



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

May 8, 2025

Illinois Environmental Protection Agency
DWPC – Permits MC#15
Attn: Part 845 Coal Combustion Residual Rule Submittal
2520 West Iles Avenue
P.O. Box 19276
Springfield, IL 62794

Re:
Duck Creek Power Plant Gypsum Management Facility (GMF) Pond;
IEPA ID # W0578010001-04

Dear Mr. LeCrone:

In accordance with Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.610(b)(3)(D), Illinois Power Resources Generating, LLC is submitting groundwater monitoring data for the Quarter 1, 2025 sampling event at the Duck Creek Power Plant GMF Pond, identified by Illinois Environmental Protection Agency (IEPA) ID No. W0578010001-04. This data is being submitted and placed in the facility's operating record as required by 35 I.A.C. § 845.800(d)(15) within 60 days of receiving final laboratory analytical data. Results were evaluated for compliance with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine exceedances¹ of the GWPS.

The date of this submittal is considered to be the date that exceedances of the GWPSs were detected. This notification of exceedances of the GWPSs in 35 I.A.C. § 845.600 will be placed in the facility's operating record within 30 days as required by 35 I.A.C. § 845.800(d)(16).

As allowed in 35 I.A.C. § 845.650(e), an Alternative Source Demonstration (ASD) was submitted on November 11, 2023 for the exceedance of the GWPS detected during the Quarter 2, 2023 sampling event. The IEPA provided a written response on December 6, 2023 that did not concur with the ASD. Therefore, a Corrective Measures Assessment was initiated on December 11, 2023 in accordance with 35 I.A.C. § 845.660. The non-concurrence was appealed and on February 15, 2024, the Illinois Pollution Control Board granted a stay on the applicability of 35 I.A.C. § 845.660 as they apply to the exceedance of the pH GWPS at monitoring well G60L. Subsequent to the CMA initiation, a new GWPS exceedance was determined and, as allowed in 35 I.A.C. § 845.650(e), an ASD will be submitted by July 7, 2025 for the exceedance of the cobalt GWPS detected at monitoring well G60L during the Quarter 1, 2025 sampling event.

Sincerely,

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

Dianna Tickner, PE, PMP
Senior Director, Demolition and Decommission

Enclosures

Groundwater Monitoring Data and Detected Exceedances, Quarter 1, 2025, Gypsum Management Facility (GMF) Pond, Duck Creek Power Plant, Canton, Illinois

¹ Throughout this document, "exceedance" or "exceedances" is intended to refer only to potential exceedances of proposed applicable background statistics or Groundwater Protection Standards (GWPSs) as described in the proposed groundwater monitoring program, which was submitted to the IEPA on October 25, 2021 as part of Illinois Power Resources Generating, LLC's operating permit application for Duck Creek Power Plant GMF Pond. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and therefore Illinois Power Resources Generating, LLC has not identified any actual exceedances.

**35 I.A.C. § 845.610(b)(3)(D)
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES¹
QUARTER 1, 2025
GYPSUM MANAGEMENT FACILITY (GMF) POND, DUCK CREEK POWER PLANT,
CANTON, ILLINOIS**

May 8, 2025

Samples were collected and analyzed for the parameters listed in Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.600(a), calcium, and turbidity. Final laboratory analytical data was received on March 9, 2025.

The monitoring well locations are included in **Figure 1. Attachment A** summarizes the groundwater elevation data for the Quarter 1, 2025 sampling event. A piezometric surface elevation cannot be calculated at monitoring location X301; therefore, laser level measurements of the GMF Pond surface are now collected from location XSG01. **Table 1** is a summary of the field parameters and analytical results. **Attachment B** contains the associated laboratory analytical reports and field data sheets for the Quarter 1, 2025 sampling event.

In accordance with 35 I.A.C. § 845.610(b)(3)(C) and the statistical analysis plan submitted with the operating permit application (Appendix A of the Groundwater Monitoring Plan², constituent concentrations observed at compliance monitoring wells in Quarter 1, 2025 were evaluated for compliance with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine exceedances of the GWPS (**Table 2**). **Attachment C** shows the results of the comparison to background levels.

The date of this submittal is considered to be the date that the exceedances were detected.

As allowed in 35 I.A.C. § 845.650(e), an Alternative Source Demonstration³ (ASD) was submitted on November 11, 2023 for the exceedance of the pH GWPS detected at monitoring well G60L during the Quarter 2, 2023 sampling event. The Illinois Environmental Protection Agency (IEPA) provided a written response on December 6, 2023⁴ that did not concur with the ASD. Therefore, a Corrective Measures Assessment was initiated on December 11, 2023 in accordance with 35 I.A.C. § 845.660. The non-concurrence was appealed, and on February 15, 2024 the Illinois Pollution Control Board granted a stay on the applicability of 35 I.A.C. § 845.660 as they apply to the exceedance of the pH GWPS at monitoring well G60L. Subsequent to the CMA initiation, a new GWPS exceedance was determined and, as allowed in 35

¹ Throughout this document, "exceedance" or "exceedances" is intended to refer only to potential exceedances of proposed applicable background statistics or Groundwater Protection Standards (GWPSs) as described in the proposed groundwater monitoring program, which was submitted to the IEPA on October 25, 2021 as part of Illinois Power Resources Generating, LLC's operating permit application for Duck Creek Power Plant GMF Pond. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and therefore Illinois Power Resources Generating, LLC has not identified any actual exceedances.

² Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan. Gypsum Management Facility Pond. Duck Creek Power Plant. Canton, Illinois.* October 25, 2021.

³ Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2023. 35 I.A.C. § 845.650(e): *Alternative Source Demonstration, Gypsum Management Facility Pond, Duck Creek Power Plant, Canton, IL, IEPA ID: W0578010001-04.* November 11, 2023.

⁴ Illinois Environmental Protection Agency (IEPA), 2023. *Letter from Michael Summers (IEPA) to Dianne Tickner (Electric Energy, Inc.): Re: Duck Creek Power Plant GMF Pond; W0578010001-04, Alternative Source Demonstration (ASD) Submittal.* December 6, 2023

I.A.C. § 845.650(e), an ASD will be submitted by July 7, 2025 for the exceedance of the cobalt GWPS detected at monitoring well G60L during the Quarter 1, 2025 sampling event.

TABLES

Table 1	Field Parameters and Analytical Results - Quarter 1, 2025
Table 2	Evaluation of Compliance - Quarter 1, 2025

FIGURES

Figure 1	Monitoring Well Location Map
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ATTACHMENTS

Attachment A	Groundwater Elevation Data - Quarter 1, 2025
Attachment B	Laboratory Reports and Field Data Sheets - Quarter 1, 2025
Attachment C	Comparison to Background - Quarter 1, 2025

TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2025
845 QUARTERLY REPORT
DUCK CREEK POWER PLANT
GMF POND
CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G02S	Background	E008	01/16/2025	Antimony, total	0.00043 U	mg/L
G02S	Background	E008	01/16/2025	Arsenic, total	0.00680	mg/L
G02S	Background	E008	01/16/2025	Barium, total	0.190	mg/L
G02S	Background	E008	01/16/2025	Beryllium, total	0.00059 U	mg/L
G02S	Background	E008	01/16/2025	Boron, total	0.0420	mg/L
G02S	Background	E008	01/16/2025	Cadmium, total	0.00074 U	mg/L
G02S	Background	E008	01/16/2025	Calcium, total	96.0	mg/L
G02S	Background	E008	01/16/2025	Chloride, total	2.60 J-	mg/L
G02S	Background	E008	01/16/2025	Chromium, total	0.0028 U	mg/L
G02S	Background	E008	01/16/2025	Cobalt, total	0.00048 U	mg/L
G02S	Background	E008	01/16/2025	Dissolved Oxygen	7.60	mg/L
G02S	Background	E008	01/16/2025	Fluoride, total	0.317	mg/L
G02S	Background	E008	01/16/2025	Lead, total	0.00022 U	mg/L
G02S	Background	E008	01/16/2025	Lithium, total	0.005 U	mg/L
G02S	Background	E008	01/16/2025	Mercury, total	0.00014 U	mg/L
G02S	Background	E008	01/16/2025	Molybdenum, total	0.00074 U	mg/L
G02S	Background	E008	01/16/2025	Oxidation Reduction Potential	281	mV
G02S	Background	E008	01/16/2025	pH (field)	7.0	SU
G02S	Background	E008	01/16/2025	Radium 226 + Radium 228, total	0.435	pCi/L
G02S	Background	E008	01/16/2025	Selenium, total	0.00074 U	mg/L
G02S	Background	E008	01/16/2025	Specific Conductance @ 25C (field)	753	micromhos/cm
G02S	Background	E008	01/16/2025	Sulfate, total	0.13 U	mg/L
G02S	Background	E008	01/16/2025	Temperature	11.0	degrees C
G02S	Background	E008	01/16/2025	Thallium, total	0.00038 U	mg/L
G02S	Background	E008	01/16/2025	Total Dissolved Solids	380 J	mg/L
G02S	Background	E008	01/16/2025	Turbidity, field	17.0	NTU
G50S	Background	E008	01/22/2025	Antimony, total	0.00043 U	mg/L
G50S	Background	E008	01/22/2025	Arsenic, total	0.00069 U	mg/L
G50S	Background	E008	01/22/2025	Barium, total	0.0670	mg/L
G50S	Background	E008	01/22/2025	Beryllium, total	0.00059 U	mg/L
G50S	Background	E008	01/22/2025	Boron, total	0.0160	mg/L
G50S	Background	E008	01/22/2025	Cadmium, total	0.00074 U	mg/L
G50S	Background	E008	01/22/2025	Calcium, total	90.0	mg/L
G50S	Background	E008	01/22/2025	Chloride, total	15.0	mg/L
G50S	Background	E008	01/22/2025	Chromium, total	0.0028 U	mg/L
G50S	Background	E008	01/22/2025	Cobalt, total	0.00048 U	mg/L
G50S	Background	E008	01/22/2025	Dissolved Oxygen	1.40	mg/L
G50S	Background	E008	01/22/2025	Fluoride, total	0.252	mg/L
G50S	Background	E008	01/22/2025	Lead, total	0.00022 U	mg/L
G50S	Background	E008	01/22/2025	Lithium, total	0.005 U	mg/L
G50S	Background	E008	01/22/2025	Mercury, total	0.00014 U	mg/L
G50S	Background	E008	01/22/2025	Molybdenum, total	0.00092 J	mg/L
G50S	Background	E008	01/22/2025	Oxidation Reduction Potential	-80.0	mV
G50S	Background	E008	01/22/2025	pH (field)	7.2	SU
G50S	Background	E008	01/22/2025	Radium 226 + Radium 228, total	0.87	pCi/L
G50S	Background	E008	01/22/2025	Selenium, total	0.00074 U	mg/L

TABLE 1.
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845 QUARTERLY REPORT
DUCK CREEK POWER PLANT
GMF POND
CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G50S	Background	E008	01/22/2025	Specific Conductance @ 25C (field)	466	micromhos/cm
G50S	Background	E008	01/22/2025	Sulfate, total	44.0	mg/L
G50S	Background	E008	01/22/2025	Temperature	6.80	degrees C
G50S	Background	E008	01/22/2025	Thallium, total	0.00038 U	mg/L
G50S	Background	E008	01/22/2025	Total Dissolved Solids	360	mg/L
G50S	Background	E008	01/22/2025	Turbidity, field	0	NTU
G51S	Background	E008	01/22/2025	Antimony, total	0.00043 U	mg/L
G51S	Background	E008	01/22/2025	Arsenic, total	0.00290	mg/L
G51S	Background	E008	01/22/2025	Barium, total	0.100	mg/L
G51S	Background	E008	01/22/2025	Beryllium, total	0.00059 U	mg/L
G51S	Background	E008	01/22/2025	Boron, total	0.0130	mg/L
G51S	Background	E008	01/22/2025	Cadmium, total	0.00074 U	mg/L
G51S	Background	E008	01/22/2025	Calcium, total	96.0	mg/L
G51S	Background	E008	01/22/2025	Chloride, total	17.0	mg/L
G51S	Background	E008	01/22/2025	Chromium, total	0.0028 U	mg/L
G51S	Background	E008	01/22/2025	Cobalt, total	0.00048 U	mg/L
G51S	Background	E008	01/22/2025	Dissolved Oxygen	1.10	mg/L
G51S	Background	E008	01/22/2025	Fluoride, total	0.222	mg/L
G51S	Background	E008	01/22/2025	Lead, total	0.00150	mg/L
G51S	Background	E008	01/22/2025	Lithium, total	0.005 U	mg/L
G51S	Background	E008	01/22/2025	Mercury, total	0.00014 U	mg/L
G51S	Background	E008	01/22/2025	Molybdenum, total	0.00110	mg/L
G51S	Background	E008	01/22/2025	Oxidation Reduction Potential	-131	mV
G51S	Background	E008	01/22/2025	pH (field)	7.1	SU
G51S	Background	E008	01/22/2025	Radium 226 + Radium 228, total	2.21	pCi/L
G51S	Background	E008	01/22/2025	Selenium, total	0.00074 U	mg/L
G51S	Background	E008	01/22/2025	Specific Conductance @ 25C (field)	537	micromhos/cm
G51S	Background	E008	01/22/2025	Sulfate, total	68.0	mg/L
G51S	Background	E008	01/22/2025	Temperature	5.00	degrees C
G51S	Background	E008	01/22/2025	Thallium, total	0.00038 U	mg/L
G51S	Background	E008	01/22/2025	Total Dissolved Solids	400	mg/L
G51S	Background	E008	01/22/2025	Turbidity, field	0	NTU
G54L	Compliance	E008	01/20/2025	Antimony, total	0.00043 U	mg/L
G54L	Compliance	E008	01/20/2025	Arsenic, total	0.00550	mg/L
G54L	Compliance	E008	01/20/2025	Barium, total	0.210	mg/L
G54L	Compliance	E008	01/20/2025	Beryllium, total	0.00059 U	mg/L
G54L	Compliance	E008	01/20/2025	Boron, total	0.0130	mg/L
G54L	Compliance	E008	01/20/2025	Cadmium, total	0.00074 U	mg/L
G54L	Compliance	E008	01/20/2025	Calcium, total	200	mg/L
G54L	Compliance	E008	01/20/2025	Chloride, total	61.0	mg/L
G54L	Compliance	E008	01/20/2025	Chromium, total	0.0028 U	mg/L
G54L	Compliance	E008	01/20/2025	Cobalt, total	0.0011 J	mg/L
G54L	Compliance	E008	01/20/2025	Dissolved Oxygen	3.00	mg/L
G54L	Compliance	E008	01/20/2025	Fluoride, total	0.235	mg/L
G54L	Compliance	E008	01/20/2025	Lead, total	0.00029	mg/L
G54L	Compliance	E008	01/20/2025	Lithium, total	0.005 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2025
845 QUARTERLY REPORT
DUCK CREEK POWER PLANT
GMF POND
CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G54L	Compliance	E008	01/20/2025	Mercury, total	0.00014 U	mg/L
G54L	Compliance	E008	01/20/2025	Molybdenum, total	0.00120	mg/L
G54L	Compliance	E008	01/20/2025	Oxidation Reduction Potential	-73.0	mV
G54L	Compliance	E008	01/20/2025	pH (field)	6.6	SU
G54L	Compliance	E008	01/20/2025	Radium 226 + Radium 228, total	1.31	pCi/L
G54L	Compliance	E008	01/20/2025	Selenium, total	0.00074 U	mg/L
G54L	Compliance	E008	01/20/2025	Specific Conductance @ 25C (field)	1,190	micromhos/cm
G54L	Compliance	E008	01/20/2025	Sulfate, total	110	mg/L
G54L	Compliance	E008	01/20/2025	Temperature	9.60	degrees C
G54L	Compliance	E008	01/20/2025	Thallium, total	0.00038 U	mg/L
G54L	Compliance	E008	01/20/2025	Total Dissolved Solids	930	mg/L
G54L	Compliance	E008	01/20/2025	Turbidity, field	0	NTU
G54S	Compliance	E008	01/30/2025	Antimony, total	0.00043 U	mg/L
G54S	Compliance	E008	01/30/2025	Arsenic, total	0.00360	mg/L
G54S	Compliance	E008	01/30/2025	Barium, total	0.210	mg/L
G54S	Compliance	E008	01/30/2025	Beryllium, total	0.00059 U	mg/L
G54S	Compliance	E008	01/30/2025	Boron, total	0.0320	mg/L
G54S	Compliance	E008	01/30/2025	Cadmium, total	0.00074 U	mg/L
G54S	Compliance	E008	01/30/2025	Calcium, total	130	mg/L
G54S	Compliance	E008	01/30/2025	Chloride, total	6.20	mg/L
G54S	Compliance	E008	01/30/2025	Chromium, total	0.0028 U	mg/L
G54S	Compliance	E008	01/30/2025	Cobalt, total	0.00049 J	mg/L
G54S	Compliance	E008	01/30/2025	Dissolved Oxygen	1.60	mg/L
G54S	Compliance	E008	01/30/2025	Fluoride, total	0.2 U	mg/L
G54S	Compliance	E008	01/30/2025	Lead, total	0.00062 J	mg/L
G54S	Compliance	E008	01/30/2025	Lithium, total	0.0079	mg/L
G54S	Compliance	E008	01/30/2025	Mercury, total	0.00014 U	mg/L
G54S	Compliance	E008	01/30/2025	Molybdenum, total	0.00097 J	mg/L
G54S	Compliance	E008	01/30/2025	Oxidation Reduction Potential	-120	mV
G54S	Compliance	E008	01/30/2025	pH (field)	6.8	SU
G54S	Compliance	E008	01/30/2025	Radium 226 + Radium 228, total	0.469	pCi/L
G54S	Compliance	E008	01/30/2025	Selenium, total	0.00074 U	mg/L
G54S	Compliance	E008	01/30/2025	Specific Conductance @ 25C (field)	1,010	micromhos/cm
G54S	Compliance	E008	01/30/2025	Sulfate, total	29.0	mg/L
G54S	Compliance	E008	01/30/2025	Temperature	11.2	degrees C
G54S	Compliance	E008	01/30/2025	Thallium, total	0.00038 U	mg/L
G54S	Compliance	E008	01/30/2025	Total Dissolved Solids	520	mg/L
G54S	Compliance	E008	01/30/2025	Turbidity, field	150	NTU
G57S	Compliance	E008	01/22/2025	Antimony, total	0.00043 U	mg/L
G57S	Compliance	E008	01/22/2025	Arsenic, total	0.00076 J	mg/L
G57S	Compliance	E008	01/22/2025	Barium, total	0.210	mg/L
G57S	Compliance	E008	01/22/2025	Beryllium, total	0.00059 U	mg/L
G57S	Compliance	E008	01/22/2025	Boron, total	0.0089 J	mg/L
G57S	Compliance	E008	01/22/2025	Cadmium, total	0.00074 U	mg/L
G57S	Compliance	E008	01/22/2025	Calcium, total	180	mg/L
G57S	Compliance	E008	01/22/2025	Chloride, total	22.0	mg/L

