02/23 08:47	5	10	11/10/23 10:19	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/09/23 11:34	TJJ	EPA 6020A
Calcium	590	mg/L		11/02/23 08:47	100	4.0	11/10/23 10:59	TJJ	EPA 6020A
Chromium	13	ug/L		11/02/23 08:47	5	4.0	11/09/23 11:34	TJJ	EPA 6020A
Cobalt	23	ug/L		11/02/23 08:47	5	2.0	11/09/23 11:34	TJJ	EPA 6020A
Lead	6.1	ug/L		11/02/23 08:47	5	1.0	11/09/23 11:34	TJJ	EPA 6020A
Magnesium	250	mg/L		11/02/23 08:47	5	0.10	11/09/23 11:34	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/02/23 08:47	5	0.20	11/09/23 11:34	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/09/23 11:34	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04997-14

Name: OM01

Matrix: Ground Water - Grab

Sampled: 10/27/23 13:40

Received: 10/27/23 16:49

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	1.9	mg/L		11/02/23 08:47	5	0.10	11/09/23 11:34	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/10/23 10:19	TJJ	EPA 6020A
Sodium	28	mg/L		11/02/23 08:47	5	0.10	11/09/23 11:34	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/09/23 11:34	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		11/02/23 08:47	1	0.020	11/06/23 10:36	BRS	EPA 6010B



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ANALYTICAL RESULTS

Sample: GJ04997-18
Name: OM01 FD
Matrix: Ground Water - Field Duplicate

Sampled: 10/27/23 13:40
Received: 10/27/23 16:49
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	30	mg/L		10/28/23 07:57	5	5.0	10/28/23 07:57	CRD	EPA 300.0 REV 2.1
Sulfate	1800	mg/L		10/28/23 08:15	250	250	10/28/23 08:15	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	13.42	Feet		10/27/23 13:40	1		10/27/23 13:40	FIELD	Field*
Dissolved oxygen, Field	2.2	mg/L		10/27/23 13:40	1		10/27/23 13:40	FIELD	Field*
Oxidation Reduction Potential	-33.0	mV		10/27/23 13:40	1	-500	10/27/23 13:40	FIELD	Field*
pH, Field Measured	6.80	pH Units		10/27/23 13:40	1		10/27/23 13:40	FIELD	Field*
Specific Conductance, Field Measured	3590	umhos/cm		10/27/23 13:40	1		10/27/23 13:40	FIELD	Field*
Temperature, Field Measured	16.0	°C		10/27/23 13:40	1		10/27/23 13:40	FIELD	Field*
Temperature, Field Measured	60.8	°F		10/27/23 13:40	1		10/27/23 13:40	FIELD	Field*
Turbidity, Field Measured	209	NTU		10/27/23 13:40	1	0.00	10/27/23 13:40	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	500	mg/L		11/09/23 14:47	1	10	11/09/23 14:47	LAL2/CP S	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		11/09/23 14:47	1	10	11/09/23 14:47	LAL2/CP S	SM 2320B 1997*
Fluoride	< 0.250	mg/L		11/13/23 11:01	1	0.250	11/13/23 11:01	TTH	SM 4500F C 1997
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	3500	mg/L		11/01/23 13:44	1	26	11/01/23 15:44	LAL2	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		11/02/23 08:47	5	3.0	11/09/23 11:38	TJJ	EPA 6020A
Arsenic	4.8	ug/L		11/02/23 08:47	5	1.0	11/10/23 10:48	TJJ	EPA 6020A
Barium	110	ug/L		11/02/23 08:47	5	1.0	11/09/23 11:38	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/10/23 10:48	TJJ	EPA 6020A
Boron	210	ug/L		11/02/23 08:47	5	10	11/10/23 10:48	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/09/23 11:38	TJJ	EPA 6020A
Calcium	600	mg/L		11/02/23 08:47	100	4.0	11/10/23 11:03	TJJ	EPA 6020A
Chromium	11	ug/L		11/02/23 08:47	5	4.0	11/09/23 11:38	TJJ	EPA 6020A
Cobalt	23	ug/L		11/02/23 08:47	5	2.0	11/09/23 11:38	TJJ	EPA 6020A
Lead	5.6	ug/L		11/02/23 08:47	5	1.0	11/09/23 11:38	TJJ	EPA 6020A
Magnesium	250	mg/L		11/02/23 08:47	5	0.10	11/09/23 11:38	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/02/23 08:47	5	0.20	11/09/23 11:38	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/09/23 11:38	TJJ	EPA 6020A



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ANALYTICAL RESULTS

Sample: GJ04997-18
Name: OM01 FD
Matrix: Ground Water - Field Duplicate

Sampled: 10/27/23 13:40
Received: 10/27/23 16:49
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Potassium	1.5	mg/L		11/02/23 08:47	5	0.10	11/09/23 11:38	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/10/23 10:48	TJJ	EPA 6020A
Sodium	29	mg/L		11/02/23 08:47	5	0.10	11/09/23 11:38	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/09/23 11:38	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		11/02/23 08:47	1	0.020	11/06/23 10:53	BRS	EPA 6010B



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B346859 - SW 3015 - EPA 6010B</u>									
Blank (B346859-BLK1)					Prepared: 10/19/23	Analyzed: 10/25/23			
Lithium	< 0.020	mg/L							
LCS (B346859-BS1)					Prepared: 10/19/23	Analyzed: 10/25/23			
Lithium	0.558	mg/L		0.5556		101	80-120		
Matrix Spike (B346859-MS1)		Sample: GJ03182-01			Prepared: 10/19/23	Analyzed: 10/25/23			
Lithium	0.556	mg/L		0.5556	ND	100	75-125		
Matrix Spike Dup (B346859-MSD1)		Sample: GJ03182-01			Prepared: 10/19/23	Analyzed: 10/25/23			
Lithium	0.560	mg/L		0.5556	ND	101	75-125	0.8	20
<u>Batch B346859 - SW 3015 - EPA 6020A</u>									
Blank (B346859-BLK1)					Prepared & Analyzed: 10/19/23				
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
LCS (B346859-BS1)					Prepared & Analyzed: 10/19/23				
Antimony	548	ug/L		555.6		99	80-120		
Arsenic	532	ug/L		555.6		96	80-120		
Barium	529	ug/L		555.6		95	80-120		
Beryllium	523	ug/L		555.6		94	80-120		
Boron	515	ug/L		555.6		93	80-120		
Cadmium	530	ug/L		555.6		95	80-120		
Calcium	5.69	mg/L		5.556		102	80-120		
Chromium	534	ug/L		555.6		96	80-120		
Cobalt	554	ug/L		555.6		100	80-120		
Lead	533	ug/L		555.6		96	80-120		
Magnesium	5.73	mg/L		5.556		103	80-120		
Mercury	50.2	ug/L		55.56		90	80-120		
Molybdenum	528	ug/L		555.6		95	80-120		
Potassium	5.76	mg/L		5.556		104	80-120		
Selenium	552	ug/L		555.6		99	80-120		
Sodium	5.58	mg/L		5.556		100	80-120		



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B346859-BS1)	Prepared & Analyzed: 10/19/23								
Thallium	544	ug/L		555.6	98	80-120			
Matrix Spike (B346859-MS1)	Sample: GJ03182-01		Prepared & Analyzed: 10/19/23						
Antimony	561	ug/L		555.6	ND	101	75-125		
Arsenic	543	ug/L		555.6	ND	98	75-125		
Barium	705	ug/L		555.6	146	101	75-125		
Beryllium	534	ug/L		555.6	ND	96	75-125		
Boron	599	ug/L		555.6	16.0	105	75-125		
Cadmium	542	ug/L		555.6	ND	98	75-125		
Calcium	108	mg/L		5.556	102	108	75-125		
Chromium	541	ug/L		555.6	ND	97	75-125		
Cobalt	554	ug/L		555.6	ND	100	75-125		
Lead	540	ug/L		555.6	0.300	97	75-125		
Magnesium	57.6	mg/L		5.556	52.7	88	75-125		
Mercury	54.7	ug/L		55.56	ND	98	75-125		
Molybdenum	552	ug/L		555.6	1.79	99	75-125		
Potassium	6.63	mg/L		5.556	0.725	106	75-125		
Selenium	566	ug/L		555.6	1.31	102	75-125		
Sodium	12.9	mg/L		5.556	7.28	101	75-125		
Thallium	557	ug/L		555.6	ND	100	75-125		
Matrix Spike Dup (B346859-MSD1)	Sample: GJ03182-01		Prepared & Analyzed: 10/19/23						
Antimony	551	ug/L		555.6	ND	99	75-125	2	20
Arsenic	530	ug/L		555.6	ND	95	75-125	2	20
Barium	696	ug/L		555.6	146	99	75-125	1	20
Beryllium	514	ug/L		555.6	ND	92	75-125	4	20
Boron	592	ug/L		555.6	16.0	104	75-125	1	20
Cadmium	536	ug/L		555.6	ND	97	75-125	1	20
Calcium	106	mg/L		5.556	102	78	75-125	2	20
Chromium	535	ug/L		555.6	ND	96	75-125	1	20
Cobalt	544	ug/L		555.6	ND	98	75-125	2	20
Lead	522	ug/L		555.6	0.300	94	75-125	3	20
Magnesium	57.1	mg/L		5.556	52.7	79	75-125	0.9	20
Mercury	52.2	ug/L		55.56	ND	94	75-125	5	20
Molybdenum	542	ug/L		555.6	1.79	97	75-125	2	20
Potassium	6.50	mg/L		5.556	0.725	104	75-125	2	20
Selenium	557	ug/L		555.6	1.31	100	75-125	2	20
Sodium	12.7	mg/L		5.556	7.28	98	75-125	1	20
Thallium	533	ug/L		555.6	ND	96	75-125	4	20

Batch B346878 - IC No Prep - EPA 300.0 REV 2.1

Matrix Spike (B346878-MS1)	Sample: GJ03182-01	Prepared & Analyzed: 10/18/23							
Sulfate	1.00E9	mg/L	Q4	1.500	14.1	NR	80-120		
Chloride	6.7	mg/L		1.500	5.3	93	80-120		
Fluoride	1.49	mg/L		1.500	ND	99	80-120		
Matrix Spike Dup (B346878-MSD1)	Sample: GJ03182-01		Prepared & Analyzed: 10/18/23						
Sulfate	1.00E9	mg/L	Q4	1.500	14.1	NR	80-120	0	20
Fluoride	1.52	mg/L		1.500	ND	102	80-120	2	20
Chloride	6.5	mg/L		1.500	5.3	83	80-120	2	20



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B346913 - No Prep - SM 2540C</u>									
Blank (B346913-BLK1)					Prepared & Analyzed: 10/19/23				
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B346913-BS1)					Prepared & Analyzed: 10/19/23				
Solids - total dissolved solids (TDS)	913	mg/L		1000	91	84.9-109			
Duplicate (B346913-DUP1)			Sample: GJ03182-03		Prepared & Analyzed: 10/19/23				
Solids - total dissolved solids (TDS)	920	mg/L			930		1	5	
Duplicate (B346913-DUP2)			Sample: GJ03182-09		Prepared & Analyzed: 10/19/23				
Solids - total dissolved solids (TDS)	< 17	mg/L			ND				5
<u>Batch B347107 - SW 3015 - EPA 6010B</u>									
Blank (B347107-BLK1)					Prepared: 10/23/23 Analyzed: 10/25/23				
Lithium	< 0.020	mg/L							
LCS (B347107-BS1)					Prepared: 10/23/23 Analyzed: 10/25/23				
Lithium	0.563	mg/L		0.5556	101	80-120			
Matrix Spike (B347107-MS1)			Sample: GJ03740-01		Prepared: 10/23/23 Analyzed: 10/25/23				
Lithium	0.578	mg/L		0.5556	0.00626	103	75-125		
Matrix Spike Dup (B347107-MSD1)			Sample: GJ03740-01		Prepared: 10/23/23 Analyzed: 10/25/23				
Lithium	0.549	mg/L		0.5556	0.00626	98	75-125	5	20
<u>Batch B347107 - SW 3015 - EPA 6020A</u>									
Blank (B347107-BLK1)					Prepared: 10/23/23 Analyzed: 10/25/23				
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
LCS (B347107-BS1)					Prepared: 10/23/23 Analyzed: 10/25/23				
Antimony	560	ug/L		555.6	101	80-120			
Arsenic	508	ug/L		555.6	91	80-120			
Barium	551	ug/L		555.6	99	80-120			
Beryllium	517	ug/L		555.6	93	80-120			
Boron	518	ug/L		555.6	93	80-120			
Cadmium	504	ug/L		555.6	91	80-120			
Calcium	5.61	mg/L		5.556	101	80-120			



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B347107-BS1)									
Chromium	574	ug/L		555.6	103	80-120			
Cobalt	559	ug/L		555.6	101	80-120			
Lead	538	ug/L		555.6	97	80-120			
Magnesium	5.79	mg/L		5.556	104	80-120			
Mercury	50.4	ug/L		55.56	91	80-120			
Molybdenum	490	ug/L		555.6	88	80-120			
Potassium	5.80	mg/L		5.556	104	80-120			
Selenium	549	ug/L		555.6	99	80-120			
Sodium	5.71	mg/L		5.556	103	80-120			
Thallium	538	ug/L		555.6	97	80-120			
Matrix Spike (B347107-MS1)									
	Sample: GJ03740-01			Prepared: 10/23/23 Analyzed: 10/25/23					
Antimony	571	ug/L		555.6	ND	103	75-125		
Arsenic	529	ug/L		555.6	1.90	95	75-125		
Barium	610	ug/L		555.6	50.0	101	75-125		
Beryllium	529	ug/L		555.6	ND	95	75-125		
Boron	618	ug/L		555.6	80.6	97	75-125		
Cadmium	518	ug/L		555.6	ND	93	75-125		
Calcium	206	mg/L		5.556	201	88	75-125		
Chromium	568	ug/L		555.6	ND	102	75-125		
Cobalt	551	ug/L		555.6	0.517	99	75-125		
Lead	541	ug/L		555.6	ND	97	75-125		
Magnesium	106	mg/L	Q4	5.556	102	73	75-125		
Mercury	53.5	ug/L		55.56	ND	96	75-125		
Molybdenum	517	ug/L		555.6	2.04	93	75-125		
Potassium	8.20	mg/L		5.556	2.38	105	75-125		
Selenium	566	ug/L		555.6	ND	102	75-125		
Sodium	49.9	mg/L		5.556	44.9	91	75-125		
Thallium	544	ug/L		555.6	ND	98	75-125		
Matrix Spike Dup (B347107-MSD1)									
	Sample: GJ03740-01			Prepared: 10/23/23 Analyzed: 10/25/23					
Antimony	566	ug/L		555.6	ND	102	75-125	0.8	20
Arsenic	526	ug/L		555.6	1.90	94	75-125	0.5	20
Barium	604	ug/L		555.6	50.0	100	75-125	1	20
Beryllium	536	ug/L		555.6	ND	97	75-125	1	20
Boron	636	ug/L		555.6	80.6	100	75-125	3	20
Cadmium	517	ug/L		555.6	ND	93	75-125	0.1	20
Calcium	207	mg/L		5.556	201	110	75-125	0.6	20
Chromium	561	ug/L		555.6	ND	101	75-125	1	20
Cobalt	545	ug/L		555.6	0.517	98	75-125	1	20
Lead	538	ug/L		555.6	ND	97	75-125	0.6	20
Magnesium	106	mg/L	Q4	5.556	102	72	75-125	0.04	20
Mercury	53.7	ug/L		55.56	ND	97	75-125	0.4	20
Molybdenum	513	ug/L		555.6	2.04	92	75-125	0.7	20
Potassium	8.15	mg/L		5.556	2.38	104	75-125	0.7	20
Selenium	565	ug/L		555.6	ND	102	75-125	0.1	20
Sodium	50.1	mg/L		5.556	44.9	94	75-125	0.3	20
Thallium	541	ug/L		555.6	ND	97	75-125	0.5	20



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B347264 - No Prep - SM 2540C</u>									
Blank (B347264-BLK1)					Prepared & Analyzed: 10/24/23				
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B347264-BS1)					Prepared & Analyzed: 10/24/23				
Solids - total dissolved solids (TDS)	947	mg/L		1000	95	84.9-109			
Duplicate (B347264-DUP1)	Sample: GJ03740-03				Prepared & Analyzed: 10/24/23				
Solids - total dissolved solids (TDS)	450	mg/L			430			5	5
<u>Batch B347379 - No Prep - SM 2540C</u>									
Blank (B347379-BLK1)					Prepared & Analyzed: 10/25/23				
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B347379-BS1)					Prepared & Analyzed: 10/25/23				
Solids - total dissolved solids (TDS)	947	mg/L		1000	95	84.9-109			
Duplicate (B347379-DUP1)	Sample: GJ04131-01				Prepared & Analyzed: 10/25/23				
Solids - total dissolved solids (TDS)	555	mg/L			580			4	5
Duplicate (B347379-DUP2)	Sample: GJ04131-08				Prepared & Analyzed: 10/25/23				
Solids - total dissolved solids (TDS)	2690	mg/L			2560			5	5
<u>Batch B347400 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B347400-MS2)	Sample: GJ03740-01				Prepared & Analyzed: 10/25/23				
Chloride	1.0E9	mg/L	Q4	1.500	8.3	NR	80-120		
Matrix Spike Dup (B347400-MSD2)	Sample: GJ03740-01				Prepared & Analyzed: 10/25/23				
Chloride	1.0E9	mg/L	Q4	1.500	8.3	NR	80-120	0	20
<u>Batch B347462 - SW 3015 - EPA 6010B</u>									
Blank (B347462-BLK1)					Prepared: 10/26/23	Analyzed: 10/31/23			
Lithium	< 0.020	mg/L							
LCS (B347462-BS1)					Prepared: 10/26/23	Analyzed: 10/31/23			
Lithium	0.580	mg/L		0.5556		104	80-120		
Matrix Spike (B347462-MS1)	Sample: GJ04373-01				Prepared: 10/26/23	Analyzed: 10/31/23			
Lithium	0.585	mg/L		0.5556	0.0558	95	75-125		
Matrix Spike Dup (B347462-MSD1)	Sample: GJ04373-01				Prepared: 10/26/23	Analyzed: 10/31/23			
Lithium	0.601	mg/L		0.5556	0.0558	98	75-125	3	20
<u>Batch B347462 - SW 3015 - EPA 6020A</u>									
Blank (B347462-BLK1)					Prepared: 10/26/23	Analyzed: 10/31/23			
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit				
Blank (B347462-BLK1)					Prepared: 10/26/23 Analyzed: 10/31/23								
Mercury	< 0.20	ug/L											
Molybdenum	< 1.0	ug/L											
Potassium	< 0.10	mg/L											
Selenium	< 1.0	ug/L											
Sodium	< 0.10	mg/L											
Thallium	< 1.0	ug/L											
LCS (B347462-BS1)					Prepared: 10/26/23 Analyzed: 10/31/23								
Antimony	538	ug/L		555.6		97	80-120						
Arsenic	533	ug/L		555.6		96	80-120						
Barium	541	ug/L		555.6		97	80-120						
Beryllium	515	ug/L		555.6		93	80-120						
Boron	507	ug/L		555.6		91	80-120						
Cadmium	533	ug/L		555.6		96	80-120						
Calcium	5.48	mg/L		5.556		99	80-120						
Chromium	543	ug/L		555.6		98	80-120						
Cobalt	546	ug/L		555.6		98	80-120						
Lead	556	ug/L		555.6		100	80-120						
Magnesium	5.67	mg/L		5.556		102	80-120						
Mercury	52.0	ug/L		55.56		94	80-120						
Molybdenum	526	ug/L		555.6		95	80-120						
Potassium	5.60	mg/L		5.556		101	80-120						
Selenium	547	ug/L		555.6		98	80-120						
Sodium	5.59	mg/L		5.556		101	80-120						
Thallium	546	ug/L		555.6		98	80-120						
Matrix Spike (B347462-MS1)	Sample: GJ04373-01				Prepared: 10/26/23 Analyzed: 10/31/23								
Antimony	452	ug/L		555.6	1.29	81	75-125						
Arsenic	525	ug/L		555.6	44.0	87	75-125						
Barium	617	ug/L		555.6	101	93	75-125						
Beryllium	576	ug/L		555.6	1.12	104	75-125						
Boron	30600	ug/L		555.6	30500	20	75-125						
Cadmium	528	ug/L		555.6	ND	95	75-125						
Calcium	221	mg/L	Q4	5.556	224	NR	75-125						
Chromium	560	ug/L		555.6	21.9	97	75-125						
Cobalt	537	ug/L		555.6	12.7	94	75-125						
Lead	530	ug/L		555.6	19.4	92	75-125						
Magnesium	98.0	mg/L	Q4	5.556	96.4	30	75-125						
Mercury	51.2	ug/L		55.56	ND	92	75-125						
Molybdenum	575	ug/L		555.6	41.8	96	75-125						
Potassium	13.5	mg/L		5.556	8.61	89	75-125						
Selenium	491	ug/L		555.6	1.04	88	75-125						
Sodium	164	mg/L	Q4	5.556	164	NR	75-125						
Thallium	502	ug/L		555.6	ND	90	75-125						
Matrix Spike Dup (B347462-MSD1)	Sample: GJ04373-01				Prepared: 10/26/23 Analyzed: 10/31/23								
Antimony	480	ug/L		555.6	1.29	86	75-125	6	20				
Arsenic	563	ug/L		555.6	44.0	93	75-125	7	20				
Barium	649	ug/L		555.6	101	99	75-125	5	20				
Beryllium	543	ug/L		555.6	1.12	98	75-125	6	20				



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike Dup (B347462-MSD1)	Sample: GJ04373-01			Prepared: 10/26/23 Analyzed: 11/01/23					
Boron	30600	ug/L		555.6	30500	12	75-125	0.1	20
Cadmium	570	ug/L		555.6	ND	103	75-125	8	20
Calcium	239	mg/L	Q4	5.556	224	281	75-125	8	20
Chromium	601	ug/L		555.6	21.9	104	75-125	7	20
Cobalt	576	ug/L		555.6	12.7	101	75-125	7	20
Lead	560	ug/L		555.6	19.4	97	75-125	6	20
Magnesium	106	mg/L	Q4	5.556	96.4	171	75-125	8	20
Mercury	54.9	ug/L		55.56	ND	99	75-125	7	20
Molybdenum	624	ug/L		555.6	41.8	105	75-125	8	20
Potassium	14.5	mg/L		5.556	8.61	107	75-125	7	20
Selenium	536	ug/L		555.6	1.04	96	75-125	9	20
Sodium	176	mg/L	Q4	5.556	164	215	75-125	7	20
Thallium	533	ug/L		555.6	ND	96	75-125	6	20

Batch B347530 - IC No Prep - EPA 300.0 REV 2.1

Matrix Spike (B347530-MS1)	Sample: GJ04373-01			Prepared & Analyzed: 10/25/23					
Sulfate	1.00E9	mg/L	Q4	1.500	360	NR	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	300	NR	80-120		
Matrix Spike Dup (B347530-MSD1)	Sample: GJ04373-01			Prepared & Analyzed: 10/25/23					
Chloride	1.0E9	mg/L	Q4	1.500	300	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4	1.500	360	NR	80-120	0	20

Batch B347595 - No Prep - SM 2540C

Blank (B347595-BLK1)	Prepared & Analyzed: 10/27/23								
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B347595-BS1)	Prepared & Analyzed: 10/27/23								
Solids - total dissolved solids (TDS)	970	mg/L		1000		97	84.9-109		

Batch B347621 - No Prep - SM 2540C

Blank (B347621-BLK1)	Prepared & Analyzed: 10/27/23								
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B347621-BS1)	Prepared & Analyzed: 10/27/23								
Solids - total dissolved solids (TDS)	987	mg/L		1000		99	84.9-109		
Duplicate (B347621-DUP1)	Sample: GJ04582-03			Prepared & Analyzed: 10/27/23					
Solids - total dissolved solids (TDS)	4240	mg/L		4030				5	5
Duplicate (B347621-DUP2)	Sample: GJ04861-01			Prepared & Analyzed: 10/27/23					
Solids - total dissolved solids (TDS)	425	mg/L		425				0	5

Batch B347629 - IC No Prep - EPA 300.0 REV 2.1

Matrix Spike (B347629-MS2)	Sample: GJ04582-01			Prepared & Analyzed: 10/26/23					
Fluoride	3.06	mg/L	Q1	1.500	0.143	194	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	138	NR	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	16	NR	80-120		
Matrix Spike Dup (B347629-MSD2)	Sample: GJ04582-01			Prepared & Analyzed: 10/26/23					
Fluoride	1.61	mg/L	Q2, R	1.500	0.143	98	80-120	62	20
Chloride	1.0E9	mg/L	Q4, R	1.500	16	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4, R	1.500	138	NR	80-120	0	20



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B347669 - No Prep - SM 2320B 1997</u>									
Duplicate (B347669-DUP1)	Sample: GJ03182-01				Prepared & Analyzed: 10/27/23				
Alkalinity - bicarbonate as CaCO3	450	mg/L			438			3	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
<u>Batch B347726 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B347726-MS1)	Sample: GJ04861-11				Prepared & Analyzed: 10/28/23				
Sulfate	1.00E9	mg/L	Q4	1.500	ND	NR	80-120		
Chloride	< 1.0	mg/L	Q1	1.500	ND		80-120		
Fluoride	1.46	mg/L		1.500	ND	97	80-120		
Matrix Spike Dup (B347726-MSD1)	Sample: GJ04861-11				Prepared & Analyzed: 10/28/23				
Sulfate	1.00E9	mg/L	Q4	1.500	ND	NR	80-120	0	20
Fluoride	1.45	mg/L		1.500	ND	97	80-120	0.3	20
Chloride	< 1.0	mg/L	Q2	1.500	ND		80-120		20
<u>Batch B347854 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B347854-MS2)	Sample: GJ04131-02				Prepared & Analyzed: 10/30/23				
Chloride	1.0E9	mg/L	Q4	1.500	10	NR	80-120		
Matrix Spike Dup (B347854-MSD2)	Sample: GJ04131-02				Prepared & Analyzed: 10/30/23				
Chloride	1.0E9	mg/L	Q4	1.500	10	NR	80-120	0	20
<u>Batch B347939 - SW 3015 - EPA 6010B</u>									
Blank (B347939-BLK1)					Prepared: 11/01/23	Analyzed: 11/06/23			
Lithium	< 0.020	mg/L							
LCS (B347939-BS1)					Prepared: 11/01/23	Analyzed: 11/06/23			
Lithium	0.547	mg/L		0.5556		98	80-120		
Matrix Spike (B347939-MS1)	Sample: GJ04582-01				Prepared: 11/01/23	Analyzed: 11/06/23			
Lithium	0.523	mg/L		0.5556	ND	94	75-125		
Matrix Spike Dup (B347939-MSD1)	Sample: GJ04582-01				Prepared: 11/01/23	Analyzed: 11/06/23			
Lithium	0.522	mg/L		0.5556	ND	94	75-125	0.1	20
<u>Batch B347939 - SW 3015 - EPA 6020A</u>									
Blank (B347939-BLK1)					Prepared: 11/01/23	Analyzed: 11/06/23			
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit				
Blank (B347939-BLK1)					Prepared: 11/01/23 Analyzed: 11/06/23								
Selenium	< 1.0	ug/L											
Sodium	< 0.10	mg/L											
Thallium	< 1.0	ug/L											
LCS (B347939-BS1)					Prepared: 11/01/23 Analyzed: 11/06/23								
Antimony	554	ug/L		555.6		100	80-120						
Arsenic	548	ug/L		555.6		99	80-120						
Barium	564	ug/L		555.6		101	80-120						
Beryllium	541	ug/L		555.6		97	80-120						
Boron	518	ug/L		555.6		93	80-120						
Cadmium	556	ug/L		555.6		100	80-120						
Calcium	5.67	mg/L		5.556		102	80-120						
Chromium	566	ug/L		555.6		102	80-120						
Cobalt	561	ug/L		555.6		101	80-120						
Lead	561	ug/L		555.6		101	80-120						
Magnesium	5.84	mg/L		5.556		105	80-120						
Mercury	51.2	ug/L		55.56		92	80-120						
Molybdenum	545	ug/L		555.6		98	80-120						
Potassium	5.69	mg/L		5.556		102	80-120						
Selenium	565	ug/L		555.6		102	80-120						
Sodium	5.82	mg/L		5.556		105	80-120						
Thallium	557	ug/L		555.6		100	80-120						
Matrix Spike (B347939-MS1)	Sample: GJ04582-01				Prepared: 11/01/23 Analyzed: 11/06/23								
Antimony	544	ug/L		555.6	ND	98	75-125						
Arsenic	552	ug/L		555.6	2.25	99	75-125						
Barium	608	ug/L		555.6	52.7	100	75-125						
Beryllium	541	ug/L		555.6	ND	97	75-125						
Boron	573	ug/L		555.6	52.9	94	75-125						
Cadmium	555	ug/L		555.6	ND	100	75-125						
Calcium	159	mg/L	Q4	5.556	155	68	75-125						
Chromium	565	ug/L		555.6	ND	102	75-125						
Cobalt	546	ug/L		555.6	6.31	97	75-125						
Lead	549	ug/L		555.6	1.07	99	75-125						
Magnesium	81.7	mg/L	Q4	5.556	77.6	74	75-125						
Mercury	53.0	ug/L		55.56	0.478	95	75-125						
Molybdenum	553	ug/L		555.6	1.15	99	75-125						
Potassium	6.29	mg/L		5.556	0.602	102	75-125						
Selenium	564	ug/L		555.6	ND	102	75-125						
Sodium	20.2	mg/L		5.556	14.9	96	75-125						
Thallium	546	ug/L		555.6	ND	98	75-125						
Matrix Spike Dup (B347939-MSD1)	Sample: GJ04582-01				Prepared: 11/01/23 Analyzed: 11/06/23								
Antimony	541	ug/L		555.6	ND	97	75-125	0.6	20				
Arsenic	548	ug/L		555.6	2.25	98	75-125	0.9	20				
Barium	604	ug/L		555.6	52.7	99	75-125	0.7	20				
Beryllium	544	ug/L		555.6	ND	98	75-125	0.5	20				
Boron	578	ug/L		555.6	52.9	95	75-125	0.8	20				
Cadmium	552	ug/L		555.6	ND	99	75-125	0.4	20				
Calcium	158	mg/L	Q4	5.556	155	55	75-125	0.5	20				



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike Dup (B347939-MSD1)	Sample: GJ04582-01			Prepared: 11/01/23 Analyzed: 11/06/23					
Chromium	561	ug/L		555.6	ND	101	75-125	0.8	20
Cobalt	543	ug/L		555.6	6.31	97	75-125	0.4	20
Lead	543	ug/L		555.6	1.07	98	75-125	1	20
Magnesium	81.5	mg/L	Q4	5.556	77.6	71	75-125	0.2	20
Mercury	52.3	ug/L		55.56	0.478	93	75-125	1	20
Molybdenum	550	ug/L		555.6	1.15	99	75-125	0.5	20
Potassium	6.20	mg/L		5.556	0.602	101	75-125	1	20
Selenium	557	ug/L		555.6	ND	100	75-125	1	20
Sodium	20.2	mg/L		5.556	14.9	96	75-125	0.1	20
Thallium	540	ug/L		555.6	ND	97	75-125	1	20
<u>Batch B347952 - No Prep - SM 2540C</u>									
Blank (B347952-BLK1)	Prepared & Analyzed: 11/01/23								
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B347952-BS1)	Prepared & Analyzed: 11/01/23								
Solids - total dissolved solids (TDS)	1030	mg/L		1000		103	84.9-109		
Duplicate (B347952-DUP1)	Sample: GJ04997-11			Prepared & Analyzed: 11/01/23					
Solids - total dissolved solids (TDS)	1400	mg/L	M		1330			5	5
<u>Batch B347965 - No Prep - SM 2320B 1997</u>									
Duplicate (B347965-DUP1)	Sample: GJ03740-01			Prepared & Analyzed: 11/01/23					
Alkalinity - bicarbonate as CaCO ₃	500	mg/L			475			5	10
Alkalinity - carbonate as CaCO ₃	< 10	mg/L			ND				10
<u>Batch B347985 - No Prep - SM 2540C</u>									
Blank (B347985-BLK1)	Prepared & Analyzed: 11/01/23								
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B347985-BS1)	Prepared & Analyzed: 11/01/23								
Solids - total dissolved solids (TDS)	1020	mg/L		1000		102	84.9-109		
<u>Batch B348049 - SW 3015 - EPA 6010B</u>									
Blank (B348049-BLK1)	Prepared: 11/02/23 Analyzed: 11/06/23								
Lithium	< 0.020	mg/L							
LCS (B348049-BS1)	Prepared: 11/02/23 Analyzed: 11/06/23								
Lithium	0.523	mg/L		0.5556		94	80-120		
Matrix Spike (B348049-MS1)	Sample: GJ04997-11			Prepared: 11/02/23 Analyzed: 11/06/23					
Lithium	0.542	mg/L		0.5556	0.0233	93	75-125		
Matrix Spike Dup (B348049-MSD1)	Sample: GJ04997-11			Prepared: 11/02/23 Analyzed: 11/06/23					
Lithium	0.565	mg/L		0.5556	0.0233	98	75-125	4	20
<u>Batch B348049 - SW 3015 - EPA 6020A</u>									
Blank (B348049-BLK1)	Prepared: 11/02/23 Analyzed: 11/09/23								
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit				
Blank (B348049-BLK1)					Prepared: 11/02/23 Analyzed: 11/09/23								
Cadmium	< 1.0	ug/L											
Calcium	< 0.20	mg/L											
Chromium	< 4.0	ug/L											
Cobalt	< 2.0	ug/L											
Lead	< 1.0	ug/L											
Magnesium	< 0.10	mg/L											
Mercury	< 0.20	ug/L											
Molybdenum	< 1.0	ug/L											
Potassium	< 0.10	mg/L											
Selenium	< 1.0	ug/L											
Sodium	< 0.10	mg/L											
Thallium	< 1.0	ug/L											
Blank (B348049-BLK2)					Prepared: 11/02/23 Analyzed: 11/14/23								
Selenium	< 1.0	ug/L											
LCS (B348049-BS1)					Prepared: 11/02/23 Analyzed: 11/09/23								
Antimony	563	ug/L		555.6	101	80-120							
Arsenic	552	ug/L		555.6	99	80-120							
Barium	540	ug/L		555.6	97	80-120							
Beryllium	534	ug/L		555.6	96	80-120							
Boron	500	ug/L		555.6	90	80-120							
Cadmium	532	ug/L		555.6	96	80-120							
Calcium	5.60	mg/L		5.556	101	80-120							
Chromium	548	ug/L		555.6	99	80-120							
Cobalt	544	ug/L		555.6	98	80-120							
Lead	539	ug/L		555.6	97	80-120							
Magnesium	5.60	mg/L		5.556	101	80-120							
Mercury	52.1	ug/L		55.56	94	80-120							
Molybdenum	530	ug/L		555.6	95	80-120							
Potassium	5.47	mg/L		5.556	99	80-120							
Selenium	582	ug/L		555.6	105	80-120							
Sodium	5.59	mg/L		5.556	101	80-120							
Thallium	536	ug/L		555.6	97	80-120							
LCS (B348049-BS4)					Prepared: 11/02/23 Analyzed: 11/14/23								
Selenium	587	ug/L		555.6	106	80-120							
Matrix Spike (B348049-MS1)	Sample: GJ04997-11				Prepared: 11/02/23 Analyzed: 11/09/23								
Antimony	438	ug/L		555.6	0.594	79	75-125						
Arsenic	522	ug/L		555.6	28.5	89	75-125						
Barium	727	ug/L		555.6	219	92	75-125						
Beryllium	514	ug/L		555.6	1.36	92	75-125						
Boron	5440	ug/L		555.6	4970	85	75-125						
Cadmium	529	ug/L		555.6	ND	95	75-125						
Calcium	233	mg/L	Q4	5.556	229	70	75-125						
Chromium	570	ug/L		555.6	36.7	96	75-125						
Cobalt	542	ug/L		555.6	24.4	93	75-125						
Lead	563	ug/L		555.6	33.7	95	75-125						
Magnesium	93.0	mg/L	Q4	5.556	89.6	60	75-125						
Mercury	52.0	ug/L		55.56	0.156	93	75-125						



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (B348049-MS1)									
Molybdenum	538	ug/L		555.6	9.36	95	75-125		
Potassium	9.46	mg/L		5.556	4.16	95	75-125		
Selenium	491	ug/L		555.6	3.09	88	75-125		
Sodium	104	mg/L	Q4	5.556	101	58	75-125		
Thallium	521	ug/L		555.6	0.422	94	75-125		
Matrix Spike Dup (B348049-MSD1)									
Antimony	413	ug/L	Q2	555.6	0.594	74	75-125	6	20
Arsenic	521	ug/L		555.6	28.5	89	75-125	0.3	20
Barium	737	ug/L		555.6	219	93	75-125	1	20
Beryllium	501	ug/L		555.6	1.36	90	75-125	3	20
Boron	5330	ug/L	Q4	555.6	4970	66	75-125	2	20
Cadmium	533	ug/L		555.6	ND	96	75-125	0.8	20
Calcium	235	mg/L		5.556	229	108	75-125	0.9	20
Chromium	574	ug/L		555.6	36.7	97	75-125	0.6	20
Cobalt	540	ug/L		555.6	24.4	93	75-125	0.3	20
Lead	557	ug/L		555.6	33.7	94	75-125	1	20
Magnesium	93.8	mg/L		5.556	89.6	76	75-125	0.9	20
Mercury	53.8	ug/L		55.56	0.156	96	75-125	3	20
Molybdenum	543	ug/L		555.6	9.36	96	75-125	1	20
Potassium	9.90	mg/L		5.556	4.16	103	75-125	5	20
Selenium	482	ug/L		555.6	3.09	86	75-125	2	20
Sodium	104	mg/L	Q4	5.556	101	58	75-125	0.002	20
Thallium	521	ug/L		555.6	0.422	94	75-125	0.05	20
Batch B348151 - No Prep - SM 2320B 1997									
Duplicate (B348151-DUP1)		Sample: GJ04131-02		Prepared & Analyzed: 11/02/23					
Alkalinity - carbonate as CaCO ₃	< 10	mg/L			ND			10	
Alkalinity - bicarbonate as CaCO ₃	350	mg/L			338		4	10	
Duplicate (B348151-DUP3)		Sample: GJ04373-01		Prepared & Analyzed: 11/02/23					
Alkalinity - bicarbonate as CaCO ₃	500	mg/L			500		0	10	
Alkalinity - carbonate as CaCO ₃	< 10	mg/L			ND			10	
Batch B348438 - No Prep - SM 2320B 1997									
Duplicate (B348438-DUP1)		Sample: GJ04582-01		Prepared & Analyzed: 11/07/23					
Alkalinity - carbonate as CaCO ₃	< 10	mg/L			ND			10	
Alkalinity - bicarbonate as CaCO ₃	525	mg/L			525		0	10	
Duplicate (B348438-DUP2)		Sample: GJ04582-05		Prepared & Analyzed: 11/07/23					
Alkalinity - carbonate as CaCO ₃	< 10	mg/L			ND			10	
Alkalinity - bicarbonate as CaCO ₃	575	mg/L			588		2	10	
Duplicate (B348438-DUP5)		Sample: GJ04861-01		Prepared & Analyzed: 11/07/23					
Alkalinity - carbonate as CaCO ₃	< 10	mg/L			ND			10	
Alkalinity - bicarbonate as CaCO ₃	338	mg/L			312		8	10	
Batch B348569 - No Prep - SM 4500F C 1997									
Matrix Spike (B348569-MS1)		Sample: GJ03740-02		Prepared & Analyzed: 11/08/23					
Fluoride	1.25	mg/L		1.000	0.231	102	80-120		
Matrix Spike Dup (B348569-MSD1)		Sample: GJ03740-02		Prepared & Analyzed: 11/08/23					



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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike Dup (B348569-MSD1)	Sample: GJ03740-02				Prepared & Analyzed: 11/08/23				
Fluoride	1.26	mg/L		1.000	0.231	102	80-120	0.2	20
<u>Batch B348781 - No Prep - SM 2320B 1997</u>									
Duplicate (B348781-DUP1)	Sample: GJ04997-01				Prepared & Analyzed: 11/09/23				
Alkalinity - carbonate as CaCO ₃	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO ₃	362	mg/L	M		325				11
Duplicate (B348781-DUP2)	Sample: GJ04997-11				Prepared & Analyzed: 11/09/23				
Alkalinity - bicarbonate as CaCO ₃	525	mg/L			512				2
Alkalinity - carbonate as CaCO ₃	< 10	mg/L			ND				10



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NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

Qualifiers

- M Analyte failed to meet the required acceptance criteria for duplicate analysis.
- Q1 Matrix Spike failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q2 Matrix Spike Duplicate failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q3 Matrix Spike/Matrix Spike Duplicate both failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.
- R Matrix Spike/Matrix Spike Duplicate Failed %Relative Percent Difference criterion.