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FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2025
845 QUARTERLY REPORT
DUCK CREEK POWER PLANT
GMF POND
CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G57S	Compliance	E008	01/22/2025	Chromium, total	0.003 J	mg/L
G57S	Compliance	E008	01/22/2025	Cobalt, total	0.0017 J	mg/L
G57S	Compliance	E008	01/22/2025	Dissolved Oxygen	2.30	mg/L
G57S	Compliance	E008	01/22/2025	Fluoride, total	0.245	mg/L
G57S	Compliance	E008	01/22/2025	Lead, total	0.00230	mg/L
G57S	Compliance	E008	01/22/2025	Lithium, total	0.005 U	mg/L
G57S	Compliance	E008	01/22/2025	Mercury, total	0.00014 U	mg/L
G57S	Compliance	E008	01/22/2025	Molybdenum, total	0.00120	mg/L
G57S	Compliance	E008	01/22/2025	Oxidation Reduction Potential	87.0	mV
G57S	Compliance	E008	01/22/2025	pH (field)	7.0	SU
G57S	Compliance	E008	01/22/2025	Radium 226 + Radium 228, total	0.00812	pCi/L
G57S	Compliance	E008	01/22/2025	Selenium, total	0.00074 U	mg/L
G57S	Compliance	E008	01/22/2025	Specific Conductance @ 25C (field)	954	micromhos/cm
G57S	Compliance	E008	01/22/2025	Sulfate, total	52.0	mg/L
G57S	Compliance	E008	01/22/2025	Temperature	9.90	degrees C
G57S	Compliance	E008	01/22/2025	Thallium, total	0.00038 U	mg/L
G57S	Compliance	E008	01/22/2025	Total Dissolved Solids	800	mg/L
G57S	Compliance	E008	01/22/2025	Turbidity, field	0	NTU
G60L	Compliance	E008	01/30/2025	Antimony, total	0.00043 U	mg/L
G60L	Compliance	E008	01/30/2025	Arsenic, total	0.00093 J	mg/L
G60L	Compliance	E008	01/30/2025	Barium, total	0.0600	mg/L
G60L	Compliance	E008	01/30/2025	Beryllium, total	0.00059 U	mg/L
G60L	Compliance	E008	01/30/2025	Boron, total	0.0290	mg/L
G60L	Compliance	E008	01/30/2025	Cadmium, total	0.00074 U	mg/L
G60L	Compliance	E008	01/30/2025	Calcium, total	100	mg/L
G60L	Compliance	E008	01/30/2025	Chloride, total	9.20	mg/L
G60L	Compliance	E008	01/30/2025	Chromium, total	0.0028 U	mg/L
G60L	Compliance	E008	01/30/2025	Cobalt, total	0.0320	mg/L
G60L	Compliance	E008R	03/26/2025	Cobalt, total	0.00850	mg/L
G60L	Compliance	E008	01/30/2025	Dissolved Oxygen	1.40	mg/L
G60L	Compliance	E008R	03/26/2025	Dissolved Oxygen	0	mg/L
G60L	Compliance	E008	01/30/2025	Fluoride, total	0.2 U	mg/L
G60L	Compliance	E008	01/30/2025	Lead, total	0.00190	mg/L
G60L	Compliance	E008	01/30/2025	Lithium, total	0.005 U	mg/L
G60L	Compliance	E008	01/30/2025	Mercury, total	0.00014 U	mg/L
G60L	Compliance	E008	01/30/2025	Molybdenum, total	0.00100	mg/L
G60L	Compliance	E008	01/30/2025	Oxidation Reduction Potential	111	mV
G60L	Compliance	E008R	03/26/2025	Oxidation Reduction Potential	144	mV
G60L	Compliance	E008	01/30/2025	pH (field)	6.2	SU
G60L	Compliance	E008R	03/26/2025	pH (field)	6.4	SU
G60L	Compliance	E008	01/30/2025	Radium 226 + Radium 228, total	0.936	pCi/L
G60L	Compliance	E008	01/30/2025	Selenium, total	0.00074 U	mg/L
G60L	Compliance	E008	01/30/2025	Specific Conductance @ 25C (field)	932	micromhos/cm
G60L	Compliance	E008R	03/26/2025	Specific Conductance @ 25C (field)	615	micromhos/cm
G60L	Compliance	E008	01/30/2025	Sulfate, total	170	mg/L
G60L	Compliance	E008	01/30/2025	Temperature	10.4	degrees C

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2025
845 QUARTERLY REPORT
DUCK CREEK POWER PLANT
GMF POND
CANTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G60L	Compliance	E008R	03/26/2025	Temperature	12.3	degrees C
G60L	Compliance	E008	01/30/2025	Thallium, total	0.00038 U	mg/L
G60L	Compliance	E008	01/30/2025	Total Dissolved Solids	460	mg/L
G60L	Compliance	E008	01/30/2025	Turbidity, field	897	NTU
G60L	Compliance	E008R	03/26/2025	Turbidity, field	43.5	NTU
G60S	Compliance	E008	01/30/2025	Antimony, total	0.00043 U	mg/L
G60S	Compliance	E008	01/30/2025	Arsenic, total	0.00360	mg/L
G60S	Compliance	E008	01/30/2025	Barium, total	0.170	mg/L
G60S	Compliance	E008	01/30/2025	Beryllium, total	0.00059 U	mg/L
G60S	Compliance	E008	01/30/2025	Boron, total	0.0180	mg/L
G60S	Compliance	E008	01/30/2025	Cadmium, total	0.00074 U	mg/L
G60S	Compliance	E008	01/30/2025	Calcium, total	140	mg/L
G60S	Compliance	E008	01/30/2025	Chloride, total	5.10	mg/L
G60S	Compliance	E008	01/30/2025	Chromium, total	0.00490	mg/L
G60S	Compliance	E008	01/30/2025	Cobalt, total	0.0017 J	mg/L
G60S	Compliance	E008	01/30/2025	Dissolved Oxygen	0.910	mg/L
G60S	Compliance	E008	01/30/2025	Fluoride, total	0.212	mg/L
G60S	Compliance	E008	01/30/2025	Lead, total	0.00380	mg/L
G60S	Compliance	E008	01/30/2025	Lithium, total	0.0081	mg/L
G60S	Compliance	E008	01/30/2025	Mercury, total	0.00014 U	mg/L
G60S	Compliance	E008	01/30/2025	Molybdenum, total	0.00180	mg/L
G60S	Compliance	E008	01/30/2025	Oxidation Reduction Potential	-62.0	mV
G60S	Compliance	E008	01/30/2025	pH (field)	6.7	SU
G60S	Compliance	E008	01/30/2025	Radium 226 + Radium 228, total	1.22	pCi/L
G60S	Compliance	E008	01/30/2025	Selenium, total	0.00074 U	mg/L
G60S	Compliance	E008	01/30/2025	Specific Conductance @ 25C (field)	1,030	micromhos/cm
G60S	Compliance	E008	01/30/2025	Sulfate, total	73.0	mg/L
G60S	Compliance	E008	01/30/2025	Temperature	10.7	degrees C
G60S	Compliance	E008	01/30/2025	Thallium, total	0.00038 U	mg/L
G60S	Compliance	E008	01/30/2025	Total Dissolved Solids	540	mg/L
G60S	Compliance	E008	01/30/2025	Turbidity, field	1,000 >	NTU
G64L	Compliance	E008	01/15/2025	Antimony, total	0.00043 U	mg/L
G64L	Compliance	E008	01/15/2025	Arsenic, total	0.00069 U	mg/L
G64L	Compliance	E008	01/15/2025	Barium, total	0.0980	mg/L
G64L	Compliance	E008	01/15/2025	Beryllium, total	0.00059 U	mg/L
G64L	Compliance	E008	01/15/2025	Boron, total	0.0120	mg/L
G64L	Compliance	E008	01/15/2025	Cadmium, total	0.00074 U	mg/L
G64L	Compliance	E008	01/15/2025	Calcium, total	120	mg/L
G64L	Compliance	E008	01/15/2025	Chloride, total	3.20	mg/L
G64L	Compliance	E008	01/15/2025	Chromium, total	0.0028 U	mg/L
G64L	Compliance	E008	01/15/2025	Cobalt, total	0.00048 U	mg/L
G64L	Compliance	E008	01/15/2025	Dissolved Oxygen	3.00	mg/L
G64L	Compliance	E008	01/15/2025	Fluoride, total	0.305	mg/L
G64L	Compliance	E008	01/15/2025	Lead, total	0.00073 J	mg/L
G64L	Compliance	E008	01/15/2025	Lithium, total	0.005 U	mg/L
G64L	Compliance	E008	01/15/2025	Mercury, total	0.00014 U	mg/L

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Well ID	Well Type	Event	Date	Parameter	Result	Unit
G64L	Compliance	E008	01/15/2025	Molybdenum, total	0.00100	mg/L
G64L	Compliance	E008	01/15/2025	Oxidation Reduction Potential	141	mV
G64L	Compliance	E008	01/15/2025	pH (field)	6.8	SU
G64L	Compliance	E008	01/15/2025	Radium 226 + Radium 228, total	1.48	pCi/L
G64L	Compliance	E008	01/15/2025	Selenium, total	0.00074 U	mg/L
G64L	Compliance	E008	01/15/2025	Specific Conductance @ 25C (field)	687	micromhos/cm
G64L	Compliance	E008	01/15/2025	Sulfate, total	47.0	mg/L
G64L	Compliance	E008	01/15/2025	Temperature	7.80	degrees C
G64L	Compliance	E008	01/15/2025	Thallium, total	0.00038 U	mg/L
G64L	Compliance	E008	01/15/2025	Total Dissolved Solids	520	mg/L
G64L	Compliance	E008	01/15/2025	Turbidity, field	38.4	NTU
G64S	Compliance	E008	01/09/2025	Antimony, total	0.00043 U	mg/L
G64S	Compliance	E008	01/09/2025	Arsenic, total	0.00069 J	mg/L
G64S	Compliance	E008	01/09/2025	Barium, total	0.160	mg/L
G64S	Compliance	E008	01/09/2025	Beryllium, total	0.00059 U	mg/L
G64S	Compliance	E008	01/09/2025	Boron, total	0.0170	mg/L
G64S	Compliance	E008	01/09/2025	Cadmium, total	0.00074 U	mg/L
G64S	Compliance	E008	01/09/2025	Calcium, total	95.0	mg/L
G64S	Compliance	E008	01/09/2025	Chloride, total	3.80	mg/L
G64S	Compliance	E008	01/09/2025	Chromium, total	0.0028 U	mg/L
G64S	Compliance	E008	01/09/2025	Cobalt, total	0.00048 U	mg/L
G64S	Compliance	E008	01/09/2025	Dissolved Oxygen	2.80	mg/L
G64S	Compliance	E008	01/09/2025	Fluoride, total	0.269	mg/L
G64S	Compliance	E008	01/09/2025	Lead, total	0.00022 U	mg/L
G64S	Compliance	E008	01/09/2025	Lithium, total	0.005 U	mg/L
G64S	Compliance	E008	01/09/2025	Mercury, total	0.00014 U	mg/L
G64S	Compliance	E008	01/09/2025	Molybdenum, total	0.00130	mg/L
G64S	Compliance	E008	01/09/2025	Oxidation Reduction Potential	-71.0	mV
G64S	Compliance	E008	01/09/2025	pH (field)	6.8	SU
G64S	Compliance	E008	01/09/2025	Radium 226 + Radium 228, total	0.571	pCi/L
G64S	Compliance	E008	01/09/2025	Selenium, total	0.00074 U	mg/L
G64S	Compliance	E008	01/09/2025	Specific Conductance @ 25C (field)	535	micromhos/cm
G64S	Compliance	E008	01/09/2025	Sulfate, total	25.0	mg/L
G64S	Compliance	E008	01/09/2025	Temperature	8.60	degrees C
G64S	Compliance	E008	01/09/2025	Thallium, total	0.00038 U	mg/L
G64S	Compliance	E008	01/09/2025	Total Dissolved Solids	380	mg/L
G64S	Compliance	E008	01/09/2025	Turbidity, field	0	NTU

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Notes:

C = Celsius
cm = centimeter
Events:

E008 = Quarter 1, 2025 sampling event
E008R = Quarter 1, 2025 resampling event

mg/L = milligrams per liter
mV = millivolts
NTU = Nephelometric Turbidity Units
pCi/L = picocuries per liter
Result Code (if applicable):

NR¹ = Parameter not analyzed.
NS¹ = Well has been, or will be, abandoned; therefore, a sample was not collected.
NS² = Well either needs or was undergoing maintenance; therefore, a sample was not collected.
NS³ = The location was not accessible; therefore, a sample was not collected.
NS⁴ = The location could not be found; therefore, a sample was not collected.
NS⁵ = The location was damaged; therefore, a sample was not collected.
NS⁶ = Sampling pump could not yield a sample.
NS⁷ = Well was either dry or purged dry and did not recover sufficiently to yield adequate volume for a sample.
NS⁸ = A sample was not collected.
PM¹ = Parameter not analyzed as the well purged dry during sample collection and did not sufficiently recover to yield adequate sample volume for analysis.

Result qualifiers as defined in the United States Environmental Protection Agency’s *National Functional Guidelines for Inorganic Superfund Methods Data Review*, EPA 542-R-20-006. November 2020.:
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.
U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.
SU = Standard Units