Certified by: Diane Billings, Project Manager



CHAIN-OF-CUSTODY / Analytical Request Document

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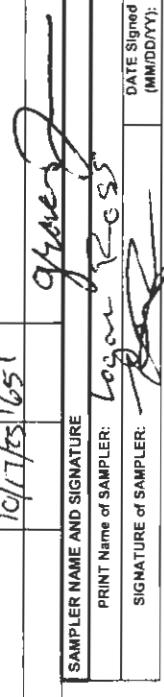
Section C

Section 8

Section A

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Customer Information		Section B Analytical Request Information		Section C Invoice Information	
Company: Vistra Corp-Duck Creek Address: 17751 North Cicero Rd Canton, IL 61520 Email To: Brian.Voelker@VistraCorp.com Phone: (217)753-8911 Fax: Requested Due Date/TAT: 10 day		Report To: Brian Voelker Copy To: Sam Davies: samantha.davies@vistracorp.com Daryl Johnson: Robert.Johnson@vistracorp.com Purchase Order No.: Project Name: Project Number: 2285		Attention: Brian Voelker Company Name: Vistra Corp Address: see Section A Quota: Professional Project Manager: Profile #	
				REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER	
				Site Location: IL STATE: 35031812 Requested Analysis Filtered (Y/N)	
				Residual Chlorine (Y/N) DC-WPCP-203-206 DC-SUP-000 DC-CLOSURE-201-202 DC-845-205 DC-845-203 DC-845-201-202 DC-811-204 DC-257-205 DC-257-204 DC-257-203 DC-257-204	
				Analyses Test Y/N	
				Preservatives Na ₂ S ₂ O ₃ NaOH HCl HNO ₃ H ₂ SO ₄ Uppreserved	
				SAMPLE TEMP AT COLLECTION # OF CONTAINERS	
				MATRIX CODE SAMPLE TYPE (G=GRAB C=COMP) D1N DRY M1T WATER W1W WASTE WATER P1S PRODUCT O1A OIL W1P WINE A1R AIR O1T OTHER T1S TISSUE	
				DATE TIME	
				10/17/21 1504	
				ITEM	
1	G53S				
2	G54L				
3	G54S				
4	G55L	10/17/23	1337	2	
5	G55S	10/17/23	1335	2	
6	G56L	10/17/23	1333		
7	G56S				
8	G57L				
9	G57S				
10	G58L				
11	G58S				
12	G59L				
13	G59S				
14	G60L				
15	G60S				
16	G61S				
				ADDITIONAL COMMENTS DC-23Q4 Rev 0	
				RElinquished BY / AFFILIATION 10/17/23 1651	
				ACCEPTED BY / AFFILIATION 10/17/23 1651	
				SAMPLE NAME AND SIGNATURE PRINT Name of SAMPLER: Layon process SIGNATURE of SAMPLER: 	
				SAMPLE CONDITIONS Temp in °C: 16.2 Rec'd in °C: 16.2 Custody Sealed Color (Y/N): N Samples intact (Y/N): Y	

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section C

Section B

Section A

Required Client Information						Private Information						
Company: Visitra Corp-Duck Creek			Report To: Brian Voelker			Attention: Brian Voelker						
Address: 17751 North Ciclo Rd		Copy To: Sam Davies samantha.davies@visitracorp.com		Company Name: Visitra Corp		Address: See Section A		REGULATORY AGENCY				
Carleton, IL 61520		Daryl Johnson: Robert.Johnson@visitracorp.com				Office Reference		GROUND WATER		DRINKING WATER		
Email To: Brian.Voelker@VisitraCorp.com	Purchase Order No.:		Project Name:		Project Member: Project #		NPDES		RCRA		OTHER	
Phone: (217) 753-8911 Fax:							UST		Site Location STATE: IL		G50382	
Requested Due Date/TAT: 10 day											650382	
Residual Chlorine (Y/N)												
Requested Analysis Filtered (Y/N)												
Analysis Test ↑												
# OF CONTAINERS												
SAMPLE TEMP AT COLLECTION												
Unpreserved												
Preservatives												
# OF CONTAINERS												
SAMPLE TYPE (G=GRAB C=COMP)												
MATRIX CODE (see valid codes to left)												
ITEM #												
Section D Required Client Information												
Valid Matrix Codes												
MATRIX CODE												
DRINKING WATER DW												
WATER W												
WATER/WATER W												
PRODUCT P												
SOIL/SOLID S												
OIL O												
WIFE W/P												
AIR A/H												
OTHER OT												
TISSUE TS												
TIME												
DATE												
SAMPLE ID												
(A-Z, 0-9, -, .)												
Sample IDs MUST BE UNIQUE												
1	G07L											
2	G08L											
3	G09L											
4	G12L											
5	G12S											
6	G14L											
7	G15L											
8	G15S											
9	G16L											
10	G50L											
11	G50S											
12	G51L											
13	G51S											
14	G52L											
15	G52S											
16	G53L											
ADDITIONAL COMMENTS												
RELINQUISHED BY / AFFILIATION												
DATE TIME ACCEPTED BY / AFFILIATION												
DATE TIME SAMPLE CONDITIONS												
SAMPLE NAME AND SIGNATURE												
PRINT Name of SAMPLER: Logan ROSS												
SIGNATURE of SAMPLER: 												
DATE Signed (MM/DD/YY): 10/17/23												
Temp in °C Received on _____												
Custody Sealed (Y/N) Samples (Y/N)												

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp-Duck Creek	Report To: Brian Voelker	Copy To: Sam Davies: samantha.davies@vistracorp.com	Attention: Brian Voelker		
Address: 17751 North Cicero Rd		Daryl Johnson: Robert.Johnson@vistracorp.com	Company Name: Vistra Corp		
Canton, IL 61520		Purchase Order No.:	Address: see Section A		
Email To: Brian.Voelker@VistraCorp.com		Project Name:	Quote Reference:		
Phone: (217) 753-8911	Fax:	Project Number: 2285	Project Manager:		
Requested Due Date/TAT:	10 day	Profile #:			
REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER OTHER UST RCRA					
Site Location IL STATE: GTO3828 Requested Analysis Filtered (Y/N) Residual Chlorine (Y/N)					
Analysis Test Y/N					
Preservatives NaOH HCl HNO ₃ H ₂ SO ₄ Uppreserved # OF CONTAINERS SAMPLE TEMP AT COLLECTION TIME					
MATRIX CODES COLLECTED DATE TIME					
SAMPLE TYPE (G=GRAIN C=COMPOUND) <small>(see valid codes to left)</small>					
MATRIX CODE <small>(see valid codes to left)</small>					
Other Methanol Na ₂ S ₂ O ₃ NaOH HCl HNO ₃ H ₂ SO ₄ Uppreserved # OF CONTAINERS SAMPLE TEMP AT COLLECTION TIME					
Project No./Lab I.D. GTO3828					
SAMPLE ID <small>(A-Z, 0-9, -)</small> Sample IDs MUST BE UNIQUE					
ITEM #	BA01	BA02	WTG 10/17/23 12:19	WTG 10/17/23 12:23	3 3
3	BA02L				
4	BA03				
5	BA03L				
6	BA04				
7	BA05				
8	BA06				
9	G02D				
10	G02L				
11	G02S				
12	G03L				
13	G03S				
14	G04L				
15	G06L				
16	G06S				
ADDITIONAL COMMENTS		RElinquished By / AFFILIATION		DATE	TIME
DC-23Q4 Rev 0		LZ		10/17/23 16:51	14:51
PRINT NAME OF SAMPLER: LOC-AK ROSS		ACCEPTED BY / AFFILIATION		DATE	TIME
SIGNATURE OF SAMPLER: 		SAMPLE NAME AND SIGNATURE		DATE	TIME
Temp in °C		SAMPLE CONDITIONS			
Received on _____		Samplers intact (Y/N)			
Customer Seal (Y/N)		Coordinator (Y/N)			
Page: 1 of 10		Residual Chlorine (Y/N)			

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 10

Section A Required Client Information:		Section B Required Project Information:		Section C Invoicing Information:	
Company: Vistra Corp-Buck Creek	Report To: Brian Voelker	Attention: Brian Voelker			
Address: 17751 North Cilco Rd	Copy To: Sam Davies: samantha.davies@vistracorp.com	Company Name: Vistra Corp	REGULATORY AGENCY		
Canton, IL 61520	Daryl Johnson: Robert.Johnson@vistracorp.com	Address: see Section A	NPDES	GROUND WATER	DRINKING WATER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:	UST	RCRA	OTHER
Phone: (217) 753-8911	Fax:	Project Manager:	Site Location: STATE: IL		GJD3740 gjg
Requested Due Date/TAT: 10 day		Project Number: 2285			

ITEM #	Section D Required Client Information	Valid Matrix Codes <small>MATRIX CODE (see valid codes to left)</small>	MATRIX CODE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
				DATE	TIME			H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	MeIhanol			
1	BA01										DC-257-203					
2	BA02										DC-257-204					
3	BA02L										DC-257-205					
4	BA03										DC-845-201-202					
5	BA03L										DC-845-203					
6	BA04										DC-845-205					
7	BA05	WT G 10/19/23	1140								DC-CLOSURE-2011-202					
8	BA06	WT G 10/19/23	1309								DC-SUP-000					
9	G02D										DC-WPCP-203-206					
10	G02L															
11	G02S	WT G 10/19/23	1430													
12	G03L															
13	G03S															
14	G04L															
15	G06L															
16	G06S															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
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DC-23Q4 Rev 0

Joseph R. Reid 10/19/23 1642

grace 10/19/23 1642 14.9 Y N Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
<i>Joe R. Reid</i>					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):	<i>Joseph R. Reid</i> 10/19/23		

CHAIN-OF-CUSTODY / Analytical Request Document

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Section C

Invoice Information:

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp-Duck Creek Address: 17751 North Cicero Rd Canton, IL 61520 Email To: Brian.Voelker@vistracorp.com Phone: (217) 753-8911 Requested Due Date/AT: 10 day		Report To: Brian Voelker Copy To: Sam Davies: samantha.davies@vistracorp.com Daryl Johnson: Robert.Johnson@vistracorp.com Purchase Order No.: Project Name: Project Number: 2285		Company Name: Vistra Corp Attention: Brian Voelker Address: see Section A Quota Reference Project Manager Profile #	
				REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER	
				Site Location IL STATE: IL Residual Chlorine (Y/N)	
				Requested Analysis Filtered (Y/N) Analysis Test Y/N	
				Preservatives Other Na ₂ SO ₃ NaOH HCl HNO ₃ H ₂ SO ₄ Uptreated # OF CONTAINERS SAMPLE TEMP AT COLLECTION MATRIX CODE (see VBL codes to left) SAMPLE TYPE (G=GRA C=COMP)	
				COLLECTED DATE TIME	
				Project No./Lab I.D. G07L G08L G09L G12L G12S G14L G15L G15S G16L G50L G50S G51L G51S G52L G52S G53L	
				Additional Comments DC-23Q4 Rev 0	
				Relinquished By / Affiliation Signature: <i>[Signature]</i> Date: 10/23/23 Time: 1734 Accepted By / Affiliation Signature: <i>[Signature]</i> Date: 10/23/23 Time: 1734	
				SAMPLE CONDITIONS Temp In °C Received on Custody Seal (Y/N) Coder (Y/N) Samples (Y/N)	
				PRINT Name of SAMPLER: <i>[Signature]</i> SIGNATURE of SAMPLER: <i>[Signature]</i> DATE Signed: 10/23/23 (MM/DD/YY):	

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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Company: Vistra Corp-Duck Creek	Report To: Brian Voelker	Copy To: Sam Davies; samantha.davies@vistracorp.com	Company Name: Vistra Corp	Attention: Brian Voelker																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Address: 17751 North Cicero Rd		Daryl Johnson: Robert.Johnson@vistracorp.com	Address: See Section A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.: Project Name:	Project Number: 2285	Project Manager Profile #:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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TEST		Preservatives				Y/N		Y/N		Y/N		DC-257-203		DC-257-204		DC-257-205		DC-845-201-202		DC-845-203		DC-845-205		DC-845-204		DC-845-206		DC-SUP-000		DC-845-207-208		DC-CLOSURE-201-202		DC-WPCP-203-206		DC-845-209		DC-845-205		DC-845-205		DC-845-204		DC-845-203		DC-845-203		DC-845-202		DC-845-204		DC-845-204		DC-845-201		DC-845-202		DC-845-202		DC-845-200		DC-845-201		DC-845-201		DC-845-205		DC-845-206		DC-845-206		DC-845-207		DC-845-208		DC-845-208		DC-845-209		DC-845-2010		DC-845-2010		DC-845-2011		DC-845-2012		DC-845-2012		DC-845-2013		DC-845-2014		DC-845-2014		DC-845-2015		DC-845-2016		DC-845-2016		DC-845-2017		DC-845-2018		DC-845-2018		DC-845-2019		DC-845-2020		DC-845-2020		DC-845-2021		DC-845-2022		DC-845-2022		DC-845-2023		DC-845-2024		DC-845-2024		DC-845-2025		DC-845-2026		DC-845-2026		DC-845-2027		DC-845-2028		DC-845-2028		DC-845-2029		DC-845-2030		DC-845-2030		DC-845-2031		DC-845-2032		DC-845-2032		DC-845-2033		DC-845-2034		DC-845-2034		DC-845-2035		DC-845-2036		DC-845-2036		DC-845-2037		DC-845-2038		DC-845-2038		DC-845-2039		DC-845-2040		DC-845-2040		DC-845-2041		DC-845-2042		DC-845-2042		DC-845-2043		DC-845-2044		DC-845-2044		DC-845-2045		DC-845-2046		DC-845-2046		DC-845-2047		DC-845-2048		DC-845-2048		DC-845-2049		DC-845-2050		DC-845-2050		DC-845-2051		DC-845-2052		DC-845-2052		DC-845-2053		DC-845-2054		DC-845-2054		DC-845-2055		DC-845-2056		DC-845-2056		DC-845-2057		DC-845-2058		DC-845-2058		DC-845-2059		DC-845-2060		DC-845-2060		DC-845-2061		DC-845-2062		DC-845-2062		DC-845-2063		DC-845-2064		DC-845-2064		DC-845-2065		DC-845-2066		DC-845-2066		DC-845-2067		DC-845-2068		DC-845-2068		DC-845-2069		DC-845-2070		DC-845-2070		DC-845-2071		DC-845-2072		DC-845-2072		DC-845-2073		DC-845-2074		DC-845-2074		DC-845-2075		DC-845-2076		DC-845-2076		DC-845-2077		DC-845-2078		DC-845-2078		DC-845-2079		DC-845-2080		DC-845-2080		DC-845-2081		DC-845-2082		DC-845-2082		DC-845-2083		DC-845-2084		DC-845-2084		DC-845-2085		DC-845-2086		DC-845-2086		DC-845-2087		DC-845-2088		DC-845-2088		DC-845-2089		DC-845-2090		DC-845-2090		DC-845-2091		DC-845-2092		DC-845-2092		DC-845-2093		DC-845-2094		DC-845-2094		DC-845-2095		DC-845-2096		DC-845-2096		DC-845-2097		DC-845-2098		DC-845-2098		DC-845-2099		DC-845-2100		DC-845-2100		DC-845-2101		DC-845-2102		DC-845-2102		DC-845-2103		DC-845-2104		DC-845-2104		DC-845-2105		DC-845-2106		DC-845-2106		DC-845-2107		DC-845-2108		DC-845-2108		DC-845-2109		DC-845-2110		DC-845-2110		DC-845-2111		DC-845-2112		DC-845-2112		DC-845-2113		DC-845-2114		DC-845-2114		DC-845-2115		DC-845-2116		DC-845-2116		DC-845-2117		DC-845-2118		DC-845-2118		DC-845-2119		DC-845-2120		DC-845-2120		DC-845-2121		DC-845-2122		DC-845-2122		DC-845-2123		DC-845-2124		DC-845-2124		DC-845-2125		DC-845-2126		DC-845-2126		DC-845-2127		DC-845-2128		DC-845-2128		DC-845-2129		DC-845-2130		DC-845-2130		DC-845-2131		DC-845-2132		DC-845-2132		DC-845-2133		DC-845-2134		DC-845-2134		DC-845-2135		DC-845-2136		DC-845-2136		DC-845-2137		DC-845-2138		DC-845-2138		DC-845-2139		DC-845-2140		DC-845-2140		DC-845-2141		DC-845-2142		DC-845-2142		DC-845-2143		DC-845-2144		DC-845-2144		DC-845-2145		DC-845-2146		DC-845-2146		DC-845-2147		DC-845-2148		DC-845-2148		DC-845-2149		DC-845-2150		DC-845-2150		DC-845-2151		DC-845-2152		DC-845-2152		DC-845-2153		DC-845-2154		DC-845-2154		DC-845-2155		DC-845-2156		DC-845-2156		DC-845-2157		DC-845-2158		DC-845-2158		DC-845-2159		DC-845-2160		DC-845-2160		DC-845-2161		DC-845-2162		DC-845-2162		DC-845-2163		DC-845-2164		DC-845-2164		DC-845-2165		DC-845-2166		DC-845-2166		DC-845-2167		DC-845-2168		DC-845-2168		DC-845-2169		DC-845-2170		DC-845-2170		DC-845-2171		DC-845-2172		DC-845-2172		DC-845-2173		DC-845-2174		DC-845-2174		DC-845-2175		DC-845-2176		DC-845-2176		DC-845-2177		DC-845-2178		DC-845-2178		DC-845-2179		DC-845-2180		DC-845-2180		DC-845-2181		DC-845-2182		DC-845-2182		DC-845-2183		DC-845-2184		DC-845-2184		DC-845-2185		DC-845-2186		DC-845-2186		DC-845-2187		DC-845-2188		DC-845-2188		DC-845-2189		DC-845-2190		DC-845-2190		DC-845-2191		DC-845-2192		DC-845-2192		DC-845-2193		DC-845-2194		DC-845-2194		DC-845-2195		DC-845-2196		DC-845-2196		DC-845-2197		DC-845-2198		DC-845-2198		DC-845-2199		DC-845-2200		DC-845-2200		DC-845-2201		DC-845-2202		DC-845-2202		DC-845-2203		DC-845-2204		DC-845-2204		DC-845-2205		DC-845-2206		DC-845-2206		DC-845-2207		DC-845-2208		DC-845-2208		DC-845-2209		DC-845-2210		DC-845-2210		DC-845-2211		DC-845-2212		DC-845-2212		DC-845-2213		DC-845-2214		DC-845-2214		DC-845-2215		DC-845-2216		DC-845-2216		DC-845-2217		DC-845-2218		DC-845-2218		DC-845-2219		DC-845-2220		DC-845-2220		DC-845-2221		DC-845-2222		DC-845-2222		DC-845-2223		DC-845-2224		DC-845-2224		DC-845-2225		DC-845-2226		DC-845-2226		DC-845-2227		DC-845-2228		DC-845-2228		DC-845-2229		DC-845-2230		DC-845-2230		DC-845-2231		DC-845-2232		DC-845-2232		DC-845-2233		DC-845-2234		DC-845-2234		DC-845-2235		DC-845-2236		DC-845-2236		DC-845-2237		DC-845-2238		DC-845-2238		DC-845-2239		DC-845-2240		DC-845-2240		DC-845-2241		DC-845-22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CHAIN-OF-CUSTODY / Analytical Request Document

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Section B

Requested Project Information:

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Section D Required Client Information:		Section E Regulatory Agency		Section F Project No / Lab ID.	
Company: Vistra Corp-Duck Creek		Report To: Brian Voelker		Attention: Brian Voelker							
Address: 17751 North Cilco Rd		Copy To: Sam Davies; samantha.davies@vistracorp.com		Company Name: Vistra Corp							
Canton, IL 61520		Purchase Order No.: Dary Johnson; Robert.Johnson@vistracorp.com		Address: see Section A							
Email To: Brian.Voelker@VistraCorp.com		Project Name:		Quote Reference:							
Phone: (217) 753-8911		Fax:		Manager:							
Requested Due Date/TAT:		10 day		Project Number: 2285							
Sample Temp At Collection <input checked="" type="checkbox"/> # OF CONTAINERS <input checked="" type="checkbox"/> Uppreserved <input checked="" type="checkbox"/> Preservatives <input checked="" type="checkbox"/> Analysis Test! <input checked="" type="checkbox"/> Residual Chlorine (Y/N)											
Matrix Code (see valid codes to left) COLLECTED TIME DATE											
MATRIX CODE (G=GRAB C=COMB) DRINKING WATER WATER WASTE WATER PRODUCT SL OL WP AR SOLID OIL LIQUID OTHER AIR WATER TS											
ITEM ITEM ID Valid Matrix Codes 1 OM23S DRINKING WATER 2 OM24D WATER 3 OM25D WASTE WATER 4 OM25S PRODUCT 5 OR02 SL 6 OR03D OL 7 OR03S WP 8 OR04D AR 9 OR05D OTHER 10 OR06A TS 11 OR11 AIR 12 OR13D WATER 13 OR13S LIQUID 14 OR14D OTHER 15 OR14S TS 16 OR18 TS											
ADDITIONAL COMMENTS RELINQUISHED BY / AFFILIATION DATE TIME DC-23Q4 Rev 0 10/24/23 11:29 10/24/23 16:34											
ACCEPTED BY / AFFILIATION DATE TIME 10/24/23 16:34 10/24/23 16:34											
SAMPLE CONDITIONS Temp In °C Print Name of Sampler: Date Signed (MM/DD/YY): 10/24/23 Custody Sealed (Y/N) Print Name of Sampler: Date Signed (MM/DD/YY): 10/24/23 Sample (Y/N) Signature of Sampler: Date Signed (MM/DD/YY): 10/24/23											

CHAIN-OF-CUSTODY / Analytical Request Document

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Section B

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REGULATORY AGENCY					
		NPDES UST		GROUND WATER RCRA	
		DRINKING WATER OTHER			
Report To: Brian Voelker		Company Name: Vistra Corp		Residual Chlorine (Y/N)	
Copy To: Sam Davies; samantha.davies@vistracorp.com		Address: See Section A			
Purchase Order No.: Daryl Johnson: Robert.Johnson@vistracorp.com		Quote Reference:			
Project Name: Project Manager		Profile #:		Site Location STATE: IL	
Requested Due Date/TAT: 10 day		Requested Analysis Filtered (Y/N)			
#		# OF CONTAINERS		Project No./Lab I.D.	
SAMPLE ID (A-Z, 0-9 / .-)		SAMPLE TEMP AT COLLECTION			
Sample IDs MUST BE UNIQUE		COLLECTED		Preservatives	
Valid Matrix Codes		SAMPLE TYPE (G=GRAB C=COMPI)		Analysts Test Y/N	
MATRIX CODE		(see valid codes to left)			
DRINKING WATER DW WATER WATER WT WASTE WATER WW PRODUCT P SOLID SOLID SL OIL OIL OL WIPE WIPE WP AIR AIR AR OTHER OTHER OT TISSUE TISSUE TS					
TIME #		DATE		TIME	
1 OR19		10/24/18		1248	
2 OR20		10/24/18		X	
3 P01I				X	
4 P01L				X	
5 P01S				X	
6 P02S				X	
7 P04S				X	
8 P05D				X	
9 P05L				X	
10 P05S				X	
11 P36D				X	
12 P36L				X	
13 P36S				X	
14 P37D				X	
15 P37L				X	
16 P38L				X	
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION	
DC-23Q4 Rev 0		10/24/18		1639	
SAMPLE CONDITIONS		TIME		TIME	
Temp in °C		10/24/18		1639	
Received on C		10/24/18		1639	
Sealed (Y/N)		Y		Y	
Cooler (Y/N)		N		N	
Samples (Y/N)		Y		Y	
Intact (Y/N)		Y		Y	

CHAIN-OF-CUSTODY / Analytical Request Document

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PACE ANALYTICAL SERVICES
www.PACELABS.COM

REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO; RES OR IND/COMM

CHAIN OF CUSTODY RECORD
SAMPLE COLLECTED IN THE STATE OF _____

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

PROJECT NUMBER	PROJECT LOCATION	PURCHASE ORDER #	3 ANALYSIS REQUESTED	4 (FOR LAB USE ONLY)
1 CLIENT ADDRESS Duck Creek - Vista	PHONE NUMBER	E-MAIL	DATE SHIPPED	LOGIN # 6JB4578
CITY STATE ZIP	SAMPLER (PLEASE PRINT) Brendon Glennon	SAMPLER'S SIGNATURE Brendon Glennon	MATRIX TYPES: WATER: WASTEWATER ON-GROUND WATER WATER, LIQUID WATER, SOLIDS LIQUID, SOLIDS LIQUID, SOLIDS LIQUID, SOLIDS	LOGGED BY: geo
2 (UNIQUE DESCRIPTION WILL APPEAR ON THE ANALYTIC REPORT)	DATE COLLECTED	SAMPLE TYPE GRAB COMP	MATRIX TYPE	CLIENT PROJECT:
	TIME COLLECTED			PROJ. MGR.:
	NEEDED			CUSTODY SEAL #: 10/26/123
CHEMICAL PRESERVATION CODES: 1 - HCL 2 - H2SO4 3 - HNO3 4 - NAOH 5 - NaCl2O3	6 - UNPRESERVED	7 - OTHER	REMARKS	
TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMAL RUSH (RUSH/TAT IS SUBJECT TO PACE LABS APPROVAL AND SURCHARGE)				
<input checked="" type="radio"/> RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE				
EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE:				
RECEIVED BY: (SIGNATURE) James				
1 RELINQUISHED BY: (SIGNATURE) Ronald	DATE 10/25/123	DATE	COMMENTS: (FOR LAB USE ONLY)	<input checked="" type="radio"/>
RELINQUISHED BY: (SIGNATURE)	TIME 1535	TIME		
RECEIVED BY: (SIGNATURE)	DATE	DATE		
RECEIVED BY: (SIGNATURE)	TIME	TIME		
RELINQUISHED BY: (SIGNATURE)	DATE	DATE		
RELINQUISHED BY: (SIGNATURE)	TIME	TIME		
SAMPLE TEMPERATURE UPON RECEIPT TEMPERATURE GUN ID: 18.5 °C				
CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED Y/N				
DATE AND TIME TAKEN FROM SAMPLE BOTTLE 10/25/123 1535				

CHAIN-OF-CUSTODY / Analytical Request Document

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Section C

Section B

Section A

Section B Described Domain Information

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CHAIN-QF-CUSTODY / Analytical Request Document

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Section A Project and Client Information

Section C

Page: 6 of 10

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:

Company: Vistra Corp-Duck Creek	Report To: Brian Voelker	Attention: Brian Voelker	REGULATORY AGENCY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Address: 17751 North Cicero Rd	Copy To: Sam Davies: samantha.davies@vistracorp.com	Company Name: Vistra Corp	NPDES	GROUND WATER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Company:	Vistra Corp-Duck Creek	Report To:	Brian Voelker
Address:	17751 North Clio Rd	Copy To:	Sam Davies : samantha.davies@vistracorp.com
	Canton, IL 61520		Daryl Johnson: Robert.Johnson@vistracorp.com
Email To:	Brian.Voelker@vistracorp.com	Purchase Order No.:	
Phone:	(217) 753-8911	Fax:	
Requested Due Date/TAT:	10 day	Project Number:	22856

Section B
Required Project Information:

Attention:	Brian Voelker		
Company Name:	Vistra Corp		
Address:	See Section A		
Quote Reference:			
Project Manager:			
Printed #			

Section C
Invoice Information:

REGULATORY AGENCY			
NPDES	GROUND WATER	DRINKING WATER	OTHER
UST	RCRA		
Site Location:	6504871 S/N		
STATE:	IL		

Section D
Required Client Information:

Residual Chlorine (Y/N)			
Requested Analysis Filtered (Y/N)			
Project No./ Lab I.D.			

# OF CONTAINERS	SAMPLE TEMP AT COLLECTION	COLLECTED	TIME	Preservatives		Analyses Test	Y/N	DC-845-203	DC-845-205	DC-257-204	DC-257-203	DC-811-204	DC-257-205	DC-845-201-202	DC-CLOSURE-E-201-202	DC-SUP-000	DC-WPC-203-206	REGULATORY AGENCY			
				HClO	HNO ₃														H ₂ SO ₄	Unpreserved	NaOH
1	G07L																		RECEIVED IN C	RECEIVED BY (Y/N)	CUSTODY SEERIALIZED (Y/N)
2	G08L																				
3	G09L																				
4	G12L																				
5	G12S																				
6	G14L																				
7	G15L																				
8	G15S																				
9	G16L																				
10	G50L																				
11	G50S																				
12	G51L																				
13	G51S	WT 6	10/24/23	11:55	5 2 33																
14	G52L																				
15	G52S																				
16	G53L																				
ADDITIONAL COMMENTS		REINCUISHE BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS											
DC-23Q4 Rev 0		<i>Logan Ross</i>		10/24/23	10:45	<i>Logan Ross</i>		10/27/23	11:15	2.0		4		N		4					
SAMPLE NAME AND SIGNATURE																					
PRINT Name of SAMPLER: <i>Logan Ross</i>																					
SIGNATURE of SAMPLER: <i>[Signature]</i>																					
DATE Signed (MM/DD/YY): <i>10/26/23</i>																					

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:																																																																																																																																																																																																																							
<p>Company: Vistra Corp-Duck Creek Address: 17751 North Cicero Rd Canton, IL 61520 Email To: Brian.Voelker@vistracorp.com Phone: (217) 753-8911 Fax: Project Name: Requested Due Date/TAT: 10 day Project Number: 2285</p>																																																																																																																																																																																																																							
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Section C Invoice Information:																																																																																																																																																																																																																							
<p>Attention: Brian Voelker Company Name: Vistra Corp Address: See Section A Quote Reference Site Location: IL STATE: CILVILLE 5473</p>																																																																																																																																																																																																																							
Section D Required Client Information																																																																																																																																																																																																																							
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Accepted By / Affiliation																																																																																																																																																																																																																							
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Temp in °C: 20 Received on: 10/26/13 Custody Sealed (Y/N): Yes Custody Sampled (Y/N): Yes Samples intact (Y/N): Yes																																																																																																																																																																																																																							

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:

Company:	Vistra Corp-Duck Creek	Report To:	Brian Voelker
Address:	17751 North Cicco Rd	Copy To:	Sam Davies: samantha.davies@vistracorp.com
	Cranton, IL 61520		Daryl Johnson: Robert.Johnson@vistracorp.com
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:	
Phone:	(217) 753-8911	Fax:	
Requested Due Date/TAT:	10 day	Project Name:	
Project Number:	2285	Manager:	

Section C Invoice Information:

Attention:	Brian Voelker		
Company Name:	Vistra Corp		
Address:	See Section A		
Quote Reference:			
Project:			
Manager:			
Profile #:			

Section B Required Project Information:

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	TIME	DATE	# OF CONTAINERS			SAMPLE TEMP AT COLLECTION	Preservatives	Analysis Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	REGULATORY AGENCY			
				COLLECTED	NPDES	UST							RCRA	Site Location	STATE:	IL
1	L103															
2	OM01															
3	OM04S															
4	OM05S															
5	OM07	10/26/23	1204	11	XX	X										
6	OM08															
7	OM09															
8	OM10															
9	OM12	10/26/23	1045	11	XX	X										
10	OM15															
11	OM16															
12	OM17															
13	OM21															
14	OM22D															
15	OM22S															
16	OM23D															
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME	SAMPLE CONDITIONS			
DC-23Q4 Rev 0			<i>Frank</i>			10/26/23	1645	<i>Frank</i>			10/27/23	1715	20	4	W	Y
SAMPLE NAME AND SIGNATURE:			PRINT Name of SAMPLER:			DATE Signed (MM/DD/YY):			SIGNATURE of SAMPLER:							

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:																																																																																																																																					
Company: Vistira Corp-Duck Creek Address: 17751 North Ciclo Rd Canton, IL 61520 Email To: Brian.Voelker@VistiraCorp.com Phone: (217) 753-8911 Fax: Requested Due Date/TAT: 10 day		Report To: Brian Voelker Copy To: Sam Davies; samantha.davies@vistracorp.com Daryl Johnson; Robert.Johnson@vistracorp.com Purchase Order No.: Project Name: Project Number: 22856		Attention: Brian Voelker Company Name: Vistira Corp Address: see Section A Client Reference: Project Manager: Profile #:																																																																																																																																					
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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A
Section B

Required Project Information:

Company: Vistra Corp-Duck Creek		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY	
Address: 17751 North Cilco Rd		Copy To: Sam Davies : samantha.davies@vistracorp.com		Company Name: Vistra Corp		DRINKING WATER	
Canton, IL 61520		Purchase Order No.: Daryl Johnson: Robert.Johnson@vistracorp.com		Address: see Section A		GROUND WATER	
Email To: Brian.Voelker@vistracorp.com		Project Name: Project Number: 2285		Quote Reference		RCRA	
Phone: (217) 753-8911		Fax: 10 day		Project Manager Profile #		OTHER	
Requested Due Date/AT:						NPDES	
				UST		Site Location STATE: IL	
						CJDU48741	
Residual Chlorine (Y/N)							
Requested Analysis Filtered (Y/N)							
Analysis Test Y/N							
Preservatives							
# OF CONTAINERS							
SAMPLE TEMP AT COLLECTION							
MATRIX CODE (see valid codes at left)							
SAMPLE TYPE (G=GRAB C=COMP)							
TIME							
DATE							
COLLECTED							
SECTION D Required Client Information							
SAMPLE ID (A-Z-0-9 / -) Sample IDs MUST BE UNIQUE							
#							
P57S							
P60							
P61							
P62							
P63							
P64							
R10L							
R11L							
R13L							
R61L							
R72S							
T43L							
T44L							
T45L							
T46L							
X301							
10/26/23 1530 2 X X							
RELINQUISHED BY / AFFILIATION DATE TIME ACCEPTED BY / AFFILIATION DATE TIME SAMPLE CONDITIONS							
ADDITIONAL COMMENTS							
DC-23Q4 Rev 0 10/24/23 1645 10/27/23 715 204 4 2 4							
SAMPLE NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER: Temp in °C Received by (Y/N) Customer Searched (Y/N) Sampled (Y/N) Impacts (Y/N)							

CHAIN-OF-CUSTODY / Analytical Request Document

The original document is legal. A copy of this document must be completed accurately.

SCHLESINGER

Section B
Received Protect Information:

Company: Vistra Corp-Duck Creek		Report To: Brian Voelker		Attention: Brian Voelker	
Address: 17751 North Clico Rd		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp	
Canton, IL 61520		Daryl Johnson: Robert.Johnson@vistracorp.com		Address: see Section A	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		NPDES	
Phone: (217) 753-8911 Fax:		Project Name:		UST	
Requested Due Date/TAT: 10 day		Project Number: 2285		RCRA	
				OTHER	
				Site Location: IL	
				STATE: 670618721373	

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Company: Vistra Corp-Duck Creek		Report To: Brian Voelker		Attention: Brian Voelker	
Address: 17751 North Clico Rd		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp	
Canton, IL 61520		Daryl Johnson: Robert.Johnson@vistracorp.com		Address: see Section A	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		NPDES	
Phone: (217) 753-8911 Fax:		Project Name:		GROUND WATER	
Requested Due Date/TAT: 10 day		Project Number: 2285		DRINKING WATER	
				OTHER	
				UST RCRA	
				Site Location	
				STATE: IL	
				670618721373	

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Section B

Required Client Information:		Required Project Information:	
Company:	Vietra Core Dutch Creek	Report To:	Brian Veeck or

CHAIN-OF-CUSTODY / Analytical Request Document

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Requested Due Date/TAT:	10 day	Project Manager																																																																																																											
Project Number: 2286	Profile #:	Profile #:																																																																																																											
<table border="1"> <thead> <tr> <th colspan="2">Section D Required Client Information</th> <th colspan="3">Sample Temp At Collection</th> </tr> <tr> <th colspan="2">SAMPLE ID (A-Z, 0-9, -, -)</th> <th>COLLECTED</th> <th>TIME</th> <th>Project No./Lab I.D.</th> </tr> </thead> <tbody> <tr> <td colspan="2">Sample IDs MUST BE UNIQUE</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">TEST</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">G53S</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>G54L</td> <td>WT G 10/27/23</td> <td>13:38</td> <td></td> </tr> <tr> <td>2</td> <td>G54S</td> <td>WT G 10/27/23</td> <td>15:11</td> <td></td> </tr> <tr> <td>3</td> <td>G55L</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>G55S</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>G56L</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td>G56S</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td>G57L</td> <td>WT G 10/27/23</td> <td>14:02</td> <td></td> </tr> <tr> <td>8</td> <td>G57S</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td>G58L</td> <td>WT G 10/27/23</td> <td>14:31</td> <td></td> </tr> <tr> <td>10</td> <td>G58S</td> <td></td> <td></td> <td></td> </tr> <tr> <td>11</td> <td>G59L</td> <td>WT G 10/27/23</td> <td>15:12</td> <td></td> </tr> <tr> <td>12</td> <td>G59S</td> <td></td> <td></td> <td></td> </tr> <tr> <td>13</td> <td>G60L</td> <td></td> <td></td> <td></td> </tr> <tr> <td>14</td> <td>G60S</td> <td></td> <td></td> <td></td> </tr> <tr> <td>15</td> <td>G61S</td> <td></td> <td></td> <td></td> </tr> <tr> <td>16</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					Section D Required Client Information		Sample Temp At Collection			SAMPLE ID (A-Z, 0-9, -, -)		COLLECTED	TIME	Project No./Lab I.D.	Sample IDs MUST BE UNIQUE					TEST					G53S					1	G54L	WT G 10/27/23	13:38		2	G54S	WT G 10/27/23	15:11		3	G55L				4	G55S				5	G56L				6	G56S				7	G57L	WT G 10/27/23	14:02		8	G57S				9	G58L	WT G 10/27/23	14:31		10	G58S				11	G59L	WT G 10/27/23	15:12		12	G59S				13	G60L				14	G60S				15	G61S				16				
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CHAIN-OF-CUSTODY / Analytical Request Document

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

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Section A

Section B

Section C

CHAIN-OF-CUSTODY / Analytical Request Document

Section A Required Client Information:		Section B Required Project Information:	
Company: Vista Corp-Duck Creek	Report To: Brian Voelker	Report To: Sam Davies; samantha.davies@vistracorp.com	Attention: Brian Voelker
Address: 17751 North Cicero Rd	Copy To: Dary Johnson; Robert.Johnson@vistracorp.com	Address: See Section A	REGULATORY AGENCY
Canton, IL 61520	Purchase Order No.:	Qua	GROUND WATER DRINKING WATER
Email To: Brian.Voelker@vistracorp.com	Project Name:	Project Manager	RCRA OTHER
Phone: (217) 753-8911 Fax:	Project Number: 2285	Project #	Site Location
			STATE: IL
			Residual Chlorine (Y/N)

SAMPLE ID (A-Z, 0-9, -,) Sample IDs MUST BE UNIQUE		# OF CONTAINERS		SAMPLE TEMP AT COLLECTION		# OF PRESERVATIVES		Analysis Test		Requested Analysis Filtered (Y/N)		Project No./Lab I.D.								
#	TEST	COLLECTED	DATE	TIME	MATRIX CODE (See valid codes to left)	MATRIX CODE	CODE	Preservatives	Y/N	Y/N	Y/N	Y/N	Temp in C	Received by Date (Y/N)	Releasor Signature	Sample Name and Signature	Print Name of Sampler:	Date Signed (MM/DD/YY):	Signature of Sampler:	Sample Conditions
1	OR19				DRINKING-WATER	DW							6/27/23	6/27/23				6/27/23	6/27/23	7
2	OR20				WATER	W														
3	P01I				WATER	WW														
4	P01L				PRODUCT	P														
5	P01S				SOLID	SL														
6	P02S				OIL	OL														
7	P04S				WINE	WP														
8	P05D				AK	AK														
9	P05L				OTHER	OT														
10	P05S				TISSUE	TS														
11	P36D																			
12	P36L																			
13	P36S																			
14	P37D																			
15	P37L																			
16	P38L																			
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS											
DC-23Q4 Rev 0			10/27/23	16:04			6/27/23	16:49	8.0 Y Y 7											

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:

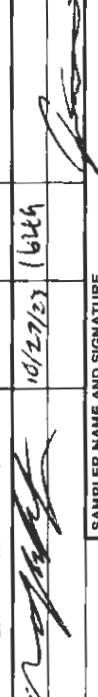
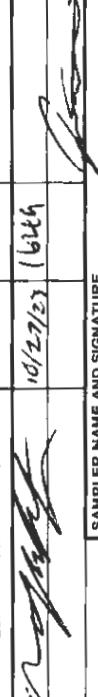
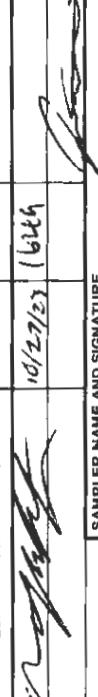
Company:	Vistra Corp-Duck Creek		
Address:	17751 North Cicero Rd Canton, IL 61520		
Email To:	Brian.Voelker@VistraCorp.com		
Phone:	(217) 753-8911	Fax:	Project Name:
Requested Due Date/TAT:	10 day		
Project Number:	2285		

Section B Required Project Information:

Report To:	Brian Voelker		
Copy To:	Sam Davies: semantha.davies@vistracorp.com Daryl Johnson: Robert.Johnson@vistracorp.com		
Purchase Order No.:			
Reference Project Manager:			
Profile #:			

Section C Invoice Information:

Attention:	Brian Voelker		
Company Name:	Vistra Corp		
Address:	See Section A		
Quote Reference:			
Project Manager:			
Profile #:			

Section D Required Client Information	Valid Matrix Codes Matrix CODE	SAMPLE TYPE (G=GRAIN C=COMPOUND) See Vial Codes to Left	COLLECTED DATE	TIME	SAMPLE TEMP AT COLLECTION		# OF CONTAINERS Unpreserved	Preservatives	Analysis Test Y/N	Residual Chlorine (Y/N)	REGULATORY AGENCY	NPDES UST	GROUND WATER RCRA	DRINKING WATER OTHER	Project No./Lab I.D.	Temp In C Received on Date (MM/DD/YY):	Temp In C Sealed (Y/N) Samples intact (Y/N)
					DRINKING WATER DW	WATER WW											
SAMPLE ID (A-Z, 0-9) Sample IDs MUST BE UNIQUE	# TEST #																
1	L103		10/2/2023	13:40													
2	OM01		10/2/2023	13:40													
3	OM04S																
4	OM05S																
5	OM07																
6	OM08																
7	OM09																
8	OM10																
9	OM12																
10	OM15																
11	OM16																
12	OM17																
13	OM21																
14	OM22D																
15	OM22S																
16	OM23D																
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS							
DC-23Q4 Rev 0				10/27/23	16:45			10/27/23	16:49								
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		SIGNATURE of SAMPLER:													

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:

Company: Vistra Corp-Duck Creek Address: 17751 North Cicero Rd Canton, IL 61520 Email To: Brian.Voelker@vistracorp.com Phone: (217) 753-8911 Fax: Requested Due Date/TAT: 10 day		Report To: Brian Voelker Copy To: Sam Davies; samantha.davies@vistracorp.com Daryl Johnson; Robert.Johnson@vistracorp.com Purchase Order No.: Project Name: Project Number: 2285		Attention: Brian Voelker Company Name: Vistra Corp Address: See Section A Quote Reference: Project Manager: Profile #:	
REGULATORY AGENCY					
		NPOES	GROUND WATER	DRINKING WATER	
		UST	RCRA	OTHER	
Site Location STATE: IL					
Residual Chlorine (Y/N)					
Requested Analysis Filtered (Y/N)					
Analyses Test Y/N					
Preservatives					
# OF CONTAINERS SAMPLE TEMP AT COLLECTION					
MATRIX CODE (see VBL code section E for) MATRIX TYPE (G=GRA G=COMP)					
DATE TIME					
ITEM #					
SAMPLE ID (A-Z, 0-9, -, .) Sample IDs MUST BE UNIQUE					
ITEM #					
Valid Matrix Codes MATRIX CHANGING WATER DW WATER WATER WT WASTE WATER WW PRODUCT SL SOLID SOLID SL OIL OL WINE WP AIR AR OTHER OT TISSUE TS					
Sample Client Information					
COLLECTED					
Project No./Lab I.D.					
Sample Preserved H ₂ SO ₄ , HNO ₃ , HCl, NaOH, Na ₂ SO ₄ , Other					
Sample Containments					
Sample Test					
Accepted By / Affiliation DATE TIME					
Additional Comments					
Relinquished By / Affiliation DATE TIME					
Sample Name and Signature Print Name of Sampler: Signature of Sampler:					
Sample Condition TIME DATE					
Received on C Tested in C Customer Order (Y/N) Sampled (Y/N)					
Date Signed (MM/DD/YY): 10/27/23					

Section A Required Client Information:

Page: 9 of 10

CHAIN-OF-CUSTODY / Analytical Request Document

The Chinese-Canadian Society in Hong Kong must be complete someday.

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Section A

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Company: **Vistra Corp-Duck Creek**
Address: **17751 North Cicero Rd
Canton, IL 61520**
Email To: **Brian.Voelker@VistraCorp.com**
Phone: **(217) 753-8911** **Fax**

Requested Due Date/TAT:

10 day

Section B
Required Project Information:

Report To: **Brian Voelker**
Copy To: **Sam Davies samantha.davies@vistracorp.com**
Daryl Johnson: Robert.Johnson@vistracorp.com
Purchase Order No.:
Project Name:
Manager Name #

Project Number: **2285**

Section C
Invoice Information:
Attention: **Brian Voelker**
Company Name: **Vistra Corp**
Address: **988 Section A**
Phone: **708-451-1000**
Reference #

Page: **7** of **10**

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Section D
Required Client Information

ITEM #	SAMPLE ID (A-Z, 0-9, ^)	Valid Matrix Codes MATRIX CODE	CODE	COLLECTED	Preservatives	Requested Analysis Filtered (Y/N)	
						SAMPLE TEMP AT COLLECTION	
1	OR 9	OR 11	WTG	1/13/23	1328	2X	
2	OR 10	OR 11 Dup		1328	2X		
3		OR 20		1211	2X		
4	OR 11	OR 16		1109	2X		
5	OR 15	EB 32		1345	2X		
6	OR 26						
7	OR 48						
8	OR 50						
9	OR 51						
10	POSS						
11	P060						
12	P061						
13	P065						
14	P060						
15	P061						
16	P061						

SAMPLE IDs MUST BE UNIQUE

SAMPLE ID

(A-Z, 0-9, ^)

Sample IDs MUST BE UNIQUE

Residual Chlorine (Y/N)

Project No./Lab ID.

Temp in °C

12.2

DATE

TIME

SAMPLE CONDITIONS

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples intact (Y/N)

Joe Pfeiffer

11/13/23

SAR-3: Episodic Depth to Groundwater Measurements

All DTWs on SAR-3 must be collected within 24 hours.