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 1, 2025
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GMF POND
CANTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G54L	PMP	E008	Antimony, total	mg/L	04/14/21 - 01/20/25	16	100	All ND - Last	0.003	0.006	Standard	No Exceedance
G54L	PMP	E008	Arsenic, total	mg/L	04/14/21 - 01/20/25	16	0	CB around linear reg	-0.00252	0.010	Standard	No Exceedance
G54L	PMP	E008	Barium, total	mg/L	04/14/21 - 01/20/25	16	0	CI around mean	0.176	2.0	Standard	No Exceedance
G54L	PMP	E008	Beryllium, total	mg/L	04/14/21 - 01/20/25	16	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G54L	PMP	E008	Boron, total	mg/L	04/14/21 - 01/20/25	17	16	CI around geomean	0.0138	2	Standard	No Exceedance
G54L	PMP	E008	Cadmium, total	mg/L	04/14/21 - 01/20/25	16	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G54L	PMP	E008	Chloride, total	mg/L	04/14/21 - 01/20/25	17	0	CB around linear reg	51.1	200	Standard	No Exceedance
G54L	PMP	E008	Chromium, total	mg/L	04/14/21 - 01/20/25	16	94	CI around median	0.004	0.1	Standard	No Exceedance
G54L	PMP	E008	Cobalt, total	mg/L	04/14/21 - 01/20/25	16	62	CB around T-S line	-0.00038	0.006	Standard	No Exceedance
G54L	PMP	E008	Fluoride, total	mg/L	04/14/21 - 01/20/25	17	88	CI around median	0.25	4.0	Standard	No Exceedance
G54L	PMP	E008	Lead, total	mg/L	04/14/21 - 01/20/25	16	89	Most recent sample	0.001	0.0150	Background	No Exceedance
G54L	PMP	E008	Lithium, total	mg/L	04/14/21 - 01/20/25	16	100	All ND - Last	0.02	0.04	Standard	No Exceedance
G54L	PMP	E008	Mercury, total	mg/L	04/14/21 - 01/20/25	16	94	CI around median	0.0002	0.002	Standard	No Exceedance
G54L	PMP	E008	Molybdenum, total	mg/L	04/14/21 - 01/20/25	16	56	CI around median	0.001	0.1	Standard	No Exceedance
G54L	PMP	E008	pH (field)	SU	04/14/21 - 01/20/25	23	0	CI around median	6.5/6.6	6.5/9.0	Standard/Standard	No Exceedance
G54L	PMP	E008	Radium 226 + Radium 228, total	pCi/L	04/14/21 - 01/20/25	16	0	CI around mean	0.39	5	Standard	No Exceedance
G54L	PMP	E008	Selenium, total	mg/L	04/14/21 - 01/20/25	16	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G54L	PMP	E008	Sulfate, total	mg/L	04/14/21 - 01/20/25	17	0	CB around linear reg	105	400	Standard	No Exceedance
G54L	PMP	E008	Thallium, total	mg/L	04/14/21 - 01/20/25	16	100	All ND - Last	0.001	0.002	Standard	No Exceedance
G54L	PMP	E008	Total Dissolved Solids	mg/L	04/14/21 - 01/20/25	23	0	CB around linear reg	812	1,200	Standard	No Exceedance
G54S	UA	E008	Antimony, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.003	0.006	Standard	No Exceedance
G54S	UA	E008	Arsenic, total	mg/L	12/04/15 - 01/30/25	16	20	CI around geomean	0.00105	0.010	Standard	No Exceedance
G54S	UA	E008	Barium, total	mg/L	12/04/15 - 01/30/25	16	0	CI around mean	0.211	2.0	Standard	No Exceedance
G54S	UA	E008	Beryllium, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G54S	UA	E008	Boron, total	mg/L	12/04/15 - 01/30/25	30	0	CI around mean	0.0315	2	Standard	No Exceedance
G54S	UA	E008	Cadmium, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G54S	UA	E008	Chloride, total	mg/L	12/04/15 - 01/30/25	28	9	CI around geomean	2.27	200	Standard	No Exceedance

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GMF POND
CANTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G54S	UA	E008	Chromium, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.004	0.1	Standard	No Exceedance
G54S	UA	E008	Cobalt, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.002	0.006	Standard	No Exceedance
G54S	UA	E008	Fluoride, total	mg/L	12/04/15 - 01/30/25	29	80	CI around median	0.25	4.0	Standard	No Exceedance
G54S	UA	E008	Lead, total	mg/L	12/04/15 - 01/30/25	16	96	CI around median	0.001	0.0150	Background	No Exceedance
G54S	UA	E008	Lithium, total	mg/L	12/04/15 - 01/30/25	16	81	CB around T-S line	0.01	0.04	Standard	No Exceedance
G54S	UA	E008	Mercury, total	mg/L	12/04/15 - 01/30/25	16	88	CI around median	0.0002	0.002	Standard	No Exceedance
G54S	UA	E008	Molybdenum, total	mg/L	12/04/15 - 01/30/25	16	19	CB around linear reg	0.000762	0.1	Standard	No Exceedance
G54S	UA	E008	pH (field)	SU	12/04/15 - 01/30/25	38	0	CB around T-S line	6.6/6.7	6.5/9.0	Standard/Standard	No Exceedance
G54S	UA	E008	Radium 226 + Radium 228, total	pCi/L	12/04/15 - 01/30/25	16	0	CI around geomean	0.506	5	Standard	No Exceedance
G54S	UA	E008	Selenium, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G54S	UA	E008	Sulfate, total	mg/L	12/04/15 - 01/30/25	28	0	CB around T-S line	29.1	400	Standard	No Exceedance
G54S	UA	E008	Thallium, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.001	0.002	Standard	No Exceedance
G54S	UA	E008	Total Dissolved Solids	mg/L	12/04/15 - 01/30/25	36	0	CI around mean	517	1,200	Standard	No Exceedance
G57S	UA	E008	Antimony, total	mg/L	12/04/15 - 01/22/25	16	94	CI around median	0.003	0.006	Standard	No Exceedance
G57S	UA	E008	Arsenic, total	mg/L	12/04/15 - 01/22/25	16	92	Most recent sample	0.001	0.010	Standard	No Exceedance
G57S	UA	E008	Barium, total	mg/L	12/04/15 - 01/22/25	16	0	CB around linear reg	0.179	2.0	Standard	No Exceedance
G57S	UA	E008	Beryllium, total	mg/L	12/04/15 - 01/22/25	16	94	CI around median	0.001	0.004	Standard	No Exceedance
G57S	UA	E008	Boron, total	mg/L	12/04/15 - 01/22/25	29	45	CI around median	0.01	2	Standard	No Exceedance
G57S	UA	E008	Cadmium, total	mg/L	12/04/15 - 01/22/25	16	94	CI around median	0.001	0.005	Standard	No Exceedance
G57S	UA	E008	Chloride, total	mg/L	12/04/15 - 01/22/25	29	2	CI around median	18	200	Standard	No Exceedance
G57S	UA	E008	Chromium, total	mg/L	12/04/15 - 01/22/25	16	94	Most recent sample	0.004	0.1	Standard	No Exceedance
G57S	UA	E008	Cobalt, total	mg/L	12/04/15 - 01/22/25	16	94	Most recent sample	0.002	0.006	Standard	No Exceedance
G57S	UA	E008	Fluoride, total	mg/L	12/04/15 - 01/22/25	30	42	CI around median	0.25	4.0	Standard	No Exceedance
G57S	UA	E008	Lead, total	mg/L	12/04/15 - 01/22/25	16	76	CI around median	0.001	0.0150	Background	No Exceedance
G57S	UA	E008	Lithium, total	mg/L	12/04/15 - 01/22/25	16	100	All ND - Last	0.02	0.04	Standard	No Exceedance
G57S	UA	E008	Mercury, total	mg/L	12/04/15 - 01/22/25	16	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G57S	UA	E008	Molybdenum, total	mg/L	12/04/15 - 01/22/25	16	88	CI around median	0.001	0.1	Standard	No Exceedance