Plant: DC

Event: DC-23Q4 Rev 1

Well	Unique ID	Unit Numt	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
BA01	DC-BA01	205	BAB	10/16/23	1435	16.25		BA
BA01C	DC-BA01!C	205	BAB		1439	16.07		
BA01L	DC-BA01!L	205	BAB		1437	17.15		
BA02	DC-BA02	205	BAB		1423	13.03	U:6/19/23 GKJ	
BA02L	DC-BA02!L	205	BAB		1425		Top of Pump	
BA03	DC-BA03	205	BAB		1324	11.06		
BA03L	DC-BA03!L	205	BAB		1320	10.85		
BA04	DC-BA04	205	BAB		1442	7.75		
BA05	DC-BA05#	205	BAB		1506	26.60		
BA06	DC-BA06	205	BAB		1500	24.70		
G02L	DC-G02!L	204	LF		1454	16.20		
G02S	DC-G02#S	204	LF		1449	14.23	Transducer N/A	
G02D	DC-G02&D	204	LF		1452	25.09	alternate name P02D	
G03L	DC-G03!L	204	LF		1503	13.72		
G03S	DC-G03#S	204	LF		1500	13.55		
G04L	DC-G04!L	204	LF		1350	15.40		
G04S	DC-G04#S	204	LF		1353	21.43		
G06L	DC-G06!L	204	LF		1105	23.03		
G06S	DC-G06#S	204	LF		1103	23.34		
G07L	DC-G07!L	204	LF		1110	21.41	Top of Pump	
G08L	DC-G08!L	204	LF		1113	21.20	Top of Pump	
G09L	DC-G09!L	204	LF		1121	21.37	Top of Pump	
G09S	DC-G09#S	204	LF	—	1118	22.33		

SAR-3: Episodic Depth to Groundwater Measurements

All DTWs on SAR-3 must be collected within 24 hours.

Plant: DC

Event: DC-23Q4 Rev 1

Well	Unique ID	Unit Numt	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
G12L	DC-G12!L	204	LF	10/16/23	1146	24.50		BG
G12S	DC-G12#S	204	LF		1149	25.70		
G14L	DC-G14!L	204	LF		1159	26.14		
G15L	DC-G15!L	204	LF		1225	32.95	Top of Pump	
G15S	DC-G15#S	204	LF		1227	34.44		
G16L	DC-G16!L	204	LF		1230	32.45		
G50L	DC-G50!L	203	GMF		1129	17.42	Top of Pump	
G50S	DC-G50#S	203	GMF		1131	18.80		
G51L	DC-G51!L	203	GMF		1146	18.68	Top of Pump	
G51S	DC-G51#S	203	GMF		1144	19.81		
G52L	DC-G52!L	203	GMF		1148	28.30		
G52S	DC-G52#S	203	GMF		1151	32.04		
G53L	DC-G53!L	203	GMF		1119	15.81		
G53S	DC-G53#S	203	GMF		1121	18.73		
G54L	DC-G54!L	203	GMF		1158	21.89		
G54S	DC-G54#S	203	GMF		1154	28.00		
G55L	DC-G55!L	203	GMF		1209	19.62		
G55S	DC-G55#S	203	GMF		1213	19.51		
G56L	DC-G56!L	203	GMF		1014	20.10		
G56S	DC-G56#S	203	GMF		1016	20.77		
G57L	DC-G57!L	203	GMF		1018	25.02		
G57S	DC-G57#S	203	GMF		1020	24.83		
G58L	DC-G58!L	203	GMF		1029	28.95		

SAR-3: Episodic Depth to Groundwater Measurements

All DTWs on SAR-3 must be collected within 24 hours.

Plant: DC

Event: DC-23Q4 Rev 1

Well	Unique ID	Unit Numt	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
G58S	DC-G58#S	203	GMF	10/16/23	1030	29.05		BG
G59L	DC-G59!L	203	GMF		1034	29.09		
G59S	DC-G59#S	203	GMF		1033	34.12		
G60L	DC-G60!L	203	GMF		1038	18.65		
G60S	DC-G60#S	203	GMF		1041	26.67		
G61S	DC-G61#S	203	GMF		1046	23.11		
G62L	DC-G62!L	203	GMF		1048	23.35		
G63L	DC-G63!L	203	GMF		1105	25.19		
G63S	DC-G63#S	203	GMF		1107	26.05		
G64L	DC-G64!L	203	GMF		1111	24.58		
G64S	DC-G64#S	203	GMF		1112	25.50		
G65L	DC-G65!L	203	GMF		0950	19.30		
G65S	DC-G65#S	203	GMF		0932	19.61		
G66L	DC-G66!L	203	GMF		0943	14.49		
G66S	DC-G66#S	203	GMF		0945	15.46		
G67L	DC-G67!L	203	GMF		1001	13.00		
G67S	DC-G67#S	203	GMF		1003	14.12		
G68L	DC-G68!L	203	GMF		0904	12.23		
G68S	DC-G68#S	203	GMF		0906	13.18		
G69L	DC-G69!L	203	GMF		0909	16.00		
G69S	DC-G69#S	203	GMF		0910	18.23		
G70L	DC-G70!L	203	GMF		0914	20.13		
G71L	DC-G71!L	203	GMF		0920	26.11		

SAR-3: Episodic Depth to Groundwater Measurements

All DTWs on SAR-3 must be collected within 24 hours.

Plant: DC**Event:** DC-23Q4 Rev 1

Well	Unique ID	Unit Numt	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
G71S	DC-G71#S	203	GMF	10/16/23	0918	26.72		B6
G72L	DC-G72!L	203	GMF		0923	21.40		1
G73L	DC-G73!L	203	GMF		0927	27.20		
L103	DC-L103	204	LF		1217	1.91		
OM01	DC-OM01	201-202	AP1/2		1306	13.01		
OM04S	DC-OM04#S	201-202	AP1/2		1057	21.19	OROMS	
OM05S	DC-OM05#S	201-202	AP1/2		1257	22.21		
OM07	DC-OM07	201-202	AP1/2		1245	13.11		
OM08	DC-OM08	201-202	AP1/2		1134	14.96		
OM09	DC-OM09	201-202	AP1/2		1529	4.24		
OM10	DC-OM10	201-202	AP1/2		0918	13.49		
OM12	DC-OM12	201-202	AP1/2		1148	15.89		
OM15	DC-OM15	201-202	AP1/2		0909	22.88		
OM16	DC-OM16	201-202	AP1/2		1044	26.94		
OM17	DC-OM17	201-202	AP1/2		1023	15.26		
OM21	DC-OM21	201-202	AP1/2		1059	12.66		
OM22S	DC-OM22#S	201-202	AP1/2		1333	20.53		
OM22D	DC-OM22&D	201-202	AP1/2		1335	20.08		
OM23S	DC-OM23#S	201-202	AP1/2		1403	42.47		
OM23D	DC-OM23&D	201-202	AP1/2		1407	38.95		
OM24D	DC-OM24&D	201-202	AP1/2		/	/	Not Accessible	
OM25S	DC-OM25#S	201-202	AP1/2		1436	16.20		
OM25D	DC-OM25&D	201-202	AP1/2	/	1440	58.26		—

SAR-3: Episodic Depth to Groundwater Measurements

All DTWs on SAR-3 must be collected within 24 hours.

Plant: DC

Event: DC-23Q4 Rev 1

Well	Unique ID	Unit Numt	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
OR02	DC-OR02	201-202	AP1/2	0/16/23	1254	7.81		BG
OR03S	DC-OR03#S	201-202	AP1/2		1242	45.92		
OR03D	DC-OR03&D	201-202	AP1/2		1118	45.45		
OR04D	DC-OR04&D	201-202	AP1/2		1055	23.01		
OR05D	DC-OR05&D	201-202	AP1/2		1255	22.98		
OR06A	DC-OR06!A	201-202	AP1/2		1235	15.14		
OR11	DC-OR11	201-202	AP1/2		1218	32.28		
OR13S	DC-OR13#S	201-202	AP1/2		1303	14.72		
OR13D	DC-OR13&D	201-202	AP1/2		1305	14.62		
OR14S	DC-OR14#S	201-202	AP1/2		1113	8.97		
OR14D	DC-OR14&D	201-202	AP1/2		1110	11.79		
OR18	DC-OR18	201-202	AP1/2		1012	19.65		
OR19	DC-OR19	201-202	AP1/2		1142	25.80		
OR20	DC-OR20	201-202	AP1/2		1205	22.30		
P01L	DC-P01!L	204	LF		1439	17.11		
P01S	DC-P01#S	204	LF		1437	16.73		
P01I	DC-P01\$I	204	LF		1441	16.53		
P02S	DC-P02#S	204	LF		1455	18.57		
P04S	DC-P04#S	204	LF		1353	21.43		
P05L	DC-P05!L	204	LF		1318	7.13		
P05S	DC-P05#S	204	LF		1326	7.16		
P05D	DC-P05&D	204	LF		1339	7.10		
P36L	DC-P36!L	204	LF	—	1041	12.64		1

SAR-3: Episodic Depth to Groundwater Measurements

All DTWs on SAR-3 must be collected within 24 hours.

Plant: DC

Event: DC-23Q4 Rev 1

Well	Unique ID	Unit Numt	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
P36S	DC-P36#S	204	LF	10/16/23	1043	12.82		BG
P36D	DC-P36&D	204	LF		1040	13.00		I
P37L	DC-P37!L	204	LF		1129	14.60	Top of Pump	
P37D	DC-P37&D	204	LF		1131	17.33		
P38L	DC-P38!L	204	LF		1212	19.48		
P38S	DC-P38#S	204	LF		1206	21.00		
P39L	DC-P39!L	204	LF	—	1248	10.68		

SAR-3: Episodic Depth to Groundwater Measurements

All DTWs on SAR-3 must be collected within 24 hours.

Plant: DC
Event: DC-23Q4 Rev 1

Well	Unique ID	Unit Num l	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
P36S	DC-P36#S	204	LF					
P36D	DC-P36&D	204	LF					
P37L	DC-P37!L	204	LF					
P37D	DC-P37&D	204	LF					
P38L	DC-P38!L	204	LF					
P38S	DC-P38#S	204	LF					
P39L	DC-P39!L	204	LF					
P39S	DC-P39#S	204	LF	10/18/23	1227	10.99	BG	
P39D	DC-P39&D	204	LF		1225	16.57		
P40L	DC-P40!L	204	LF		1210	18.53		
P40S	DC-P40#S	204	LF		1211	17.28		
P41L	DC-P41!L	204	LF		1300	11.68		
P41S	DC-P41#S	204	LF		1302	14.00		
P41D	DC-P41&D	204	LF		1304	35.98		
P42L	DC-P42!L	204	LF		1255	10.30	Well Damaged	
P42S	DC-P42#S	204	LF		1132	10.82		
P42I1	DC-P42\$I1	204	LF		1129	11.19	alternate name P42I	
P42I2	DC-P42%I2	204	LF		1127	33.79		
P42D	DC-P42&D	204	LF		1125	38.59	10/18/23 MW 521 MW 521 BG	
P52	DC-P52	203	GMF		1353	18.02	MW 521	
P57L	DC-P57!L	203	GMF		1103	17.77		
P57S	DC-P57#S	203	GMF		1105	17.39		
P60	DC-P60	203	GMF	—	1113	26.54		—

SAR-3: Episodic Depth to Groundwater Measurements

All DTWs on SAR-3 must be collected within 24 hours.

Plant: DC
Event: DC-23Q4 Rev 1

Well	Unique ID	Unit Numt S	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
P61	DC-P61	203	GMF	10/18/23	1121	17.06		BG
P62	DC-P62	203	GMF		1117	14.31		
P63	DC-P63	203	GMF		1119	16.42		
P64	DC-P64	203	GMF	—	1123	18.23		
R10L	DC-R10!L	204	LF	10/16/23	1427	23.90		
R11L	DC-R11!L	204	LF	10/16/23	1140	23.63		
R13L	DC-R13!L	204	LF	10/18/23	1232	24.36		
R61L	DC-R61!L	203	GMF		1323	22.21		
R72S	DC-R72#S	203	GMF		1318	24.70		
T43L	DC-T43!L	204	LF		1244	8.70		
T44L	DC-T44!L	204	LF		1246	12.64		
T45L	DC-T45!L	204	LF		1247	10.62		
T46L	DC-T46!L	204	LF		1250	7.47		
X301	DC-X301-leachate	203	GMF		1313	40.5		
XTPW02	DC-XTPW02-pore	203	GMF	—	1348	6.85	Dry	L

BAO2L

10/18/23-1330-11.31

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads

All DTWs recorded on SAR-4 must be measured immediately prior to downloading the transducer data at that location.

Plant: DC

Event: DC-23Q4 Rev 1

Well	Unique ID	Unit Name	Date	Time	Measured Depth to Water (ft b.m.p)	On-site Transducer Data				Comments
						Data Logger Serial No.	WL Reading on Transducer (ft)	Data downloaded?	Batt (H/M/L/R)	
BA01	DC-BA01	205 BAB	10/16/23	1435	16.25	21615533	Y	/	/	NOT connected BA
BA02	DC-BA02	205 BAB		1423	13.03	21615636	Y	/	/	NOT connected
BA02L	DC-BA02!L	205 BAB		1425	PUMP	21615682	Y	∅∅.∅1	Y	H
BA03	DC-BA03	205 BAB		1324	11.46	21615637	Y	/	/	NOT connected
BA03L	DC-BA03!L	205 BAB		1326	10.85	21615687	Y	568.37	Y	M
BA04	DC-BA04	205 BAB		1442	7.75	21615631	Y	/	/	NOT connected
BA05	DC-BA05#	205 BAB		1506	26.60	21615540	Y	572.70	Y	M
BA06	DC-BA06	205 BAB		1528	24.70	21615525	Y	571.06	Y	M
G02S	DC-G02#S	204 LF		1449	14.23	21615554	Y	/	/	NOT connected
G50S	DC-G50#S	203 GMF		1131	18.80	21615535	Y	104.91	Y	M
G51S	DC-G51#S	203 GMF		1144	19.81	21615691	Y	599.96	Y	M
G54L	DC-G54!L	203 GMF		1158	21.89	21615690	Y	600.98	Y	M
G54S	DC-G54#S	203 GMF		1154	28.00	21615684	Y	599.83	Y	M
G57S	DC-G57#S	203 GMF		1422	24.86	21615683	Y	597.83	Y	M
G60L	DC-G60!L	203 GMF		1438	18.65	21615678	Y	594.69	Y	M
G60S	DC-G60#S	203 GMF		1441	26.67	21615677	Y	586.02	Y	H
G64L	DC-G64!L	203 GMF		1110	24.58	21615688	Y	422.77	Y	M
G64S	DC-G64#S	203 GMF	-	1112	25.60	21615632	Y	599.02	Y	M

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads

All DTWs recorded on SAR-4 must be measured immediately prior to downloading the transducer data at that location.

DC

Plant: DC-23Q4 Rev 1

Well	Unique ID	Unit Number	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data				Comments
							Data Logger Serial No.	Does Data Match?	Serial No.	WL Reading on Transducer (ft)	
OM01	DC-OM01	201-AP1/2	10/16/23	13:06	13.01	21615685	Y	582.15	Y	M	BG1
OM04S	DC-OM04#S	201-AP1/2		1057	21.19	21615542	Y	586.09	Y	H	
OM07	DC-OM07	201-AP1/2		12015	13.11	21615541	Y				
OM12	DC-OM12	201-AP1/2		1148	15.89	21615527	Y	577.30	Y	H	
OM16	DC-OM16	201-AP1/2		1044	26.94	21615539	Y			/	
OM17	DC-OM17	201-AP1/2		1023	15.26	21615693	Y			/	
OM21	DC-OM21	201-AP1/2		1059	12.66	21615593	Y	9.42	Y	H	
OM22D	DC-OM22&D	201-AP1/2		13.35	20.08	21615592	Y	578.88	Y	M	
OM23D	DC-OM23&D	201-AP1/2		1407	38.95	21615591	Y			/	
OM24D	DC-OM24&D	201-AP1/2				21615522	/			/	
OM25S	DC-OM25#S	201-AP1/2		1436	58.20	21615681	Y			/	
OR02	DC-OR02	201-AP1/2		1254	7.81	21615679	Y	543.42	Y	M	
OR03D	DC-OR03&D	201-AP1/2		1244	45.45	21615577	Y	582.75	Y	M	
OR04D	DC-OR04&D	201-AP1/2		1055	21.87	21615570	Y	585.76	Y	H	
OR06A	DC-OR06/A	201-AP1/2		1235	15.14	21615692	Y			/	
OR11	DC-OR11	201-AP1/2		1218	32.28	21615686	Y	564.14	Y	M	
OR13S	DC-OR13#S	201-AP1/2		1303	14.72	21615676	Y			/	
OR13D	DC-OR13&D	201-AP1/2		1305	14.62	21564135	/			/	Wells

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads

All DTWs recorded on SAR-4 must be measured immediately prior to downloading the transducer data at that location.

Plant: DC

Event: DC-23Q4 Rev 1

Well	Unique ID	Unit Number	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data				Comments
							Data Logger Serial No.	WL Reading on Transducer (ft)	Data downloaded?	Batt (H/M/L/R)	
OR14D	DC-OR14&D	201	AP1/2	10/16/23	1110	11.79	21615611	Y	S87.01	Y	H
OR19	DC-OR19	201	AP1/2	11/4/22	1142	25.80	21615634	Y	571.88	Y	M
OR20	DC-OR20	201	AP1/2	12/5/22	1205	22.30	21615610	Y	S65.16	Y	M

Notes:

Batt = battery

bmp = below measuring point

ft = feet

H = high

L = low

M = medium

R = replaced

Duck Creek

WELL/SAMPLE POINT BA06 **Purge Method:** Bladder
 Date: 10/19/23 Start Time: 1143 Finish/Sample Time: 1309
 Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: 1.5 Gal/l mL
 Depth to Water From MP: 24.76 ft Total Purge Volume: 1.8 Gal/l mL
 Water Column Length: JR 24.96 - 24.76
 Well Water Volume: 10/19/23 Gal / L Total Drawdown: 5.42 ft

Reading (Units)	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
1	1208	2710	100	6.59	3200	13.29	-37	0.0	2.9
2	1209	2721	100	6.57	3180	13.30	-37	0.0	3.4
3	1210	2731	100	6.57	3170	13.30	-38	0.0	3.3
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiha

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL) 1000mL
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) 1000mL
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - Over Range mg/L

Final DTW: 30.18 ft

Comments

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT OM01

Purge Method: beiler BG 8/10/23

Date: 10/27/23 Start Time: 11:11

Finish/Sample Time: 11:50 1340

Well Depth (Bottom) From MP: 27.79 ft

Min. Purge Volume: 9 Gal L mL

Depth to Water From MP: 13.42 ft

Total Purge Volume: 9 Gal L mL

Water Column Length: 14.37 ft

Well Water Volume: 8.70 Gal/L

Total Drawdown: 13.72 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	11:30	9.60 ft	22.22	6.80	3590	16.01	-33	2.18	209
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3 + 3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1 + 1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1 + 1	General (P, 500 mL)
	Ammonia (P, 250mL, H ₂ SO ₄)
1 + 1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
	General (P,500mL)
	TOC (A,V 40mL, H ₂ SO ₄)

Ferrous Iron - mg/L

Final DTW: 27.14 ft

Comments Insignificant recharge - 1 well volume only take

Let water recharge enough to get unfiltered samples

Sampler's Signature: Joseph Ried

B6
20

Duck Creek

WELL/SAMPLE POINT OR02

Purge Method:

Submersible pump

Date: 10/27/23

Start Time: 1208

Finish/Sample Time: 1330

Well Depth (Bottom) From MP: 22.11 ft

Min. Purge Volume: 1.5 Gal / L / mL

Depth to Water From MP: 7.01 ft

Total Purge Volume: 1.8 Gal / L / mL

Water Column Length: 15.1 ft

Well Water Volume: 9.14 Gal / L

Total Drawdown: 0.11 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1225	7.41	100	7.16	1920	15.71	-20	2.60	>1000
2	1226	7.44	100	7.10	1910	15.78	-11	2.55	>1000
3	1227	7.45	100	7.01	1920	15.68	-15	2.31	>1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL) <u>1000 mL</u>
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
3	General (P, 500 mL) <u>1000 mL</u>
	TOC (A, V, 40mL, H ₂ SO ₄)

Ferrous Iron - 0.292 mg/L

Final DTW: 7.12 ft

Comments

Sampler's Signature:

Joseph R. Red

BGR
121

Duck Creek

WELL/SAMPLE POINT OR03D

Purge Method: peristaltic pump w/ flexible tubing

Date: 10/23/2023 Start Time: 14:19 Finish/Sample Time: 15:30

Well Depth (Bottom) From MP: 77.77 ft Min. Purge Volume: - Gal / L / mL

Depth to Water From MP: 45.26 ft Total Purge Volume: 1000 Gal / L / mL

Water Column Length: 32.51 ft

Well Water Volume: 14.66 Gal Total Drawdown: 1.14 ft

Reading (Units)	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	14:31	46.40	100	7.46	3683.0	22.23	-32.8	9.01	666.7
2	14:33	46.40	100	7.44	3683.7	22.24	-33.9	8.95	656.0
3	14:35	46.40	100	7.45	3683.6	22.25	-29.2	8.89	667.5
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: A7600

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage		✗
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL) <u>1000 mL</u>
	Ammonia (P,250 mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>1000 mL</u>
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 3.352 mg/L

Final DTW: 46.40 ft

Comments

Sampler's Signature:

122
Bex

Duck Creek

WELL/SAMPLE POINT OM04S

Purge Method:

pump 6Ls pump w/ Desiccated
turbine
16gal/min

Date: 10/25/2023 Start Time: 0930 Finish/Sample Time: 1015

Well Depth (Bottom) From MP: 35.85 ft Min. Purge Volume: - Gal / L / mL

Depth to Water From MP: 21.31 ft Total Purge Volume: 1000 Gal / L / mL

Water Column Length: 14.54 ft

Well Water Volume: 8.70 Gal (L) Total Drawdown: 8.69 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	0940	27.00	100	7.66	1890	15.64	7	8.47	17.0
2	0942	27.00	100	7.56	1560	15.23	-3	8.41	29.0
3	0944	27.00	100	7.45	1480	15.20	-2	8.34	22.7
4	0946	27.00	100	7.40	1490	15.19	-1	8.31	28.7
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
1	VOAs (C,V, 40mL, HCl)
1	VOAS (C,V, 40mL)
1	Organics (A,G,U 1000mL)
1	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
1	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
1	Cyanide (P, 250mL, NaOH)
1	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500mL) <u>1000mL</u>
1	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>1000mL</u>
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - Value range mg/L

Final DTW: 30.00 ft

Comments * below pump around 29 ft preventing possible kink in well
completely. Switched the pump from collecting water
to boiler to fill bottles
remaining bottles

Sampler's Signature: [Signature]

PF
10/23/2023

Duck Creek

WELL/SAMPLE POINT OR04D

Date: 10/24/2023
25
10/24/23 AM

Start Time: 10:18

Purge Method: portable pump w/ de-calc tubing

Finish/Sample Time: 11:37

Well Depth (Bottom) From MP: 67.98 ft

Min. Purge Volume: - Gal / L / mL

Depth to Water From MP: 21.83 ft

Total Purge Volume: 1000 Gal / L / mL

Water Column Length: 46.15 ft

Well Water Volume: 27.01 Gal / L

Total Drawdown: 0.05 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1032	21.88	100	6.45	6540	15.45	-28	3.142	>1000
2	1034	21.88	100	6.46	6500	15.47	-27	3.37	>1000
3	1036	21.86	100	6.47	6410	15.49	-27	3.31	521 2420
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HORIBA

Sample Appearance:

Odor: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	
Casing locked/secure	<input checked="" type="checkbox"/>	
Well cap fits securely.	<input checked="" type="checkbox"/>	
Good seal/drainage	<input checked="" type="checkbox"/>	
Well has weep holes	<input checked="" type="checkbox"/>	

Color None Slight Mod. Strong

Turb: None Slight Mod Strong

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500mL) <u>100mL</u>
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>100mL</u>
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 3.957 mg/L

Final DTW: 21.88 ft

Comments

Sampler's Signature: 

Duck Creek

WELL/SAMPLE POINT OR06A Purge Method: portable pump with Detachable tubing
 Date: 10/26/2023 Start Time: 0429 Finish/Sample Time: 1440
 Well Depth (Bottom) From MP: 25.65 ft Min. Purge Volume: — Gal / L / mL
 Depth to Water From MP: 15.06 ft Total Purge Volume: 1000 Gal / L / mL
 Water Column Length: 10.59 ft
 Well Water Volume: 6.40 Gal L Total Drawdown: 0.16 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1341	15.22	100	6.62	3420	17.31	-30	3.07	418
2	1343	15.22	100	6.62	3430	17.31	-30	3.00	396
3	1345	15.22	100	6.62	3430	17.31	-30	2.93	368
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hori bu

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL) <u>1000 mL</u>
	Ammonia (P, 250 mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>1000 mL</u>
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 8.845 mg/L

Final DTW: 15.22 ft

Comments

Sampler's Signature:



Duck Creek

WELL/SAMPLE POINT OM07

Purge Method:

Portable pump w/ dedicated tubing

Date: 10/26/2023 Start Time: 1050 Finish/Sample Time: 1204

Well Depth (Bottom) From MP: 29.92 ft Min. Purge Volume: ~ Gal / L / mL

Depth to Water From MP: 13.12 ft Total Purge Volume: 1000 Gal / L / mL

Water Column Length: 16.80 ft

Well Water Volume: 16.16 Gal / 0 Total Drawdown: 1.10 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1104	14.12	100	6.85	1270	15.79	-67	1.80	22.0
2	1106	14.13	100	6.85	1260	15.68	-66	1.78	8.9
3	1108	14.14	100	6.84	1260	15.63	-63	1.69	10.9
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: 10/16a

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	X	
Well cap fits securely.	✓	
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL) <u>1000 mL</u>
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>1000 mL</u>
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 0.065 mg/L

Final DTW: 14.22 ft

Comments

Sampler's Signature:

BG
126

Duck Creek

WELL/SAMPLE POINT OR11

Purge Method: portable pump with dedicated tubing

Date: 10/26/2023 Start Time: 0925 Finish/Sample Time: 1129

Well Depth (Bottom) From MP: 43.85 ft Min. Purge Volume: — Gal / L / mL

Depth to Water From MP: 32.35 ft Total Purge Volume: 1000 Gal / L / mL

Water Column Length: 11.50 ft

Well Water Volume: 6.96 Gal / @ Total Drawdown: 0.15 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	0940	32.50	100	7.34	1360	15.51	3	5.31	508
2	0942	32.50	100	7.33	1360	15.48	3	5.29	493
3	0944	32.50	100	7.32	1350	15.46	2	5.18	450
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	X	
Good seal/drainage	✓	X
Well has weep holes	✓	

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

BOTTLE INFORMATION:

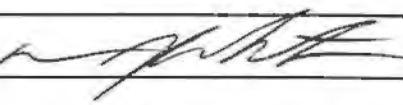
Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
313	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
111	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
111	General (P, 500mL) 1000mL
	Ammonia (P, 250mL, H ₂ SO ₄)
111	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
111	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
111	General (P,500mL) 1000mL
313	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - Under range mg/L

Final DTW: 32.50 ft

Comments: Field dup filled here

Sampler's Signature: 

Duck Creek

WELL/SAMPLE POINT OR II

Purge Method:

submersible pump

Date: 11/3/23 Start Time: 12:23 Finish/Sample Time: 13:28

Well Depth (Bottom) From MP: 43.51 ft Min. Purge Volume: 1.5 Gal / L / mL

Depth to Water From MP: 32.26 ft Total Purge Volume: 1.95 Gal / L / mL

Water Column Length: 11.25 ft

Well Water Volume: 6.81 Gal / L Total Drawdown: 0.04 ft

Reading (Units)	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
1	12:38	32.30	150	7.50	1330	12.20	10	1.66	510
2	12:39	32.30	150	7.41	1310	12.11	5	1.55	499
3	12:40	32.30	150	7.35	1300	12.09	1	1.49	550
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horiba

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.		X
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1+1	General (P, 500 mL) <u>1000 mL</u>
	Ammonia (P, 250mL, H ₂ SO ₄)
	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
1+1	General (P, 500 mL) <u>1000 mL</u>
	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - mg/L

Final DTW: 32.30 ft

Comments

Duplicate taken here

Sampler's Signature:

Joseph A Rad

Duck Creek

WELL/SAMPLE POINT OM12

Purge Method:

portable pump w/ Dedicated tubing

Date: 10/26/2023 Start Time: 0929

Finish/Sample Time: 1045

Well Depth (Bottom) From MP: 43.19 ft

Min. Purge Volume: _____ Gal / L / mL

Depth to Water From MP: 17.98 ft

Total Purge Volume: 1000 Gal / L / mL

Water Column Length: 25.21 ft

Well Water Volume: 15.75 Gal / l

Total Drawdown: 1.12 ft

App 10/26/23

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	0943	19.10	100	6.50	1680	15.94	-27	4.81	716
2	0945	19.10	100	6.50	1680	15.85	-28	4.78	645
3	0947	19.10	100	6.50	161700	15.77	-29	4.72	514
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horizon

Sample Appearance:

Odor: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	/	
Good seal/drainage	X	
Well has weep holes	X	

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>1000mL</u>
	Ammonia (P,250mL H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

(11)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>1000mL</u>
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - Over range mg/L

Final DTW: 19.10 ft

Comments

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT OR13D

Purge Method:

portable pump ✓ deck tank
✓ long

Date: 10/26/2023 Start Time: 12:12 Finish/Sample Time: 13:23

Well Depth (Bottom) From MP: 50.23 ft Min. Purge Volume: - Gal / L / mL

Depth to Water From MP: 14.66 ft Total Purge Volume: 1000 Gal / L / mL

Water Column Length: 35.57 ft

Well Water Volume: 21.51 Gal / \ominus Total Drawdown: 0.12 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	12:24	14.78	100	6.84	1910	15.77	-52	3.38	>1000
2	12:26	14.78	100	6.84	1910	15.75	-53	3.33	>1000
3	12:28	14.78	100	6.83	1910	15.74	-53	3.29	>1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	$\pm 3\%$	± 0.2	± 20	$\pm 10\%$ or 0.2	NA

Field Meter: Motrolab

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL) <u>1000 mL</u>
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>1000 mL</u>
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 1.044 mg/L

Final DTW: 14.78 ft

Comments: WNSPS in well

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT

OR13S

Purge Method: Submersible

Date:

10/17/23

Start Time: 1007

Finish/Sample Time:

1114

Well Depth (Bottom) From MP:

29.55 ft

Min. Purge Volume:

1.0 Gal 0 mL

Depth to Water From MP:

14.74 ft

Total Purge Volume:

1.3 Gal 0 mL

Water Column Length:

14.81 ft

Well Water Volume:

8.968 Gal 0

Total Drawdown:

0.01 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1019	14.75	100	6.03	1930	15.10	35	4.10	213
2	1020	14.75	100	6.08	1910	15.05	29	3.95	207
3	1021	14.75	100	6.10	1900	15.03	20	3.81	210
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Hori
bia

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL) <u>1000</u>
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P, 500 mL) <u>1000</u>
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 3.853 mg/L

Final DTW: 14.75 ft

Comments

Sampler's Signature:

Joseph R Reed

Duck Creek

WELL/SAMPLE POINT OR14D

Purge Method:

Portable Pump w/Dedicated tubing

Date: 10/25/2023 Start Time: 1307

Finish/Sample Time: 1420

Well Depth (Bottom) From MP: 48.78 ft

Min. Purge Volume: — Gal / L / mL

Depth to Water From MP: 11.99 ft

Total Purge Volume: 1000 Gal / L / mL

Water Column Length: 36.79 ft

Well Water Volume: 22.25 Gal / 0

Total Drawdown: 0.33 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	1320	12.32	100	7.01	3140	16.72	-463	2.39	>1000
2	1322	12.32	100	7.03	3140	16.73	-463	2.36	>1000
3	1324	12.32	100	7.00	3150	16.73	-462	2.32	>1000
4									
5									

Stabilization NA NA NA ±0.2 ±3% ±0.2 ±20 ±10% or 0.2 NA

Field Meter: Morita

Sample Appearance:

Odor: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage		✗
Well has weep holes	✓	

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500mL) 1000mL
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P, 500mL) 1000mL
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 1.659 mg/L

Final DTW: 12.32 ft

Comments

Sampler's Signature:

B13

Duck Creek

WELL/SAMPLE POINT OM16

Purge Method:

*floable pumps w/Dedicated
TUBING*

Date: 10/24/2023 Start Time: 1349 Finish/Sample Time: 1503

Well Depth (Bottom) From MP: 43.54 ft Min. Purge Volume: — Gal / L / mL

Depth to Water From MP: 27.10 ft Total Purge Volume: 1000 Gal / L / mL

Water Column Length: 16.44 ft

Well Water Volume: 0.44 Gal / P Total Drawdown: 5.00 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	1404	24.40	100	6.72	4090	15.53	-14	2.59	>1000
2	1406	30.03	100	6.69	4080	15.49	-15	2.57	>1000
3	1406	30.12	100	6.68	4020	15.50	-16	2.53	>1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HORIBA

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage		✗
Well has weep holes		✗

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500mL) <u>100mL</u>
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

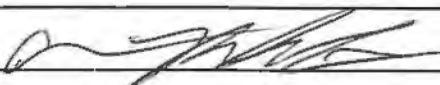
(11)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>100mL</u>
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - Under range mg/L

Final DTW: 32.10 ft

Comments Ants in well

Sampler's Signature: 

Duck Creek

WELL/SAMPLE POINT

OM 16

Purge Method:

Submersible pumpDate: 11/3/23 Start Time: 1000 Finish/Sample Time: 1100Well Depth (Bottom) From MP: 43.61 ft Min. Purge Volume: 1.5 Gal L mLDepth to Water From MP: 27.30 ft Total Purge Volume: 1.8 Gal L mLWater Column Length: 16.31 ftWell Water Volume: 988 Gal / L Total Drawdown: 0.60 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1030	28.34	100	6.70	3790	11.44	45	2.29	711
2	1031	28.32	100	6.69	3790	11.45	45	2.20	700
3	1032	28.34	100	6.67	3790	11.44	45	2.13	780
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horiba

Sample Appearance:

Odor: None Slight Mod. StrongColor: None Slight Mod. StrongTurb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL) <u>1000 mL</u>
	Ammonia (P, 250mL, H ₂ SO ₄)
	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO ₃)
	Ammonia (P, 250mL, H ₂ SO ₄)
1	General (P, 500 mL) <u>1000 mL</u>
	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - mg/L

Final DTW: 27.90 ft

Comments

Sampler's Signature:

Joseph R Rad

Duck Creek

WELL/SAMPLE POINT OM17

Purge Method: Portable pump w/dedicated tubing

Date: 10/24/2023 Start Time: 1302 Finish/Sample Time: 1346

Well Depth (Bottom) From MP: 17.46 ft Min. Purge Volume: — Gal / L / mL

Depth to Water From MP: 15.52 ft Total Purge Volume: 1000 Gal / L / mL

Water Column Length: 1.94 ft

Well Water Volume: 1117 Gal / 0 Total Drawdown: 1.46 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	1315	15.00	100	6.72	1540	23.73	-33	2.12	545
2	1317	15.00	100	6.72	1550	23.72	-33	2.10	568
3	1319	15.00	100	6.72	1540	23.70	-34	2.07	532
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hori 60

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage		✗
Well has weep holes		✗

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
	General (P, 500 mL)
	Ammonia (P, 250mL, H ₂ SO ₄)
	Rad (P, 2.5L, HNO ₃)

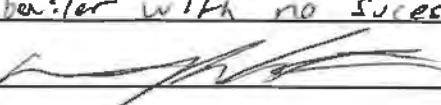
Filtered	
Qty	Bottles
	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
	General (P,500mL)
	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - mg/L

Final DTW: 16.94 ft

Comments At water level below pump ran out of water after rents, tried sampling with barrier with no success

Well Drikt up

Sampler's Signature: 

Duck Creek

WELL/SAMPLE POINT OR19

Purge Method:

1300

Portable pump
w/Dedicated tubing

Date: 10/25/2023

Start Time: 1146

Finish/Sample Time: 08:00 10/25/23

Well Depth (Bottom) From MP: 55.03 ft

Min. Purge Volume: — Gal / L / mL

Depth to Water From MP: 25.48 ft

Total Purge Volume: 1000 Gal / L / mL

Water Column Length: 29.05 ft

Well Water Volume: 17.57 Gal / L

Total Drawdown: 0.10 ft

Reading (Units)	Time	Depth	Flow Rate	pH	Spec Cond	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1159	26.08	100	7.08	3020	16.40	-51	7.60	71000
2	1201	26.08	100	7.05	2980	16.36	-53	7.58	>100
3	1203	26.08	100	7.03	2950	16.30	-53	7.54	71000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.		✗
Good seal/drainage		✗
Well has weep holes	✓	

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod Strong

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500mL) <u>1000mL</u>
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

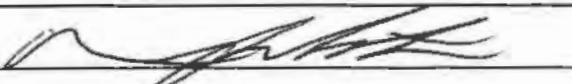
Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>1000mL</u>
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 5.942 mg/L

Final DTW: 26.08 ft

Comments

Sampler's Signature:



Duck Creek

WELL/SAMPLE POINT OR20

Purge Method: portable pump with dedicated tubing

Date: 10/24/2023 Start Time: 11:35 Finish/Sample Time: 12:48

Well Depth (Bottom) From MP: 57.55 ft Min. Purge Volume: ~ Gal / L / mL

Depth to Water From MP: 22.42 ft Total Purge Volume: 1000 Gal / L / mL

Water Column Length: 35.13 ft

Well Water Volume: 21.11 Gal / 0 Total Drawdown: 0.13 ft
21.25 APP 10/24/23

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	11:48	22.55	100	6.87	2630	14.51	-48	2.35	71000
2	11:50	22.55	100	6.86	2610	14.60	-48	2.33	71000
3	11:52	22.55	100	6.85	2590	14.68	-48	2.30	71000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.		✗
Good seal/drainage		✗
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500mL) <u>100ml</u>
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>100ml</u>
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 0.152 mg/L

Final DTW: 22.55 ft

Comments

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT OR 20 **Purge Method:** Submersible pump
 Date: 11/3/23 Start Time: 1120 Finish/Sample Time: 1211
 Well Depth (Bottom) From MP: 57.55 ft Min. Purge Volume: 1.5 Gal / 60 mL
 Depth to Water From MP: 22.29 ft Total Purge Volume: 1.8 Gal / L / mL
 Water Column Length: 35.26 ft
 Well Water Volume: 2195 Gal / L Total Drawdown: -0.01 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	1140	22.28	100	7.53	2710	12.40	-2	2.29	173
2	1141	22.28	100	7.41	2700	12.42	-4	2.15	155
3	1142	22.28	100	7.39	2690	12.42	-5	1.99	109
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.		X
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL) 1000 mL
	Ammonia (P, 250mL, H ₂ SO ₄)
	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P, 500mL) 1000 mL
	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - mg/L

Final DTW: 22.28 ft

Comments

no cap - cover w/ ~~#~~ nitrile glove

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT OM21

Purge Method:

Portable pump w/ desiccant tubing

Date: 10/25/2023

Start Time: 1423

Finish/Sample Time: 1538

Well Depth (Bottom) From MP: 60.55 ft

Min. Purge Volume: - Gal / L / mL

Depth to Water From MP: 12.64 ft

Total Purge Volume: 1000 Gal / L / mL

Water Column Length: 47.91 ft

Well Water Volume: 28.98 Gal / l

Total Drawdown: 0.42 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1436	13.06	100	6.71	3850	15.26	-35	0.76	323
2	1438	13.06	100	6.71	3840	15.29	-35	0.69	228
3	1440	13.06	100	6.70	3840	15.29	-35	0.59	209
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hori-bo

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500-mL) 1000mL
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) 1000mL
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 4.4654 mg/L

Final DTW: 13.06 ft

Comments

Sampler's Signature:

10/25/2023

Duck Creek

WELL/SAMPLE POINT OM22D

Purge Method:

Portable pump with Detach'l
turbby

Date: 10/23/2023 Start Time: 1300

Finish/Sample Time: 1411

Well Depth (Bottom) From MP: 65.19 ft

Min. Purge Volume: — Gal / L / mL

Depth to Water From MP: 20.22 ft

Total Purge Volume: 1000 Gal / L / mL

Water Column Length: 44.97 ft

Well Water Volume: 27.20 Gal / 0

Total Drawdown: 0.00 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1312	20.22	100	6.80	44022.2	14.20	-15.1	0.37	909.45
2	1314	20.22	100	6.88	4428.2	14.25	-14.3	0.38	866.16
3	1316	20.22	100	6.88	4426.2	14.26	-13.8	0.38	589.41
4									
5									

Stabilization NA NA NA ± 0.2 ± 3% ± 0.2 ± 20 ± 10% or 0.2 NA

Field Meter: A1600

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500mL) <u>1000mL</u>
	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>1000mL</u>
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 0.379 mg/L

Final DTW: 20.22 ft

Comments _____

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT OM23D

Purge Method:

Air bubble pump with Dedicated tubing

Date: 10/23/2023 Start Time: 1140

Finish/Sample Time: 1254

Well Depth (Bottom) From MP: 82.91 ft

Min. Purge Volume: _____ Gal / L / mL

Depth to Water From MP: 39.06 ft

Total Purge Volume: 1000 Gal / L / mL

Water Column Length: 43.85 ft

Well Water Volume: 26.52 Gal / L

Total Drawdown: 0.00 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	1155	34.06	100	7.07	1768.7	14.62	-44.0	0.74	84.685
2	1157	39.06	100	7.03	1766.0	14.60	-43.8	0.73	2370.6
3	1159	39.06	100	7.00	1770.7	14.58	-42.9	0.73	2243.4
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: A7600

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✗	✗
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

Sample Appearance:

Odor: None Slight Mod. Strong

Color: None Slight Mod. Strong

Turb: None Slight Mod Strong

APP 10/23/23

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
1	VOAs (C,V, 40mL, HCl)
1	VOAS (C,V, 40mL)
1	Organics (A,G,U 1000mL)
1	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
1	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
1	Cyanide (P, 250mL, NaOH)
1	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500 mL) 1000mL
1	Ammonia (P, 250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) 1000mL
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - 0.300 mg/L

Final DTW: 39.06 ft

Comments

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT OM24D

Purge Method:

portable pump w/ Dedscaled tubing

Date: 10/23/2023 Start Time: 0936

Finish/Sample Time: 1049

Well Depth (Bottom) From MP: 19.66 ft

Min. Purge Volume: — Gal / L / mL

Depth to Water From MP: 5.40 ft

Total Purge Volume: 1000 Gal / L / mL

Water Column Length: 14.26 ft

Well Water Volume: 8.62 Gal (L)

Total Drawdown: 0.00 ft

APV/23/23

Reading	Time	Depth (Units)	Flow Rate	pH	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	0950	5.40	100	6.72	3342.4	15.50	-46.8	1.41	347.13
2	0952	5.40	100	6.74	3341.1	15.53	-46.3	1.34	376.13
3	0954	5.40	100	6.74	3344.0	15.55	-45.2	1.29	370.98
4		5.40							
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

A1600

Sample Appearance:

Odor: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✗	
Well cap fits securely.	✗	
Good seal/drainage		✗
Well has weep holes	✓	

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500mL) <u>1000mL</u>
	Ammonia (P,250mL, H ₂ SO ₄)
1	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
1	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>1000mL</u>
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron: 6.734 mg/L
Over Range BG 11/10/23

Final DTW: 5.40 ft

Comments

Sampler's Signature:



Duck Creek

WELL/SAMPLE POINT OM25S

Purge Method: baffle

Date: 10/23/2023 Start Time: 10:53 Finish/Sample Time: 11:30

Well Depth (Bottom) From MP: 63.97 ft Min. Purge Volume: _____ Gal / L / mL

Depth to Water From MP: 58.25 ft Total Purge Volume: 4 Gal / L / mL

Water Column Length: 5.72 ft

Well Water Volume: 3.46 Gal (L) Total Drawdown: 1.35 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	11:04	58.40	-	6.82	3351.8	14.51	-14.5	2.55	894.73
2	11:06	58.75	-	6.82	3545.3	14.48	-12.0	2.50	7456.1
3	11:08	58.60	-	6.82	3655.9	14.37	-9.3	2.46	1672.1
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: None Slight Mod. Strong

Color None Slight Mod. Strong

Turb: None Slight Mod. Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCl)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H ₂ SO ₄)
	TOX (A,G 500mL, H ₂ SO ₄)
1	Metals (P,250mL, HNO ₃)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H ₂ SO ₄)
1	General (P, 500mL) <u>1000 mL</u>
	Ammonia (P, 250mL, H ₂ SO ₄)
4	Rad (P, 2.5L, HNO ₃)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO ₃)
	Ammonia (P,250mL, H ₂ SO ₄)
1	General (P,500mL) <u>1000 mL</u>
3	TOC (A,V, 40mL, H ₂ SO ₄)

Ferrous Iron - Under range mg/L

Final DTW: 89.60 ft

Comments: baffle used due to sulfate water poor recharge
and significant sediment that makes sampling with pump impossible

Only 1 well volume purged to site
 Sampler's Signature: R. J. Miller

Water levels
 taken consecutively

Multiparameter Meter Field Calibration Checklist

Field Personnel:	LR JR			Location:	WICK CREEK				
Weather:	44° (66°) SUNNY, NW 1 mph			Environment:	GRASS, TREE, BUSHES, GRAVEL				
Multiparameter Water Meter	Make:	HORIBA	Model:	V-5000	Serial Number:	PW 26YJD3			
Water Level Meter	Make:	Heron	Model:	Dipper-T	Serial Number:	3717-T			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.91	s.u.	±0.1 s.u.	P	NA	NA	MSI	023067-01	3/14/2025
pH 7.00a	6.98	s.u.	±0.1 s.u.	P			MSI	023051-02	2/21/2025
pH 10.00a	9.91	s.u.	±0.1 s.u.	P			MSI	022361-01	12/27/2024
SC Zero (DI)	0	µS/cm	0-25 µS/cm	P			Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1750	µS/cm	±5%	P			Geotech	3GF1197	Jun-24
ORP	242	mV	±15 mV	P			InSitu	3GD927	Jan-24
DO (Zero pt)	0	mg/L	±0.1	P			Macron	#000228049	8/26/2025
DO (Saturated)	9.87	%	97-100%	P			Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time:	0950			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00b	4.00	s.u.	±0.15 s.u.	P	NA	—	Geotech	3GB1049	Feb-25
pH 7.00b	7.02	s.u.	±0.15 s.u.	P	NA	—	Geotech	2GF113	Jun-24
pH 10.00b	9.87	s.u.	±0.15 s.u.	P	NA	—	Geotech	3GA1134	Jan-25
SC 1000	1000	µS/cm	±5%	P	NA	—	Ricca	4209A12	Aug-24
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:	1542			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.98	s.u.	±0.1 s.u.	P	NA	—	MSI	023067-01	3/14/2025
pH 7.00a	6.97	s.u.	±0.1 s.u.	P	NA	—	MSI	023051-02	2/21/2025
pH 10.00a	10.01	s.u.	±0.1 s.u.	P	NA	—	MSI	022361-01	12/27/2024
SC 1000	990	µS/cm	±5%	P	NA	—	Ricca	4209A12	Aug-24
DO (Zero pt)	0	mg/L	±0.1 mg/L	P	NA	—	Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	NA	—	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Comments:									
Signature:				Date:	10/17/23				

14
BG

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed			Location:	Vistra Duck Creek				
Weather:	50-70°F part cloudy ^{wind} 9-17 mph			Environment:	grassy				
Multiparameter Water Meter	Make:	Horiba	Model:	V5000	Serial Number:	PW2GYJD3			
Water Level Meter	Make:	Heron	Model:	Series 1100	Serial Number:	1AFF2111192HB			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	P	N		MSI	023067-01	3/14/2025
pH 7.00a	7.01	s.u.	±0.1 s.u.	P			MSI	023051-02	2/21/2025
pH 10.00a	10.00	s.u.	±0.1 s.u.	P			MSI	022361-01	12/27/2024
SC Zero (DI)	0.30	µS/cm	0<25 µS/cm	P			Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2.000	µS/cm	±5%	P			Geotech	3GA1071	Jan-24
ORP	240	mV	±15 mV	P			InSitu	3GD927	Jan-24
DO (Zero pt)	0.03	mg/L	±0.1	P			Macron	#000228049	8/26/2025
DO (Saturated)	9.90	%	97-100%	P			Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P			Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 940			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.07	s.u.	±0.15 s.u.	P	N	Geotech	2GE870	May-24
pH 7.00b	7.00	s.u.	±0.15 s.u.	P	N	Geotech	2GF113	Jun-24
pH 10.00b	9.99	s.u.	±0.15 s.u.	P	N	Geotech	2GE820	May-24
SC 1000	998.1	µS/cm	±5%	P	N	Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1550				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	N		MSI	023067-01	3/14/2025
pH 7.00a	7.05	s.u.	±0.1 s.u.	P			MSI	023051-02	2/21/2025
pH 10.00a	10.02	s.u.	±0.1 s.u.	P			MSI	022361-01	12/27/2024
SC 1000	1010	µS/cm	±5%	P			Ricca	4209A12	Aug-24
DO (Zero pt)	0.05	mg/L	±0.1 mg/L	P			Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P			Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	<i>Joseph F Reed</i>			Date:	10/18/23		
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B6
10/30/23

B6
10/30/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed			Location:	Duct Creek Power - Wistra				
Weather:	Rain 55-60°F Wind 9-13 mph			Environment:	Grassy				
Multiparameter Water Meter	Make:	Horiba	Model:	U5000	Serial Number:	PH2GYJD3			
Water Level Meter	Make:	Heron	Model:	Series 110e	Serial Number:	11FF2209305ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	± 0.1 s.u.	P	N		MSI	023067-01	3/14/2025
pH 7.00a	7.02	s.u.	± 0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.01	s.u.	± 0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	0.0	$\mu\text{S}/\text{cm}$	0<25 $\mu\text{S}/\text{cm}$				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2020	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Geotech	3GA1071	Jan-24
ORP	240	mV	± 15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	0.0	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.5	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	930		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.96	s.u.	± 0.15 s.u.	P	N	Geotech	2GE870	May-24
pH 7.00b	6.99	s.u.	± 0.15 s.u.			Geotech	2GF113	Jun-24
pH 10.00b	9.99	s.u.	± 0.15 s.u.			Geotech	2GE820	May-24
SC 1000	995.8	$\mu\text{S}/\text{cm}$	$\pm 5\%$			Ricca	4209A12	Aug 24

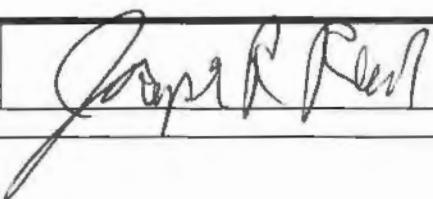
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1520			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	± 0.1 s.u.	P	N		MSI	023067-01	3/14/2025
pH 7.00a	7.02	s.u.	± 0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.01	s.u.	± 0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000	1000	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4209A12	Aug 24
DO (Zero pt)	0.0	mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	± 0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	± 0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4209A12	Aug 24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	10/19/23
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	Logan Ross			Location:	DUCK CREEK				
Weather:	Sunny 47°-68° 10 mph NW			Environment:	GRASS, WOODLAND, GRAVEL				
Multiparameter Water Meter	Make:	HORIBA	Model:	U-5000	Serial Number:	PWZG4JD3			
Water Level Meter	Make:	Heron	Model:	Dipper	Serial Number:	1AFFZ111192 HB			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.10	s.u.	±0.1 s.u.	P	NA	NA	MSI	023067-01	3/14/2025
pH 7.00a	7.06	s.u.	±0.1 s.u.	F			MSI	023051-02	2/21/2025
pH 10.00a	9.98	s.u.	±0.1 s.u.	P			MSI	022361-01	12/27/2024
SC Zero (DI)	0	µS/cm	0<25 µS/cm	P			Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2018	µS/cm	±5%	P			Geotech	3GF1197	Jun-24
ORP	247	mV	±15 mV	P			InSitu	3GD927	Jan-24
DO (Zero pt)	0	mg/L	±0.1	P			Macron	#000228049	8/26/2025
DO (Saturated)	100	%	97-100%	P			Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs; unless only one well.

ICV (Initial Calibration Verification)						Time:	6930	
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.05	s.u.	±0.15 s.u.	P	NA	Geotech	3GB1049	Feb-25
pH 7.00b	7.14	s.u.	±0.15 s.u.	P	NA	Geotech	2GF113	Jun-24
pH 10.00b	9.17	s.u.	±0.15 s.u.	F	CAL 10.00	Geotech	3GA1134	Jan-25
SC 1000	960	µS/cm	±5%	P	NA	Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well.

CCV (Continued Calibration Verification):						Time:	1447		
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.09	s.u.	±0.1 s.u.	P	NA	NA	MSI	023067-01	3/14/2025
pH 7.00a	6.92	s.u.	±0.1 s.u.	P			MSI	023051-02	2/21/2025
pH 10.00a	9.96	s.u.	±0.1 s.u.	P			MSI	022361-01	12/27/2024
SC 1000	1040	µS/cm	±5%	P			Ricca	4209A12	Aug-24
DO (Zero pt)	0.0	mg/L	±0.1 mg/L	P			Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	ND	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs; unless only one well.

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	10-20-23
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton		Location:	Duck Creek	
Weather:	57° - 64° F wind NW at 12 mph		Environment:	grass, d:rl	

Multiparameter Water Meter	Make:	A7	Model:	600	Serial Number:	762215
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Water Level Meter	Make:	HORN	Model:	D.A.M.T	Serial Number:	3717-7
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Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.15	s.u.	±0.1 s.u.	F	YES	4.00	MSI	023067-01	3/14/2025
pH 7.00a	7.08	s.u.	±0.1 s.u.	F	YES	7.00	MSI	023051-02	2/21/2025
pH 10.00a	10.36	s.u.	±0.1 s.u.	F	YES	10.00	MSI	022361-01	12/27/2024
SC Zero (DI)	1.42	µS/cm	<25 µS/cm	F	NO	-	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1019.7	µS/cm	±5%	F	NO	-	Geotech	3GF1197	Jun-24
ORP	245.8	mV	±15 mV	F	NO	-	InSitu	3GD927	Jan-24
DO (Zero pt)	0.10	mg/L	±0.1	F	NO	-	Macron	#000228049	8/26/2025
DO (Saturated)	9.72	%	97-100%	F	NO	-	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU	F	NO	-	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)

Time: 0941

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.01	s.u.	±0.15 s.u.	F	-	Geotech	3GB1049	Feb-25
pH 7.00b	7.02	s.u.	±0.15 s.u.	F	-	Geotech	2GF113	Jun-24
pH 10.00b	10.03	s.u.	±0.15 s.u.	F	-	Geotech	3GA1134	Jan-25
SC 1000	1000.1	µS/cm	±5%	F	-	Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):

Time: 1445

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	F	NO	-	MSI	023067-01	3/14/2025
pH 7.00a	7.03	s.u.	±0.1 s.u.	F	NO	-	MSI	023051-02	2/21/2025
pH 10.00a	10.02	s.u.	±0.1 s.u.	F	NO	-	MSI	022361-01	12/27/2024
SC 1000	1001.36	µS/cm	±5%	F	NO	-	Ricca	4209A12	Aug-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L	F	NO	-	Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	NTU	<2 NTU	F	NO	-	Pace Labs	N/A (DI)	N/A (DI)

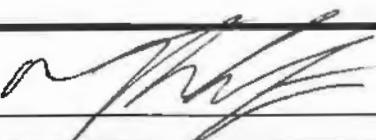
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):

Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	-	s.u.	±0.1 s.u.	/	/	/	MSI	023067-01	3/14/2025
7.00a	-	s.u.	±0.1 s.u.	/	/	/	MSI	023051-02	2/21/2025
10.00a	-	s.u.	±0.1 s.u.	/	/	/	MSI	022361-01	12/27/2024
SC 1000	-	µS/cm	±5%	/	/	/	Ricca	4209A12	Aug-24
DO (Zero pt)	-	mg/L	±0.1 mg/L	/	/	/	Macron	#000228049	8/26/2025
Turbidity (DI)	-	NTU	<2 NTU	/	/	/	Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	10/20/2023
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14B
BG

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Remberon			Location:	Ductilecrete				
Weather:	52° - 75° F Sunny Wind SE 12 mph			Environment:	grass, woods, farm field				
Multiparameter Water Meter	Make:	AT	Model:	600	Serial Number:	762215			
Water Level Meter	Make:	Heron	Model:	Dipper	Serial Number:	3717-7			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.05	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	7.00	s.u.	±0.1 s.u.	P			MSI	023051-02	2/21/2025
pH 10.00a	10.07	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	10.81	µS/cm	<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2020.1	µS/cm	±5%				Geotech	3GF1197	Jun-24
ORP	242.8	mV	±15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	9.873	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: 0915		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.03	s.u.	±0.15 s.u.	P	N/A	Geotech	3GB1049	Feb-25
pH 7.00b	7.01	s.u.	±0.15 s.u.	P		Geotech	2GF113	Jun-24
pH 10.00b	10.03	s.u.	±0.15 s.u.	P		Geotech	3GA1134	Jan-25
SC 1000	1006.6	µS/cm	±5%	P		Ricca	4209A12	Aug-24

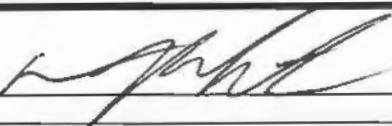
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: 1600			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	7.05	s.u.	±0.1 s.u.	P			MSI	023051-02	2/21/2025
pH 10.00a	10.09	s.u.	±0.1 s.u.	P			MSI	022361-01	12/27/2024
SC 1000	998.34	µS/cm	±5%	P			Ricca	4209A12	Aug-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L	P			Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	NTU	<2 NTU	P			Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	10/23/2023
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	Logan Ross			Location:	DUCK CREEK				
Weather:	Sunny 59-74° 13M65			Environment:	GRASS WOODS, GRAVEL				
Multiparameter Water Meter	Make:	HORIBA	Model:	V-5000	Serial Number:	PWZGYJD3			
Water Level Meter	Make:	HERON	Model:	1900	Serial Number:	19FF220E, 1			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.98	s.u.	± 0.1 s.u.	P	No	-	MSI	023067-01	3/14/2025
pH 7.00a	6.99	s.u.	± 0.1 s.u.	F	6.98	Y	MSI	023051-02	2/21/2025
pH 10.00a	9.98	s.u.	± 0.1 s.u.	P	No	-	MSI	022361-01	12/27/2024
SC Zero (DI)	0.0	$\mu\text{s}/\text{cm}$	0<25 $\mu\text{s}/\text{cm}$	P	No	-	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	19.70	$\mu\text{s}/\text{cm}$	$\pm 5\%$	P	No	-	Geotech	3GF1197	Jun-24
ORP	241	mV	± 15 mV	P	No	-	InSitu	3GD927	Jan-24
DO (Zero pt)	0.0	mg/L	± 0.1	F	No	-	Macron	#000228049	8/26/2025
DO (Saturated)	100	%	97-100%	P	No	-	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	No	-	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time: 0850				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00b	3.93	s.u.	± 0.15 s.u.	P	-	-	Geotech	3GB1049	Feb-25
pH 7.00b	7.07	s.u.	± 0.15 s.u.	P	-	-	Geotech	2GF113	Jun-24
pH 10.00b	10.15	s.u.	± 0.15 s.u.	I	-	-	Geotech	3GA1134	Jan-25
SC 1000	9.97	$\mu\text{s}/\text{cm}$	$\pm 5\%$	P	-	-	Ricca	4209A12	Aug-24
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time: 1610				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	± 0.1 s.u.	P	No	N/A	MSI	023067-01	3/14/2025
pH 7.00a	6.92	s.u.	± 0.1 s.u.	P	-	-	MSI	023051-02	2/21/2025
pH 10.00a	9.98	s.u.	± 0.1 s.u.	I	-	-	MSI	022361-01	12/27/2024
SC 1000	10.10	$\mu\text{s}/\text{cm}$	$\pm 5\%$	I	-	-	Ricca	4209A12	Aug-24
DO (Zero pt)	0.0	mg/L	± 0.1 mg/L	I	-	-	Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	I	-	-	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	± 0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	± 0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		$\mu\text{s}/\text{cm}$	$\pm 5\%$				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Comments:									
Signature:	Logan Ross			Date:	10/23/2023				

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BEN

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Ramberton			Location:	Duck creek				
Weather:	67°-77°F mostly sunny WSEB SW 12 mph			Environment:	Woods, grass, dirt, gravel				
Multiparameter Water Meter	Make:	Horus	Model:	US000	Serial Number:	PV26YJ03			
Water Level Meter	Make:	Heron	Model:	Different	Serial Number:	3717-7 PV26YJ03 AP 10/24/23			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.99	s.u.	± 0.1 s.u.	P	No	N/A	MSI	023067-01	3/14/2025
pH 7.00a	7.00	s.u.	± 0.1 s.u.	P			MSI	023051-02	2/21/2025
pH 10.00a	10.06	s.u.	± 0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	0.0	$\mu\text{S}/\text{cm}$	0<25 $\mu\text{S}/\text{cm}$				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Geotech	3GF1197	Jun-24
ORP	237	mV	± 15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	0.09	mg/L	± 0.1				Macron	#000228049	8/26/2025
DO (Saturated)	97.1	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.5	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time:	238 @ 18°C			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.00	s.u.	± 0.15 s.u.	P	N/A	Geotech	3GB1049	Feb-25	
pH 7.00b	6.89	s.u.	± 0.15 s.u.			Geotech	2GF113	Jun-24	
pH 10.00b	10.09	s.u.	± 0.15 s.u.			Geotech	3GA1134	Jan-25	
SC 1000	1010	$\mu\text{S}/\text{cm}$	$\pm 5\%$			Ricca	4209A12	Aug-24	
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:	1513			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	± 0.1 s.u.	P	No	N/A	MSI	023067-01	3/14/2025
pH 7.00a	7.05	s.u.	± 0.1 s.u.	P			MSI	023051-02	2/21/2025
pH 10.00a	10.09	s.u.	± 0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000	1030	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4209A12	Aug-24
DO (Zero pt)	0.09	mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.8	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	± 0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	± 0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Comments:									
Signature:					Date:	10/24/2023			

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Remberger			Location:	Duck creek				
Weather:	62°-72° Cloudy Rain Wind SW 8 mph			Environment:	Woods, grass, gravel, dirt				
Multiparameter Water Meter	Make:	Horiion	Model:	VS000	Serial Number:	PV2685D3			
Water Level Meter	Make:	Heron	Model:	Diffrt	Serial Number:	3717-T			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	± 0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	7.00	s.u.	± 0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.07	s.u.	± 0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	0.0	$\mu\text{S}/\text{cm}$	0<25 $\mu\text{S}/\text{cm}$				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	20.10	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Geotech	3GF1197	Jun-24
ORP	231	mV	± 15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	0.09	mg/L	± 0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.1	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time:	0915			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00b	4.00	s.u.	± 0.15 s.u.	P	N/A		Geotech	3GB1049	Feb-25
pH 7.00b	6.89	s.u.	± 0.15 s.u.				Geotech	2GF113	Jun-24
pH 10.00b	10.13	s.u.	± 0.15 s.u.				Geotech	3GA1134	Jan-25
SC 1000	1000	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4209A12	Aug-24
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:	1545			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.07	s.u.	± 0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	7.04	s.u.	± 0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.08	s.u.	± 0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000	10.30	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4209A12	Aug-24
DO (Zero pt)	0.09	mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	± 0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	± 0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Comments:									
Signature:					Date:	10/25/2023			

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B5a

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton			Location:	Duck Creek				
Weather:	60° - 70° F cloudy, rain wind S 10 mph			Environment:	woods, mul, grass				
Multiparameter Water Meter	Make:	Flow 64	Model:	V5000	Serial Number:	WUL83C85			
Water Level Meter	Make:	Hean	Model:	Dipper	Serial Number:	3717-7			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.07	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	6.93	s.u.	±0.1 s.u.	P			MSI	023051-02	2/21/2025
pH 10.00a	9.96	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2030	µS/cm	±5%				Geotech	3GF1197	Jun-24
ORP	234	mV	±15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	9.92	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

237 @ 19°C

ICV (Initial Calibration Verification)					Time:	0915			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.03	s.u.	±0.15 s.u.	P	N/A	Geotech	3GB1049	Feb-25	
pH 7.00b	6.87	s.u.	±0.15 s.u.	P		Geotech	2GF113	Jun-24	
pH 10.00b	9.92	s.u.	±0.15 s.u.	I		Geotech	3GA1134	Jan-25	
SC 1000	1010	µS/cm	±5%	I		Ricca	4209A12	Aug-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1547			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.07	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	6.93	s.u.	±0.1 s.u.	I			MSI	023051-02	2/21/2025
pH 10.00a	9.94	s.u.	±0.1 s.u.	I			MSI	022361-01	12/27/2024
SC 1000	1030	µS/cm	±5%	I			Ricca	4209A12	Aug-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L	I			Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	I			Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	10/26/2023
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B6

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Logan Ross			Location:	DUCK CREEK				
Weather:	70°/64° CLOUDY/RAIN 9 mph S			Environment:	Grass Woodland Gravel				
Multiparameter Water Meter:	Make:	HORIBA	Model:	V-SOGO	Serial Number:	PWZ6YJD3			
Water Level Meter:	Make:	HEIRON	Model:	dipper-1	Serial Number:	11FFZZ09305ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	± 0.1 s.u.	P	—	—	MSI	023067-01	3/14/2025
pH 7.00a	6.93	s.u.	± 0.1 s.u.	P	—	—	MSI	023051-02	2/21/2025
pH 10.00a	9.53	s.u.	± 0.1 s.u.	F	Y	9.99	MSI	022361-01	12/27/2024
SC Zero (DI)	0.0	$\mu\text{s}/\text{cm}$	0<25 $\mu\text{s}/\text{cm}$	P	—	—	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1999	$\mu\text{s}/\text{cm}$	$\pm 5\%$	P	—	—	Geotech	3GF1197	Jun-24
ORP	236	mV	± 15 mV	P	—	—	InSitu	3GD927	Jan-24
DO (Zero pt)	.23	mg/L	± 0.1	F	Y	0.0	Macron	#000228049	8/26/2025
DO (Saturated)	9.8	%	97-100%	P	—	—	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.2	NTU	<2 NTU	P	—	—	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	0908		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.02	s.u.	± 0.15 s.u.	P	NA	Geotech	3G81049	Feb-25
pH 7.00b	6.91	s.u.	± 0.15 s.u.	P	NA	Geotech	2GF113	Jun-24
pH 10.00b	10.01	s.u.	± 0.15 s.u.	P	NA	Geotech	3GA1134	Jan-25
SC 1000	10.50	$\mu\text{s}/\text{cm}$	$\pm 5\%$	P	NA	Ricca	4209A12	Aug-24

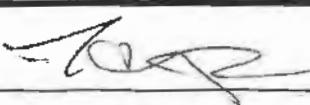
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.04	s.u.	± 0.1 s.u.	P	—	NA	MSI	023067-01	3/14/2025
pH 7.00a	6.92	s.u.	± 0.1 s.u.	P	—	NA	MSI	023051-02	2/21/2025
pH 10.00a	9.99	s.u.	± 0.1 s.u.	P	—	NA	MSI	022361-01	12/27/2024
SC 1000	10.30	$\mu\text{s}/\text{cm}$	$\pm 5\%$	P	—	NA	Ricca	4209A12	Aug-24
DO (Zero pt)	0.0	mg/L	± 0.1 mg/L	P	—	NA	Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	—	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	± 0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	± 0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		$\mu\text{s}/\text{cm}$	$\pm 5\%$				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	10/26/23
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Logan Ross

10/26/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Brendan Glennon			Location:	Duck Creek PS				
Weather:	65° Cloudy 9 Mph NNE				Environment:	Grass Field			
Multiparameter Water Meter	Make:	HoriBa	Model:	U-5000	Serial Number:	WUG 83C85			
Water Level Meter	Make:	Heron	Model:	Dipper-T	Serial Number:	1FF2209305ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	N	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.98	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.99	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	8	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2040	µS/cm	±5%				Geotech	3GA1071	Jan-24
ORP	233	mV	±15 mV				InSitu	2G962	Jan-23
DO (Zero pt)	0.08	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	100	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	1030			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.04	s.u.	±0.15 s.u.	P	N	Geotech	2GE870	Mar-24	
pH 7.00b	7.06	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24	
pH 10.00b	10.84	s.u.	±0.15 s.u.			Geotech	2GE820	May-24	
SC 1000	1030	µS/cm	±5%			Ricca	4207N97	Jul-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1423			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	±0.1 s.u.	P	N	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.99	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.98	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1020	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.01	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.07	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	Brendan Glennon	Date:	10/26/23
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55
BGN

Multiparameter Meter Field Calibration Checklist

Field Personnel:	<i>Aaron Pemberton</i>			Location:	<i>Duck screen grass mt</i>				
Weather:	<i>68°-71° & cloudy wind SW 11mp</i>			Environment:					
Multiparameter Water Meter	Make:	<i>Horus</i>	Model:	<i>V5000</i>	Serial Number:	<i>WUG63185</i>			
Water Level Meter	Make:	<i>Horus</i>	Model:	<i>Digital</i>	Serial Number:	<i>3717-7</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.05</i>	s.u.	± 0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	023067-01	3/14/2025
pH 7.00a	<i>7.02</i>	s.u.	± 0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	023051-02	2/21/2025
pH 10.00a	<i>10.01</i>	s.u.	± 0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	022361-01	12/27/2024
SC Zero (DI)	<i>0.0</i>	$\mu\text{s}/\text{cm}$	$0<25 \mu\text{s}/\text{cm}$	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2010</i>	$\mu\text{s}/\text{cm}$	$\pm 5\%$	<i>P</i>	<i>NO</i>	<i>N/A</i>	Geotech	3GF1197	Jun-24
ORP	<i>231</i>	mV	± 15 mV	<i>P</i>	<i>NO</i>	<i>N/A</i>	InSitu	3GD927	Jan-24
DO (Zero pt)	<i>0.05</i>	mg/L	± 0.1	<i>P</i>	<i>NO</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>98.7</i>	%	97-100%	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)

Time: *0930*

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<i>4.01</i>	s.u.	± 0.15 s.u.	<i>P</i>	<i>NO</i>	Geotech	3GB1049	Feb-25
pH 7.00b	<i>7.05</i>	s.u.	± 0.15 s.u.	<i>P</i>	<i>NO</i>	Geotech	2GF113	Jun-24
pH 10.00b	<i>10.04</i>	s.u.	± 0.15 s.u.	<i>P</i>	<i>NO</i>	Geotech	3GA1134	Jan-25
SC 1000	<i>1000</i>	$\mu\text{s}/\text{cm}$	$\pm 5\%$	<i>P</i>	<i>NO</i>	Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):

Time: *1530*

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.04</i>	s.u.	± 0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	023067-01	3/14/2025
pH 7.00a	<i>7.08</i>	s.u.	± 0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	023051-02	2/21/2025
pH 10.00a	<i>10.04</i>	s.u.	± 0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	022361-01	12/27/2024
SC 1000	<i>1030</i>	$\mu\text{s}/\text{cm}$	$\pm 5\%$	<i>P</i>	<i>NO</i>	<i>N/A</i>	Ricca	4209A12	Aug-24
DO (Zero pt)	<i>0.09</i>	mg/L	± 0.1 mg/L	<i>P</i>	<i>NO</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):

Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	± 0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	± 0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		$\mu\text{s}/\text{cm}$	$\pm 5\%$				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	<i>[Signature]</i>	Date:	<i>10/27/2023</i>
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B69

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Logan Ross			Location:	DUCK CREEK				
Weather:	36-69° CLOUDY/RAIN 8mths			Environment:	GRASSLAND, WOODLAND				
Multiparameter Water Meter	Make:	HORIBA	Model:	L-5000	Serial Number:	FW264JD3			
Water Level Meter	Make:	Herron	Model:	Dipper-T	Serial Number:	11FF2209305ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.10	s.u.	±0.1 s.u.	P	N	NA	MSI	023067-01	3/14/2025
pH 7.00a	6.98	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.07	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	.002	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000	µS/cm	±5%				Geotech	3GF1197	Jun-24
ORP	230	mV	±15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	0.04	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.9	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	N	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 0918			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.09	s.u.	±0.15 s.u.	P	NA	Geotech	3GB1049	Feb-25
pH 7.00b	7.00	s.u.	±0.15 s.u.			Geotech	2GF113	Jun-24
pH 10.00b	10.13	s.u.	±0.15 s.u.			Geotech	3GA1134	Jan-25
SC 1000	979	µS/cm	±5%	P	NA	Ricca	4209A12	Aug-24

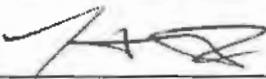
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1523				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	±0.1 s.u.	P	N	NA	MSI	023067-01	3/14/2025
pH 7.00a	7.02	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	9.98	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000	10.10	µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)	0.0	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	1.7	NTU	<2 NTU	P	N	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	10/27/23
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	Tom Reek			Location:	Duck Creek Power				
Weather:	Cloudy/rain			Environment:	wet grassy				
Multiparameter Water Meter	Make:	Hori ^b	Model:	V5000	Serial Number:	YL9 KJ9HA			
Water Level Meter	Make:	Heron	Model:	Series 1900	Serial Number:	19FF2111192#B			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.80	s.u.	± 0.1 s.u.	P	N		MSI	023067-01	3/14/2025
pH 7.00a	7.00	s.u.	± 0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.02	s.u.	± 0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	0.0	$\mu\text{s}/\text{cm}$	0<25 $\mu\text{s}/\text{cm}$				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000	$\mu\text{s}/\text{cm}$	$\pm 5\%$				Geotech	3GF1197	Jun-24
ORP	2613	mV	± 15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	0.01	mg/L	± 0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.8	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	1020			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	3.97	s.u.	± 0.15 s.u.	P	N	Geotech	3GB1049	Feb-25	
pH 7.00b	6.98	s.u.	± 0.15 s.u.	P	N	Geotech	2GF113	Jun-24	
pH 10.00b	10.00	s.u.	± 0.15 s.u.	P	N	Geotech	3GA1134	Jan-25	
SC 1000	1010	$\mu\text{s}/\text{cm}$	$\pm 5\%$	P	N	Ricca	4209A12	Aug-24	

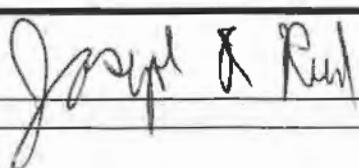
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1330			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	± 0.1 s.u.	P	N		MSI	023067-01	3/14/2025
pH 7.00a	7.00	s.u.	± 0.1 s.u.	P	N		MSI	023051-02	2/21/2025
pH 10.00a	10.00	s.u.	± 0.1 s.u.	P	N		MSI	022361-01	12/27/2024
SC 1000	1010	$\mu\text{s}/\text{cm}$	$\pm 5\%$	P	N		Ricca	4209A12	Aug-24
DO (Zero pt)	0.01	mg/L	± 0.1 mg/L	P	N		Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	± 0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	± 0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		$\mu\text{s}/\text{cm}$	$\pm 5\%$				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:				Date:	10/27/23
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton	Location:	Duck Creek
Weather:	35°-41° F wind SW 11mp2 sunny	Environment:	grass, mud, gravel

Multiparameter Water Meter	Make:	AT	Model:	600	Serial Number:	606127
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Water Level Meter	Make:	Heron	Model:	Dipper	Serial Number:	3117-T
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Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.11	s.u.	±0.1 s.u.	P	Yes	4.00	MSI	023067-01	3/14/2025
pH 7.00a	7.02	s.u.	±0.1 s.u.	P	Yes	7.02	MSI	023051-02	2/21/2025
pH 10.00a	10.04	s.u.	±0.1 s.u.	P	Yes	10.04	MSI	022361-01	12/27/2024
SC Zero (DI)	12.0	µS/cm	<25 µS/cm	P	No	-	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000	µS/cm	±5%	P	No	-	Geotech	3GF1197	Jun-24
ORP	235.7	mV	±15 mV	P	No	-	InSitu	3GD927	Jan-24
DO (Zero pt)	0.00	mg/L	±0.1	P	No	-	Macron	#000228049	8/26/2025
DO (Saturated)	98.45	%	97-100%	P	No	-	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU	P	No	-	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

235 @ 20 °C

ICV (Initial Calibration Verification)					Time:	1000			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.02	s.u.	±0.15 s.u.	P	NA	Geotech	3GB1049	Feb-25	
pH 7.00b	7.02	s.u.	±0.15 s.u.	P	NA	Geotech	2GF113	Jun-24	
pH 10.00b	10.03	s.u.	±0.15 s.u.	P	NA	Geotech	3GA1134	Jan-25	
SC 1000	1018	µS/cm	±5%	P	NA	Ricca	4209A12	Aug-24	

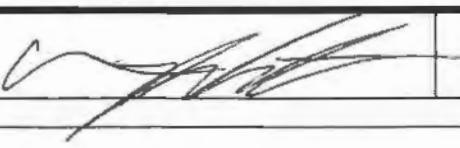
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1500			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.05	s.u.	±0.1 s.u.	P	NO	NA	MSI	023067-01	3/14/2025
pH 7.00a	7.02	s.u.	±0.1 s.u.	P	NO	NA	MSI	023051-02	2/21/2025
pH 10.00a	10.08	s.u.	±0.1 s.u.	P	NO	NA	MSI	022361-01	12/27/2024
SC 1000	1012	µS/cm	±5%	P	NO	NA	Ricca	4209A12	Aug-24
DO (Zero pt)	0.00	mg/L	±0.1 mg/L	P	NO	NA	Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	NTU	<2 NTU	P	NO	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	10/30/2023
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	Logan R			Location:	DUCK CREEK				
Weather:	Sunny 26°-41° 11 mph NW			Environment:	(GRASSLAND), WOODLAND				
Multiparameter Water Meter:	Make:	HORIBA	Model:	V-5000	Serial Number:	PW 264 JD3			
Water Level Meter:	Make:	HERRON	Model:	dipper-T	Serial Number:	11F1F2209305ML 19 FE 2111192HB			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.09	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	6.93	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023051-02	2/21/2025
pH 10.00a	9.99	s.u.	±0.1 s.u.	P	NO	N/A	MSI	022361-01	12/27/2024
SC Zero (DI)	0.000	µS/cm	0<25 µS/cm	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1970	µS/cm	±5%	P	NO	N/A	Geotech	3GF1197	Jun-24
ORP	739	mV	±15 mV	P	NO	N/A	InSitu	3GD927	Jan-24
DO (Zero pt)	0.00	mg/L	±0.1	P	NO	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	97.6	%	97-100%	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	0900			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	6.11	s.u.	±0.15 s.u.	P	N/A	Geotech	3GB1049	Feb-25	
pH 7.00b	7.02	s.u.	±0.15 s.u.	P	NO	Geotech	2GF113	Jun-24	
pH 10.00b	10.07	s.u.	±0.15 s.u.	P	NO	Geotech	3GA1134	Jan-25	
SC 1000	967	µS/cm	±5%	P	NO	Ricca	4209A12	Aug-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1516			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.99	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-D1	3/14/2025
pH 7.00a	7.01	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023051-02	2/21/2025
pH 10.00a	9.96	s.u.	±0.1 s.u.	P	NO	N/A	MSI	022361-01	12/27/2024
SC 1000	1020	µS/cm	±5%	P	NO	N/A	Ricca	4209A12	Aug-24
DO (Zero pt)	0.00	mg/L	±0.1 mg/L	P	NO	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	10/30/23
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BG

Multiparameter Meter Field Calibration Checklist

Field Personnel:	<i>Aaron Rumberton</i>			Location:	Duck Creek				
Weather:	<i>32°F, Wm, sunny NW, 15 mph</i>			Environment:	<i>grass, mud</i>				
Multiparameter Water Meter		Make:	<i>Holt</i>	Model:	<i>V5000</i>	Serial Number:	<i>GUS 83C85</i>		
Water Level Meter		Make:	<i>Herm</i>	Model:	<i>Dipper T</i>	Serial Number:	<i>3717-7</i>		
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.04</i>	s.u.	± 0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	023067-01	3/14/2025
pH 7.00a	<i>7.03</i>	s.u.	± 0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	<i>10.07</i>	s.u.	± 0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	<i>0.0</i>	$\mu\text{S}/\text{cm}$	$0 < 25 \mu\text{S}/\text{cm}$				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>20.20</i>	$\mu\text{S}/\text{cm}$	$\pm 5\%$				Geotech	3GF1197	Jun-24
ORP	<i>230</i>	mV	± 15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	<i>0.09</i>	mg/L	± 0.1				Macron	#000228049	8/26/2025
DO (Saturated)	<i>9.89</i>	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.89</i>	NTU	< 2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

237 @ 10910

ICV (Initial Calibration Verification)					Time:	<i>0910</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>4.00</i>	s.u.	± 0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	3GB1049	Feb-25	
pH 7.00b	<i>6.88</i>	s.u.	± 0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GF113	Jun-24	
pH 10.00b	<i>10.10</i>	s.u.	± 0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	3GA1134	Jan-25	
SC 1000	<i>10.30</i>	$\mu\text{S}/\text{cm}$	$\pm 5\%$	<i>P</i>	<i>N/A</i>	Ricca	4209A12	Aug-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	<i>1420</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.04</i>	s.u.	± 0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	023067-01	3/14/2025
pH 7.00a	<i>7.01</i>	s.u.	± 0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	023051-02	2/21/2025
pH 10.00a	<i>10.03</i>	s.u.	± 0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	022361-01	12/27/2024
SC 1000	<i>9.87</i>	$\mu\text{S}/\text{cm}$	$\pm 5\%$	<i>P</i>	<i>NO</i>	<i>N/A</i>	Ricca	4209A12	Aug-24
DO (Zero pt)	<i>0.09</i>	mg/L	± 0.1 mg/L	<i>P</i>	<i>NO</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	< 2 NTU	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	± 0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	± 0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	± 0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		$\mu\text{S}/\text{cm}$	$\pm 5\%$				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	± 0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	< 2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	<i>[Signature]</i>	Date:	<i>10/31/2023</i>
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QG

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed		Location:	Duck Creek					
Weather:	40°a 61°F Partly cloudy		Environment:	Grassy					
Multiparameter Water Meter	Make:	Horiba	Model:	U5000	Serial Number:	YL9KJ9HA			
Water Level Meter	Make:	Heron	Model:	Series 1900	Serial Number:	19FF211192HB			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	P	N		MSI	023067-01	3/14/2025
pH 7.00a	7.02	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.01	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	0.01	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2020	µS/cm	±5%				Geotech	3GF1197	Jun-24
ORP	241	mV	±15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	0.01	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.1	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.1	NTU	<2 NTU	+	—		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	945		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.00	s.u.	±0.15 s.u.	P	N	Geotech	3GB1049	Feb-25
pH 7.00b	6.99	s.u.	±0.15 s.u.		N	Geotech	2GF113	Jun-24
pH 10.00b	9.99	s.u.	±0.15 s.u.		N	Geotech	3GA1134	Jan-25
SC 1000	1010	µS/cm	±5%	—	N	Ricca	4209A12	Aug-24

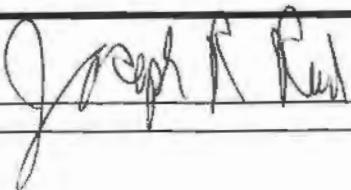
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1400			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	±0.1 s.u.	P	N		MSI	023067-01	3/14/2025
pH 7.00a	7.01	s.u.	±0.1 s.u.		N		MSI	023051-02	2/21/2025
pH 10.00a	10.01	s.u.	±0.1 s.u.		N		MSI	022361-01	12/27/2024
SC 1000	1020	µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)	0.02	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	—	—		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:			Date:	11/3/23



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

December 11, 2023

Daryl Johnson
Vistra - Duck Creek
17751 North Cilco Road
Canton, IL 61520-8761

Dear Daryl Johnson:

Please find enclosed the analytical results for the sample(s) the laboratory received. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise . We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Sincerely,

A handwritten signature in black ink that reads "Diane Billings".