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G57S	UA	E008	pH (field)	SU	12/04/15 - 01/22/25	36	0	CB around linear reg	6.5/6.8	6.5/9.0	Standard/Standard	No Exceedance
G57S	UA	E008	Radium 226 + Radium 228, total	pCi/L	12/04/15 - 01/22/25	16	0	CI around mean	0.24	5	Standard	No Exceedance
G57S	UA	E008	Selenium, total	mg/L	12/04/15 - 01/22/25	16	94	Most recent sample	0.001	0.05	Standard	No Exceedance
G57S	UA	E008	Sulfate, total	mg/L	12/04/15 - 01/22/25	28	0	CB around linear reg	46.2	400	Standard	No Exceedance
G57S	UA	E008	Thallium, total	mg/L	12/04/15 - 01/22/25	16	94	CI around median	0.001	0.002	Standard	No Exceedance
G57S	UA	E008	Total Dissolved Solids	mg/L	12/04/15 - 01/22/25	36	0	CB around linear reg	813	1,200	Standard	No Exceedance
G60L	PMP	E008	Antimony, total	mg/L	04/14/21 - 01/30/25	16	100	All ND - Last	0.003	0.006	Standard	No Exceedance
G60L	PMP	E008	Arsenic, total	mg/L	04/14/21 - 01/30/25	16	94	CI around median	0.001	0.010	Standard	No Exceedance
G60L	PMP	E008	Barium, total	mg/L	04/14/21 - 01/30/25	16	0	CB around linear reg	0.0286	2.0	Standard	No Exceedance
G60L	PMP	E008	Beryllium, total	mg/L	04/14/21 - 01/30/25	16	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G60L	PMP	E008	Boron, total	mg/L	04/14/21 - 01/30/25	17	0	CI around geomean	0.0258	2	Standard	No Exceedance
G60L	PMP	E008	Cadmium, total	mg/L	04/14/21 - 01/30/25	16	94	CI around median	0.001	0.005	Standard	No Exceedance
G60L	PMP	E008	Chloride, total	mg/L	04/14/21 - 01/30/25	17	0	CB around linear reg	5.29	200	Standard	No Exceedance
G60L	PMP	E008	Chromium, total	mg/L	04/14/21 - 01/30/25	16	88	CI around median	0.004	0.1	Standard	No Exceedance
G60L	PMP	E008	Cobalt, total	mg/L	04/14/21 - 01/30/25	17	12	CB around linear reg	0.00689	0.006	Standard	Exceedance
G60L	PMP	E008R	Cobalt, total	mg/L	04/14/21 - 03/26/25	18	11	CB around linear reg	0.00626	0.006	Standard	Exceedance
G60L	PMP	E008	Fluoride, total	mg/L	04/14/21 - 01/30/25	17	100	All ND - Last	0.25	4.0	Standard	No Exceedance
G60L	PMP	E008	Lead, total	mg/L	04/14/21 - 01/30/25	16	81	CI around median	0.001	0.0150	Background	No Exceedance
G60L	PMP	E008	Lithium, total	mg/L	04/14/21 - 01/30/25	16	100	All ND - Last	0.02	0.04	Standard	No Exceedance
G60L	PMP	E008	Mercury, total	mg/L	04/14/21 - 01/30/25	16	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G60L	PMP	E008	Molybdenum, total	mg/L	04/14/21 - 01/30/25	16	94	Most recent sample	0.001	0.1	Standard	No Exceedance
G60L	PMP	E008	pH (field)	SU	04/14/21 - 01/30/25	24	0	CI around median	6.0/6.2	6.5/9.0	Standard/Standard	Exceedance
G60L	PMP	E008R	pH (field)	SU	04/14/21 - 03/26/25	25	0	CI around median	6.0/6.2	6.5/9.0	Standard/Standard	Exceedance
G60L	PMP	E008	Radium 226 + Radium 228, total	pCi/L	04/14/21 - 01/30/25	16	0	CI around mean	0.365	5	Standard	No Exceedance
G60L	PMP	E008	Selenium, total	mg/L	04/14/21 - 01/30/25	16	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G60L	PMP	E008	Sulfate, total	mg/L	04/14/21 - 01/30/25	17	6	CI around mean	155	400	Standard	No Exceedance
G60L	PMP	E008	Thallium, total	mg/L	04/14/21 - 01/30/25	16	100	All ND - Last	0.001	0.002	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 1, 2025
845 QUARTERLY REPORT
DUCK CREEK POWER PLANT
GMF POND
CANTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G60L	PMP	E008	Total Dissolved Solids	mg/L	04/14/21 - 01/30/25	23	0	CI around mean	536	1,200	Standard	No Exceedance
G60S	UA	E008	Antimony, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.003	0.006	Standard	No Exceedance
G60S	UA	E008	Arsenic, total	mg/L	12/04/15 - 01/30/25	16	12	CI around geomean	0.00128	0.010	Standard	No Exceedance
G60S	UA	E008	Barium, total	mg/L	12/04/15 - 01/30/25	16	0	CI around mean	0.148	2.0	Standard	No Exceedance
G60S	UA	E008	Beryllium, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G60S	UA	E008	Boron, total	mg/L	12/04/15 - 01/30/25	31	8	CI around geomean	0.0168	2	Standard	No Exceedance
G60S	UA	E008	Cadmium, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G60S	UA	E008	Chloride, total	mg/L	12/04/15 - 01/30/25	29	2	CB around T-S line	3.65	200	Standard	No Exceedance
G60S	UA	E008	Chromium, total	mg/L	12/04/15 - 01/30/25	16	50	CI around median	0.004	0.1	Standard	No Exceedance
G60S	UA	E008	Cobalt, total	mg/L	12/04/15 - 01/30/25	16	75	CI around median	0.002	0.006	Standard	No Exceedance
G60S	UA	E008	Fluoride, total	mg/L	12/04/15 - 01/30/25	30	53	CB around T-S line	0.207	4.0	Standard	No Exceedance
G60S	UA	E008	Lead, total	mg/L	12/04/15 - 01/30/25	16	33	CI around median	0.001	0.0150	Background	No Exceedance
G60S	UA	E008	Lithium, total	mg/L	12/04/15 - 01/30/25	16	81	CB around T-S line	0.01	0.04	Standard	No Exceedance
G60S	UA	E008	Mercury, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G60S	UA	E008	Molybdenum, total	mg/L	12/04/15 - 01/30/25	16	44	CI around median	0.001	0.1	Standard	No Exceedance
G60S	UA	E008	pH (field)	SU	12/04/15 - 01/30/25	37	0	CI around mean	6.7/6.8	6.5/9.0	Standard/Standard	No Exceedance
G60S	UA	E008	Radium 226 + Radium 228, total	pCi/L	12/04/15 - 01/30/25	16	0	CI around geomean	0.836	5	Standard	No Exceedance
G60S	UA	E008	Selenium, total	mg/L	12/04/15 - 01/30/25	16	88	CI around median	0.001	0.05	Standard	No Exceedance
G60S	UA	E008	Sulfate, total	mg/L	12/04/15 - 01/30/25	30	0	CI around median	67	400	Standard	No Exceedance
G60S	UA	E008	Thallium, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.001	0.002	Standard	No Exceedance
G60S	UA	E008	Total Dissolved Solids	mg/L	12/04/15 - 01/30/25	37	0	CI around median	560	1,200	Standard	No Exceedance
G64L	PMP	E008	Antimony, total	mg/L	05/15/23 - 01/15/25	8	100	All ND - Last	0.003	0.006	Standard	No Exceedance
G64L	PMP	E008	Arsenic, total	mg/L	05/15/23 - 01/15/25	8	57	CI around median	0.001	0.010	Standard	No Exceedance
G64L	PMP	E008	Barium, total	mg/L	05/15/23 - 01/15/25	8	0	CI around mean	0.0923	2.0	Standard	No Exceedance
G64L	PMP	E008	Beryllium, total	mg/L	05/15/23 - 01/15/25	8	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G64L	PMP	E008	Boron, total	mg/L	01/11/23 - 01/15/25	9	27	CI around geomean	0.00852	2	Standard	No Exceedance
G64L	PMP	E008	Cadmium, total	mg/L	05/15/23 - 01/15/25	8	100	All ND - Last	0.001	0.005	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 1, 2025
845 QUARTERLY REPORT
DUCK CREEK POWER PLANT
GMF POND
CANTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G64L	PMP	E008	Chloride, total	mg/L	01/11/23 - 01/15/25	9	7	CI around mean	1.94	200	Standard	No Exceedance
G64L	PMP	E008	Chromium, total	mg/L	05/15/23 - 01/15/25	8	75	CI around median	0.004	0.1	Standard	No Exceedance
G64L	PMP	E008	Cobalt, total	mg/L	05/15/23 - 01/15/25	8	100	All ND - Last	0.002	0.006	Standard	No Exceedance
G64L	PMP	E008	Fluoride, total	mg/L	01/11/23 - 01/15/25	9	44	CI around median	0.25	4.0	Standard	No Exceedance
G64L	PMP	E008	Lead, total	mg/L	05/15/23 - 01/15/25	8	57	CI around median	0.001	0.0150	Background	No Exceedance
G64L	PMP	E008	Lithium, total	mg/L	05/15/23 - 01/15/25	8	100	All ND - Last	0.02	0.04	Standard	No Exceedance
G64L	PMP	E008	Mercury, total	mg/L	05/15/23 - 01/15/25	8	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G64L	PMP	E008	Molybdenum, total	mg/L	05/15/23 - 01/15/25	8	38	CI around mean	0.000893	0.1	Standard	No Exceedance
G64L	PMP	E008	pH (field)	SU	05/21/21 - 01/15/25	16	0	CI around median	6.8/7.0	6.5/9.0	Standard/Standard	No Exceedance
G64L	PMP	E008	Radium 226 + Radium 228, total	pCi/L	05/15/23 - 01/15/25	8	0	CI around mean	0.217	5	Standard	No Exceedance
G64L	PMP	E008	Selenium, total	mg/L	05/15/23 - 01/15/25	8	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G64L	PMP	E008	Sulfate, total	mg/L	01/11/23 - 01/15/25	9	0	CI around mean	27.3	400	Standard	No Exceedance
G64L	PMP	E008	Thallium, total	mg/L	05/15/23 - 01/15/25	8	100	All ND - Last	0.001	0.002	Standard	No Exceedance
G64L	PMP	E008	Total Dissolved Solids	mg/L	05/21/21 - 01/15/25	16	0	CI around mean	555	1,200	Standard	No Exceedance
G64S	UA	E008	Antimony, total	mg/L	12/04/15 - 01/09/25	16	94	CI around median	0.003	0.006	Standard	No Exceedance
G64S	UA	E008	Arsenic, total	mg/L	12/04/15 - 01/09/25	16	20	CB around linear reg	0.0000672	0.010	Standard	No Exceedance
G64S	UA	E008	Barium, total	mg/L	12/04/15 - 01/09/25	16	0	CI around mean	0.162	2.0	Standard	No Exceedance
G64S	UA	E008	Beryllium, total	mg/L	12/04/15 - 01/09/25	16	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G64S	UA	E008	Boron, total	mg/L	12/04/15 - 01/09/25	29	3	CI around geomean	0.0152	2	Standard	No Exceedance
G64S	UA	E008	Cadmium, total	mg/L	12/04/15 - 01/09/25	16	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G64S	UA	E008	Chloride, total	mg/L	12/04/15 - 01/09/25	28	4	CB around T-S line	2.57	200	Standard	No Exceedance
G64S	UA	E008	Chromium, total	mg/L	12/04/15 - 01/09/25	16	94	CI around median	0.004	0.1	Standard	No Exceedance
G64S	UA	E008	Cobalt, total	mg/L	12/04/15 - 01/09/25	16	100	All ND - Last	0.002	0.006	Standard	No Exceedance
G64S	UA	E008	Fluoride, total	mg/L	12/04/15 - 01/09/25	30	23	CI around mean	0.287	4.0	Standard	No Exceedance
G64S	UA	E008	Lead, total	mg/L	12/04/15 - 01/09/25	16	52	CB around T-S line	-0.00114	0.0150	Background	No Exceedance
G64S	UA	E008	Lithium, total	mg/L	12/04/15 - 01/09/25	16	100	All ND - Last	0.02	0.04	Standard	No Exceedance
G64S	UA	E008	Mercury, total	mg/L	12/04/15 - 01/09/25	16	100	All ND - Last	0.0002	0.002	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 1, 2025
845 QUARTERLY REPORT
DUCK CREEK POWER PLANT
GMF POND
CANTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G64S	UA	E008	Molybdenum, total	mg/L	12/04/15 - 01/09/25	16	12	CI around mean	0.0011	0.1	Standard	No Exceedance
G64S	UA	E008	pH (field)	SU	12/04/15 - 01/09/25	37	0	CI around median	6.8/7.0	6.5/9.0	Standard/Standard	No Exceedance
G64S	UA	E008	Radium 226 + Radium 228, total	pCi/L	12/04/15 - 01/09/25	16	0	CI around mean	0.558	5	Standard	No Exceedance
G64S	UA	E008	Selenium, total	mg/L	12/04/15 - 01/09/25	16	94	CI around median	0.001	0.05	Standard	No Exceedance
G64S	UA	E008	Sulfate, total	mg/L	12/04/15 - 01/09/25	28	0	CB around linear reg	20.7	400	Standard	No Exceedance
G64S	UA	E008	Thallium, total	mg/L	12/04/15 - 01/09/25	16	100	All ND - Last	0.001	0.002	Standard	No Exceedance
G64S	UA	E008	Total Dissolved Solids	mg/L	12/04/15 - 01/09/25	35	0	CI around median	420	1,200	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 1, 2025
845 QUARTERLY REPORT
DUCK CREEK POWER PLANT
GMF POND
CANTON, IL