Diane Billings
Project Manager



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order GJ03211

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GJ03501

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GJ03741

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
NO	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GJ04132

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GJ04134

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GJ04374

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GJ04588

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GJ04862

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GJ04998

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GJ05392

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

ANALYTICAL RESULTS

Sample: GJ03211-01

Name: OR13S

Matrix: Ground Water - Grab

Sampled: 10/17/23 11:14

Received: 10/17/23 16:51

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.55	pCi/L			1	1.16	11/08/23 19:09	PACE	904.0 903.0
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Sample: GJ03211-02

Name: EB-1

Matrix: Ground Water - Grab

Sampled: 10/17/23 16:45

Received: 10/17/23 16:51

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.510 J	pCi/L			1	0.55	11/08/23 19:09	PACE	904.0 903.0
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Sample: GJ03501-01

Name: BA01

Matrix: Ground Water - Grab

Sampled: 10/18/23 13:25

Received: 10/18/23 17:13

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.192 U	pCi/L			1	0.773	11/08/23 19:09	PACE	904.0 903.0
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Sample: GJ03501-02

Name: BA02

Matrix: Ground Water - Grab

Sampled: 10/18/23 14:34

Received: 10/18/23 17:13

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.246 U	pCi/L			1	0.504	11/08/23 19:09	PACE	904.0 903.0
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Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

ANALYTICAL RESULTS

Sample: GJ03501-03

Name: BA03

Matrix: Ground Water - Grab

Sampled: 10/18/23 09:45

Received: 10/18/23 17:13

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.697	pCi/L			1	0.511	11/07/23 13:38	PACE	904.0 903.0
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Sample: GJ03501-04

Name: BA03L

Matrix: Ground Water - Grab

Sampled: 10/18/23 09:50

Received: 10/18/23 17:13

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.102 U	pCi/L			1	0.542	11/07/23 13:38	PACE	904.0 903.0
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Sample: GJ03501-05

Name: BA04

Matrix: Ground Water - Grab

Sampled: 10/18/23 15:40

Received: 10/18/23 17:13

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1	pCi/L			1	0.564	11/07/23 13:38	PACE	904.0 903.0
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Sample: GJ03501-06

Name: BA01 DUP

Matrix: Ground Water - Grab

Sampled: 10/18/23 13:25

Received: 10/18/23 17:13

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.644	pCi/L			1	0.462	11/07/23 13:38	PACE	904.0 903.0
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ANALYTICAL RESULTS

Sample: GJ03741-01

Name: BA05

Matrix: Ground Water - Grab

Sampled: 10/19/23 11:40

Received: 10/19/23 16:42

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract 0.501 pCi/L 1 0.43 11/07/23 13:38 PACE 904.0 903.0

Sample: GJ03741-02

Name: BA06

Matrix: Ground Water - Grab

Sampled: 10/19/23 13:09

Received: 10/19/23 16:42

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract 0.409 J pCi/L 1 0.426 11/07/23 13:38 PACE 904.0 903.0

Sample: GJ03741-03

Name: G02S

Matrix: Ground Water - Grab

Sampled: 10/19/23 14:30

Received: 10/19/23 16:42

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract 0.753 pCi/L 1 0.402 11/07/23 13:38 PACE 904.0 903.0

Sample: GJ04132-01

Name: G50S

Matrix: Ground Water - Grab

Sampled: 10/23/23 16:09

Received: 10/23/23 17:34

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract 0.776 pCi/L 1 0.48 11/07/23 19:19 PACE 904.0 903.0



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ANALYTICAL RESULTS

Sample: GJ04132-02

Name: G60L

Matrix: Ground Water - Grab

Sampled: 10/23/23 11:48

Received: 10/23/23 17:34

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract 0.919 pCi/L 1 0.433 11/07/23 19:19 PACE 904.0 903.0

Sample: GJ04132-03

Name: G61S

Matrix: Ground Water - Grab

Sampled: 10/23/23 13:35

Received: 10/23/23 17:34

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract 1.04 pCi/L 1 0.517 11/07/23 19:19 PACE 904.0 903.0

Sample: GJ04132-04

Name: OM22D

Matrix: Ground Water - Grab

Sampled: 10/23/23 14:11

Received: 10/23/23 17:34

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract 2.45 pCi/L 1 0.707 11/07/23 19:19 PACE 904.0 903.0

Sample: GJ04132-05

Name: OM23D

Matrix: Ground Water - Grab

Sampled: 10/23/23 12:54

Received: 10/23/23 17:34

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract 1.26 pCi/L 1 0.447 11/08/23 22:56 PACE 904.0 903.0



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ANALYTICAL RESULTS

Sample: GJ04132-06 Sampled: 10/23/23 10:49
Name: OM24D Received: 10/23/23 17:34
Matrix: Ground Water - Grab PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Miscellaneous - Pace Analytical - Mt Juliet, Tn</u>									
Rad 226 and 228-Subcontract	1.74	pCi/L			1	0.439	11/08/23 22:53	PACE	904.0 903.0

Sample: GJ04132-07 Sampled: 10/23/23 11:30
Name: OM25S Received: 10/23/23 17:34
Matrix: Ground Water - Grab PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Miscellaneous - Pace Analytical - Mt Juliet, Tn</u>									
Rad 226 and 228-Subcontract	7.02	pCi/L			1	1.18	11/08/23 22:53	PACE	904.0 903.0

Sample: GJ04132-08 Sampled: 10/23/23 15:30
Name: OR03D Received: 10/23/23 17:34
Matrix: Ground Water - Grab PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Miscellaneous - Pace Analytical - Mt Juliet, Tn</u>									
Rad 226 and 228-Subcontract	6.16	pCi/L			1	1.03	11/08/23 22:53	PACE	904.0 903.0

Sample: GJ04132-09 Sampled: 10/23/23 15:45
Name: EB-3 Received: 10/23/23 17:34
Matrix: DI Water - Equipment Blank PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Miscellaneous - Pace Analytical - Mt Juliet, Tn</u>									
Rad 226 and 228-Subcontract	0.914	pCi/L			1	0.452	11/08/23 22:53	PACE	904.0 903.0



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ANALYTICAL RESULTS

Sample: GJ04134-01

Name: G57S

Matrix: Ground Water - Grab

Sampled: 10/20/23 12:47

Received: 10/20/23 16:14

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.88	pCi/L			1	0.584	11/07/23 19:19	PACE	904.0 903.0
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Sample: GJ04374-01

Name: OR20

Matrix: Ground Water - Grab

Sampled: 10/24/23 12:48

Received: 10/24/23 16:39

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.493 J	pCi/L			1	1.11	11/11/23 11:15	PACE	904.0 903.0
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Sample: GJ04374-02

Name: OR11

Matrix: Ground Water - Grab

Sampled: 10/24/23 11:29

Received: 10/24/23 16:39

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.1	pCi/L			1	0.717	11/11/23 11:15	PACE	904.0 903.0
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Sample: GJ04374-03

Name: OM16

Matrix: Ground Water - Grab

Sampled: 10/24/23 15:03

Received: 10/24/23 16:39

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.972 J	pCi/L			1	1.26	11/11/23 11:15	PACE	904.0 903.0
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ANALYTICAL RESULTS

Sample: GJ04374-04

Name: EB-4

Matrix: DI Water - Equipment Blank

Sampled: 10/24/23 15:30

Received: 10/24/23 16:39

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.878	pCi/L			1	0.523	11/11/23 11:15	PACE	904.0 903.0
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Sample: GJ04374-05

Name: OR-11 FD

Matrix: Ground Water - Grab

Sampled: 10/24/23 11:29

Received: 10/24/23 16:39

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.86	pCi/L			1	0.398	11/13/23 17:36	PACE	904.0 903.0
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Sample: GJ04588-01

Name: OM04S

Matrix: Ground Water - Grab

Sampled: 10/25/23 10:15

Received: 10/25/23 16:56

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.23	pCi/L			1	0.493	11/13/23 17:36	PACE	904.0 903.0
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Sample: GJ04588-02

Name: OM21

Matrix: Ground Water - Grab

Sampled: 10/25/23 15:38

Received: 10/25/23 16:56

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.39	pCi/L			1	0.702	11/13/23 17:36	PACE	904.0 903.0
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ANALYTICAL RESULTS

Sample: GJ04588-03 Sampled: 10/25/23 11:37
Name: OR04D Received: 10/25/23 16:56
Matrix: Ground Water - Grab PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Miscellaneous - Pace Analytical - Mt Juliet, Tn</u>									
Rad 226 and 228-Subcontract	0.500 J	pCi/L			1	0.752	11/13/23 17:36	PACE	904.0 903.0

Sample: GJ04588-04 Sampled: 10/25/23 14:20
Name: OR14D Received: 10/25/23 16:56
Matrix: Ground Water - Grab PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Miscellaneous - Pace Analytical - Mt Juliet, Tn</u>									
Rad 226 and 228-Subcontract	2.65	pCi/L			1	0.943	11/13/23 17:36	PACE	904.0 903.0

Sample: GJ04588-05 Sampled: 10/05/23 13:00
Name: OR19 Received: 10/25/23 16:56
Matrix: Ground Water - Grab PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Miscellaneous - Pace Analytical - Mt Juliet, Tn</u>									
Rad 226 and 228-Subcontract	2.15	pCi/L			1	0.906	11/13/23 17:36	PACE	904.0 903.0

Sample: GJ04588-06 Sampled: 10/25/23 15:53
Name: EB-5 Received: 10/25/23 16:56
Matrix: DI Water - Equipment Blank PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Miscellaneous - Pace Analytical - Mt Juliet, Tn</u>									
Rad 226 and 228-Subcontract	0.0747 U	pCi/L			1	0.485	11/13/23 17:36	PACE	904.0 903.0



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ANALYTICAL RESULTS

Sample: GJ04862-01

Name: G51S

Matrix: Ground Water - Grab

Sampled: 10/26/23 11:55

Received: 10/27/23 07:15

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.3	pCi/L			1	0.496	11/13/23 17:36	PACE	904.0 903.0
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Sample: GJ04862-02

Name: G62L

Matrix: Ground Water - Grab

Sampled: 10/26/23 15:31

Received: 10/27/23 07:15

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.0485 U	pCi/L			1	0.593	11/13/23 17:36	PACE	904.0 903.0
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Sample: GJ04862-03

Name: G64L

Matrix: Ground Water - Grab

Sampled: 10/26/23 13:53

Received: 10/27/23 07:15

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.812	pCi/L			1	0.597	11/13/23 17:36	PACE	904.0 903.0
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Sample: GJ04862-04

Name: G64S

Matrix: Ground Water - Grab

Sampled: 10/26/23 13:38

Received: 10/27/23 07:15

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.492 J	pCi/L			1	0.568	11/13/23 17:36	PACE	904.0 903.0
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ANALYTICAL RESULTS

Sample: GJ04862-05

Name: OM07

Matrix: Ground Water - Grab

Sampled: 10/26/23 12:04

Received: 10/27/23 07:15

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.681	pCi/L			1	0.68	11/13/23 17:36	PACE	904.0 903.0
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Sample: GJ04862-06

Name: OM12

Matrix: Ground Water - Grab

Sampled: 10/26/23 10:45

Received: 10/27/23 07:15

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.24	pCi/L			1	0.609	11/15/23 17:04	PACE	904.0 903.0
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Sample: GJ04862-07

Name: OR06A

Matrix: Ground Water - Grab

Sampled: 10/26/23 14:40

Received: 10/27/23 07:15

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.17	pCi/L			1	0.525	11/15/23 17:04	PACE	904.0 903.0
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Sample: GJ04862-08

Name: OR13D

Matrix: Ground Water - Grab

Sampled: 10/26/23 13:23

Received: 10/27/23 07:15

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.440 J	pCi/L			1	0.63	11/15/23 17:04	PACE	904.0 903.0
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ANALYTICAL RESULTS

Sample: GJ04862-09

Name: EB-6

Matrix: DI Water - Equipment Blank

Sampled: 10/26/23 14:58

Received: 10/27/23 07:15

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract 0.58 pCi/L 1 0.577 11/15/23 17:04 PACE 904.0 903.0

Sample: GJ04862-10

Name: EB-7

Matrix: DI Water - Equipment Blank

Sampled: 10/26/23 15:25

Received: 10/27/23 07:15

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract 0.179 U pCi/L 1 0.631 11/15/23 17:04 PACE 904.0 903.0

Sample: GJ04998-01

Name: G54L

Matrix: Ground Water - Grab

Sampled: 10/27/23 13:38

Received: 10/27/23 16:49

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract 0.178 J pCi/L 1 0.393 11/13/23 17:36 PACE 904.0 903.0

Sample: GJ04998-02

Name: G54S

Matrix: Ground Water - Grab

Sampled: 10/27/23 11:54

Received: 10/27/23 16:49

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract 2.14 pCi/L 1 0.383 11/13/23 17:36 PACE 904.0 903.0



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ANALYTICAL RESULTS

Sample: GJ04998-03 Sampled: 10/27/23 13:30
Name: OR02 Received: 10/27/23 16:49
Matrix: Ground Water - Grab PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Miscellaneous - Pace Analytical - Mt Juliet, Tn</u>									
Rad 226 and 228-Subcontract	4.54	pCi/L			1	0.882	11/13/23 17:36	PACE	904.0 903.0

Sample: GJ04998-04 Sampled: 10/27/23 13:40
Name: OMO1 Received: 10/27/23 16:49
Matrix: Ground Water - Grab PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Miscellaneous - Pace Analytical - Mt Juliet, Tn</u>									
Rad 226 and 228-Subcontract	2.13	pCi/L			1	1.04	11/13/23 17:36	PACE	904.0 903.0

Sample: GJ04998-05 Sampled: 10/27/23 13:40
Name: OM01 DUP Received: 10/27/23 16:49
Matrix: Ground Water - Grab PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Miscellaneous - Pace Analytical - Mt Juliet, Tn</u>									
Rad 226 and 228-Subcontract	1.19	pCi/L			1	0.549	11/13/23 17:36	PACE	904.0 903.0

Sample: GJ04998-06 Sampled: 10/27/23 15:43
Name: EB-8 Received: 10/27/23 16:49
Matrix: Ground Water - Grab PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Miscellaneous - Pace Analytical - Mt Juliet, Tn</u>									
Rad 226 and 228-Subcontract	0.212 J	pCi/L			1	0.448	11/13/23 17:36	PACE	904.0 903.0



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ANALYTICAL RESULTS

Sample: GJ04998-07

Name: EB-9

Matrix: DI Water - Equipment Blank

Sampled: 10/27/23 15:40

Received: 10/27/23 16:49

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.155 U	pCi/L			1	0.505	11/13/23 17:36	PACE	904.0 903.0
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Sample: GJ05392-01

Name: G60S

Matrix: Ground Water - Grab

Sampled: 10/31/23 10:27

Received: 10/31/23 15:25

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.55	pCi/L			1	1.15	11/21/23 14:19	PACE	904.0 903.0
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Sample: GJ05392-02

Name: R61L

Matrix: Ground Water - Grab

Sampled: 10/31/23 11:40

Received: 10/31/23 15:25

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.636	pCi/L			1	0.511	11/21/23 14:19	PACE	904.0 903.0
-----------------------------	-------	-------	--	--	---	-------	----------------	------	-------------

Sample: GJ05392-03

Name: EB-11

Matrix: DI Water - Equipment Blank

Sampled: 10/31/23 14:27

Received: 10/31/23 15:25

PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
-----------	--------	------	-----------	----------	----------	-----	----------	---------	--------

Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.739	pCi/L			1	0.61	11/21/23 14:19	PACE	904.0 903.0
-----------------------------	-------	-------	--	--	---	------	----------------	------	-------------



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

A handwritten signature in black ink that reads "Diane Billings". The signature is fluid and cursive, with "Diane" on top and "Billings" below it.

Certified by: Diane Billings, Project Manager





ANALYTICAL REPORT

December 11, 2023

Revised Report

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Pace IR - Peoria, IL

Sample Delivery Group: L1670204
Samples Received: 10/25/2023
Project Number: GJ03211
Description:
Site: 001
Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
[Preliminary Report]

Haley Torrence
Project Manager

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

Pace Analytical National

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

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SAMPLE SUMMARY

			Collected by	Collected date/time	Received date/time	
				10/17/23 11:14	10/25/23 09:00	
GJ03211-01 L1670204-01 Non-Potable Water						
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2161389	1	10/31/23 15:17	11/08/23 19:09	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2161518	1	10/31/23 17:41	11/08/23 19:09	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2161518	1	10/31/23 17:41	11/03/23 17:30	RGT	Mt. Juliet, TN
GJ03211-02 L1670204-02 Non-Potable Water			Collected by	Collected date/time	Received date/time	
				10/17/23 16:45	10/25/23 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2161389	1	10/31/23 15:17	11/08/23 19:09	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2161518	1	10/31/23 17:41	11/08/23 19:09	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2161518	1	10/31/23 17:41	11/03/23 17:30	RGT	Mt. Juliet, TN

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

[Preliminary Report]


Haley Torrence
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC

Report Revision History

Level II Report - Version 1: 11/21/23 09:25

Project Narrative

GJ03211-01

Collected date/time: 10/17/23 11:14

SAMPLE RESULTS - 01

L1670204

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.992	J	0.625		1.11		11/08/2023 19:09	WG2161389
(T) Barium	115				30.0-143		11/08/2023 19:09	WG2161389
(T) Yttrium	118				30.0-136		11/08/2023 19:09	WG2161389

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.55		0.711	1.16	11/08/2023 19:09	WG2161518

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.559		0.338		0.338		11/03/2023 17:30	WG2161518
(T) Barium-133	95.8				30.0-143		11/03/2023 17:30	WG2161518

GJ03211-02

Collected date/time: 10/17/23 16:45

SAMPLE RESULTS - 02

L1670204

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.434		0.212		0.376		11/08/2023 19:09	WG2161389
(T) Barium	138				30.0-143		11/08/2023 19:09	WG2161389
(T) Yttrium	121				30.0-136		11/08/2023 19:09	WG2161389

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.510	J	0.319	0.550	11/08/2023 19:09	WG2161518

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.0766	U	0.239		0.402		11/03/2023 17:30	WG2161518
(T) Barium-133	90.8				30.0-143		11/03/2023 17:30	WG2161518

QUALITY CONTROL SUMMARY

[L1670204-01,02](#)

Method Blank (MB)

(MB) R3997990-1 11/08/23 13:58

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	-0.0155	U	0.169	0.316	
(T) Barium	99.1		99.1		
(T) Yttrium	111		111		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1665082-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1665082-05 11/08/23 13:58 • (DUP) R3997990-5 11/08/23 13:58

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-228	1.21	0.341	0.600		0.340	0.327	0.601		112	1.83	J	20	3
(T) Barium	105				101	101							
(T) Yttrium	118				121	121							

Laboratory Control Sample (LCS)

(LCS) R3997990-2 11/08/23 13:58

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	5.56	111	80.0-120	
(T) Barium			101		
(T) Yttrium			109		

L1670206-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1670206-01 11/08/23 19:09 • (MS) R3997990-3 11/08/23 13:58 • (MSD) R3997990-4 11/08/23 13:58

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	MS RER	RPD Limits %
Radium-228	16.7	-0.120	16.1	16.9	96.6	101	1	70.0-130		4.30		20
(T) Barium		86.2			99.6	105						
(T) Yttrium		123			126	121						

QUALITY CONTROL SUMMARY

[L1670204-01,02](#)

Method Blank (MB)

(MB) R4002321-5 11/03/23 17:34

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0128	U	0.0187	0.0299	
(T) Barium-133	66.9		66.9		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1670206-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1670206-02 11/03/23 17:30 • (DUP) R4002321-4 11/03/23 17:23

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER U	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.159	0.204	0.291		0.0183	0.113	0.264		159	0.604		20	3
(T) Barium-133	92.4				81.5	81.5							

⁷Gl

Laboratory Control Sample (LCS)

(LCS) R4002321-1 11/03/23 17:23

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.00	5.89	118	80.0-120	
(T) Barium-133			73.0		

⁸Al

L1665584-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1665584-01 11/03/23 17:23 • (MS) R4002321-2 11/03/23 17:23 • (MSD) R4002321-3 11/03/23 17:23

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.0717	22.0	23.2	110	116	1	75.0-125			5.26		20
(T) Barium-133		72.7			69.8	67.7							

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

MDA	Minimum Detectable Activity.	¹ Cp
Rec.	Recovery.	² Tc
RER	Replicate Error Ratio.	³ Ss
RPD	Relative Percent Difference.	⁴ Cn
SDG	Sample Delivery Group.	⁵ Sr
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.	⁶ Qc
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	⁷ GI
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.	⁸ Al
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.	⁹ Sc
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.
U	Below Detectable Limits: Indicates that the analyte was not detected.

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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ Al

⁹ Sc

SUBCONTRACT ORDER
Transfer Chain of Custody

F033

Pace Analytical Services, LLC

GJ03211

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

UL070204

Sample: GJ03211-01
Name: OR13S

Sampled: 10/17/23 11:14
Matrix: Ground Water
Preservative: HNO3, pH <2

-01

Analysis	Due	Expires	Comments
----------	-----	---------	----------

01-Radium 226/228 combined	10/30/23 16:00	04/14/24 11:14	
----------------------------	----------------	----------------	--

Sample: GJ03211-02
Name: EB-1

Sampled: 10/17/23 11:14
Matrix: Ground Water
Preservative: HNO3, pH <2

10/11/23
1643
-02 10/17/23
d68

Analysis	Due	Expires	Comments
----------	-----	---------	----------

01-Radium 226/228 combined	10/30/23 16:00	04/14/24 11:14	
----------------------------	----------------	----------------	--

CCAB 4631D

COC Seal Present/Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Applicable
COC Signed/Accurate:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VQA Zero Headspace
Is active intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Area. Correct/Check
Correct Bottles used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sufficient volume sent:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
RA Screen <0.5 mR/hr:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

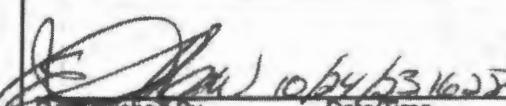
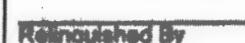
2 RECEIVED

Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 10/14/23 Total # of Containers: 2 Sample Origin (State): NC PO #: _____

Turn-Around Time Requested NORMAL RUSH

Date Results Needed: _____

 Relinquished By	Date/Time	Received By	Date/Time	Sample Temperature Upon Receipt _____ °C
 Christopher Hallinan	10/14/23 16:23			Sample(s) Received on Ice Y or N
 Relinquished By	Date/Time	Received By	Date/Time	Proper Bottles Received In Good Condition Y or N
				Bottles Filled with Adequate Volume Y or N
				Samples Received Within Hold Time Y or N
				Date/Time Taken From Sample Bottle Y or N



ANALYTICAL REPORT

November 20, 2023

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Pace IR - Peoria, IL

Sample Delivery Group: L1670206
Samples Received: 10/25/2023
Project Number: GJ03501
Description:
Site: 001
Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
[Preliminary Report]

Haley Torrence
Project Manager

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

Pace Analytical National

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

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GJ03501-02 L1670206-02	6	7 GI
GJ03501-03 L1670206-03	7	8 Al
GJ03501-04 L1670206-04	8	9 Sc
GJ03501-05 L1670206-05	9	
GJ03501-06 L1670206-06	10	
Qc: Quality Control Summary	11	
Radiochemistry by Method 904/9320	11	
Radiochemistry by Method SM7500Ra B M	13	
Gl: Glossary of Terms	14	
Al: Accreditations & Locations	15	
Sc: Sample Chain of Custody	16	

SAMPLE SUMMARY

		Collected by		Collected date/time	Received date/time	
				10/18/23 13:25	10/25/23 09:00	
GJ03501-01	L1670206-01	Non-Potable Water				
Method		Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Radiochemistry by Method 904/9320		WG2161389	1	10/31/23 15:17	11/08/23 19:09	DDD
Radiochemistry by Method Calculation		WG2161518	1	10/31/23 17:41	11/08/23 19:09	RGT
Radiochemistry by Method SM7500Ra B M		WG2161518	1	10/31/23 17:41	11/03/23 17:30	RGT
		Collected by		Collected date/time	Received date/time	
				10/18/23 14:34	10/25/23 09:00	
GJ03501-02	L1670206-02	Non-Potable Water				
Method		Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Radiochemistry by Method 904/9320		WG2161389	1	10/31/23 15:17	11/08/23 19:09	DDD
Radiochemistry by Method Calculation		WG2161518	1	10/31/23 17:41	11/08/23 19:09	RGT
Radiochemistry by Method SM7500Ra B M		WG2161518	1	10/31/23 17:41	11/03/23 17:30	RGT
		Collected by		Collected date/time	Received date/time	
				10/18/23 09:45	10/25/23 09:00	
GJ03501-03	L1670206-03	Non-Potable Water				
Method		Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Radiochemistry by Method 904/9320		WG2162456	1	11/01/23 17:33	11/07/23 13:38	DDD
Radiochemistry by Method Calculation		WG2161518	1	10/31/23 17:41	11/07/23 13:38	RGT
Radiochemistry by Method SM7500Ra B M		WG2161518	1	10/31/23 17:41	11/03/23 17:30	RGT
		Collected by		Collected date/time	Received date/time	
				10/18/23 09:50	10/25/23 09:00	
GJ03501-04	L1670206-04	Non-Potable Water				
Method		Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Radiochemistry by Method 904/9320		WG2162456	1	11/01/23 17:33	11/07/23 13:38	DDD
Radiochemistry by Method Calculation		WG2161518	1	10/31/23 17:41	11/07/23 13:38	RGT
Radiochemistry by Method SM7500Ra B M		WG2161518	1	10/31/23 17:41	11/03/23 17:30	RGT
		Collected by		Collected date/time	Received date/time	
				10/18/23 15:40	10/25/23 09:00	
GJ03501-05	L1670206-05	Non-Potable Water				
Method		Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Radiochemistry by Method 904/9320		WG2162456	1	11/01/23 17:33	11/07/23 13:38	DDD
Radiochemistry by Method Calculation		WG2161518	1	10/31/23 17:41	11/07/23 13:38	RGT
Radiochemistry by Method SM7500Ra B M		WG2161518	1	10/31/23 17:41	11/03/23 17:30	RGT
		Collected by		Collected date/time	Received date/time	
				10/18/23 13:25	10/25/23 09:00	
GJ03501-06	L1670206-06	Non-Potable Water				
Method		Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Radiochemistry by Method 904/9320		WG2162456	1	11/01/23 17:33	11/07/23 13:38	DDD
Radiochemistry by Method Calculation		WG2161518	1	10/31/23 17:41	11/07/23 13:38	RGT
Radiochemistry by Method SM7500Ra B M		WG2161518	1	10/31/23 17:41	11/03/23 17:30	RGT
		Collected by		Collected date/time	Received date/time	
				10/18/23 09:50	10/25/23 09:00	

1 Cp
 2 Tc
 3 Ss
 4 Cn
 5 Sr
 6 Qc
 7 Gi
 8 Al
 9 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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

[Preliminary Report]


Haley Torrence
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC

GJ03501-01

Collected date/time: 10/18/23 13:25

SAMPLE RESULTS - 01

L1670206

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	-0.120	<u>U</u>	0.185		0.634		11/08/2023 19:09	<u>WG2161389</u>
(T) Barium	86.2				30.0-143		11/08/2023 19:09	<u>WG2161389</u>
(T) Yttrium	123				30.0-136		11/08/2023 19:09	<u>WG2161389</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.192	<u>U</u>	0.350	0.773	11/08/2023 19:09	<u>WG2161518</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.192	<u>J</u>	0.297		0.443		11/03/2023 17:30	<u>WG2161518</u>
(T) Barium-133	79.6				30.0-143		11/03/2023 17:30	<u>WG2161518</u>

GJ03501-02

Collected date/time: 10/18/23 14:34

SAMPLE RESULTS - 02

L1670206

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.0866	<u>U</u>	0.123		0.411		11/08/2023 19:09	<u>WG2161389</u>
(T) Barium	92.1				30.0-143		11/08/2023 19:09	<u>WG2161389</u>
(T) Yttrium	114				30.0-136		11/08/2023 19:09	<u>WG2161389</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.246	<u>U</u>	0.238	0.504	11/08/2023 19:09	<u>WG2161518</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.159	<u>J</u>	0.204		0.291		11/03/2023 17:30	<u>WG2161518</u>
(T) Barium-133	92.4				30.0-143		11/03/2023 17:30	<u>WG2161518</u>

GJ03501-03

Collected date/time: 10/18/23 09:45

SAMPLE RESULTS - 03

L1670206

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.506		0.199		0.365		11/07/2023 13:38	WG2162456
(T) Barium	105				30.0-143		11/07/2023 13:38	WG2162456
(T) Yttrium	108				30.0-136		11/07/2023 13:38	WG2162456

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.697		0.320	0.511	11/07/2023 13:38	WG2161518

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.192	J	0.250		0.357		11/03/2023 17:30	WG2161518
(T) Barium-133	85.2				30.0-143		11/03/2023 17:30	WG2161518

GJ03501-04

Collected date/time: 10/18/23 09:50

SAMPLE RESULTS - 04

L1670206

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	-0.298	<u>U</u>	0.215		0.424		11/07/2023 13:38	<u>WG2162456</u>
(T) Barium	108				30.0-143		11/07/2023 13:38	<u>WG2162456</u>
(T) Yttrium	107				30.0-136		11/07/2023 13:38	<u>WG2162456</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.102	<u>U</u>	0.300	0.542	11/07/2023 13:38	<u>WG2161518</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.102	<u>U</u>	0.209		0.337		11/03/2023 17:30	<u>WG2161518</u>
(T) Barium-133	97.2				30.0-143		11/03/2023 17:30	<u>WG2161518</u>

GJ03501-05

Collected date/time: 10/18/23 15:40

SAMPLE RESULTS - 05

L1670206

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.615		0.218		0.397		11/07/2023 13:38	WG2162456
(T) Barium	111				30.0-143		11/07/2023 13:38	WG2162456
(T) Yttrium	121				30.0-136		11/07/2023 13:38	WG2162456

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.00		0.394	0.564	11/07/2023 13:38	WG2161518

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.389	J	0.328		0.400		11/03/2023 17:30	WG2161518
(T) Barium-133	87.4				30.0-143		11/03/2023 17:30	WG2161518

GJ03501-06

Collected date/time: 10/18/23 13:25

SAMPLE RESULTS - 06

L1670206

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.307	J	0.205		0.384		11/07/2023 13:38	WG2162456
(T) Barium	119				30.0-143		11/07/2023 13:38	WG2162456
(T) Yttrium	92.6				30.0-136		11/07/2023 13:38	WG2162456

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.644		0.326	0.462	11/07/2023 13:38	WG2161518

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.338		0.253		0.256		11/03/2023 17:30	WG2161518
(T) Barium-133	94.2				30.0-143		11/03/2023 17:30	WG2161518

QUALITY CONTROL SUMMARY

L1670206-01.02

Method Blank (MB)

(MB) R3997990-1 11/08/23 13:58

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	-0.0155	U	0.169	0.316	
(T) Barium	99.1		99.1		
(T) Yttrium	111		111		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1665082-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1665082-05 11/08/23 13:58 • (DUP) R3997990-5 11/08/23 13:58

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-228	1.21	0.341	0.600		0.340	0.327	0.601		112	1.83	J	20	3
(T) Barium	105				101	101							
(T) Yttrium	118				121	121							

Laboratory Control Sample (LCS)

(LCS) R3997990-2 11/08/23 13:58

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	5.56	111	80.0-120	
(T) Barium			101		
(T) Yttrium			109		

L1670206-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1670206-01 11/08/23 19:09 • (MS) R3997990-3 11/08/23 13:58 • (MSD) R3997990-4 11/08/23 13:58

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	MS RER	RPD Limits %
Radium-228	16.7	-0.120	16.1	16.9	96.6	101	1	70.0-130		4.30		20
(T) Barium		86.2			99.6	105						
(T) Yttrium		123			126	121						

QUALITY CONTROL SUMMARY

L1670206-03,04,05,06

Method Blank (MB)

(MB) R3997981-1 11/07/23 13:38

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.382		0.158	0.290	
(T) Barium	105		105		
(T) Yttrium	108		108		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1665889-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1665889-08 11/07/23 13:38 • (DUP) R3997981-5 11/07/23 13:38

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-228	3.18	0.306	0.454		3.82	0.366	0.575		18.2	1.34		20	3
(T) Barium	114				115	115							
(T) Yttrium	98.3				129	129							

Laboratory Control Sample (LCS)

(LCS) R3997981-2 11/07/23 13:38

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	4.22	84.3	80.0-120	
(T) Barium			121		
(T) Yttrium			101		

L1665584-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1665584-01 11/07/23 13:38 • (MS) R3997981-3 11/07/23 13:38 • (MSD) R3997981-4 11/07/23 13:38

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.203	8.85	8.31	86.5	81.1	1	70.0-130			6.30		20
(T) Barium		103			125	124							
(T) Yttrium		104			105	117							

QUALITY CONTROL SUMMARY

[L1670206-01,02,03,04,05,06](#)

Method Blank (MB)

(MB) R4002321-5 11/03/23 17:34

¹Cp

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0128	J	0.0187	0.0299	
(T) Barium-133	66.9		66.9		

²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1670206-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1670206-02 11/03/23 17:30 • (DUP) R4002321-4 11/03/23 17:23

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER U	DUP RPD Limits %	DUP RER Limit
Radium-226	0.159	0.204	0.291		0.0183	0.113	0.264		159	0.604	20	3
(T) Barium-133	92.4				81.5	81.5						

Laboratory Control Sample (LCS)

(LCS) R4002321-1 11/03/23 17:23

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.00	5.89	118	80.0-120	
(T) Barium-133			73.0		

L1665584-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1665584-01 11/03/23 17:23 • (MS) R4002321-2 11/03/23 17:23 • (MSD) R4002321-3 11/03/23 17:23

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER %	RPD Limits %
Radium-226	20.0	0.0717	22.0	23.2	110	116	1	75.0-125			5.26		20
(T) Barium-133		72.7			69.8	67.7							

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

MDA	Minimum Detectable Activity.	1 Cp
Rec.	Recovery.	2 Tc
RER	Replicate Error Ratio.	3 Ss
RPD	Relative Percent Difference.	4 Cn
SDG	Sample Delivery Group.	5 Sr
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.	6 Qc
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	7 GI
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.	8 Al
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.	9 Sc
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.
U	Below Detectable Limits: Indicates that the analyte was not detected.

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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ Al

⁹ Sc

SUBCONTRACT ORDER
Transfer Chain of Custody

F034

Pace Analytical Services, LLC

GJ03501

53

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

UW70204

Sample: GJ03501-01 .
Name: BA01

Sampled: 10/18/23 13:25
Matrix: Ground Water
Preservative: HNO3, pH <2 *-01*

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

10/31/23 16:00

04/15/24 13:25

Sample: GJ03501-02 .
Name: BA02

Sampled: 10/18/23 14:34
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

10/31/23 16:00

04/15/24 14:34

Sample: GJ03501-03 .
Name: BA03

Sampled: 10/18/23 09:45
Matrix: Ground Water
Preservative: HNO3, pH <2 *-03*

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

10/31/23 16:00

04/15/24 09:45

Sample: GJ03501-04 .
Name: BA03L

Sampled: 10/18/23 09:50
Matrix: Ground Water
Preservative: HNO3, pH <2 *-04*

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

10/31/23 16:00

04/15/24 09:50

Sample: GJ03501-05 .
Name: BA04

Sampled: 10/18/23 15:40
Matrix: Ground Water
Preservative: HNO3, pH <2 *-05*

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

10/31/23 16:00

04/15/24 15:40

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

GJ03501

54

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

U167020b

Sample: GJ03501-06
Name: BA01 DUP

Sampled: 10/18/23 13:25
Matrix: Ground Water
Preservative: HNO3, pH <2

-06

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

10/31/23 16:00

04/15/24 13:25

LCAS 14.310

Sample Receipt Checklist	
1. Is Present, Involved:	Y N
2. Sampled Accurately:	Y N
3. Bottles Are In Intact:	Y N
4. Correct Bottles Used:	Y N
5. Correct Volume Sent:	Y N
6. RA Screen <0.5 mR/hr:	Y N

10/24/23 Total # of Containers: 12 Sample Origin (State): 1C PO #: _____

10/24/23 10/24/23 10/24/23 10/24/23

Received

Please email results to Diane Billings at diane.bilings@pacelabs.com

Date Shipped: 10/24/23 Total # of Containers: 12 Sample Origin (State): 1C PO #:

Turn-Around Time Requested NORMAL RUSH

Date Results Needed: _____

Released By	Date/Time	Received By	Date/Time
<u>John D. Miller</u>	<u>10/24/23 10:28</u>	<u>Christopher Miller</u>	<u>10/24/23 10:30</u>



ANALYTICAL REPORT

November 20, 2023

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Pace IR - Peoria, IL

Sample Delivery Group: L1670207
Samples Received: 10/25/2023
Project Number: GJ03741
Description:
Site: 001
Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
[Preliminary Report]

Haley Torrence
Project Manager

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

Pace Analytical National

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

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SAMPLE SUMMARY

		Collected by	Collected date/time	Received date/time		
			10/19/23 11:40	10/25/23 09:00		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2162456	1	11/01/23 17:33	11/07/23 13:38	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2161518	1	10/31/23 17:41	11/07/23 13:38	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2161518	1	10/31/23 17:41	11/03/23 17:34	RGT	Mt. Juliet, TN
GJ03741-02 L1670207-02 Non-Potable Water		Collected by	Collected date/time	Received date/time		
			10/19/23 13:09	10/25/23 09:00		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2162456	1	11/01/23 17:33	11/07/23 13:38	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2161518	1	10/31/23 17:41	11/07/23 13:38	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2161518	1	10/31/23 17:41	11/03/23 17:34	RGT	Mt. Juliet, TN
GJ03741-03 L1670207-03 Non-Potable Water		Collected by	Collected date/time	Received date/time		
			10/19/23 14:30	10/25/23 09:00		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2162456	1	11/01/23 17:33	11/07/23 13:38	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2161518	1	10/31/23 17:41	11/07/23 13:38	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2161518	1	10/31/23 17:41	11/03/23 17:34	RGT	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gi

8 Al

9 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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

[Preliminary Report]


Haley Torrence
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC

GJ03741-01

Collected date/time: 10/19/23 11:40

SAMPLE RESULTS - 01

L1670207

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.443		0.195		0.359		11/07/2023 13:38	WG2162456
(T) Barium	113				30.0-143		11/07/2023 13:38	WG2162456
(T) Yttrium	110				30.0-136		11/07/2023 13:38	WG2162456

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.501		0.234	0.430	11/07/2023 13:38	WG2161518

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.0573	U	0.129		0.237		11/03/2023 17:34	WG2161518
(T) Barium-133	82.6				30.0-143		11/03/2023 17:34	WG2161518

GJ03741-02

Collected date/time: 10/19/23 13:09

SAMPLE RESULTS - 02

L1670207

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.0758	<u>U</u>	0.207		0.396		11/07/2023 13:38	<u>WG2162456</u>
(T) Barium	106				30.0-143		11/07/2023 13:38	<u>WG2162456</u>
(T) Yttrium	120				30.0-136		11/07/2023 13:38	<u>WG2162456</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.409	<u>J</u>	0.297	0.426	11/07/2023 13:38	<u>WG2161518</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.333		0.213		0.157		11/03/2023 17:34	<u>WG2161518</u>
(T) Barium-133	91.9				30.0-143		11/03/2023 17:34	<u>WG2161518</u>

GJ03741-03

Collected date/time: 10/19/23 14:30

SAMPLE RESULTS - 03

L1670207

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.598		0.196		0.356		11/07/2023 13:38	WG2162456
(T) Barium	106				30.0-143		11/07/2023 13:38	WG2162456
(T) Yttrium	102				30.0-136		11/07/2023 13:38	WG2162456

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.753		0.255	0.402	11/07/2023 13:38	WG2161518

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.154	J	0.163		0.187		11/03/2023 17:34	WG2161518
(T) Barium-133	85.1				30.0-143		11/03/2023 17:34	WG2161518

QUALITY CONTROL SUMMARY

L1670207-01,02,03

Method Blank (MB)

(MB) R3997981-1 11/07/23 13:38

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.382		0.158	0.290	
(T) Barium	105		105		
(T) Yttrium	108		108		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al

L1665889-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1665889-08 11/07/23 13:38 • (DUP) R3997981-5 11/07/23 13:38

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-228	3.18	0.306	0.454		3.82	0.366	0.575		18.2	1.34		20	3
(T) Barium	114				115	115							
(T) Yttrium	98.3				129	129							

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3997981-2 11/07/23 13:38

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	4.22	84.3	80.0-120	
(T) Barium			121		
(T) Yttrium			101		

⁸Al

L1665584-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1665584-01 11/07/23 13:38 • (MS) R3997981-3 11/07/23 13:38 • (MSD) R3997981-4 11/07/23 13:38

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.203	8.85	8.31	86.5	81.1	1	70.0-130			6.30		20
(T) Barium		103			125	124							
(T) Yttrium		104			105	117							

QUALITY CONTROL SUMMARY

L1670207-01,02,03

Method Blank (MB)

(MB) R4002321-5 11/03/23 17:34

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0128	J	0.0187	0.0299	
(T) Barium-133	66.9		66.9		

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1670206-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1670206-02 11/03/23 17:30 • (DUP) R4002321-4 11/03/23 17:23

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.159	0.204	0.291		0.0183	0.113	0.264		159	U	20	3
(T) Barium-133	92.4				81.5	81.5						

7 Gl

8 Al

Laboratory Control Sample (LCS)

(LCS) R4002321-1 11/03/23 17:23

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.00	5.89	118	80.0-120	
(T) Barium-133			73.0		

9 Sc

L1665584-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1665584-01 11/03/23 17:23 • (MS) R4002321-2 11/03/23 17:23 • (MSD) R4002321-3 11/03/23 17:23

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.0717	22.0	23.2	110	116	1	75.0-125			5.26		20
(T) Barium-133		72.7			69.8	67.7							

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

MDA	Minimum Detectable Activity.	1 Cp
Rec.	Recovery.	2 Tc
RER	Replicate Error Ratio.	3 Ss
RPD	Relative Percent Difference.	4 Cn
SDG	Sample Delivery Group.	5 Sr
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.	6 Qc
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	7 GI
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.	8 Al
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.	9 Sc
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.
U	Below Detectable Limits: Indicates that the analyte was not detected.

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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ Al

⁹ Sc

CAB 16-340

Sample Receipt Checklist
 ✓ Seal Present/Intact
 ✓ Proper Accuracy
 ✓ Glass Sterile intact
 ✓ Correct bottles used
 ✓ Sufficient volume sent
 ✓ RA screen <0.5 mR/hr

3 DATED

Pace Analytical Services, LLC

66

GJ03741**SENDING LABORATORY**

PDC Laboratories, Inc.
 2231 W Altorfer Dr
 Peoria, IL 61615
 (800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
 12065 Lebanon Rd
 Mt Juliet, TN 37122
 (615) 758-5858

LUV70207**F035****CONTRACT ORDER**

Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 10/14/22 Total # of Containers: 3 Sample Origin (State): IL PO #: —

Turn-Around Time Requested NORMAL RUSH

Date Results Needed: _____

Reinquished By John P. Schaefer Date/Time 10/24/23 16:28

Received By John P. Schaefer Date/Time 10/24/23 16:28

Reinquished By _____ Date/Time _____

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/01/23 16:00	04/16/24 11:49	
Sample: GJ03741-02 Name: BA06			Sampled: 10/19/23 13:09 Matrix: Ground Water Preservative: HNO3, pH <2 -02
Analysis	Due	Expires	Comments

01-Radium 226/228 combined

11/01/23 16:00

04/16/24 13:09

Sample: GJ03741-03
Name: G02S

Sampled: 10/19/23 14:30
Matrix: Ground Water
Preservative: HNO3, pH <2

-03

Analysis

Due

Expires

Comments

Sample Temperature Upon Receipt	°C
Sample(s) Received on Ice	Y or N
Proper Bottles Received in Good Condition	Y or N
Bottles Filled with Adequate Volume	Y or N
Samples Received Within Hold Time	Y or N
Date/Time Taken From Sample Bottle	Y or N



ANALYTICAL REPORT

November 20, 2023

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Pace IR - Peoria, IL

Sample Delivery Group: L1670210
Samples Received: 10/25/2023
Project Number: GJ04132
Description:
Site: 001
Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
[Preliminary Report]

Haley Torrence
Project Manager

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

Pace Analytical National

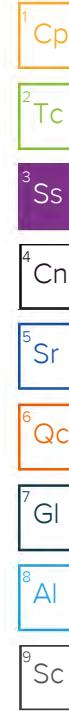
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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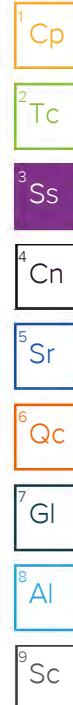
SAMPLE SUMMARY

		Collected by	Collected date/time	Received date/time		
			10/23/23 16:09	10/25/23 09:00		
GJ04132-01 L1670210-01 Non-Potable Water		Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Method						Location
Radiochemistry by Method 904/9320		WG2162456	1	11/01/23 17:33	11/07/23 19:19	DDD
Radiochemistry by Method Calculation		WG2162602	1	11/02/23 10:28	11/07/23 19:19	DDD
Radiochemistry by Method SM7500Ra B M		WG2162602	1	11/02/23 10:28	11/04/23 14:43	RGT
GJ04132-02 L1670210-02 Non-Potable Water		Collected by	Collected date/time	Received date/time		
Method						
Radiochemistry by Method 904/9320		WG2162456	1	11/01/23 17:33	11/07/23 19:19	DDD
Radiochemistry by Method Calculation		WG2162602	1	11/02/23 10:28	11/07/23 19:19	DDD
Radiochemistry by Method SM7500Ra B M		WG2162602	1	11/02/23 10:28	11/04/23 14:43	RGT
GJ04132-03 L1670210-03 Non-Potable Water		Collected by	Collected date/time	Received date/time		
Method						
Radiochemistry by Method 904/9320		WG2162456	1	11/01/23 17:33	11/07/23 19:19	DDD
Radiochemistry by Method Calculation		WG2162604	1	11/02/23 16:28	11/07/23 19:19	RGT
Radiochemistry by Method SM7500Ra B M		WG2162604	1	11/02/23 16:28	11/06/23 16:56	RGT
GJ04132-04 L1670210-04 Non-Potable Water		Collected by	Collected date/time	Received date/time		
Method						
Radiochemistry by Method 904/9320		WG2162456	1	11/01/23 17:33	11/07/23 19:19	DDD
Radiochemistry by Method Calculation		WG2162604	1	11/02/23 16:28	11/07/23 19:19	RGT
Radiochemistry by Method SM7500Ra B M		WG2162604	1	11/02/23 16:28	11/06/23 16:56	RGT
GJ04132-05 L1670210-05 Non-Potable Water		Collected by	Collected date/time	Received date/time		
Method						
Radiochemistry by Method 904/9320		WG2162456	1	11/01/23 17:33	11/07/23 19:19	DDD
Radiochemistry by Method Calculation		WG2164135	1	11/04/23 10:16	11/08/23 22:56	RGT
Radiochemistry by Method SM7500Ra B M		WG2164135	1	11/04/23 10:16	11/08/23 22:56	RGT
GJ04132-06 L1670210-06 Non-Potable Water		Collected by	Collected date/time	Received date/time		
Method						
Radiochemistry by Method 904/9320		WG2162456	1	11/01/23 17:33	11/07/23 19:19	DDD
Radiochemistry by Method Calculation		WG2164135	1	11/04/23 10:16	11/08/23 22:53	RGT
Radiochemistry by Method SM7500Ra B M		WG2164135	1	11/04/23 10:16	11/08/23 22:53	RGT



SAMPLE SUMMARY

		Collected by		Collected date/time	Received date/time	
				10/23/23 11:30	10/25/23 09:00	
GJ04132-07 L1670210-07 Non-Potable Water		Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Method						Location
Radiochemistry by Method 904/9320		WG2162456	1	11/01/23 17:33	11/07/23 19:19	DDD
Radiochemistry by Method Calculation		WG2164135	1	11/04/23 10:16	11/08/23 22:53	RGT
Radiochemistry by Method SM7500Ra B M		WG2164135	1	11/04/23 10:16	11/08/23 22:53	RGT
GJ04132-08 L1670210-08 Non-Potable Water		Collected by		Collected date/time	Received date/time	
Method				10/23/23 15:30	10/25/23 09:00	
Radiochemistry by Method 904/9320		WG2162456	1	11/01/23 17:33	11/07/23 19:19	DDD
Radiochemistry by Method Calculation		WG2164135	1	11/04/23 10:16	11/08/23 22:53	RGT
Radiochemistry by Method SM7500Ra B M		WG2164135	1	11/04/23 10:16	11/08/23 22:53	RGT
GJ04132-09 L1670210-09 Non-Potable Water		Collected by		Collected date/time	Received date/time	
Method				10/23/23 15:45	10/25/23 09:00	
Radiochemistry by Method 904/9320		WG2162456	1	11/01/23 17:33	11/07/23 19:19	DDD
Radiochemistry by Method Calculation		WG2164135	1	11/04/23 10:16	11/08/23 22:53	RGT
Radiochemistry by Method SM7500Ra B M		WG2164135	1	11/04/23 10:16	11/08/23 22:53	RGT



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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

[Preliminary Report]


Haley Torrence
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC

GJ04132-01

Collected date/time: 10/23/23 16:09

SAMPLE RESULTS - 01

L1670210

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.579		0.264		0.459		11/07/2023 19:19	WG2162456
(T) Barium	102				30.0-143		11/07/2023 19:19	WG2162456
(T) Yttrium	104				30.0-136		11/07/2023 19:19	WG2162456

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.776		0.306	0.480	11/07/2023 19:19	WG2162602

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
(T) Barium-133	0.198		0.154		0.142		11/04/2023 14:43	WG2162602

GJ04132-02

Collected date/time: 10/23/23 11:48

SAMPLE RESULTS - 02

L1670210

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.835		0.240		0.407		11/07/2023 19:19	WG2162456
(T) Barium	101				30.0-143		11/07/2023 19:19	WG2162456
(T) Yttrium	129				30.0-136		11/07/2023 19:19	WG2162456

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.919		0.264	0.433	11/07/2023 19:19	WG2162602

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.0846	J	0.109		0.149		11/04/2023 14:43	WG2162602
(T) Barium-133	90.3				30.0-143		11/04/2023 14:43	WG2162602

GJ04132-03

Collected date/time: 10/23/23 13:35

SAMPLE RESULTS - 03

L1670210

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.819		0.250		0.427		11/07/2023 19:19	WG2162456
(T) Barium	126				30.0-143		11/07/2023 19:19	WG2162456
(T) Yttrium	125				30.0-136		11/07/2023 19:19	WG2162456

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.04		0.338	0.517	11/07/2023 19:19	WG2162604

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.224	J	0.228		0.291		11/06/2023 16:56	WG2162604
(T) Barium-133	81.2				30.0-143		11/06/2023 16:56	WG2162604

GJ04132-04

Collected date/time: 10/23/23 14:11

SAMPLE RESULTS - 04

L1670210

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	1.99		0.371		0.607		11/07/2023 19:19	WG2162456
(T) Barium	82.0				30.0-143		11/07/2023 19:19	WG2162456
(T) Yttrium	78.2				30.0-136		11/07/2023 19:19	WG2162456

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.45		0.516	0.707	11/07/2023 19:19	WG2162604

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.463		0.359		0.362		11/06/2023 16:56	WG2162604
(T) Barium-133	51.5				30.0-143		11/06/2023 16:56	WG2162604

GJ04132-05

Collected date/time: 10/23/23 12:54

SAMPLE RESULTS - 05

L1670210

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	1.13		0.227		0.372		11/07/2023 19:19	WG2162456
(T) Barium	98.9				30.0-143		11/07/2023 19:19	WG2162456
(T) Yttrium	131				30.0-136		11/07/2023 19:19	WG2162456

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.26		0.284	0.447	11/08/2023 22:56	WG2164135

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.130	J	0.171		0.248		11/08/2023 22:56	WG2164135
(T) Barium-133	75.1				30.0-143		11/08/2023 22:56	WG2164135

GJ04132-06

Collected date/time: 10/23/23 10:49

SAMPLE RESULTS - 06

L1670210

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	1.44		0.235		0.376		11/07/2023 19:19	WG2162456
(<i>T</i>) Barium	95.9				30.0-143		11/07/2023 19:19	WG2162456
(<i>T</i>) Yttrium	107				30.0-136		11/07/2023 19:19	WG2162456

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.74		0.330	0.439	11/08/2023 22:53	WG2164135

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.303		0.231		0.227		11/08/2023 22:53	WG2164135
(<i>T</i>) Barium-133	67.3				30.0-143		11/08/2023 22:53	WG2164135

GJ04132-07

Collected date/time: 10/23/23 11:30

SAMPLE RESULTS - 07

L1670210

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	4.52		0.719		1.17		11/07/2023 19:19	WG2162456
(T) Barium	95.1				30.0-143		11/07/2023 19:19	WG2162456
(T) Yttrium	116				30.0-136		11/07/2023 19:19	WG2162456

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	7.02		0.936	1.18	11/08/2023 22:53	WG2164135

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	2.49		0.600		0.181		11/08/2023 22:53	WG2164135
(T) Barium-133	66.7				30.0-143		11/08/2023 22:53	WG2164135

GJ04132-08

Collected date/time: 10/23/23 15:30

SAMPLE RESULTS - 08

L1670210

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	4.49		0.650		1.02		11/07/2023 19:19	WG2162456
(<i>T</i>) Barium	95.6				30.0-143		11/07/2023 19:19	WG2162456
(<i>T</i>) Yttrium	85.5				30.0-136		11/07/2023 19:19	WG2162456

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	6.16		0.807	1.03	11/08/2023 22:53	WG2164135

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
(<i>T</i>) Barium-133	1.68		0.478		0.170		11/08/2023 22:53	WG2164135
(<i>T</i>) Barium-133	77.9				30.0-143		11/08/2023 22:53	WG2164135

GJ04132-09

Collected date/time: 10/23/23 15:45

SAMPLE RESULTS - 09

L1670210

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.914		0.249		0.423		11/07/2023 19:19	WG2162456
(T) Barium	109				30.0-143		11/07/2023 19:19	WG2162456
(T) Yttrium	102				30.0-136		11/07/2023 19:19	WG2162456

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.914		0.251	0.452	11/08/2023 22:53	WG2164135

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	-0.00828	U	0.0325		0.160		11/08/2023 22:53	WG2164135
(T) Barium-133	81.8				30.0-143		11/08/2023 22:53	WG2164135

QUALITY CONTROL SUMMARY

L1670210-01,02,03,04,05,06,07,08,09

Method Blank (MB)

(MB) R3997981-1 11/07/23 13:38

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.382		0.158	0.290	
(T) Barium	105		105		
(T) Yttrium	108		108		

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1665889-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1665889-08 11/07/23 13:38 • (DUP) R3997981-5 11/07/23 13:38

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-228	3.18	0.306	0.454		3.82	0.366	0.575		18.2	1.34		20	3
(T) Barium	114				115	115							
(T) Yttrium	98.3				129	129							

Laboratory Control Sample (LCS)

(LCS) R3997981-2 11/07/23 13:38

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	4.22	84.3	80.0-120	
(T) Barium			121		
(T) Yttrium			101		

L1665584-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1665584-01 11/07/23 13:38 • (MS) R3997981-3 11/07/23 13:38 • (MSD) R3997981-4 11/07/23 13:38

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.203	8.85	8.31	86.5	81.1	1	70.0-130			6.30		20
(T) Barium		103		125	124								
(T) Yttrium		104		105	117								

QUALITY CONTROL SUMMARY

L1670210-01,02

Method Blank (MB)

(MB) R3997977-1 11/04/23 14:43

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.00492	<u>U</u>	0.0167	0.0346	
(T) Barium-133	76.0		76.0		

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1670210-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1670210-02 11/04/23 14:43 • (DUP) R3997977-5 11/04/23 14:43

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER 84.1	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit 3
Radium-226	0.0846	0.109	0.149		0.207	0.131	0.115			0.720		20	
(T) Barium-133	90.3				79.8	79.8							

10

Laboratory Control Sample (LCS)

(LCS) R3997977-2 11/04/23 14:43

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.00	5.53	111	80.0-120	
(T) Barium-133			76.2		

11

L1664280-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1664280-03 11/04/23 14:43 • (MS) R3997977-6 11/09/23 17:07 • (MSD) R3997977-4 11/04/23 14:43

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER %	RPD Limits %
Radium-226	20.0	-0.00810	22.4	23.7	112	119	1	75.0-125			5.72		20
(T) Barium-133		82.3			71.2	71.8							

12

QUALITY CONTROL SUMMARY

L1670210-03,04

Method Blank (MB)

(MB) R3999285-1 11/06/23 16:56

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	-0.0179	<u>U</u>	0.0277	0.0846	
(T) Barium-133	77.2		77.2		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1671796-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1671796-01 11/06/23 16:56 • (DUP) R3999285-5 11/06/23 16:56

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER 0.0625	<u>DUP Qualifier</u> <u>U</u>	DUP RPD Limits % 20	DUP RER Limit 3
Radium-226	-0.0628	0.162	0.385		-0.0512	0.0915	0.296		0.000				
(T) Barium-133	84.5				85.6	85.6							

Laboratory Control Sample (LCS)

(LCS) R3999285-2 11/06/23 16:56

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.00	5.51	110	80.0-120	
(T) Barium-133			79.2		

L1664280-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1664280-06 11/06/23 16:56 • (MS) R3999285-3 11/06/23 16:56 • (MSD) R3999285-4 11/06/23 16:56

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER 16.8	RPD Limits 20
Radium-226	20.0	0.235	21.2	25.1	105	124	1	75.0-125					
(T) Barium-133		72.7		82.2	62.4								

QUALITY CONTROL SUMMARY

[L1670210-05,06,07,08,09](#)

Method Blank (MB)

(MB) R4002379-1 11/08/23 22:53

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0217	U	0.0449	0.0811	
(T) Barium-133	51.7		51.7		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1672545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1672545-01 11/08/23 22:53 • (DUP) R4002379-5 11/08/23 22:53

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER %	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.0851	0.109	0.150		0.167	0.180	0.215		64.9	0.388	J	20	3
(T) Barium-133	85.8				70.8	70.8							

Laboratory Control Sample (LCS)

(LCS) R4002379-2 11/08/23 22:53

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.00	5.50	110	80.0-120	
(T) Barium-133			67.9		

L1670210-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1670210-09 11/08/23 22:53 • (MS) R4002379-3 11/08/23 22:53 • (MSD) R4002379-4 11/08/23 22:53

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	-0.00828	21.9	22.8	109	114	1	75.0-125			4.12		20
(T) Barium-133		81.8		82.8	76.6								

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

MDA	Minimum Detectable Activity.	1 Cp
Rec.	Recovery.	2 Tc
RER	Replicate Error Ratio.	3 Ss
RPD	Relative Percent Difference.	4 Cn
SDG	Sample Delivery Group.	5 Sr
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.	6 Qc
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	7 GI
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.	8 Al
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.	9 Sc
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.
U	Below Detectable Limits: Indicates that the analyte was not detected.

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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ Al

⁹ Sc

SUBCONTRACT ORDER
Transfer Chain of Custody

F032

Pace Analytical Services, LLC
GJ04132

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

LILe70210

Sample: GJ04132-01
Name: G50S

Sampled: 10/23/23 16:09
Matrix: Ground Water
Preservative: HNO3, pH <2

-01

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/03/23 16:00	04/20/24 16:09	
01-Radium 226/228 combined	11/03/23 16:00	04/20/24 16:09	

Sample: GJ04132-02
Name: G60L

Sampled: 10/23/23 11:48
Matrix: Ground Water
Preservative: HNO3, pH <2

-02

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/03/23 16:00	04/20/24 11:48	
01-Radium 226/228 combined	11/03/23 16:00	04/20/24 11:48	

Sample: GJ04132-03
Name: G61S

Sampled: 10/23/23 13:35
Matrix: Ground Water
Preservative: HNO3, pH <2

-03

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/03/23 16:00	04/20/24 13:35	
01-Radium 226/228 combined	11/03/23 16:00	04/20/24 13:35	

Sample: GJ04132-04
Name: OM22D

Sampled: 10/23/23 14:11
Matrix: Ground Water
Preservative: HNO3, pH <2

-04

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/03/23 16:00	04/20/24 14:11	
01-Radium 226/228 combined	11/03/23 16:00	04/20/24 14:11	

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

GJ04132

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

L1670210

Sample: GJ04132-05 ~
Name: OM23D

Sampled: 10/23/23 12:54
Matrix: Ground Water
Preservative: HNO3, pH <2

-05

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/03/23 16:00	04/20/24 12:54	
01-Radium 226/228 combined	11/03/23 16:00	04/20/24 12:54	

Sample: GJ04132-06 ~
Name: OM24D

Sampled: 10/23/23 10:49
Matrix: Ground Water
Preservative: HNO3, pH <2

-06

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/03/23 16:00	04/20/24 10:49	
01-Radium 226/228 combined	11/03/23 16:00	04/20/24 10:49	

Sample: GJ04132-07 ~
Name: OM25S

Sampled: 10/23/23 11:30
Matrix: Ground Water
Preservative: HNO3, pH <2

-07

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/03/23 16:00	04/20/24 11:30	
01-Radium 226/228 combined	11/03/23 16:00	04/20/24 11:30	

Sample: GJ04132-08 ~
Name: OR03D

Sampled: 10/23/23 15:30
Matrix: Ground Water
Preservative: HNO3, pH <2

-08

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/03/23 16:00	04/20/24 15:30	
01-Radium 226/228 combined	11/03/23 16:00	04/20/24 15:30	

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

GJ04132

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, TN
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

U670210

Sample: GJ04132-09

Name: Equipment Blank

EB-3 10/23/23 lab

Sampled: 10/23/23 15:45

Matrix: DI Water

Preservative: HNO3, pH <2

-09

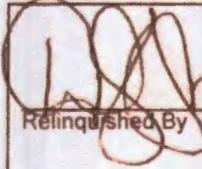
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/03/23 16:00	04/20/24 15:45	
01-Radium 226/228 combined	11/03/23 16:00	04/20/24 15:45	



Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 10/24/23 Total # of Containers: 8 Sample Origin (State): IL PO #: _____

Turn-Around Time Requested NORMAL RUSH Date Results Needed: _____

 Relinquished By	Date/Time 10/24/23 16:20	Received By	Date/Time	Sample Temperature Upon Receipt _____ °C
				Sample(s) Received on Ice Y or N
				Proper Bottles Received in Good Condition Y or N
				Bottles Filled with Adequate Volume Y or N
				Samples Received Within Hold Time Y or N
				Date/Time Taken From Sample Bottle Y or N
Relinquished By	Date/Time	Received By Christopher Bellin	Date/Time 10/25/23	



ANALYTICAL REPORT

November 14, 2023

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Pace IR - Peoria, IL

Sample Delivery Group: L1670209
Samples Received: 10/25/2023
Project Number: GJ04134
Description:
Site: 001
Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
[Preliminary Report]

Haley Torrence
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

90

ACCOUNT:
Pace IR - Peoria, IL

PROJECT:
GJ04134

SDG:
L1670209

DATE/TIME:
11/14/23 12:58

PAGE:
1 of 10

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Ss: Sample Summary	3	3 Ss
Cn: Case Narrative	4	4 Cn
Sr: Sample Results	5	5 Sr
GJ04134-01 L1670209-01	5	6 Qc
Qc: Quality Control Summary	6	7 GI
Radiochemistry by Method 904/9320	6	8 Al
Radiochemistry by Method SM7500Ra B M	7	9 Sc
Gl: Glossary of Terms	8	
Al: Accreditations & Locations	9	
Sc: Sample Chain of Custody	10	

SAMPLE SUMMARY

GJ04134-01 L1670209-01 Non-Potable Water

		Collected by	Collected date/time	Received date/time		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2162456	1	11/01/23 17:33	11/07/23 19:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2162604	1	11/02/23 16:28	11/07/23 19:19	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2162604	1	11/02/23 16:28	11/06/23 16:57	RGT	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

[Preliminary Report]


Haley Torrence
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC

GJ04134-01

Collected date/time: 10/20/23 12:47

SAMPLE RESULTS - 01

L1670209

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	1.60		0.287		0.469		11/07/2023 19:19	WG2162456
(T) Barium	92.8				30.0-143		11/07/2023 19:19	WG2162456
(T) Yttrium	95.1				30.0-136		11/07/2023 19:19	WG2162456

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.88		0.395	0.584	11/07/2023 19:19	WG2162604

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.275	J	0.272		0.348		11/06/2023 16:57	WG2162604
(T) Barium-133	85.8				30.0-143		11/06/2023 16:57	WG2162604

QUALITY CONTROL SUMMARY

L1670209-01

Method Blank (MB)

(MB) R3997981-1 11/07/23 13:38

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.382		0.158	0.290	
(T) Barium	105		105		
(T) Yttrium	108		108		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1665889-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1665889-08 11/07/23 13:38 • (DUP) R3997981-5 11/07/23 13:38

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER 1.34	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit 3
Radium-228	3.18	0.306	0.454		3.82	0.366	0.575		18.2			20	
(T) Barium	114				115	115							
(T) Yttrium	98.3				129	129							

Laboratory Control Sample (LCS)

(LCS) R3997981-2 11/07/23 13:38

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	4.22	84.3	80.0-120	
(T) Barium			121		
(T) Yttrium			101		

L1665584-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1665584-01 11/07/23 13:38 • (MS) R3997981-3 11/07/23 13:38 • (MSD) R3997981-4 11/07/23 13:38

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution 1	Rec. Limits 70.0-130	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD 6.30	MS RER 20	RPD Limits %
Radium-228	10.0	0.203	8.85	8.31	86.5	81.1							
(T) Barium		103			125	124							
(T) Yttrium		104			105	117							

QUALITY CONTROL SUMMARY

L1670209-01

Method Blank (MB)

(MB) R3999285-1 11/06/23 16:56

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	-0.0179	<u>U</u>	0.0277	0.0846	
(T) Barium-133	77.2		77.2		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1671796-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1671796-01 11/06/23 16:56 • (DUP) R3999285-5 11/06/23 16:56

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER 0.0625	<u>DUP Qualifier</u> <u>U</u>	DUP RPD Limits % 20	DUP RER Limit 3
Radium-226	-0.0628	0.162	0.385		-0.0512	0.0915	0.296		0.000				
(T) Barium-133	84.5				85.6	85.6							

Laboratory Control Sample (LCS)

(LCS) R3999285-2 11/06/23 16:56

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.00	5.51	110	80.0-120	
(T) Barium-133			79.2		

L1664280-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1664280-06 11/06/23 16:56 • (MS) R3999285-3 11/06/23 16:56 • (MSD) R3999285-4 11/06/23 16:56

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER 16.8	RPD Limits 20
Radium-226	20.0	0.235	21.2	25.1	105	124	1	75.0-125					
(T) Barium-133		72.7		82.2	62.4								

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

MDA	Minimum Detectable Activity.	1 Cp
Rec.	Recovery.	2 Tc
RER	Replicate Error Ratio.	3 Ss
RPD	Relative Percent Difference.	4 Cn
SDG	Sample Delivery Group.	5 Sr
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.	6 Qc
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	7 GI
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.	8 Al
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.	9 Sc
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.
U	Below Detectable Limits: Indicates that the analyte was not detected.

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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ Al

⁹ Sc

SUBCONTRACT ORDER
Transfer Chain of Custody

F036

Pace Analytical Services, LLC

GJ04134

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

U1670209

Sample: GJ04134-01

Name: G57S

Sampled: 10/20/23 12:47

Matrix: Ground Water

-01

Preservative: HNO3, pH <2

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

11/02/23 16:00

04/17/24 12:47

Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 10/24/23 Total # of Containers: 1 Sample Origin (State): IL PO #: —

Turn-Around Time Requested NORMAL RUSH

Date Results Needed: _____

CLASS 18.0+D Sample Receipt Checklist
 Seal Present/Intact If Applicable
 Correct Accurate Y or N
 Bottles arrive intact Y or N
 Correct bottles used Y or N
 Sufficient volume sent Y or N
 RA Sheet <0.5 mR/h Y or N
RECEIVED

Reinquished By	Date/Time	Received By	Date/Time
<i>Diane</i> 10/24/23 12:22			
Reinquished By	Date/Time	Received By	Date/Time
		<i>Christopher J. Yellow</i> 10/25/23 08:00	
Reinquished By	Date/Time	Received By	Date/Time



ANALYTICAL REPORT

November 20, 2023

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Pace IR - Peoria, IL

Sample Delivery Group: L1672534

Samples Received: 10/31/2023

Project Number: GH04374

Description:

Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
[Preliminary Report]

Haley Torrence
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

100

ACCOUNT:
Pace IR - Peoria, IL

PROJECT:
GH04374

SDG:
L1672534

DATE/TIME:
11/20/23 09:35

PAGE:
1 of 17

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Cn: Case Narrative	4	 4 Cn
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GJ04374-02 L1672534-02	6	 7 GI
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SAMPLE SUMMARY

		Collected by	Collected date/time	Received date/time		
			10/24/23 12:48	10/31/23 00:00		
GJ04374-01 L1672534-01 Non-Potable Water		Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Method						Location
Radiochemistry by Method 904/9320	WG2165571	1	11/06/23 18:28	11/11/23 11:15	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2164135	1	11/04/23 10:16	11/11/23 11:15	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2164135	1	11/04/23 10:16	11/08/23 22:53	RGT	Mt. Juliet, TN
GJ04374-02 L1672534-02 Non-Potable Water		Collected by	Collected date/time	Received date/time		
Method			10/24/23 11:29	10/31/23 00:00		
Radiochemistry by Method 904/9320	WG2165571	1	11/06/23 18:28	11/11/23 11:15	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2164135	1	11/04/23 10:16	11/11/23 11:15	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2164135	1	11/04/23 10:16	11/08/23 22:53	RGT	Mt. Juliet, TN
GJ04374-03 L1672534-03 Non-Potable Water		Collected by	Collected date/time	Received date/time		
Method			10/24/23 15:03	10/31/23 00:00		
Radiochemistry by Method 904/9320	WG2165571	1	11/06/23 18:28	11/11/23 11:15	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2164135	1	11/04/23 10:16	11/11/23 11:15	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2164135	1	11/04/23 10:16	11/08/23 22:53	RGT	Mt. Juliet, TN
GJ04374-04 L1672534-04 Non-Potable Water		Collected by	Collected date/time	Received date/time		
Method			10/24/23 15:30	10/31/23 00:00		
Radiochemistry by Method 904/9320	WG2165571	1	11/06/23 18:28	11/11/23 11:15	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2164135	1	11/04/23 10:16	11/11/23 11:15	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2164135	1	11/04/23 10:16	11/08/23 22:53	RGT	Mt. Juliet, TN
GJ04374-05 L1672534-05 Non-Potable Water		Collected by	Collected date/time	Received date/time		
Method			10/24/23 11:29	10/31/23 00:00		
Radiochemistry by Method 904/9320	WG2166563	1	11/08/23 17:03	11/13/23 17:36	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2164135	1	11/04/23 10:16	11/13/23 17:36	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2164135	1	11/04/23 10:16	11/08/23 22:53	RGT	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gi

8 Al

9 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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

[Preliminary Report]


Haley Torrence
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC

GJ04374-01

Collected date/time: 10/24/23 12:48

SAMPLE RESULTS - 01

L1672534

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	-0.280	<u>U</u>	0.607		1.10		11/11/2023 11:15	<u>WG2165571</u>
(<i>T</i>) Barium	108				30.0-143		11/11/2023 11:15	<u>WG2165571</u>
(<i>T</i>) Yttrium	109				30.0-136		11/11/2023 11:15	<u>WG2165571</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.493	<u>J</u>	0.659	1.11	11/11/2023 11:15	<u>WG2164135</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.493		0.256		0.162		11/08/2023 22:53	<u>WG2164135</u>
(<i>T</i>) Barium-133	81.5				30.0-143		11/08/2023 22:53	<u>WG2164135</u>

GJ04374-02

Collected date/time: 10/24/23 11:29

SAMPLE RESULTS - 02

L1672534

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.913		0.404		0.699		11/11/2023 11:15	WG2165571
(T) Barium	124				30.0-143		11/11/2023 11:15	WG2165571
(T) Yttrium	106				30.0-136		11/11/2023 11:15	WG2165571

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.10		0.436	0.717	11/11/2023 11:15	WG2164135

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.191		0.163		0.161		11/08/2023 22:53	WG2164135
(T) Barium-133	81.9				30.0-143		11/08/2023 22:53	WG2164135

GJ04374-03

Collected date/time: 10/24/23 15:03

SAMPLE RESULTS - 03

L1672534

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.721	J	0.707		1.25		11/11/2023 11:15	WG2165571
(T) Barium	128				30.0-143		11/11/2023 11:15	WG2165571
(T) Yttrium	95.9				30.0-136		11/11/2023 11:15	WG2165571

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.972	J	0.729	1.26	11/11/2023 11:15	WG2164135

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.251		0.178		0.165		11/08/2023 22:53	WG2164135
(T) Barium-133	89.9				30.0-143		11/08/2023 22:53	WG2164135

GJ04374-04

Collected date/time: 10/24/23 15:30

SAMPLE RESULTS - 04

L1672534

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.744		0.288		0.496		11/11/2023 11:15	WG2165571
(T) Barium	118				30.0-143		11/11/2023 11:15	WG2165571
(T) Yttrium	114				30.0-136		11/11/2023 11:15	WG2165571

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.878		0.319	0.523	11/11/2023 11:15	WG2164135

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.134	J	0.137		0.166		11/08/2023 22:53	WG2164135
(T) Barium-133	88.9				30.0-143		11/08/2023 22:53	WG2164135

GJ04374-05

Collected date/time: 10/24/23 11:29

SAMPLE RESULTS - 05

L1672534

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.782		0.215		0.357		11/13/2023 17:36	WG2166563
(T) Barium	112				30.0-143		11/13/2023 17:36	WG2166563
(T) Yttrium	106				30.0-136		11/13/2023 17:36	WG2166563

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.860		0.244	0.398	11/13/2023 17:36	WG2164135

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.0782	J	0.115		0.175		11/08/2023 22:53	WG2164135
(T) Barium-133	85.0				30.0-143		11/08/2023 22:53	WG2164135

QUALITY CONTROL SUMMARY

[L1672534-01,02,03,04](#)

Method Blank (MB)

(MB) R3999853-1 11/11/23 11:15

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.392		0.180	0.312	
(T) Barium	125		125		
(T) Yttrium	117		117		

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1667014-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1667014-01 11/11/23 11:15 • (DUP) R3999853-5 11/11/23 11:15

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-228	-0.0114	0.271	0.487		0.783	0.335	0.580		200	1.84		20	3
(T) Barium	122				105	105							
(T) Yttrium	107				115	115							

Laboratory Control Sample (LCS)

(LCS) R3999853-2 11/11/23 11:15

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	5.69	114	80.0-120	
(T) Barium			107		
(T) Yttrium			110		

L1666683-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1666683-09 11/11/23 11:15 • (MS) R3999853-3 11/11/23 11:15 • (MSD) R3999853-4 11/11/23 11:15

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.175	9.64	10.1	94.7	98.9	1	70.0-130			4.32		20
(T) Barium		116		119	121								
(T) Yttrium		98.7		98.7	98.5								

QUALITY CONTROL SUMMARY

L1672534-05

Method Blank (MB)

(MB) R3999867-1 11/13/23 17:36

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.110	<u>U</u>	0.183	0.323	
(T) Barium	114		114		
(T) Yttrium	94.9		94.9		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1672545-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1672545-07 11/13/23 17:36 • (DUP) R3999867-5 11/13/23 17:36

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER 1.88	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit 3
Radium-228	-0.273	0.267	0.480		0.546	0.345	0.598		200		<u>J</u>	20	
(T) Barium	118				111	111							
(T) Yttrium	103				109	109							

Laboratory Control Sample (LCS)

(LCS) R3999867-2 11/13/23 17:36

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	4.96	99.1	80.0-120	
(T) Barium			114		
(T) Yttrium			98.7		

L1666683-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1666683-01 11/13/23 17:36 • (MS) R3999867-3 11/13/23 17:36 • (MSD) R3999867-4 11/13/23 17:36

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-228	10.0	1.63	8.90	10.1	72.6	84.4	1	70.0-130			12.4		20
(T) Barium		125		122	122								
(T) Yttrium		110		113	106								

WG2164135

Radiochemistry by Method SM7500Ra B M

QUALITY CONTROL SUMMARY

[L1672534-01,02,03,04,05](#)

Method Blank (MB)

(MB) R4002379-1 11/08/23 22:53

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0217	U	0.0449	0.0811	
(T) Barium-133	51.7		51.7		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1672545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1672545-01 11/08/23 22:53 • (DUP) R4002379-5 11/08/23 22:53

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.0851	0.109	0.150		0.167	0.180	0.215		64.9	J	20	3
(T) Barium-133	85.8				70.8	70.8						

Laboratory Control Sample (LCS)

(LCS) R4002379-2 11/08/23 22:53

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.00	5.50	110	80.0-120	
(T) Barium-133			67.9		

L1670210-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1670210-09 11/08/23 22:53 • (MS) R4002379-3 11/08/23 22:53 • (MSD) R4002379-4 11/08/23 22:53

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	-0.00828	21.9	22.8	109	114	1	75.0-125			4.12		20
(T) Barium-133		81.8		82.8	76.6								

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

MDA	Minimum Detectable Activity.	1 Cp
Rec.	Recovery.	2 Tc
RER	Replicate Error Ratio.	3 Ss
RPD	Relative Percent Difference.	4 Cn
SDG	Sample Delivery Group.	5 Sr
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.	6 Qc
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	7 GI
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.	8 Al
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.	9 Sc
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.
U	Below Detectable Limits: Indicates that the analyte was not detected.

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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ Al

⁹ Sc

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

A221

GJ04374

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

U1672534

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/06/23 16:00	04/21/24 12:48	
Sample: GJ04374-02 Name: OR11			Sampled: 10/24/23 11:29 Matrix: Ground Water Preservative: HNO3, pH <2
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/06/23 16:00	04/21/24 11:29	
Sample: GJ04374-03 Name: OM16			Sampled: 10/24/23 15:03 Matrix: Ground Water Preservative: HNO3, pH <2
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/06/23 16:00	04/21/24 15:03	
Sample: GJ04374-04 Name: EB-4			Sampled: 10/24/23 15:30 Matrix: DI Water Preservative: HNO3, pH <2
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/06/23 16:00	04/21/24 15:30	
Sample: GJ04374-05 Name: OR-11 FD			Sampled: 10/24/23 11:29 Matrix: Ground Water Preservative: HNO3, pH <2
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/06/23 16:00	04/21/24 11:29	

SUBCONTRACT ORDER
Transfer Chain of Custody
Pace Analytical Services, LLC

GJ04374

UL072534

115

Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 10/27/23

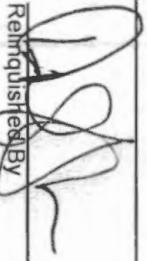
Total # of Containers: 5

Sample Origin (State): IL PO #: _____

Turn-Around Time Requested NORMAL RUSH

Date Results Needed: _____

Sample Receipt Checklist If Applicable	
COC Seal present/ intact:	<input checked="" type="checkbox"/>
COC signed/accurate:	<input checked="" type="checkbox"/>
VOA Zero Headspace:	<input checked="" type="checkbox"/>
Bottles arrive intact:	<input checked="" type="checkbox"/>
Correct bottles used:	<input checked="" type="checkbox"/>
Sufficient volume sent:	<input checked="" type="checkbox"/>
RA Screen <0.5 mR/hr:	<input checked="" type="checkbox"/>

Requisitioned By	Date/Time	Received By	Date/Time	Sample Temperature Upon Receipt ____ °C	Sample(s) Received on Ice Y or N
	<u>10/27/23 1830</u>		<u>10/31/23 0800</u>	Proper Bottles Received in Good Condition <u>Y or N</u>	<input checked="" type="checkbox"/>
				Bottles Filled with Adequate Volume <u>Y or N</u>	<input checked="" type="checkbox"/>
				Samples Received Within Hold Time <u>Y or N</u>	<input checked="" type="checkbox"/>
				Date/Time Taken From Sample Bottle <u>Y or N</u>	<input checked="" type="checkbox"/>



ANALYTICAL REPORT

November 20, 2023

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Pace IR - Peoria, IL

Sample Delivery Group: L1672539

Samples Received: 10/31/2023

Project Number: GH04588

Description:

Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
[Preliminary Report]

Haley Torrence
Project Manager

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

Pace Analytical National

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

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ACCOUNT:
Pace IR - Peoria, IL

PROJECT:
GH04588

SDG:
L1672539

DATE/TIME:
11/20/23 09:56

PAGE:
1 of 17

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SAMPLE SUMMARY

		Collected by	Collected date/time	Received date/time		
			10/25/23 10:15	10/31/23 09:00		
GJ04588-01 L1672539-01	Non-Potable Water	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320			WG2166563	1	11/08/23 17:03	11/13/23 17:36
Radiochemistry by Method Calculation			WG2164135	1	11/04/23 10:16	11/13/23 17:36
Radiochemistry by Method SM7500Ra B M			WG2164135	1	11/04/23 10:16	11/08/23 22:53
		Collected by	Collected date/time	Received date/time		
			10/25/23 15:38	10/31/23 09:00		
GJ04588-02 L1672539-02	Non-Potable Water	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320			WG2166563	1	11/08/23 17:03	11/13/23 17:36
Radiochemistry by Method Calculation			WG2164135	1	11/04/23 10:16	11/13/23 17:36
Radiochemistry by Method SM7500Ra B M			WG2164135	1	11/04/23 10:16	11/08/23 22:53
		Collected by	Collected date/time	Received date/time		
			10/25/23 11:37	10/31/23 09:00		
GJ04588-03 L1672539-03	Non-Potable Water	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320			WG2166563	1	11/08/23 17:03	11/13/23 17:36
Radiochemistry by Method Calculation			WG2164135	1	11/04/23 10:16	11/13/23 17:36
Radiochemistry by Method SM7500Ra B M			WG2164135	1	11/04/23 10:16	11/08/23 22:53
		Collected by	Collected date/time	Received date/time		
			10/25/23 14:20	10/31/23 09:00		
GJ04588-04 L1672539-04	Non-Potable Water	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320			WG2166563	1	11/08/23 17:03	11/13/23 17:36
Radiochemistry by Method Calculation			WG2164135	1	11/04/23 10:16	11/13/23 17:36
Radiochemistry by Method SM7500Ra B M			WG2164135	1	11/04/23 10:16	11/08/23 22:53
		Collected by	Collected date/time	Received date/time		
			10/05/23 13:00	10/31/23 09:00		
GJ04588-05 L1672539-05	Non-Potable Water	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320			WG2166563	1	11/08/23 17:03	11/13/23 17:36
Radiochemistry by Method Calculation			WG2164135	1	11/04/23 10:16	11/13/23 17:36
Radiochemistry by Method SM7500Ra B M			WG2164135	1	11/04/23 10:16	11/08/23 22:53
		Collected by	Collected date/time	Received date/time		
			10/25/23 15:53	10/31/23 09:00		
GJ04588-06 L1672539-06	Non-Potable Water	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320			WG2166563	1	11/08/23 17:03	11/13/23 17:36
Radiochemistry by Method Calculation			WG2164135	1	11/04/23 10:16	11/13/23 17:36
Radiochemistry by Method SM7500Ra B M			WG2164135	1	11/04/23 10:16	11/08/23 22:53

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

[Preliminary Report]


Haley Torrence
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC

GJ04588-01

Collected date/time: 10/25/23 10:15

SAMPLE RESULTS - 01

L1672539

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.837		0.278		0.469		11/13/2023 17:36	WG2166563
(T) Barium	113				30.0-143		11/13/2023 17:36	WG2166563
(T) Yttrium	109				30.0-136		11/13/2023 17:36	WG2166563

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.23		0.347	0.493	11/13/2023 17:36	WG2164135

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.392		0.208		0.151		11/08/2023 22:53	WG2164135
(T) Barium-133	95.6				30.0-143		11/08/2023 22:53	WG2164135

GJ04588-02

Collected date/time: 10/25/23 15:38

SAMPLE RESULTS - 02

L1672539

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.793		0.401		0.689		11/13/2023 17:36	WG2166563
(T) Barium	108				30.0-143		11/13/2023 17:36	WG2166563
(T) Yttrium	78.8				30.0-136		11/13/2023 17:36	WG2166563

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.39		0.474	0.702	11/13/2023 17:36	WG2164135

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.596		0.253		0.133		11/08/2023 22:53	WG2164135
(T) Barium-133	93.9				30.0-143		11/08/2023 22:53	WG2164135

GJ04588-03

Collected date/time: 10/25/23 11:37

SAMPLE RESULTS - 03

L1672539

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.0183	<u>U</u>	0.413		0.733		11/13/2023 17:36	<u>WG2166563</u>
(T) Barium	106				30.0-143		11/13/2023 17:36	<u>WG2166563</u>
(T) Yttrium	84.4				30.0-136		11/13/2023 17:36	<u>WG2166563</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.500	<u>J</u>	0.487	0.752	11/13/2023 17:36	<u>WG2164135</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.482		0.259		0.170		11/08/2023 22:53	<u>WG2164135</u>
(T) Barium-133	78.4				30.0-143		11/08/2023 22:53	<u>WG2164135</u>

GJ04588-04

Collected date/time: 10/25/23 14:20

SAMPLE RESULTS - 04

L1672539

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	1.77		0.556		0.934		11/13/2023 17:36	WG2166563
(<i>T</i>) Barium	98.5				30.0-143		11/13/2023 17:36	WG2166563
(<i>T</i>) Yttrium	108				30.0-136		11/13/2023 17:36	WG2166563

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.65		0.635	0.943	11/13/2023 17:36	WG2164135

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.873		0.306		0.133		11/08/2023 22:53	WG2164135
(<i>T</i>) Barium-133	103				30.0-143		11/08/2023 22:53	WG2164135

GJ04588-05

Collected date/time: 10/05/23 13:00

SAMPLE RESULTS - 05

L1672539

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	1.12		0.522		0.896		11/13/2023 17:36	WG2166563
(<i>T</i>) Barium	108				30.0-143		11/13/2023 17:36	WG2166563
(<i>T</i>) Yttrium	95.1				30.0-136		11/13/2023 17:36	WG2166563

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.15		0.620	0.906	11/13/2023 17:36	WG2164135

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	1.03		0.335		0.136		11/08/2023 22:53	WG2164135
(<i>T</i>) Barium-133	92.1				30.0-143		11/08/2023 22:53	WG2164135

GJ04588-06

Collected date/time: 10/25/23 15:53

SAMPLE RESULTS - 06

L1672539

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	-0.127	<u>U</u>	0.258		0.467		11/13/2023 17:36	<u>WG2166563</u>
(T) Barium	126				30.0-143		11/13/2023 17:36	<u>WG2166563</u>
(T) Yttrium	79.4				30.0-136		11/13/2023 17:36	<u>WG2166563</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.0747	<u>U</u>	0.275	0.485	11/13/2023 17:36	<u>WG2164135</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.0747	<u>J</u>	0.0960		0.132		11/08/2023 22:53	<u>WG2164135</u>
(T) Barium-133	98.6				30.0-143		11/08/2023 22:53	<u>WG2164135</u>

QUALITY CONTROL SUMMARY

[L1672539-01,02,03,04,05,06](#)

Method Blank (MB)

(MB) R3999867-1 11/13/23 17:36

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.110	U	0.183	0.323	
(T) Barium	114		114		
(T) Yttrium	94.9		94.9		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al

L1672545-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1672545-07 11/13/23 17:36 • (DUP) R3999867-5 11/13/23 17:36

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER 1.88	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit 3
Radium-228	-0.273	0.267	0.480		0.546	0.345	0.598		200		J	20	
(T) Barium	118				111	111							
(T) Yttrium	103				109	109							

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3999867-2 11/13/23 17:36

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	4.96	99.1	80.0-120	
(T) Barium			114		
(T) Yttrium			98.7		

⁸Al

L1666683-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1666683-01 11/13/23 17:36 • (MS) R3999867-3 11/13/23 17:36 • (MSD) R3999867-4 11/13/23 17:36

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution 1	Rec. Limits 70.0-130	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD 12.4	MS RER %	RPD Limits %
Radium-228	10.0	1.63	8.90	10.1	72.6	84.4	1	70.0-130					20
(T) Barium		125		122	122								
(T) Yttrium		110		113	106								

¹Cp²Tc³Ss⁴Cn⁵Sr

QUALITY CONTROL SUMMARY

[L1672539-01,02,03,04,05,06](#)

Method Blank (MB)

(MB) R4002379-1 11/08/23 22:53

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0217	U	0.0449	0.0811	
(T) Barium-133	51.7		51.7		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1672545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1672545-01 11/08/23 22:53 • (DUP) R4002379-5 11/08/23 22:53

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER %	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.0851	0.109	0.150		0.167	0.180	0.215		64.9	0.388	J	20	3
(T) Barium-133	85.8				70.8	70.8							

⁷Gl⁸Al

Laboratory Control Sample (LCS)

(LCS) R4002379-2 11/08/23 22:53

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.00	5.50	110	80.0-120	
(T) Barium-133			67.9		

⁹Sc

L1670210-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1670210-09 11/08/23 22:53 • (MS) R4002379-3 11/08/23 22:53 • (MSD) R4002379-4 11/08/23 22:53

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	-0.00828	21.9	22.8	109	114	1	75.0-125			4.12		20
(T) Barium-133		81.8			82.8	76.6							

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

MDA	Minimum Detectable Activity.	1 Cp
Rec.	Recovery.	2 Tc
RER	Replicate Error Ratio.	3 Ss
RPD	Relative Percent Difference.	4 Cn
SDG	Sample Delivery Group.	5 Sr
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.	6 Qc
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	7 GI
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.	8 Al
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.	9 Sc
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.
U	Below Detectable Limits: Indicates that the analyte was not detected.