Notes:

Compliance Result:

No Exceedance: the statistical result did not exceed the GWPS.

Exceedance: The statistical result exceeded the GWPS.

Throughout this document, “exceedance” or “exceedances” is intended to refer only to potential exceedances of proposed applicable background statistics or Groundwater Protection Standards (GWPSs) as described in the proposed groundwater monitoring program which was submitted to the Illinois Environmental Protection Agency (IEPA) on October 25, 2021 as part of Illinois Power Resources Generating, LLC’s (IPRG’s) operating permit application for the GMF Pond. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and, therefore, IPRG has not identified any actual exceedances.

Events:

E008 = Quarter 1, 2025 sampling event

E008R = Quarter 1, 2025 resampling event

HSU = hydrostratigraphic unit:

PMP = Potential Migration Pathway

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result

Statistical Calculation = method used to calculate the statistical result:

All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown

CB around T-S line = Confidence band around Thiel-Sen line

CB around T-S line = Confidence band around Thiel-Sen line

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

Most recent sample = Result for the most recently collected sample used due to insufficient data

Statistical Result = calculated in accordance with the Statistical Analysis Plan using constituent concentrations observed at each monitoring well during all sampling events within the specified date range

Statistical Result Code (if applicable):

NR¹ = Parameter not analyzed.

NS¹ = Well has been, or will be, abandoned; therefore, a sample was not collected.

NS² = Well either needs or was undergoing maintenance; therefore, a sample was not collected.

NS³ = The location was not accessible; therefore, a sample was not collected.

NS⁴ = The location could not be found; therefore, a sample was not collected.

NS⁵ = The location was damaged; therefore, a sample was not collected.

NS⁶ = Sampling pump could not yield a sample.

NS⁷ = Well was either dry or purged dry and did not recover sufficiently to yield adequate volume for a sample.

NS⁸ = A sample was not collected.

PM¹ = Parameter not analyzed as the well purged dry during sample collection and did not sufficiently recover to yield adequate sample volume for analysis.

For pH, the values presented are the lower / upper limits

GWPS Source:

Background = background concentration

Standard = standard specified in 35 I.A.C. § 845.600(a)(1)

FIGURES



- BACKGROUND WELL
- COMPLIANCE WELL
- SOURCE SAMPLE LOCATION
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- PROPERTY BOUNDARY

0 150 300
Feet

MONITORING WELL LOCATION MAP

FIGURE 1

GYPSUM MANAGEMENT FACILITY (GMF) POND
DUCK CREEK POWER PLANT
CANTON, ILLINOIS

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



ATTACHMENTS

**ATTACHMENT A
GROUNDWATER ELEVATION DATA
QUARTER 1, 2025**

ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 1, 2025
845 QUARTERLY REPORT
DUCK CREEK POWER PLANT
GMF POND
CANTON, IL

Well ID	Well Type	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
G02S	Background	01/06/2025	7.99	613.80
G50S	Background	01/06/2025	13.50	610.10
G51S	Background	01/06/2025	13.19	606.16
G54L	Compliance	01/06/2025	27.54	595.32
G54S	Compliance	01/06/2025	28.50	594.45
G57S	Compliance	01/06/2025	25.03	597.54
G60L	Compliance	01/06/2025	20.39	594.87
G60S	Compliance	01/06/2025	25.86	589.01
G64L	Compliance	01/06/2025	24.83	597.69
G64S	Compliance	01/06/2025	25.81	597.23
X301	Water Level	01/06/2025	3.71	NA
XSG01	Water Level	01/24/2025	[29.40]	[590.73]

Notes:
BMP = below measuring point
Bracketing [] indicates that the measurement was obtained outside of the 24-hour period from initiation of depth to groundwater measurements.
Depth to Groundwater/Groundwater Elevation Code (if applicable):
DM¹ = Depth to water was not measured.
DM² = Depth to water was not measured because water was above or below the staff gage markings.
DM³ = Depth to water was not measured because the location was inaccessible.
DM⁴ = Depth to water was not measured because water level was below the top of the pump.
DM⁵ = Depth to water was not measured because water level was above the top of casing (artesian well).
DM⁶ = Depth to water was not measured because of damage to the well.
DM⁷ = Depth to water was not measured due to required pressure transducer maintenance.
DM⁸ = Lab provided groundwater elevation data and not depth to water.
NA = not available/not applicable
NAVD88 = North American Vertical Datum of 1988

**ATTACHMENT B
LABORATORY REPORTS AND FIELD DATA SHEETS
QUARTER 1, 2025**

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL



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

March 09, 2025

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

Case Narrative

G65L, G72L, OM101S and P37L were dry and could not be sampled. There was no way access to X301.
Original report was sent 2/13/25. Revised report providing updated temperature reading for BA02 L was sent 2/25.