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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ Al

⁹ Sc

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

GJ04588

A220

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

U6772539

Analysis	Due	Expires	Comments
Sample: GJ04588-01 Name: OM04S	11/07/23 16:00	04/22/24 10:15	Sampled: 10/25/23 10:15 Matrix: Ground Water Preservative: HNO3, pH <2 -01
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/07/23 16:00	04/22/24 15:38	Sampled: 10/25/23 15:38 Matrix: Ground Water Preservative: HNO3, pH <2 -02
Sample: GJ04588-03 Name: OR04D	11/07/23 16:00	04/22/24 15:38	Sampled: 10/25/23 11:37 Matrix: Ground Water Preservative: HNO3, pH <2 -03
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/07/23 16:00	04/22/24 11:37	Sampled: 10/25/23 14:20 Matrix: Ground Water Preservative: HNO3, pH <2 -04
Sample: GJ04588-04 Name: OR14D	11/07/23 16:00	04/22/24 14:20	Sampled: 10/05/23 13:00 Matrix: Ground Water Preservative: HNO3, pH <2 -05
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/07/23 16:00	04/22/24 14:20	Sampled: 10/05/23 13:00 Matrix: Ground Water Preservative: HNO3, pH <2 -05
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/07/23 16:00	04/02/24 13:00	

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

GJ04588

SENDING LABORATORY

PDC Laboratories, Inc.
 2231 W Altorfer Dr
 Peoria, IL 61615
 (800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
 12065 Lebanon Rd
 Mt Juliet, TN 37122
 (615) 758-5858

U1072539

Analysis	Due	Expires	Comments
			Sampled: 10/25/23 15:53 Matrix: DI Water Preservative: HNO3, pH <2 -de

01-Radium 226/228 combined 11/07/23 16:00

04/22/24 15:53

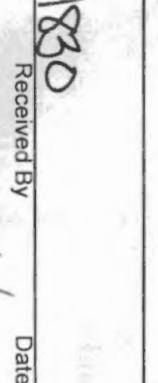
- Sample Receipt Checklist If Applicable
- Seal present / intact
 - VOA zero Headspace
 - Free, correct check
 - Bottles arrive intact
 - Correct bottles used
 - Sufficient volume sent
 - FA screen ~ 0.5 mR/hr

Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 10/27/23 Total # of Containers: 5 Sample Origin (State): TN PO #: _____

Turn-Around Time Requested NORMAL RUSH

Date Results Needed: _____

Relinquished By	Date/Time	Received By	Date/Time
	<u>10/27/23 1830</u>		<u>10/31/23 0900</u>
Retained By	Date/Time	Received By	Date/Time

Sample Temperature Upon Receipt	_____ °C
Sample(s) Received on Ice	Y or N
Proper Bottles Received in Good Condition	Y or N
Bottles Filled with Adequate Volume	Y or N
Samples Received Within Hold Time	Y or N
Date/Time Taken From Sample Bottle	Y or N



ANALYTICAL REPORT

December 01, 2023

Revised Report

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Pace IR - Peoria, IL

Sample Delivery Group: L1672549

Samples Received: 10/31/2023

Project Number: GJ04862

Description:

Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
[Preliminary Report]

Haley Torrence
Project Manager

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

Pace Analytical National

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

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ACCOUNT:
Pace IR - Peoria, IL

PROJECT:
GJ04862

SDG:
L1672549

DATE/TIME:
12/01/23 10:08

PAGE:
1 of 25

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SAMPLE SUMMARY

		Collected by	Collected date/time	Received date/time		
			10/26/23 11:55	10/31/23 09:00		
GJ04862-01 L1672549-01	Non-Potable Water	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320			WG2166563	1	11/08/23 17:03	11/13/23 17:36
Radiochemistry by Method Calculation			WG2164497	1	11/04/23 13:25	11/13/23 17:36
Radiochemistry by Method SM7500Ra B M			WG2164497	1	11/04/23 13:25	11/07/23 23:36
		Collected by	Collected date/time	Received date/time		
			10/26/23 15:31	10/31/23 09:00		
GJ04862-02 L1672549-02	Non-Potable Water	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320			WG2166563	1	11/08/23 17:03	11/13/23 17:36
Radiochemistry by Method Calculation			WG2164497	1	11/04/23 13:25	11/13/23 17:36
Radiochemistry by Method SM7500Ra B M			WG2164497	1	11/04/23 13:25	11/07/23 23:36
		Collected by	Collected date/time	Received date/time		
			10/26/23 13:53	10/31/23 09:00		
GJ04862-03 L1672549-03	Non-Potable Water	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320			WG2166563	1	11/08/23 17:03	11/13/23 17:36
Radiochemistry by Method Calculation			WG2164497	1	11/04/23 13:25	11/13/23 17:36
Radiochemistry by Method SM7500Ra B M			WG2164497	1	11/04/23 13:25	11/07/23 23:36
		Collected by	Collected date/time	Received date/time		
			10/26/23 13:38	10/31/23 09:00		
GJ04862-04 L1672549-04	Non-Potable Water	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320			WG2166563	1	11/08/23 17:03	11/13/23 17:36
Radiochemistry by Method Calculation			WG2164497	1	11/04/23 13:25	11/13/23 17:36
Radiochemistry by Method SM7500Ra B M			WG2164497	1	11/04/23 13:25	11/07/23 23:36
		Collected by	Collected date/time	Received date/time		
			10/26/23 12:04	10/31/23 09:00		
GJ04862-05 L1672549-05	Non-Potable Water	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320			WG2166563	1	11/08/23 17:03	11/13/23 17:36
Radiochemistry by Method Calculation			WG2164497	1	11/04/23 13:25	11/13/23 17:36
Radiochemistry by Method SM7500Ra B M			WG2164497	1	11/04/23 13:25	11/07/23 23:36
		Collected by	Collected date/time	Received date/time		
			10/26/23 10:45	10/31/23 09:00		
GJ04862-06 L1672549-06	Non-Potable Water	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320			WG2168338	1	11/09/23 22:55	11/15/23 17:04
Radiochemistry by Method Calculation			WG2164497	1	11/04/23 13:25	11/15/23 17:04
Radiochemistry by Method SM7500Ra B M			WG2164497	1	11/04/23 13:25	11/07/23 23:36

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

SAMPLE SUMMARY

		Collected by		Collected date/time	Received date/time	
				10/26/23 14:40	10/31/23 09:00	
GJ04862-07 L1672549-07 Non-Potable Water		Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Method						Location
Radiochemistry by Method 904/9320		WG2168338	1	11/09/23 22:55	11/15/23 17:04	DDD
Radiochemistry by Method Calculation		WG2164497	1	11/04/23 13:25	11/15/23 17:04	DDD
Radiochemistry by Method SM7500Ra B M		WG2164497	1	11/04/23 13:25	11/07/23 23:36	RGT
GJ04862-08 L1672549-08 Non-Potable Water		Collected by		Collected date/time	Received date/time	
Method				10/26/23 13:23	10/31/23 09:00	
Radiochemistry by Method 904/9320		WG2168338	1	11/09/23 22:55	11/15/23 17:04	DDD
Radiochemistry by Method Calculation		WG2164497	1	11/04/23 13:25	11/15/23 17:04	DDD
Radiochemistry by Method SM7500Ra B M		WG2164497	1	11/04/23 13:25	11/07/23 23:36	RGT
EB-6 L1672549-09 Non-Potable Water		Collected by		Collected date/time	Received date/time	
Method				10/26/23 14:58	10/31/23 09:00	
Radiochemistry by Method 904/9320		WG2168338	1	11/09/23 22:55	11/15/23 17:04	DDD
Radiochemistry by Method Calculation		WG2164497	1	11/04/23 13:25	11/15/23 17:04	DDD
Radiochemistry by Method SM7500Ra B M		WG2164497	1	11/04/23 13:25	11/07/23 23:36	RGT
EB-7 L1672549-10 Non-Potable Water		Collected by		Collected date/time	Received date/time	
Method				10/26/23 15:25	10/31/23 09:00	
Radiochemistry by Method 904/9320		WG2168338	1	11/09/23 22:55	11/15/23 17:04	DDD
Radiochemistry by Method Calculation		WG2164497	1	11/04/23 13:25	11/15/23 17:04	DDD
Radiochemistry by Method SM7500Ra B M		WG2164497	1	11/04/23 13:25	11/07/23 23:36	RGT

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

[Preliminary Report]


Haley Torrence
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC

Report Revision History

Level II Report - Version 1: 11/29/23 14:34

Level II Report - Version 2: 11/30/23 11:10

Project Narrative

GJ04862-01

Collected date/time: 10/26/23 11:55

SAMPLE RESULTS - 01

L1672549

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.881		0.282		0.476		11/13/2023 17:36	WG2166563
(T) Barium	113				30.0-143		11/13/2023 17:36	WG2166563
(T) Yttrium	119				30.0-136		11/13/2023 17:36	WG2166563

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.30		0.357	0.496	11/13/2023 17:36	WG2164497

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.422		0.219		0.138		11/07/2023 23:36	WG2164497
(T) Barium-133	87.6				30.0-143		11/07/2023 23:36	WG2164497

GJ04862-02

Collected date/time: 10/26/23 15:31

SAMPLE RESULTS - 02

L1672549

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	-0.112	<u>U</u>	0.304		0.541		11/13/2023 17:36	<u>WG2166563</u>
(T) Barium	113				30.0-143		11/13/2023 17:36	<u>WG2166563</u>
(T) Yttrium	87.2				30.0-136		11/13/2023 17:36	<u>WG2166563</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.0485	<u>U</u>	0.332	0.593	11/13/2023 17:36	<u>WG2164497</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.0485	<u>U</u>	0.134		0.243		11/07/2023 23:36	<u>WG2164497</u>
(T) Barium-133	87.4				30.0-143		11/07/2023 23:36	<u>WG2164497</u>

GJ04862-03

Collected date/time: 10/26/23 13:53

SAMPLE RESULTS - 03

L1672549

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.771		0.320		0.545		11/13/2023 17:36	WG2166563
(T) Barium	111				30.0-143		11/13/2023 17:36	WG2166563
(T) Yttrium	90.4				30.0-136		11/13/2023 17:36	WG2166563

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.812		0.348	0.597	11/13/2023 17:36	WG2164497

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.0416	U	0.138		0.244		11/07/2023 23:36	WG2164497
(T) Barium-133	94.3				30.0-143		11/07/2023 23:36	WG2164497

GJ04862-04

Collected date/time: 10/26/23 13:38

SAMPLE RESULTS - 04

L1672549

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.101	<u>U</u>	0.299		0.525		11/13/2023 17:36	<u>WG2166563</u>
(<i>T</i>) Barium	125				30.0-143		11/13/2023 17:36	<u>WG2166563</u>
(<i>T</i>) Yttrium	105				30.0-136		11/13/2023 17:36	<u>WG2166563</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.492	<u>J</u>	0.380	0.568	11/13/2023 17:36	<u>WG2164497</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.391		0.235		0.218		11/07/2023 23:36	<u>WG2164497</u>
(<i>T</i>) Barium-133	88.1				30.0-143		11/07/2023 23:36	<u>WG2164497</u>

GJ04862-05

Collected date/time: 10/26/23 12:04

SAMPLE RESULTS - 05

L1672549

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.434	J	0.306		0.530		11/13/2023 17:36	WG2166563
(T) Barium	104				30.0-143		11/13/2023 17:36	WG2166563
(T) Yttrium	97.3				30.0-136		11/13/2023 17:36	WG2166563

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.681		0.430	0.680	11/13/2023 17:36	WG2164497

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.247	J	0.302		0.426		11/07/2023 23:36	WG2164497
(T) Barium-133	73.9				30.0-143		11/07/2023 23:36	WG2164497

GJ04862-06

Collected date/time: 10/26/23 10:45

SAMPLE RESULTS - 06

L1672549

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.666		0.312		0.531		11/15/2023 17:04	WG2168338
(<i>T</i>) Barium	92.8				30.0-143		11/15/2023 17:04	WG2168338
(<i>T</i>) Yttrium	98.7				30.0-136		11/15/2023 17:04	WG2168338

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.24		0.437	0.609	11/15/2023 17:04	WG2164497

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.574		0.306		0.299		11/07/2023 23:36	WG2164497
(<i>T</i>) Barium-133	96.0				30.0-143		11/07/2023 23:36	WG2164497

GJ04862-07

Collected date/time: 10/26/23 14:40

SAMPLE RESULTS - 07

L1672549

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.620		0.272		0.462		11/15/2023 17:04	WG2168338
(T) Barium	100				30.0-143		11/15/2023 17:04	WG2168338
(T) Yttrium	103				30.0-136		11/15/2023 17:04	WG2168338

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.17		0.396	0.525	11/15/2023 17:04	WG2164497

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.549		0.288		0.250		11/07/2023 23:36	WG2164497
(T) Barium-133	91.1				30.0-143		11/07/2023 23:36	WG2164497

GJ04862-08

Collected date/time: 10/26/23 13:23

SAMPLE RESULTS - 08

L1672549

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	-0.286	<u>U</u>	0.316		0.561		11/15/2023 17:04	<u>WG2168338</u>
(<i>T</i>) Barium	97.2				30.0-143		11/15/2023 17:04	<u>WG2168338</u>
(<i>T</i>) Yttrium	110				30.0-136		11/15/2023 17:04	<u>WG2168338</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.440	<u>J</u>	0.419	0.630	11/15/2023 17:04	<u>WG2164497</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.440		0.275		0.287		11/07/2023 23:36	<u>WG2164497</u>
(<i>T</i>) Barium-133	84.9				30.0-143		11/07/2023 23:36	<u>WG2164497</u>

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.540		0.298		0.509		11/15/2023 17:04	WG2168338
(T) Barium	104				30.0-143		11/15/2023 17:04	WG2168338
(T) Yttrium	101				30.0-136		11/15/2023 17:04	WG2168338

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.580		0.328	0.577	11/15/2023 17:04	WG2164497

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.0408	U	0.138		0.272		11/07/2023 23:36	WG2164497
(T) Barium-133	73.1				30.0-143		11/07/2023 23:36	WG2164497

EB-7

Collected date/time: 10/26/23 15:25

SAMPLE RESULTS - 10

L1672549

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	-0.215	<u>U</u>	0.307		0.543		11/15/2023 17:04	<u>WG2168338</u>
(T) Barium	114				30.0-143		11/15/2023 17:04	<u>WG2168338</u>
(T) Yttrium	110				30.0-136		11/15/2023 17:04	<u>WG2168338</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.179	<u>U</u>	0.380	0.631	11/15/2023 17:04	<u>WG2164497</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
(T) Barium-133	0.179	<u>J</u>	0.224		0.321		11/07/2023 23:36	<u>WG2164497</u>
(T) Barium-133	69.9				30.0-143		11/07/2023 23:36	<u>WG2164497</u>

⁶Qc⁷Gl⁸Al⁹Sc

QUALITY CONTROL SUMMARY

[L1672549-01,02,03,04,05](#)

Method Blank (MB)

(MB) R3999867-1 11/13/23 17:36

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.110	U	0.183	0.323	
(T) Barium	114		114		
(T) Yttrium	94.9		94.9		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al

L1672545-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1672545-07 11/13/23 17:36 • (DUP) R3999867-5 11/13/23 17:36

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER 1.88	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit 3
Radium-228	-0.273	0.267	0.480		0.546	0.345	0.598		200		J	20	
(T) Barium	118				111	111							
(T) Yttrium	103				109	109							

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3999867-2 11/13/23 17:36

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	4.96	99.1	80.0-120	
(T) Barium			114		
(T) Yttrium			98.7		

¹⁰Yb

L1666683-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1666683-01 11/13/23 17:36 • (MS) R3999867-3 11/13/23 17:36 • (MSD) R3999867-4 11/13/23 17:36

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-228	10.0	1.63	8.90	10.1	72.6	84.4	1	70.0-130			12.4		20
(T) Barium		125		122	122								
(T) Yttrium		110		113	106								

¹¹Lu

QUALITY CONTROL SUMMARY

L1672549-06,07,08,09,10

Method Blank (MB)

(MB) R4005409-1 11/15/23 17:04

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.187	J	0.171	0.298	
(T) Barium	102		102		
(T) Yttrium	99.6		99.6		

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1672549-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1672549-10 11/15/23 17:04 • (DUP) R4005409-3 11/15/23 17:04

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER 1.03	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-228	-0.215	0.307	0.543		0.257	0.342	0.598		200	1.03	J	20	3
(T) Barium	114				112	112							
(T) Yttrium	110				101	101							

Laboratory Control Sample (LCS)

(LCS) R4005409-2 11/15/23 17:04

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	4.23	84.7	80.0-120	
(T) Barium			118		
(T) Yttrium			107		

L1668230-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1668230-08 11/22/23 21:28 • (MS) R4005409-6 11/22/23 21:28 • (MSD) R4005409-7 11/22/23 21:28

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	MS RER	RPD Limits %
Radium-228	10.0	6.02	11.7	12.9	57.2	68.6	1	70.0-130	J6	9.26		20
(T) Barium		84.8		104	103							
(T) Yttrium		105		98.9	114							

QUALITY CONTROL SUMMARY

[L1672549-01,02,03,04,05,06,07,08,09,10](#)

Method Blank (MB)

(MB) R3999792-1 11/07/23 23:35

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.000	U	0.0489	0.0955	
(T) Barium-133	67.9		67.9		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1672549-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1672549-09 11/07/23 23:36 • (DUP) R3999792-5 11/07/23 23:35

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER U	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.0408	0.138	0.272		0.118	0.298	0.471		97.1	0.234		20	3
(T) Barium-133	73.1				61.6	61.6							

⁷Gl⁸Al

Laboratory Control Sample (LCS)

(LCS) R3999792-2 11/07/23 23:35

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.00	5.47	109	80.0-120	
(T) Barium-133			78.8		

⁹Sc

L1671796-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1671796-01 11/07/23 23:36 • (MS) R3999792-3 11/07/23 23:35 • (MSD) R3999792-4 11/07/23 23:35

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.202	21.0	22.6	104	112	1	75.0-125			7.07		20
(T) Barium-133		70.2			67.7	71.3							

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

MDA	Minimum Detectable Activity.	¹ Cp
Rec.	Recovery.	² Tc
RER	Replicate Error Ratio.	³ Ss
RPD	Relative Percent Difference.	⁴ Cn
SDG	Sample Delivery Group.	⁵ Sr
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.	⁶ Qc
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	⁷ GI
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.	⁸ Al
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.	⁹ Sc
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.
U	Below Detectable Limits: Indicates that the analyte was not detected.

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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ Al

⁹ Sc

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

GJ04862

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Allotfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

Analysis	Due	Expires	Comments
Sample: GJ04862-06 Name: OM12			Sampled: 10/26/23 10:45 Matrix: Ground Water Preservative: HNO3, pH <2 -06
01-Radium 226/228 combined	11/08/23 16:00	04/23/24 10:45	
Sample: GJ04862-07 Name: OR06A			Sampled: 10/26/23 14:40 Matrix: Ground Water Preservative: HNO3, pH <2 -07
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/08/23 16:00	04/23/24 14:40	
Sample: GJ04862-08 Name: OR13D			Sampled: 10/26/23 13:23 Matrix: Ground Water Preservative: HNO3, pH <2 -08
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/08/23 16:00	04/23/24 13:23	
Sample: GJ04862-09 Name: Equipment Blank-7	E3-6 11/22/23 Lab		Sampled: 10/26/23 14:58 Matrix: DI Water Preservative: HNO3, pH <2 -09
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/08/23 16:00	04/23/24 14:58	
Sample: GJ04862-10 Name: Equipment Blank-8	G B-7 11/3/23 Lab		Sampled: 10/26/23 15:25 Matrix: DI Water Preservative: HNO3, pH <2 -10
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/08/23 16:00	04/23/24 15:25	

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

GJ04862

A218

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

Analysis	Due	Expires	Comments
Sample: GJ04862-01 Name: G51S			Sampled: 10/26/23 11:55 Matrix: Ground Water Preservative: HNO3, pH <2 -01
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/08/23 16:00	04/23/24 11:55	
Sample: GJ04862-02 Name: G62L			Sampled: 10/26/23 15:31 Matrix: Ground Water Preservative: HNO3, pH <2 -02
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/08/23 16:00	04/23/24 15:31	
Sample: GJ04862-03 Name: G64L			Sampled: 10/26/23 13:53 Matrix: Ground Water Preservative: HNO3, pH <2 -03
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/08/23 16:00	04/23/24 13:53	
Sample: GJ04862-04 Name: G64S			Sampled: 10/26/23 13:38 Matrix: Ground Water Preservative: HNO3, pH <2 -04
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/08/23 16:00	04/23/24 13:38	
Sample: GJ04862-05 Name: OM07			Sampled: 10/26/23 12:04 Matrix: Ground Water Preservative: HNO3, pH <2 -05
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/08/23 16:00	04/23/24 12:04	

SUBCONTRACT ORDER
Transfer Chain of Custody
Pace Analytical Services, LLC

GJ04862

11/07/2019

Please email results to Diane Billings at diane.bilings@pacelabs.com

Date Shipped: 10/27/23

Total # of Containers: 10

Sample Origin (State): IL

PO #: _____

Turn-Around Time Requested NORMAL RUSH

Date Results Needed: _____

CGP Seal Present/Intact:	<input checked="" type="checkbox"/>	SAMPLE RECEIVED Checklist	<input checked="" type="checkbox"/>
CC Signed Accurate:	<input checked="" type="checkbox"/>	IT Applicable	<input checked="" type="checkbox"/>
Specimens arrive intact:	<input checked="" type="checkbox"/>	VQA ZERO Headspace:	<input checked="" type="checkbox"/>
Correct bottles used:	<input checked="" type="checkbox"/>	Spec. Freq. Correct/Check:	<input checked="" type="checkbox"/>
Sufficient volume sent:	<input checked="" type="checkbox"/>	PA Screen <0.5 MR hr:	<input checked="" type="checkbox"/>

<u>Diane Billings</u>	<u>10/26/23</u>	<u>1830</u>	
Relinquished By	Date/Time	Received By	Date/Time
<u>H. P. Roth</u>	<u>10/31/23</u>	<u>0900</u>	
Relinquished By	Date/Time	Received By	Date/Time

Sample	Temperature Upon Receipt	°C
Sample(s) Received on Ice		Y or N
Proper Bottles Received in Good Condition		Y or N
Bottles Filled with Adequate Volume		Y or N
Samples Received Within Hold Time		Y or N
Date/Time Taken From Sample Bottle		Y or N



ANALYTICAL REPORT

November 29, 2023

Revised Report

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Pace IR - Peoria, IL

Sample Delivery Group: L1672545

Samples Received: 10/31/2023

Project Number: GJ04998

Description:

Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
[Preliminary Report]

Haley Torrence
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

155

ACCOUNT:
Pace IR - Peoria, IL

PROJECT:
GJ04998

SDG:
L1672545

DATE/TIME:
11/29/23 14:35

PAGE:
1 of 23

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SAMPLE SUMMARY

		Collected by	Collected date/time	Received date/time		
			10/27/23 13:38	10/31/23 09:00		
GJ04998-01 L1672545-01	Non-Potable Water	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320			WG2166563	1	11/08/23 17:03	11/13/23 17:36
Radiochemistry by Method Calculation			WG2164135	1	11/04/23 10:16	11/13/23 17:36
Radiochemistry by Method SM7500Ra B M			WG2164135	1	11/04/23 10:16	11/08/23 22:53
		Collected by	Collected date/time	Received date/time		
			10/27/23 11:54	10/31/23 09:00		
GJ04998-02 L1672545-02	Non-Potable Water	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320			WG2166563	1	11/08/23 17:03	11/13/23 17:36
Radiochemistry by Method Calculation			WG2164135	1	11/04/23 10:16	11/13/23 17:36
Radiochemistry by Method SM7500Ra B M			WG2164135	1	11/04/23 10:16	11/08/23 22:53
		Collected by	Collected date/time	Received date/time		
			10/27/23 13:30	10/31/23 09:00		
GJ04998-03 L1672545-03	Non-Potable Water	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320			WG2166563	1	11/08/23 17:03	11/13/23 17:36
Radiochemistry by Method Calculation			WG2164135	1	11/04/23 10:16	11/13/23 17:36
Radiochemistry by Method SM7500Ra B M			WG2164135	1	11/04/23 10:16	11/08/23 22:53
		Collected by	Collected date/time	Received date/time		
			10/27/23 13:40	10/31/23 09:00		
GJ04998-04 L1672545-04	Non-Potable Water	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320			WG2166563	1	11/08/23 17:03	11/13/23 17:36
Radiochemistry by Method Calculation			WG2164135	1	11/04/23 10:16	11/13/23 17:36
Radiochemistry by Method SM7500Ra B M			WG2164135	1	11/04/23 10:16	11/08/23 22:53
		Collected by	Collected date/time	Received date/time		
			10/27/23 13:40	10/31/23 09:00		
GJ04998-05 L1672545-05	Non-Potable Water	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320			WG2166563	1	11/08/23 17:03	11/13/23 17:36
Radiochemistry by Method Calculation			WG2164497	1	11/04/23 13:25	11/13/23 17:36
Radiochemistry by Method SM7500Ra B M			WG2164497	1	11/04/23 13:25	11/07/23 23:36
		Collected by	Collected date/time	Received date/time		
			10/27/23 15:43	10/31/23 09:00		
GJ04998-06 L1672545-06	Non-Potable Water	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320			WG2166563	1	11/08/23 17:03	11/13/23 17:36
Radiochemistry by Method Calculation			WG2164497	1	11/04/23 13:25	11/13/23 17:36
Radiochemistry by Method SM7500Ra B M			WG2164497	1	11/04/23 13:25	11/07/23 23:36

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gi

8 Al

9 Sc

SAMPLE SUMMARY

		Collected by	Collected date/time	Received date/time		
GJ04998-07 L1672545-07 Non-Potable Water			10/27/23 15:40	10/31/23 09:00		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2166563	1	11/08/23 17:03	11/13/23 17:36	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2164497	1	11/04/23 13:25	11/13/23 17:36	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2164497	1	11/04/23 13:25	11/07/23 23:36	RGT	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

[Preliminary Report]
Haley Torrence

Haley Torrence
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC

Report Revision History

Level II Report - Version 1: 11/21/23 09:26

Project Narrative

GJ04998-01

Collected date/time: 10/27/23 13:38

SAMPLE RESULTS - 01

L1672545

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.0926	<u>U</u>	0.204		0.363		11/13/2023 17:36	<u>WG2166563</u>
(<i>T</i>) Barium	126				30.0-143		11/13/2023 17:36	<u>WG2166563</u>
(<i>T</i>) Yttrium	101				30.0-136		11/13/2023 17:36	<u>WG2166563</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.178	<u>J</u>	0.231	0.393	11/13/2023 17:36	<u>WG2164135</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.0851	<u>J</u>	0.109		0.150		11/08/2023 22:53	<u>WG2164135</u>
(<i>T</i>) Barium-133	85.8				30.0-143		11/08/2023 22:53	<u>WG2164135</u>

GJ04998-02

Collected date/time: 10/27/23 11:54

SAMPLE RESULTS - 02

L1672545

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.732		0.214		0.358		11/13/2023 17:36	WG2166563
(T) Barium	111				30.0-143		11/13/2023 17:36	WG2166563
(T) Yttrium	124				30.0-136		11/13/2023 17:36	WG2166563

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.14		0.447	0.383	11/13/2023 17:36	WG2164135

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	1.41		0.393		0.137		11/08/2023 22:53	WG2164135
(T) Barium-133	94.1				30.0-143		11/08/2023 22:53	WG2164135

GJ04998-03

Collected date/time: 10/27/23 13:30

SAMPLE RESULTS - 03

L1672545

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	1.22		0.511		0.871		11/13/2023 17:36	WG2166563
(<i>T</i>) Barium	96.6				30.0-143		11/13/2023 17:36	WG2166563
(<i>T</i>) Yttrium	102				30.0-136		11/13/2023 17:36	WG2166563

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	4.54		0.794	0.882	11/13/2023 17:36	WG2164135

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	3.32		0.608		0.140		11/08/2023 22:53	WG2164135
(<i>T</i>) Barium-133	94.6				30.0-143		11/08/2023 22:53	WG2164135

GJ04998-04

Collected date/time: 10/27/23 13:40

SAMPLE RESULTS - 04

L1672545

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	1.57		0.608		1.03		11/13/2023 17:36	WG2166563
(<i>T</i>) Barium	94.1				30.0-143		11/13/2023 17:36	WG2166563
(<i>T</i>) Yttrium	90.1				30.0-136		11/13/2023 17:36	WG2166563

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.13		0.657	1.04	11/13/2023 17:36	WG2164135

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.557		0.249		0.137		11/08/2023 22:53	WG2164135
(<i>T</i>) Barium-133	98.4				30.0-143		11/08/2023 22:53	WG2164135

GJ04998-05

Collected date/time: 10/27/23 13:40

SAMPLE RESULTS - 05

L1672545

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	-0.0788	<u>U</u>	0.279		0.495		11/13/2023 17:36	<u>WG2166563</u>
(T) Barium	105				30.0-143		11/13/2023 17:36	<u>WG2166563</u>
(T) Yttrium	106				30.0-136		11/13/2023 17:36	<u>WG2166563</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.19		0.484	0.549	11/13/2023 17:36	<u>WG2164497</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	1.19		0.395		0.238		11/07/2023 23:36	<u>WG2164497</u>
(T) Barium-133	82.3				30.0-143		11/07/2023 23:36	<u>WG2164497</u>

GJ04998-06

Collected date/time: 10/27/23 15:43

SAMPLE RESULTS - 06

L1672545

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.111	<u>U</u>	0.233		0.412		11/13/2023 17:36	<u>WG2166563</u>
(T) Barium	114				30.0-143		11/13/2023 17:36	<u>WG2166563</u>
(T) Yttrium	108				30.0-136		11/13/2023 17:36	<u>WG2166563</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.212	<u>J</u>	0.266	0.448	11/13/2023 17:36	<u>WG2164497</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.101	<u>J</u>	0.129		0.177		11/07/2023 23:36	<u>WG2164497</u>
(T) Barium-133	76.9				30.0-143		11/07/2023 23:36	<u>WG2164497</u>

GJ04998-07

Collected date/time: 10/27/23 15:40

SAMPLE RESULTS - 07

L1672545

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	-0.273	<u>U</u>	0.267		0.480		11/13/2023 17:36	<u>WG2166563</u>
(T) Barium	118				30.0-143		11/13/2023 17:36	<u>WG2166563</u>
(T) Yttrium	103				30.0-136		11/13/2023 17:36	<u>WG2166563</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	0.155	<u>U</u>	0.304	0.505	11/13/2023 17:36	<u>WG2164497</u>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.155	<u>J</u>	0.146		0.158		11/07/2023 23:36	<u>WG2164497</u>
(T) Barium-133	71.9				30.0-143		11/07/2023 23:36	<u>WG2164497</u>

QUALITY CONTROL SUMMARY

[L1672545-01,02,03,04,05,06,07](#)

Method Blank (MB)

(MB) R3999867-1 11/13/23 17:36

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.110	U	0.183	0.323	
(T) Barium	114		114		
(T) Yttrium	94.9		94.9		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1672545-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1672545-07 11/13/23 17:36 • (DUP) R3999867-5 11/13/23 17:36

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER 1.88	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit 3
Radium-228	-0.273	0.267	0.480		0.546	0.345	0.598		200		J	20	
(T) Barium	118				111	111							
(T) Yttrium	103				109	109							

Laboratory Control Sample (LCS)

(LCS) R3999867-2 11/13/23 17:36

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	4.96	99.1	80.0-120	
(T) Barium			114		
(T) Yttrium			98.7		

L1666683-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1666683-01 11/13/23 17:36 • (MS) R3999867-3 11/13/23 17:36 • (MSD) R3999867-4 11/13/23 17:36

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-228	10.0	1.63	8.90	10.1	72.6	84.4	1	70.0-130			12.4		20
(T) Barium		125		122	122								
(T) Yttrium		110		113	106								

QUALITY CONTROL SUMMARY

L1672545-01,02,03,04

Method Blank (MB)

(MB) R4002379-1 11/08/23 22:53

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0217	<u>U</u>	0.0449	0.0811	
(T) Barium-133	51.7		51.7		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1672545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1672545-01 11/08/23 22:53 • (DUP) R4002379-5 11/08/23 22:53

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER %	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.0851	0.109	0.150		0.167	0.180	0.215		64.9	0.388	<u>J</u>	20	3
(T) Barium-133	85.8				70.8	70.8							

Laboratory Control Sample (LCS)

(LCS) R4002379-2 11/08/23 22:53

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.00	5.50	110	80.0-120	
(T) Barium-133			67.9		

L1670210-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1670210-09 11/08/23 22:53 • (MS) R4002379-3 11/08/23 22:53 • (MSD) R4002379-4 11/08/23 22:53

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	-0.00828	21.9	22.8	109	114	1	75.0-125			4.12		20
(T) Barium-133		81.8			82.8	76.6							

WG2164497

Radiochemistry by Method SM7500Ra B M

QUALITY CONTROL SUMMARY

L1672545-05,06,07

Method Blank (MB)

(MB) R3999792-1 11/07/23 23:35

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.000	<u>U</u>	0.0489	0.0955	
(T) Barium-133	67.9		67.9		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1672549-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1672549-09 11/07/23 23:36 • (DUP) R3999792-5 11/07/23 23:35

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER <u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.0408	0.138	0.272		0.118	0.298	0.471		97.1	0.234	<u>U</u>	20
(T) Barium-133	73.1				61.6	61.6						3

Laboratory Control Sample (LCS)

(LCS) R3999792-2 11/07/23 23:35

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.00	5.47	109	80.0-120	
(T) Barium-133			78.8		

L1671796-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1671796-01 11/07/23 23:36 • (MS) R3999792-3 11/07/23 23:35 • (MSD) R3999792-4 11/07/23 23:35

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.202	21.0	22.6	104	112	1	75.0-125			7.07		20
(T) Barium-133		70.2			67.7	71.3							

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

MDA	Minimum Detectable Activity.	¹ Cp
Rec.	Recovery.	² Tc
RER	Replicate Error Ratio.	³ Ss
RPD	Relative Percent Difference.	⁴ Cn
SDG	Sample Delivery Group.	⁵ Sr
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.	⁶ Qc
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	⁷ GI
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.	⁸ Al
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.	⁹ Sc
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.
U	Below Detectable Limits: Indicates that the analyte was not detected.

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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ Al

⁹ Sc

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

GJ04998

11072545

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

Sample: GJ04998-05

Name: OM01 DUP

Sampled: 10/27/23 13:40
Matrix: Ground Water
Preservative: HNO3, pH <2

10/27/23 13:40
1543 -07

-07

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

10/27/23 13:40

10/27/23 13:40

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

11/09/23 16:00

04/24/24 13:40

Sample: GJ04998-06

Name: EQUP-BLANK-9

E^β-⁸
dub 10/27/23

Sampled: 10/27/23 13:40

Matrix: Ground Water

Preservative: HNO3, pH <2

10/27/23 13:40

1543 -07

dub

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

11/09/23 16:00

04/24/24 13:40

Sample: GJ04998-07

Name: EQUP-BLANK-10

E^β-⁸
dub 10/27/23

Sampled: 10/27/23 13:40

Matrix: Ground Water

Preservative: HNO3, pH <2

10/27/23 13:40

1543 -07

dub

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

11/09/23 16:00

04/24/24 13:40

01-Radium 226/228 combined

11/09/23 16:00

04/24/24 13:40

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

A219

GJ04998

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-5651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

1340
10/27/23
dub

Sample: GJ04998-01
Name: G54L

Sampled: 10/27/23 13:38
Matrix: Ground Water
Preservative: HNO3, pH <2

-01

Analysis

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/09/23 16:00	04/24/24 13:38	
01-Radium 226/228 combined	11/09/23 16:00	04/24/24 13:38	

01-Radium 226/228 combined
01-Radium 226/228 combined

Sample: GJ04998-02
Name: G54S

Sampled: 10/27/23 11:54
Matrix: Ground Water
Preservative: HNO3, pH <2

-02

Analysis

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/09/23 16:00	04/24/24 11:54	
01-Radium 226/228 combined	11/09/23 16:00	04/24/24 11:54	

Sample: GJ04998-03
Name: OR02

Sampled: 10/27/23 11:54
Matrix: Ground Water
Preservative: HNO3, pH <2

1330
10/27/23
dub

Analysis

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/09/23 16:00	04/24/24 11:54	
01-Radium 226/228 combined	11/09/23 16:00	04/24/24 11:54	

Sample: GJ04998-04
Name: OMO1

Sampled: 10/27/23 11:30
Matrix: Ground Water
Preservative: HNO3, pH <2

1340
10/27/23
dub

Analysis

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/09/23 16:00	04/24/24 13:30	
01-Radium 226/228 combined	11/09/23 16:00	04/24/24 13:30	

01-Radium 226/228 combined
01-Radium 226/228 combined

11/09/23 16:00
11/09/23 16:00

04/24/24 13:30
04/24/24 13:30

SUBCONTRACT ORDER
Transfer Chain of Custody
Pace Analytical Services, LLC

GJ04998

UL072545

CCC Seal Present/Intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Sample Received/Checklist:
Bottles Shipped Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Correct/Intact:
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	VQA Zero Headspace:
Sufficient volume used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Spec. Correct Headspace:
R/R screen v/s m.R. hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 10/27/26 Total # of Containers: 7 Sample Origin (State): IL PO #: _____

Turn-Around Time Requested NORMAL RUSH

Date Results Needed: _____

Relinquished By	<u>Diane Billings</u>	Date/Time	<u>10/27/23 1830</u>
Received By	<u>Hannah Rothko</u>	Received By Date/Time	<u>10/31/23 0900</u>
Relinquished By	<u>Hannah Rothko</u>	Date/Time	<u>10/31/23 0900</u>
Received By		Date/Time	

Sample	Temperature Upon Receipt	_____ °C
Sample(s) Received on Ice		Y or N
Proper Bottles Received in Good Condition		Y or N
Bottles Filled with Adequate Volume		Y or N
Samples Received Within Hold Time		Y or N
Date/Time Taken From Sample Bottle		Y or N



ANALYTICAL REPORT

November 30, 2023

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Pace IR - Peoria, IL

Sample Delivery Group: L1673772
Samples Received: 11/03/2023
Project Number: GJ05392
Description:
Site: 01
Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
[Preliminary Report]

Haley Torrence
Project Manager

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

Pace Analytical National

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

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Tc: Table of Contents	2	2 Tc
Ss: Sample Summary	3	3 Ss
Cn: Case Narrative	4	4 Cn
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GJ05392-02 L1673772-02	6	7 GI
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Qc: Quality Control Summary	8	9 Sc
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SAMPLE SUMMARY

		Collected by	Collected date/time	Received date/time		
			10/31/23 10:27	11/03/23 09:00		
GJ05392-01 L1673772-01 Non-Potable Water		Method	Batch	Dilution	Preparation date/time	Analysis date/time
Radiochemistry by Method 904/9320			WG2171834	1	11/15/23 22:43	11/21/23 14:19
Radiochemistry by Method Calculation			WG2166556	1	11/09/23 15:03	11/21/23 14:19
Radiochemistry by Method SM7500Ra B M			WG2166556	1	11/09/23 15:03	11/13/23 17:48
GJ05392-02 L1673772-02 Non-Potable Water			Collected by	Collected date/time	Received date/time	
				10/31/23 11:40	11/03/23 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2171834	1	11/15/23 22:43	11/21/23 14:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2166556	1	11/09/23 15:03	11/21/23 14:19	RRE	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2166556	1	11/09/23 15:03	11/13/23 17:48	RRE	Mt. Juliet, TN
GJ05392-03 L1673772-03 Non-Potable Water			Collected by	Collected date/time	Received date/time	
				10/31/23 14:27	11/03/23 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2171834	1	11/15/23 22:43	11/21/23 14:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2166556	1	11/09/23 15:03	11/21/23 14:19	RRE	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2166556	1	11/09/23 15:03	11/13/23 17:48	RRE	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gi

8 Al

9 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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

[Preliminary Report]


Haley Torrence
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC

GJ05392-01

Collected date/time: 10/31/23 10:27

SAMPLE RESULTS - 01

L1673772

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.673	J	0.642		1.12		11/21/2023 14:19	WG2171834
(T) Barium	112				30.0-143		11/21/2023 14:19	WG2171834
(T) Yttrium	121				30.0-136		11/21/2023 14:19	WG2171834

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.55		0.729	1.15	11/21/2023 14:19	WG2166556

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.879		0.346	0.157	0.240	0.168	11/13/2023 17:48	WG2166556
(T) Barium-133	88.3				30.0-143		11/13/2023 17:48	WG2166556

GJ05392-02

Collected date/time: 10/31/23 11:40

SAMPLE RESULTS - 02

L1673772

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.440	J	0.264		0.456		11/21/2023 14:19	WG2171834
(T) Barium	122				30.0-143		11/21/2023 14:19	WG2171834
(T) Yttrium	101				30.0-136		11/21/2023 14:19	WG2171834

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.636		0.320	0.511	11/21/2023 14:19	WG2166556

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.196	J	0.181	0.0856	0.231	0.155	11/13/2023 17:48	WG2166556
(T) Barium-133	99.9				30.0-143		11/13/2023 17:48	WG2166556

GJ05392-03

Collected date/time: 10/31/23 14:27

SAMPLE RESULTS - 03

L1673772

Radiochemistry by Method 904/9320

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-228	0.591		0.329		0.568		11/21/2023 14:19	WG2171834
(T) Barium	125				30.0-143		11/21/2023 14:19	WG2171834
(T) Yttrium	116				30.0-136		11/21/2023 14:19	WG2171834

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method Calculation

Analyte	Result	<u>Qualifier</u>	Uncertainty	MDA	Analysis Date	<u>Batch</u>
Combined Radium	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.739		0.368	0.610	11/21/2023 14:19	WG2166556

Radiochemistry by Method SM7500Ra B M

Analyte	Result	<u>Qualifier</u>	2 sigma CE	TPU	MDA	Lc	Analysis Date	<u>Batch</u>
RADIUM-226	0.148	J	0.165	0.0681	0.222	0.158	11/13/2023 17:48	WG2166556
(T) Barium-133	86.7				30.0-143		11/13/2023 17:48	WG2166556

QUALITY CONTROL SUMMARY

L1673772-01,02,03

Method Blank (MB)

(MB) R4005417-1 11/21/23 14:19

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.406		0.184	0.315	
(T) Barium	89.6		89.6		
(T) Yttrium	109		109		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al

L1673770-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1673770-04 11/21/23 14:19 • (DUP) R4005417-5 11/21/23 14:19

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER 2.20	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-228	1.17	0.430	0.728		-0.0160	0.321	0.573		200	2.20	U	20	3
(T) Barium	113				105	105							
(T) Yttrium	94.9				118	118							

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4005417-2 11/21/23 14:19

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	5.54	111	80.0-120	
(T) Barium			120		
(T) Yttrium			119		

⁸Al

L1673772-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1673772-03 11/21/23 14:19 • (MS) R4005417-3 11/21/23 14:19 • (MSD) R4005417-4 11/21/23 14:19

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.591	16.6	18.0	96.0	104	1	70.0-130			7.86		20
(T) Barium		125		112	111								
(T) Yttrium		116		104	114								

¹Cp

QUALITY CONTROL SUMMARY

L1673772-01,02,03

Method Blank (MB)

(MB) R4005932-1 11/13/23 17:48

Analyte	MB Result pCi/g	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/g	MB Lc pCi/g
Radium-226	0.00880	<u>U</u>	0.0323	0.0566	0.0350
(T) Barium-133	78.7		78.7		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1673772-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1673772-03 11/13/23 17:48 • (DUP) R4005932-5 11/13/23 17:48

Analyte	Original Result pCi/g	Original 2 sigma CE + / -	Original MDA pCi/g	Original Lc pCi/g	DUP Result pCi/g	DUP 2 sigma CE + / -	DUP MDA pCi/g	DUP Lc pCi/g	DUP RPD %	DUP RER %	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.148	0.165	0.222	0.158	-0.107	0.210	0.429	0.269	200	0.956	<u>U</u>	20	3
(T) Barium-133	86.7				67.6	67.6							

Laboratory Control Sample (LCS)

(LCS) R4005932-2 11/13/23 17:48

Analyte	Spike Amount pCi/g	LCS Result pCi/g	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.00	5.55	111	80.0-120	
(T) Barium-133			74.5		

L1664280-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1664280-28 11/13/23 17:48 • (MS) R4005932-3 11/13/23 17:48 • (MSD) R4005932-4 11/13/23 17:48

Analyte	Spike Amount pCi/g	Original Result pCi/g	MS Result pCi/g	MSD Result pCi/g	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER %	RPD Limits %
Radium-226	20.0	1.15	24.3	25.2	116	120	1	75.0-125			3.68		20
(T) Barium-133		63.1			70.0	57.1							

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

MDA	Minimum Detectable Activity.	¹ Cp
Rec.	Recovery.	² Tc
RER	Replicate Error Ratio.	³ Ss
RPD	Relative Percent Difference.	⁴ Cn
SDG	Sample Delivery Group.	⁵ Sr
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.	⁶ Qc
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	⁷ GI
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.	⁸ Al
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.	⁹ Sc
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.
U	Below Detectable Limits: Indicates that the analyte was not detected.

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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ Al

⁹ Sc

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

A092

GJ05392

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

U613772

Sample: GJ05392-01
Name: G60S

Sample: 10/31/23 10:27
Matrix: Ground Water
Preservative: HNO3, pH <2

b1

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/13/23 16:00	04/28/24 10:27	
01-Radium 226/228 combined	11/13/23 16:00	04/28/24 10:27	

Sample: GJ05392-02
Name: R61L

Sample: 10/31/23 11:40
Matrix: Ground Water
Preservative: HNO3, pH <2

b2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/13/23 16:00	04/28/24 11:40	
01-Radium 226/228 combined	11/13/23 16:00	04/28/24 11:40	

Sample: GJ05392-03
Name: EB-11

Sample: 10/31/23 14:27
Matrix: DI Water
Preservative: HNO3, pH <2

b3

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/13/23 16:00	04/28/24 14:27	
01-Radium 226/228 combined	11/13/23 16:00	04/28/24 14:27	

01-Radium 226/228 combined

01-Radium 226/228 combined

SUBCONTRACT ORDER
Transfer Chain of Custody
Pace Analytical Services, LLC

GJ05392

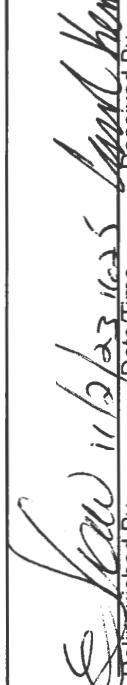
PH-10BDH4321 TRC-23627352
CR6-20221V

CO Seal Present/Intact: Y If Applicable
CO/C Signed Accurate: Y VOA Zero Headspace: Y
Bottles arrive intact: Y Pres. Correct/Check: Y
Correct bottles used: Y Sufficient volume sent: Y
PA Screen <0.5 mR/hr: Y

12.2±0=12.2^{DP}

703 7808 0285 Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 11/12/23 Total # of Containers: 3 Sample Origin (State): K PO #:
Turn-Around Time Requested NORMAL RUSH Date Results Needed:

Relinquished By	Date/Time	Received By	Date/Time	Sample Temperature Upon Receipt	°C
	<u>11/12/23 16:25</u>	<u>Diane Billings</u>	<u>11/13/23 9:10</u>	Sample(s) Received on Ice	<u>N</u>
				Proper Bottles Received in Good Condition	<u>Y or N</u>
				Bottles Filled with Adequate Volume	<u>Y or N</u>
				Samples Received Within Hold Time	<u>Y or N</u>
				Date/Time Taken From Sample Bottle	<u>Y or N</u>

CHAIN-OF-CUSTODY / Analytical Request Document

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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information

Address:	17751 North Cicero Rd Canton, IL 61520	Copy To:	Sam Davies; samantha.davies@vistacorp.com Darryl Johnson; Robert.Johnson@vistacorp.com
Email To:	Brian.Voelker@VistaCorp.com	Purchase Order No:	
Phone:	(217) 753-8911	Project Name:	

Section B Request of Project Number		Section C REGULATORY AGENCY		
Attention:	Brian Voelker	NPDES GROUND WATER DRINKING WATER		
Company Name:	Vista Corp	UST	RCRA	OTHER

ITEM #	SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	VALID MATRIX CODES WATER, WASTE WATER, PRODUCT, CONDUIT, SL, CL, AR, OTHER, OT, TS	COLLECTED DATE	TIME	REQUESTED ANALYSIS FILTERED (Y/N)	
					Preservatives	STATE: IL
1	BA01	10/18/23	13:25	4		
2	BA02	10/18/23	14:34			
3	BA02L					
4	BA03	10/18/23	9:45			
5	BA03L	10/18/23	9:50			
6	BA04	10/18/23	15:40			
7	BA05					
8	BA01 Dup	10/18/23	13:25	4		
9	G02D					
10	G02L					
11	G02S					
12	G03L					
13	G03S					
14	G04L					
15	G06L					
16	G06S					

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
DC-23Q4 Rev 0		<i>Frank R. Huie</i>	<i>10/18/23</i>	<i>17:13</i>	<i>Frank R. Huie</i>	<i>10/18/23</i>	<i>17:13</i>	<i>16:30</i>
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER: <i>Frank R. Huie</i>		DATE Signed (MM/DD/YY): <i>10/18/23</i>				
SIGNATURE OF SAMPLER: <i>Frank R. Huie</i>								
Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)						
Temp in °C								

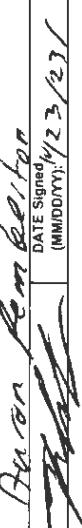
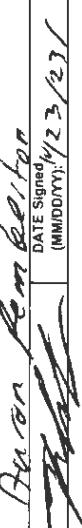
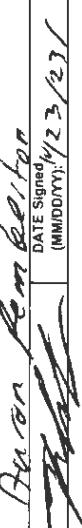
CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information		Section B Required Project Information		Section C Sample Information		Page: 1 of 10	
Company: Vista Corp-Duck Creek		Report To: Brian Voelker		Attention: Brian Voelker			
Address: 17751 North Cllico Rd Canton, IL 61520		Copy To: Sam Davies; samantha.davies@vistacorp.com Daryl Johnson; Robert.Johnson@vistacorp.com		Company Name: Vista Corp Address: see Section A		REGULATORY AGENCY	
Email To: Brian.Voelker@VistaCorp.com Phone: (217) 753-8911 Fax:		Purchase Order No.: Project Name:		Quote Reference: Project Manager: Profile #:		NPDES UST RCRA	GROUND WATER DRINKING WATER OTHER
Requested Due Date/TAT: 10 day		Project Number: 2285				Site Location STATE: IL	650374 ggy
Section D Required Client Information		Valid Matrix Codes CODE		Preservatives		Requested Analysis Filtered (Y/N)	
SAMPLE ID (A-Z, 0-9, "-") Sample ID's MUST BE UNIQUE		MATRIX CODE (see valid codes to left)		Y/N			
ITEM #	ITEM #	COLLECTED					
1	BA01						
2	BA02						
3	BA02L						
4	BA03						
5	BA03L						
6	BA04						
7	BA05	WT G 10/19/23	140				
8	BA06	WT G 10/19/23	130				
9	G02D						
10	G02L						
11	G02S						
12	G03L						
13	G03S						
14	G04L						
15	G06L						
16	G06S						
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
DC-23Q4 Rev 0		Joseph M.	10/19/23	1642	Joseph M.	10/19/23	1642
SAMPLE NAME AND SIGNATURE							
PRINT Name of SAMPLER: Joe Reed		DATE Signed: 10/19/23					
SIGNATURE OF SAMPLER: 							
Temp in °C							
Received on ice (Y/N)							
Custody Sealed Cooler (Y/N)							
Samples Intact (Y/N)							
				SAMPLE CONDITIONS			

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:																																																																																																																																																																																																																																																																																																	
Company: Vistra Corp;Duck Creek Address: 17751 North Ciclo Rd Canton, IL 61520 Email To: Brian.Voelker@VistraCorp.com Phone: (217) 753-8911 Fax: Requested Due Date/TAT: 10 day		Report To: Brian Voelker Copy To: Sam Davies; samantha.davies@vistracorp.com Purchase Order No.: Daryl Johnson; Robert.Johnson@vistracorp.com Project Name: Project Number: 2285		Attention: Brian Voelker Company Name: Vistra Corp Address: see Section A Quote Reference Project Manager Profile #																																																																																																																																																																																																																																																																																																	
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<tr><td>11</td><td>G50S</td><td>10/23/23</td><td>16:09</td><td>5</td><td>2</td></tr> <tr><td>12</td><td>G51L</td><td></td><td></td><td></td><td></td></tr> <tr><td>13</td><td>G51S</td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>G52L</td><td></td><td></td><td></td><td></td></tr> <tr><td>15</td><td>G52S</td><td></td><td></td><td></td><td></td></tr> <tr><td>16</td><td>G53L</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="2">ADDITIONAL COMMENTS</td> <td colspan="2">RELINQUISHED BY / AFFILIATION</td> <td colspan="2">ACCEPTED BY / AFFILIATION</td> </tr> <tr> <td colspan="2">DC-23Q4 Rev 0</td> <td colspan="2">10/23/23 17:39</td> <td colspan="2">10/23/23 17:34</td> </tr> <tr> <td colspan="2">SAMPLER NAME AND SIGNATURE</td> <td colspan="2">DATE</td> <td colspan="2">TIME</td> </tr> <tr> <td colspan="2">PRINT Name of SAMPLER: Brian Voelker</td> <td colspan="2">DATE</td> <td colspan="2">TIME</td> </tr> <tr> <td colspan="2">SIGNATURE of SAMPLER: </td> <td 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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section C

Section A Required Client Information		Section B Required Project Information		Invoice Information:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Address: 17751 North Cicero Rd Canton, IL 61520	Copy To: Sam Davies: samantha.davies@vistracorp.com Daryl Johnson: Robert.Johnson@vistracorp.com	Company Name: Vistra Corp	NPDES	GROUND WATER	DRINKING WATER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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CHAIN-OF-CUSTODY / Analytical Request Document

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Section C

Invoice Information:

Section A Required Client Information:		Section B Required Project Information:		Section C	
Company: Vistra Corp-Duck Creek	Report To: Brian Voelker	Copy To: Sam Davies; samantha.davies@vistracorp.com	REGULATORY AGENCY	NPDES	GROUND WATER
Address: 17751 North Ciclo Rd Canton, IL 61520		Daryl Johnson: Robert.Johnson@vistracorp.com	DRINKING WATER	RCRA	OTHER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Address: see Section A	Site Location:	IL	STATE:
Phone: (217) 753-8911	Fax:	Quote Reference:			
Requested Due Date/TAT:	10 day	Project Name:			
Project Number:	2285	Project Manager Profile #:			
Residual Chlorine (Y/N)					
GJDU132988					
Request Analysis Filtered (Y/N)					
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DC-SUP-000					
DC-CLOSURE-201-202					
DC-845-205					
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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Section B

Required Project Information

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Section B
Required Project Information:

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 10

Section A
Required Client Information

Company: Vistra Corp-Duck Creek
Address: 17751 North Cicero Rd
Canton, IL 61520
Email To: Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911
Fax: 10 day

Report To: Brian Voelker
Copy To: Sam Davies, samantha.davies@vistracorp.com
Daryl Johnson, Robert.Johnson@vistracorp.com
Purchase Order No.:
Project Name:
Project Number: 2285

Section B
Required Project Information:

Section C Invoice Information:	
Attention: Brian Voelker	
Company Name: Vistra Corp	REGULATORY AGENCY
Address: see Section A	NPDES GROUND WATER DRINKING WATER
Okie Reserve Project Manager	UST RCRA OTHER
Site Location: IL	STATE: IL

Section D
Required Client Information

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes CODE MATRIX (WATER, WASTE WATER, SOLVENT, OIL, WIRE, AIR, OTHER TISSUE)	COLLECTED DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)						
									see valid codes to left (G=GRAB C=COMP)	SAMPLE TYPE	DC-257-203	DC-257-204	DC-257-205	DC-811-204	DC-845-201-202
1	BA01					Unpreserved									
2	BA02					H ₂ SO ₄									
3	BA02L					HNO ₃									
4	BA03					HCl									
5	BA03L					NaOH									
6	BA04					Na ₂ S ₂ O ₃									
7	BA05					Methanol									
8	BA06					Other									
9	G02D					Analysis Test									
10	G02L					DC-257-203									
11	G02S					DC-257-204									
12	G03L	WT 10/10/23	1345			DC-257-205									
13	G03S					DC-811-204									
14	GO4L					DC-845-201-202									
15	G06L					DC-845-203									
16	GO6S					DC-845-205									
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS							
DC-23Q4 Rev 0		<i>Brian Voelker</i>	10/10/23	16:14	<i>Brian Voelker</i>	10/10/23	16:14								
SAMPLER NAME AND SIGNATURE		<i>Brian Voelker</i>													
PRINT NAME of SAMPLER:		Brian Voelker													
SIGNATURE of SAMPLER:		<i>Brian Voelker</i>													

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
10/10/23	✓	✓	✓
REMARKS			
Comments			

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Regulatory Information	
Company Address	Vistra Corp-Duck Creek 17751 North Cicero Rd Canton, IL 61520	Report To Copy To	Brian Voelker Sam Davies: samantha.davies@vistracorp.com Daryl Johnson: Robert.Johnson@vistracorp.com	Attn/Ref: Company Name: Address:	Brian Voelker Vistra Corp see Section A
Email To	Brian.Voelker@vistracorp.com	Purchase Order No.		Quote Reference: Project Manager: Phone #/Fax#:	REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER
Phone	(217) 753-8911	Fax:		Project Number:	Site Location STATE: IL
Requested Due Date/TAT:	10 day	Project Name:		Project No./Lab I.D.	
Section D Required Client Information					
SAMPLE ID (A-Z 0-9 -.) Sample IDs MUST BE UNIQUE					
Valid Matrix Codes MATRIX CODE (see valid codes to left) WATER: WT WASTE WATER: WW PRODUCT: P SOLVENT: SL OIL: OL WINE: WP OTHER: OT *SST: TS					
ITEM #	MATRIX CODE	COLLECTED	Preservatives	Y/N	Requested Analysis Filtered (Y/N)
1	G53S				
2	G54L				
3	G54S				
4	G55L				
5	G55S				
6	G56L				
7	G56S	WT 6 10/26/123	11.34	2 X	
8	G57L				
9	G57S	WT 6 10/20/123	1247	5 X	
10	G58L				
11	G58S	WT 6 10/20/123	1332	2 X	
12	G59L				
13	G59S	WT 6 10/20/123	1420	2 X	
14	G60L				
15	G60S				
16	G61S				
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION
DC-23Q4 Rev 0		<i>Person</i>	10/20/123	1614	
SAMPLE CONDITIONS					
SAMPLE NAME AND SIGNATURE PRINT NAME OF SAMPLER: <i>Person</i> SIGNATURE OF SAMPLER: <i>Signature</i> DATE SIGNED (MM/DD/YY): 10/20/123					
Temp in °C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples intact (Y/N)					

for Lac Courteau 11/11/23

Confidential

CHAN-OF-CUSTODY / Analytical Request Document

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

**Section A
Required Client Information:**

Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp-Duck Creek	Report To: Brian Voelker	Attention: Brian Voelker	REGULATORY AGENCY
Address: 17751 North Cicero Rd Canton, IL 61520	Copy To: Sam Davies: samantha.davies@vistracorp.com Daryl Johnson: Robert.Johnson@vistracorp.com	Company Name: Vistra Corp	NPDES UST RCRA
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No:	Address: see Section A	GROUND WATER DRINKING WATER OTHER
Phone: (217) 753-8911	Fax:	Project Name: Project Manager Profile #	
Requested Due Date/TAT: 10 day		Site Location: IL	STATE: IL

Page: 7 of 10

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9, -,) Sample IDs MUST BE UNIQUE	Valid Matrix Codes CODES WATER WASTE WATER PRODUCT SOIL-SOLID OIL WATER AIR OTHER TRASH	COLLECTED DATE TIME	Preservatives Y/N	Requested Analysis Filtered (Y/N)					
					MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)				
1	OR19				Analysis Test	DC-257-203	DC-257-204	DC-257-205	DC-811-204	DC-845-201-202
2	OR20					DC-845-203	DC-845-205	DC-CLOSURE-201-202		DC-SUP-000
3	P01I									DC-WPCP-203-206
4	P01L									
5	P01S									
6	P02S									
7	P04S									
8	P05D									
9	P05L									
10	P05S									
11	P36D									
12	P36L									
13	P36S									
14	P37D									
15	P37L									
16	P38L									
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
DC-23Q4 Rev 0		<i>Brian Voelker</i>	<i>10/12/23</i>	<i>1614</i>	<i>10/12/23</i>	<i>1614</i>	<i>Q22</i>	<i>YC</i>	<i>YC</i>	<i>YC</i>
SAMPLER NAME AND SIGNATURE										
PRINT Name of SAMPLER: <i>Adam Robertson</i>		DATE Signed <i>10/12/23</i>		Temp in C						
SIGNATURE of SAMPLER: <i>Adam Robertson</i>		DATE Signed <i>10/12/23</i>		Received on ice (Y/N)						
				Custody Sealed Cooler (Y/N)						
				Samples Intact (Y/N)						

for Zee Centright 11/11/23

CHAN-OF-CUSTODY / Analytical Request Document

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

Page: 9 of 10

Section A Client Information		Section B Required Project Information		Section C															
				Invoice Information:															
Company: Vistra Corp-Duck Creek		Report To: Brian Voelker		Attention: Brian Voelker															
Address: 17751 North Cicero Rd Canton, IL 61220		Copy To: Sam Davies; samantha.davies@vistracorp.com Daryl Johnson; Robert.Johnson@vistracorp.com		Company Name: Vistra Corp															
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A															
Phone: (217) 753-8911		Fax:		On-site Reference: Location: Manager															
Requested Due Date/TAT: 10 day		Project Number: 2285		Site Location: IL	STATE: IL														
Requested Analysis Filtered (Y/N)																			
ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes CODE		Preservatives															
		MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	Y/N													
1	P57S			SAMPLE TEMP AT COLLECTION															
2	P60			# OF CONTAINERS															
3	P61			Unpreserved															
4	P62			H ₂ SO ₄															
5	P63			HNO ₃															
6	P64			HCl															
7	R10L			NaOH															
8	R11L			Na ₂ S ₂ O ₃															
9	R13L	10/20/23	12:50	Methanol															
10	R61L			Other															
11	R72S			Analysis Test															
12	T43L			DC-257-203															
13	T44L			DC-257-204															
14	T45L			DC-257-205															
15	T46L			DC-811-204															
16	X301			DC-845-201-202															
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	Accepted By / Affiliation														
DC-23Q4 Rev 0		<i>Aaron Voelker</i>	10/20/23	16:14															
SAMPLE CONDITIONS																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">SAMPLER NAME AND SIGNATURE</td> </tr> <tr> <td colspan="2">PRINT Name of SAMPLER: Aaron Voelker</td> </tr> <tr> <td colspan="2">SIGNATURE of SAMPLER: <i>Aaron Voelker</i></td> </tr> <tr> <td>Temp in °C</td> <td>DATE Signed: 10/20/23</td> </tr> <tr> <td>Received on Ice (Y/N)</td> <td>IMMEDIATELY: Y</td> </tr> <tr> <td>Custody Sealed Cooler (Y/N)</td> <td>Y</td> </tr> <tr> <td>Samples Intact (Y/N)</td> <td>Y</td> </tr> </table>						SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER: Aaron Voelker		SIGNATURE of SAMPLER: <i>Aaron Voelker</i>		Temp in °C	DATE Signed: 10/20/23	Received on Ice (Y/N)	IMMEDIATELY: Y	Custody Sealed Cooler (Y/N)	Y	Samples Intact (Y/N)	Y
SAMPLER NAME AND SIGNATURE																			
PRINT Name of SAMPLER: Aaron Voelker																			
SIGNATURE of SAMPLER: <i>Aaron Voelker</i>																			
Temp in °C	DATE Signed: 10/20/23																		
Received on Ice (Y/N)	IMMEDIATELY: Y																		
Custody Sealed Cooler (Y/N)	Y																		
Samples Intact (Y/N)	Y																		

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A

Section B

Section C

Page 10 of 10

Company:	Vistra Corp-Duck Creek	Report To:	Brian Voelker	Attention:	Brian Voelker
Address:	1775 North Cicero Rd Canton, IL 61520	City/Tn:	Sam Davies samantha.davies@vistracorp.com	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com		Darryl Johnson Robert.Johnson@vistracorp.com	Address:	SOC Section A
Phone:	(217) 753-8911	Purchase Order No:		INPUTS:	GROUND WATER
Requested Due Date/MT:	10 day	Project Name:		UST:	DRINKING WATER
	Project Number:	2285	RCRA:	OTHER	
			Site Location:	IL	
			STATE:		

Section D Required for Sampling		ITEM #	
		SAMPLE ID	
(A-Z, 0-9, -)		Sample IDs MUST BE UNIQUE	
		COLLECTED	
		MATRIX CODE	
		MATERIAL	
		PRESERVATIVES	
		SAMPLE TYPE (G=GRAB C=COMP)	
		DATE	
		TIME	
		SAMPLE TEMP AT COLLECTION	
		# OF CONTAINERS	
		Unpreserved	
		H ₂ SO ₄	
		HNO ₃	
		HCl	
		NaOH	
		Na ₂ S ₂ O ₃	
		Methanol	
		Other	
		Analysis Test	
		DC-257-203	
		DC-257-204	
		DC-257-205	
		DC-811-204	
		DC-845-201-202	
		DC-845-203	
		DC-845-205	
		DC-CLOSURE-201-202	
		DC-SUP-000	
		DC-WPCP-203-206	
		Residual Chlorine (Y/N)	
		Project No./Lab ID.	
ADDITIONAL COMMENTS		RElinquished BY / AFFILIATION	
DC-23Q4 Rev 0		DATE	
		TIME	
		ACCEPTED BY / AFFILIATION	
		DATE	
		TIME	
		SAMPLE CONDITIONS	
SAMPLE NAME AND SIGNATURE		PRINT Name of SAMPLER:	
Signature of SAMPLER		DATE Signed (MM/DD/YY)	
Received on Ice (Y/N)		Temp in °C	
Custody Sealed Cooler (Y/N)		Y N Y	
Samples intact (Y/N)			

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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Vistra Corp-Duck Creek 17751 North Cilcon Rd Canton, IL 61520 Email To: Brian.Voelker@VistraCorp.com Phone: (217) 753-8911 Fax:		Report To: Brian Voelker Copy To: Sam Davies; samantha.davies@vistracorp.com Purchase Order No.: Project Name: Project Number: 2285		Attention: Brian Voelker Company Name: Vistra Corp Address: see Section A Currie Reference Project Manager: Profile #:	
#		SAMPLE ID (A-Z, 0-9 / -) Sample Id MUST BE UNIQUE		Project No./Lab I.D.	
ITEM #		Valid Matrix Codes MATRIX CODES DINAMIC WATER DW WATER WW WASTE WATER WT PRODUCT P SOIL SL OIL OL WIPE WP AIR AR OTHER OT Tissue TS		Residual Chlorine (Y/N)	
Section D Required Client Information:		SAMPLE TEMP AT COLLECTION		Requested Analysis Filtered (Y/N)	
Company Address:		# OF CONTAINERS		Analyses Test ↑ Y/N	
		Uppreserved			
		Preservatives			
		Other			
		Methanol			
		HCl			
		HNO ₃			
		H ₂ SO ₄			
		NaOH			
		N ₂ O ₅ O ₃			
		DC-257-203			
		DC-257-204			
		DC-845-201-202			
		DC-845-203			
		DC-845-205			
		DC-CLOSURE-201-202			
		DC-SUP-000			
		DC-WPCP-203-206			
		IL			
Site Location		STATE:			
NPDES		GROUND WATER		DRINKING WATER	
UST		RCRA		OTHER	
REGULATORY AGENCY					
Vistra Corp					
see Section A					
Currie Reference					
Project Manager:					
Profile #:					
REQUERED COMMENTS		REINQUISITION BY / AFFILIATION		ACCEPTED BY / AFFILIATION	
ADDITIONAL COMMENTS		DATE		TIME	
DC-23Q4 Rev 0		10/24/23		16:34	
REQUERED COMMENTS		DATE		TIME	
ADDITIONAL COMMENTS		DATE		TIME	
SAMPLE CONDITIONS		DATE		TIME	
Temp In C		10/24/23		16:34	
Samples (Y/N)		10/24/23		16:34	
Customs Codes (Y/N)		10/24/23		16:34	
Received Date (Y/N)		10/24/23		16:34	
Signature of Sampler:		PRINT Name of Sampler:		SIGNATURE of Sampler:	
Bacon, Peter J.		Peter J. Bacon		10/24/23	
DATE Signed (MM/DD/YY):		DATE Signed (MM/DD/YY):		DATE Signed (MM/DD/YY):	
10/24/23		10/24/23		10/24/23	

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp-Duck Creek	Report To: Brian Voelker	Copy To: Sammy Davies; samantha.davies@vistracorp.com	Project Name: Darryl Johnson; Robert.Johnson@vistracorp.com	Attention: Brian Voelker	Company Name: Vistra Corp
Address: 17751 North Ciclo Rd	Purchase Order No.: Canton, IL 61520	Address: see Section A	Address: see Section A	NPDES USt	REGULATORY AGENCY GROUND WATER DRINKING WATER OTHER
Email To: Brian.Voelker@vistracorp.com	Phone: (217) 753-8911	Reference Project Manager Profile #	Quote Reference Project Manager Profile #	Site Location STATE: IL	RCRA
Requested Due Date/AT: 10 day	Comment Number: 2285	Residual Chlorine (Y/N)			

#	ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	MATRIX TYPE (G=GRAB C=COMP)	SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	Preservatives	Analysts Test	Requested Analysis Filtered (Y/N)		
					COLLECTED	TIME						
1	XTPW02											
2	Field Blank											
3	Effluent Blank #4	47	10/24/23	1530	11	X	X					
4	EFL-11 ED	47	10/24/23	1129	11	X	X					
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION				DATE	TIME
DC-23Q4 Rev 0			Barbara Rombauer		10/24/23	1639	Barbara Rombauer				10/24/23	1639
SAMPLE CONDITIONS												
Temp > C	Received on	Custody Seal	Comments	Print Name of Sampler:	Signature of Sampler:	Date Signed (MM/DD/YY):	Comments	Print Name of Sampler:	Signature of Sampler:	Date Signed (MM/DD/YY):	Comments	

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:					
Company: Vistra Corp-Dock Creek	Report To: Brian Voelker	Address: 1775 North Cicero Rd Canton, IL 61520	Copy To: Sam Davies; samantha.davies@vistracorp.com Daryl Johnson; Robert.Johnson@vistracorp.com	Company Name: Vistra Corp Address: See Section A	REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER				
Email To: Brian.Voelker@vistracorp.com	Purchase Order No.:			Quote Reference: Project Manager Profile #					
Phone: (217) 753-8911	Fax:	Project Name:		Site Location:	STATE: IL				
Requested Due Date/TAT:	10 day	Project Number: 2285							
ITEM #	SAMPLE ID (A-Z, 0-9, /, -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX WATER, WASH, UW, WATER, WASH, UW, PRODUCT, P, SODIUM, S, OR, OX, WP, W, AIR, A, CUT, C, TISSUE, TS	COLLECTED	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	Requested Analysis Filtered (Y/N)			
DATE	TIME	Preservatives		Y/N	Y/N				
SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Analysis Test					
				DC-257-203					
				DC-257-204					
				DC-257-205					
				DC-811-204					
				DC-845-201-202					
				DC-845-203					
				DC-845-205					
				DC-CLOSURE-201-202					
				DC-SUP-000					
				DC-WPCP-203-206					
				Residual Chlorine (Y/N)					
				Project No./Lab I.D.					
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
DC-23Q4 Rev 0			10/25/23	11:56		10/25/23	16:56	Temp in °C	
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER: Brian Voelker		DATE Signed: 10/25/23				Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)
SIGNATURE of SAMPLER:								Samples intact (Y/N)	

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Page: 6 of 10

Section D Required Client Information		Section E Sample Description		Section F Analysis Test		Section G Regulatory Agency	
Company: Vista Corp-Duck Creek		Report To: Brian Voelker		Address: 17751 North Cikoo Rd Canton, IL 61520		REGULATORY AGENCY	
Address: 17751 North Cikoo Rd Canton, IL 61520		Coy To: Sami Daniels, sami.daniels@vistacorp.com		Purchase Order No.: Dary Johnson, Robert.Johnson@vistacorp.com		NPDES GROUND WATER DRINKING WATER OTHER	
Email To: Brian.Voelker@vistacorp.com		Project Name:		Site Location: IL		UST RCRA	
Phone: (217) 753-8911 Fax: 10 day		Project Number: 2285		Phone #		Reference: Project Manager: Phone #	
Requested Analysis Filtered (Y/N)							
ITEM #	SAMPLE ID (A-Z, 0-9, -,) Sample IDs MUST BE UNIQUE	VALID MATRIX CODES CODE	COLLECTED	Preservatives	Y/N	Residual Chlorine (Y/N)	
1	OM23S	DRINKING WATER DW	WT	H ₂ SO ₄	DC-257-203	Project No./Lab I.D.	
2	OM24D	WASTEWATER WW	P	HNO ₃	DC-257-204		
3	OM25D	SCULPTURE SL	OL	HCl	DC-257-205		
4	OM25S	WEATHER WFT	OT	NaOH	DC-811-204		
5	OR02	AIR AIR	TS	Na ₂ S ₂ O ₃	DC-845-201-202		
6	OR03D	OTHER OTHER		Methanol	DC-845-203		
7	OR03S	TISSUE TISSUE		Other	DC-845-205		
8	OR04D	WT 10/25/23	11:37	X X X	DC-CLOSURE-201-202		
9	OR05D				DC-SUP-000		
10	OR06A				DC-WPCP-203-206		
11	OR11						
12	OR13D						
13	OR13S						
14	OR14D	WT 10/25/23	14:20	X X X			
15	OR14S						
16	OR18						
ADDITIONAL COMMENTS		RELINQUISHED BY AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
DC-23Q4 Rev 0			10/25/23	16:56			
SAMPLE CONDITIONS							
SAMPLE NAME AND SIGNATURE							
PRINT Name of SAMPLER: <i>Aaron Remerton</i>							
SIGNATURE OF SAMPLER: <i>Aaron Remerton</i>		DATE Signed (MM/DD/YY): 10/25/23					
Temp in °C		10/25/23 16:56		4.0		N Y	
Received on Ice (Y/N)							
Custody Sealed Cooler (Y/N)							
Samples Intact (Y/N)							

CHAIN-OF-CUSTODY / Analytical Request Document

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Section B

Required Project Information

Section A

CHAIN-OF-CUSTODY / Analytical Request Document

The present paper is intended to give a brief account of the results obtained by the author in his researches on the properties of the various types of organic compounds.

The Chairman's Message is at www.issuu.com/issuucom/docs/the-chairmans-message.

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Section B

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp-Duck Creek	Report To: Brian Voelker	Copy To: Sam Davies : samantha.davies@vistracorp.com	Company Name: Vistra Corp	Invoice Information: Attention: Brian Voelker	REGULATORY AGENCY
Address: 17751 North Cicero Rd Canton, IL 61520		Dary Johnson: Robert.Johnson@vistracorp.com	Address: see Section A		NPDES GROUND WATER DRINKING WATER RCRA OTHER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.: Project Name: Project Number: 2285	Reference: Project Manager: Profile #	Quote Reference: Project Manager: Profile #	Site Location: STATE: IL	G574182A2 3473
Requested Analysis Filtered (Y/N)					
Analysis Test (Y/N)					
Preservatives					
# OF CONTAINERS					
SAMPLE TEMP AT COLLECTION					
COLLECTED					
TIME					
DATE					
MATRIX CODE (see valid codes to left)					
SAMPLE TYPE (G=GRAB C=COMP)					
# OF CONTAINERS					
Unpreserved					
HNO ₃ H ₂ SO ₄					
Other					
NaOH					
HCl					
N ₂ S ₂ O ₃					
Methanol					
DC-811-204					
DC-257-203					
DC-257-204					
DC-257-205					
DC-845-203					
DC-845-205					
DC-CLOSURE-201-202					
DC-SUP-000					
DC-WCP-203-206					
Project No./Lab I.D.					
Temp In °C Received On IC6 (Y/N) Custody Seal(s) Intact (Y/N) Samples Intact (Y/N)					
PRINT Name of SAMPLER: LOAN ROSS SIGNATURE of SAMPLER: 					
DATE Signed (MM/DD): 10/26/23 DATE Signed (MM/DD): 10/26/23					
ADDITIONAL COMMENTS DC-23Q4 Rev 0					
RELINQUISHED BY / AFFILIATION 					
ACCEPTED BY / AFFILIATION 					
DATE TIME DATE TIME SAMPLE CONDITIONS					
10/27/23 11:55 2:00 4 N 4					

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Section B

Required Project Information:

Required Project Information:

Required Client Information:

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Section B

Required Project Information:

Invoice Information:

Company: Vistra Corp-Duck Creek		Report To: Brian Voelker		Attention: Brian Voelker	
Address: 17751 North Cllico Rd		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp	
Canton, IL 61520		Daryl Johnson: Robert.Johnson@vistracorp.com		Address: See Section A	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No:		Quote Reference:	
Phone: (217) 783-8911 Fax: 10 day		Project Name:		Project Manager:	
Requested Due Date/TAT:		Project Number: 2285		Profile #:	
REGULATORY AGENCY					
		NPDES		GROUND WATER DRINKING WATER OTHER	
		UST		RCRA	
		Site Location		STATE: IL	
Residual Chlorine (Y/N)					
CJTDH18U2 S#B					
Project No./Lab I.D.					
Requested Analysis Filtered (Y/N)					
↓ Analysis Test ↓ Y/N					
Preservatives					
# OF CONTAINERS					
SAMPLE TEMP AT COLLECTION					
Unpreserved					
Other					
NaOH					
Na ₂ S ₂ O ₃					
HCl					
HNO ₃					
H ₂ SO ₄					
SAMPLE TYPE (G=GRAB C=COMP) (see Vessel Codes 6 left)					
MATRIX CODE (see Vessel Codes 6 left)					
DATE TIME					
COLLECTED					
Section D Required Client Information					
Valid Matrix Codes					
MATRIX CODE					
CHURCHMAN WATER DW					
WATER W					
WASTE WATER WW					
PRODUCT R					
SOLAROID SL					
OIL O					
WPF WP					
AIR AR					
OTHER OT					
Tissue TS					
SAMPLE ID (A-Z, 0-9, /, -) Sample IDs MUST BE UNIQUE					
# TEST					
1	OM23S				
2	OM24D				
3	OM25D				
4	OM25S				
5	OR02				
6	OR03D				
7	OR03S				
8	OR04D				
9	OR05D				
10	OR06A				
11	OR11				
12	OR13D				
13	OR13S				
14	OR14D				
15	OR14S				
16	OR18				
ADDITIONAL COMMENTS RELINQUISHED BY / AFFILIATION DATE TIME ACCEPTED BY / AFFILIATION DATE TIME SAMPLE CONDITIONS					
DC-23Q4 Rev 0 10/26/13 1645 10/27/13 715 2.0 Y N Y					
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <i>Brian Voelker</i> DATE Shipped IMMEDIATELY: 10/26/13					
SIGNATURE OF SAMPLER: <i>[Signature]</i>					

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Re-gained Project Information:		Section C Invoice Information:	
Company: Vistra Corp-Duck Creek		Report To: Brian Voelker		Attention: Brian Voelker	
Address: 17751 North Cicero Rd		Copy To: Sam Davies; samantha.davies@vistracorp.com		Company Name: Vistra Corp	
Canton, IL 61520		Purchase Order No.: Daryl Johnson: Robert.Johnson@vistracorp.com		Address: see Section A	
Email To: Brian.Voelker@VistraCorp.com		Project Name:		Quote Reference:	
Phone: (217) 753-8911		Project Number: 2285		Project Manager Profile #	
Requested Due Date/TAT: 10 day					
REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER					
Residual Chlorine (Y/N) Site Location STATE: IL 630418C25FB					
Requested Analysis Filtered (Y/N)					
Preservatives Y/N					
Analyst's Test Y/N					
# OF CONTAINERS 0					
SAMPLE TEMP AT COLLECTION TIME					
COLLECTED DATE					
MATRIX CODE (see valid codes in section B) SAMPLE TYPE (G=Ground C=Compt)					
Valid Matrix Codes MATRIX CODE COMPOUND WATER CW WATER W WASTE WATER WW P. P OIL OIL SOLVENT SOL OIL OIL HAZ. HAZ OTHER TH					
SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE					
ITEM #					
1	XTPW02	WT C	10/26/23	1525	
2	* Field Blank				
3	EB-1	Egoflame Blends	WT C	1458	11/1/2023
4	EB-2	ED	WT B	1435	21/1/2023
5	EB-3	ED	WT C	1525	5/1/2023
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
ADDITIONAL COMMENTS					
RELINQUISHED BY / AFFILIATION					
PRINT NAME OF SAMPLER: <u>grace j. vander</u> DATE: <u>10/26/23</u> TIME: <u>1645</u>					
SIGNATURE OF SAMPLER: <u>grace j. vander</u> DATE SIGNED (MM/DD/YY): <u>10/26/23</u>					
SAMPLE CONDITIONS					
TEMP in °C: <u>25</u> TIME: <u>1645</u> ACCEPTED BY / AFFILIATION: <u>grace j. vander</u> DATE: <u>10/27/23</u> TIME: <u>0715</u>					
REASON FOR REJECTION: <u>none</u>					
CUSTOMER COMMENTS: <u>none</u>					
SAMPLE NUMBER (Y/N): <u>N</u> DATE: <u>10/26/23</u> TIME: <u>1645</u>					
TERM IN C: <u>25</u> TIME: <u>1645</u>					
CUSTOMER COMMENTS: <u>none</u>					
SAMPLE NUMBER (Y/N): <u>Y</u> DATE: <u>10/27/23</u> TIME: <u>0715</u>					
TERM IN C: <u>25</u> TIME: <u>0715</u>					

CHAIN-OF-CUSTODY / Analytical Request Document

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

הנִזְקָנָה בְּבֵית־יְהוָה וְבַת־יְהוָה מִצְרָיִם

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<table border="1"> <thead> <tr> <th colspan="2">SAMPLE TEMP AT COLLECTION</th> <th colspan="2"># OF CONTAINERS</th> <th colspan="2">ANALYSIS TEST</th> <th colspan="2">REQUESTED ANALYSIS FILTERED (Y/N)</th> </tr> <tr> <th colspan="2">TIME</th> <th colspan="2">Preservatives</th> <th colspan="2">Y/N</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td colspan="2">10/27/23 13:38</td> <td colspan="2">Sulfuric Acid</td> <td colspan="2">DC-257-203</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">10/27/23 13:54</td> <td colspan="2">Sodium Sulfite</td> <td colspan="2">DC-845-204</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">10/27/23 14:37</td> <td colspan="2">Methanol</td> <td colspan="2">DC-845-205</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">10/27/23 14:37</td> <td colspan="2">Other</td> <td colspan="2">DC-CLOSURE-E-201-202</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">10/27/23 14:37</td> <td colspan="2">HCl</td> <td colspan="2">DC-SUP-000</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">10/27/23 14:37</td> <td colspan="2">NaOH</td> <td colspan="2">DC-WPC-203-206</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">10/27/23 14:37</td> <td colspan="2">HNO₃</td> <td colspan="2">DC-845-201-202</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">10/27/23 14:37</td> <td colspan="2">H₂SO₄</td> <td colspan="2">DC-845-205</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">10/27/23 14:37</td> <td colspan="2">Unpreserved</td> <td colspan="2">DC-257-204</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">10/27/23 14:37</td> <td colspan="2"># OF CONTAINERS</td> <td colspan="2">DC-257-203</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">10/27/23 14:37</td> <td colspan="2">SAMPLE TEMP AT COLLECTION</td> <td colspan="2">DC-845-204</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">10/27/23 14:37</td> <td colspan="2">TIME</td> <td colspan="2">ANALYSIS TEST</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">10/27/23 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AT COLLECTION		DC-845-204				10/27/23 14:37		TIME		ANALYSIS TEST				10/27/23 14:37		Preservatives		Y/N				10/27/23 14:37		COLLECTED						10/27/23 14:37		MATRIX CODE						10/27/23 14:37		DRINKING WATER						10/27/23 14:37		WATER						10/27/23 14:37		WASTE WATER						10/27/23 14:37		PRODUCT						10/27/23 14:37		SOIL/SOLID						10/27/23 14:37		OIL						10/27/23 14:37		WP						10/27/23 14:37		AR						10/27/23 14:37		OT						10/27/23 14:37		TS						10/27/23 14:37		ITEM #						10/27/23 14:37		SAMPLE ID						10/27/23 14:37		(A-Z, 0-9, /, -)						10/27/23 14:37		Sample IDs MUST BE UNIQUE						10/27/23 14:37		TIME						10/27/23 14:37		DATE						10/27/23 14:37		MATRIX CODE						10/27/23 14:37		SAMPLE TYPE (G=GRA & COMP)						10/27/23 14:37		SAMPLE CODE (See Valid Codes 10/16/)						10/27/23 14:37		# OF CONTAINERS						10/27/23 14:37		SAMPLE TEMP AT COLLECTION						10/27/23 14:37		TIME						10/27/23 14:37		Preservatives						10/27/23 14:37		COLLECTED						10/27/23 14:37		MATRIX CODE						10/27/23 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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information	
Company: Vistra Corp-Duck Creek Address: Canton, IL 61520 Email To: Brian.Voelker@VistraCorp.com Phone: (217) 753-8911	Report To: Brian Voelker Copy To: Sam Davies; samantha.davies@vistracorp.com Purchase Order No.: Project Name: Requested Due Date/TAT: 10 day	Attention: Brian Voelker Address: See Section A Quote Reference: Project Manager: Profile #:	REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location STATE: IL Residual Chlorine (Y/N) Requested Analysis Filtered (Y/N)		
SAMPLE TEMP AT COLLECTION # OF CONTAINERS Unpreserved H ₂ SO ₄ , HNO ₃ , HCl Preservatives NaOH, Na ₂ SO ₄ , Methanol, Other Analysts Test Y/N Project No./Lab I.D.					
SAMPLE TYPE (G=GRAIN; C=COMPOUND) MATRIX CODE (see valid codes to left) COLLECTED					
SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		ITEM # DATE TIME			
ITEM # MATRIX CODE (WATER, WASTE, PRODUCT, SOLID, LIQUID, AIR, OTHER, TISSUE)					
ADDITIONAL COMMENTS DC-23Q4 Rev 0		RELINQUISHED BY / AFFILIATION 10/27/23	ACCEPTED BY / AFFILIATION 10/27/23	DATE 10/27/23	TIME 1646
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER:		SAMPLE CONDITIONS Temp in °C: 16.9 Received on: 10/27/23 Custody Sealed (Y/N): Yes Impact (Y/N): N/A Samples (Y/N): N/A			

CHAIN-OF-CUSTODY / Analytical Request Document

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chairman of Committee on Legal Document All relevant facts must be communicated accurately.

Section B

Volume 11 Number 1

SCHLESINGER

Company: Address:	Report To: Brian Voelker		REGULATORY AGENCY		
	Copy To:	Company Name:	NPDES	GROUND WATER	DRINKING WATER
Carillon, IL 61520	Daryl Johnson: Robert.Johnson@vistracorp.com	see Section A	UST	RCPA	OTHER
Email To:	Purchase Order No:	Quote Reference	Site Location	IL	STATE:
Phone:	Project Name:	Project Manager Profile #			
17751 North Cicero Rd	Project Number: 2285				
Vistra Corp-Duck Creek	Requested Due Date/TAT:	10 day			

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp-Dick Creek Address: 17751 North Clico Rd Canton, IL 61520 Email To: Brian.Voelker@VistraCorp.com Phone: (217) 753-8911 Fax: Requested Due Date/TAT: 10 day		Report To: Brian Voelker Copy To: Sam Davies; samantha.davies@vistracorp.com Purchase Order No.: Daryl Johnson; Robert.Johnson@vistracorp.com Project Name: Project Number: 2285		Attention: Brian Voelker Company Name: Vistra Corp Address: See Section A Quote Reference: Project Manager: Profile #	
				REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER RCRA OTHER	
				Site Location STATE: IL	
				Residual Chlorine (Y/N)	
				Requested Analysis Filtered (Y/N)	
				Analyses Test Y/N	
				Preservatives	
				SAMPLE TEMP AT COLLECTION	
				# OF CONTAINERS	
				Uppreserved	
				HNO ₃ H ₂ SO ₄ HCl NaOH Na ₂ S ₂ O ₃ Other	
				Project No./Lab I.D.	
Section D Required Client Information		Valid Matrix Codes MATRIX CODE		COLLECTED	
Sample ID (A-Z, 0-9, -, .) Sample IDs MUST BE UNIQUE		SAMPLE TYPE (G=GRAB C=COMP) (see valid codes to left)		DATE TIME	
ITEM #		MATRIX CODE			
1		P57S			
2		P60			
3		P61			
4		P62			
5		P63			
6		P64			
7		R10L			
8		R11L			
9		R13L			
10		R61L		10/31/23 1140 ✓ X X	
11		R72S			
12		T43L			
13		T44L			
14		T45L			
15		T46L			
16		X301			
				ACCEPTED BY / AFFILIATION	
				DATE TIME	
				SAMPLE CONDITIONS	
				DATE TIME	
ADDITIONAL COMMENTS		RElinquished By / Affiliation		Sample Name and Signature	
DC-23Q4 Rev 0				PRINT Name of Sampler: Brian Voelker Signature of Sampler:	
				RELEASER SIGNATURE: DATE Signed: 10/31/23	
				REC'D BY: DATE: 10/31/23	
				CUSTOMER SIGNATURE: DATE: 10/31/23	
				COOLER SIGNATURE: DATE: 10/31/23	
				SAMPLES MADE (Y/N): <input checked="" type="checkbox"/>	
				RELEASER SIGNATURE: DATE: 10/31/23	