ANALYTICAL RESULTS

Sample: IA01454-07
Name: G64S
Matrix: Ground Water - Grab

Sampled: 01/09/25 15:56
Received: 01/09/25 16:54

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	3.8	mg/L		01/10/25 18:12	1	1.0	01/10/25 18:12	JSM	EPA 300.0 REV 2.1
Fluoride	0.269	mg/L		01/10/25 18:12	1	0.250	01/10/25 18:12	JSM	EPA 300.0 REV 2.1
Sulfate	25	mg/L	Q4	01/10/25 18:31	5	5.0	01/10/25 18:31	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	25.63	Feet		01/09/25 15:56	1		01/09/25 15:56	FIELD	Field*
Dissolved oxygen, Field	2.8	mg/L		01/09/25 15:56	1		01/09/25 15:56	FIELD	Field*
Oxidation Reduction Potential	-71.0	mV		01/09/25 15:56	1	-500	01/09/25 15:56	FIELD	Field*
pH, Field Measured	6.80	pH Units		01/09/25 15:56	1		01/09/25 15:56	FIELD	Field*
Specific Conductance, Field Measured	535.0	umhos/cm		01/09/25 15:56	1		01/09/25 15:56	FIELD	Field*
Temperature, Field Measured	8.6	°C		01/09/25 15:56	1		01/09/25 15:56	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		01/09/25 15:56	1	0.00	01/09/25 15:56	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	380	mg/L		01/13/25 08:57	1	10	01/13/25 08:57	CFM	SM 2320 B-2011*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		01/13/25 08:57	1	10	01/13/25 08:57	CFM	SM 2320 B-2011*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	380	mg/L		01/10/25 10:26	1	26	01/13/25 00:00	ENH	SM 2540 C-2011
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/13/25 09:17	5	3.0	01/15/25 13:48	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		01/13/25 09:17	5	1.0	01/15/25 13:48	TJJ	EPA 6020A
Barium	160	ug/L		01/13/25 09:17	5	1.0	01/15/25 13:48	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		01/13/25 09:17	5	1.0	01/15/25 13:48	TJJ	EPA 6020A
Boron	17	ug/L		01/13/25 09:17	5	10	01/15/25 13:48	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		01/13/25 09:17	5	1.0	01/15/25 13:48	TJJ	EPA 6020A
Calcium	95	mg/L		01/13/25 09:17	5	0.20	01/15/25 13:48	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		01/13/25 09:17	5	4.0	01/15/25 13:48	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		01/13/25 09:17	5	2.0	01/15/25 13:48	TJJ	EPA 6020A
Lead	< 1.0	ug/L		01/13/25 09:17	5	1.0	01/15/25 13:48	TJJ	EPA 6020A
Magnesium	44	mg/L		01/13/25 09:17	5	0.10	01/15/25 13:48	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		01/13/25 09:17	5	0.20	01/15/25 13:48	TJJ	EPA 6020A
Molybdenum	1.3	ug/L		01/13/25 09:17	5	1.0	01/16/25 13:14	TJJ	EPA 6020A
Potassium	0.57	mg/L		01/13/25 09:17	5	0.10	01/15/25 13:48	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: IA01454-07

Name: G64S

Matrix: Ground Water - Grab

Sampled: 01/09/25 15:56

Received: 01/09/25 16:54

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/13/25 09:17	5	1.0	01/15/25 13:48	TJJ	EPA 6020A
Sodium	14	mg/L		01/13/25 09:17	5	0.10	01/15/25 13:48	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		01/13/25 09:17	5	1.0	01/15/25 13:48	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		01/13/25 09:17	1	0.020	01/14/25 10:12	TJJ	EPA 6010B

ANALYTICAL RESULTS

Sample: IA02353-06
Name: G64L
Matrix: Ground Water - Grab

Sampled: 01/15/25 12:10
Received: 01/15/25 17:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	3.2	mg/L		01/16/25 19:17	1	1.0	01/16/25 19:17	JSM	EPA 300.0 REV 2.1
Fluoride	0.305	mg/L		01/16/25 19:17	1	0.250	01/16/25 19:17	JSM	EPA 300.0 REV 2.1
Sulfate	47	mg/L		01/16/25 19:37	5	5.0	01/16/25 19:37	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	24.69	Feet		01/15/25 12:10	1		01/15/25 12:10	FIELD	Field*
Dissolved oxygen, Field	3.0	mg/L		01/15/25 12:10	1		01/15/25 12:10	FIELD	Field*
Oxidation Reduction Potential	141	mV		01/15/25 12:10	1	-500	01/15/25 12:10	FIELD	Field*
pH, Field Measured	6.79	pH Units		01/15/25 12:10	1		01/15/25 12:10	FIELD	Field*
Specific Conductance, Field Measured	687.0	umhos/cm		01/15/25 12:10	1		01/15/25 12:10	FIELD	Field*
Temperature, Field Measured	7.8	°C		01/15/25 12:10	1		01/15/25 12:10	FIELD	Field*
Turbidity, Field Measured	38.4	NTU		01/15/25 12:10	1	0.00	01/15/25 12:10	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	500	mg/L		01/27/25 09:03	1	10	01/27/25 09:03	CFM	SM 2320 B-2011*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		01/27/25 09:03	1	10	01/27/25 09:03	CFM	SM 2320 B-2011*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	520	mg/L		01/17/25 09:27	1	26	01/20/25 00:00	CFM	SM 2540 C-2011
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/16/25 07:54	5	3.0	01/21/25 17:20	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		01/16/25 07:54	5	1.0	01/21/25 17:20	TJJ	EPA 6020A
Barium	98	ug/L		01/16/25 07:54	5	1.0	01/21/25 17:20	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		01/16/25 07:54	5	1.0	01/23/25 13:40	TJJ	EPA 6020A
Boron	12	ug/L		01/16/25 07:54	5	10	01/23/25 13:40	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		01/16/25 07:54	5	1.0	01/21/25 17:20	TJJ	EPA 6020A
Calcium	120	mg/L		01/16/25 07:54	5	0.20	01/21/25 17:20	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		01/16/25 07:54	5	4.0	01/21/25 17:20	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		01/16/25 07:54	5	2.0	01/21/25 17:20	TJJ	EPA 6020A
Lead	< 1.0	ug/L		01/16/25 07:54	5	1.0	01/21/25 17:20	TJJ	EPA 6020A
Magnesium	69	mg/L		01/16/25 07:54	5	0.10	01/21/25 17:20	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		01/16/25 07:54	5	0.20	01/21/25 17:20	TJJ	EPA 6020A
Molybdenum	1.0	ug/L		01/16/25 07:54	5	1.0	01/21/25 17:20	TJJ	EPA 6020A
Potassium	0.25	mg/L		01/16/25 07:54	5	0.10	01/21/25 17:20	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: IA02353-06

Name: G64L

Matrix: Ground Water - Grab

Sampled: 01/15/25 12:10

Received: 01/15/25 17:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/16/25 07:54	5	1.0	01/21/25 17:20	TJJ	EPA 6020A
Sodium	7.9	mg/L		01/16/25 07:54	5	0.10	01/21/25 17:20	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		01/16/25 07:54	5	1.0	01/21/25 17:20	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		01/16/25 07:54	1	0.020	01/16/25 12:20	TJJ	EPA 6010B

ANALYTICAL RESULTS

Sample: IA02625-01
Name: G02S
Matrix: Ground Water - Grab

Sampled: 01/16/25 16:00
Received: 01/16/25 17:16

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	2.6	mg/L	Q3	01/21/25 15:18	1	1.0	01/21/25 15:18	TMS	EPA 300.0 REV 2.1
Fluoride	0.317	mg/L		01/21/25 15:18	1	0.250	01/21/25 15:18	TMS	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		01/20/25 12:36	1	1.0	01/20/25 12:36	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	8.2	Feet		01/16/25 16:00	1		01/16/25 16:00	FIELD	Field*
Dissolved oxygen, Field	7.6	mg/L		01/16/25 16:00	1		01/16/25 16:00	FIELD	Field*
Oxidation Reduction Potential	281	mV		01/16/25 16:00	1	-500	01/16/25 16:00	FIELD	Field*
pH, Field Measured	7.04	pH Units		01/16/25 16:00	1		01/16/25 16:00	FIELD	Field*
Specific Conductance, Field Measured	753.0	umhos/cm		01/16/25 16:00	1		01/16/25 16:00	FIELD	Field*
Temperature, Field Measured	11.0	°C		01/16/25 16:00	1		01/16/25 16:00	FIELD	Field*
Turbidity, Field Measured	17.0	NTU		01/16/25 16:00	1	0.00	01/16/25 16:00	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	400	mg/L		01/27/25 09:03	1	10	01/27/25 09:03	CFM	SM 2320 B-2011*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		01/27/25 09:03	1	10	01/27/25 09:03	CFM	SM 2320 B-2011*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	380	mg/L	M	01/17/25 09:27	1	26	01/20/25 00:00	CFM	SM 2540 C-2011
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/20/25 08:52	5	3.0	01/27/25 12:52	TJJ	EPA 6020A
Arsenic	6.8	ug/L		01/20/25 08:52	5	1.0	01/27/25 12:52	TJJ	EPA 6020A
Barium	190	ug/L		01/20/25 08:52	5	1.0	01/27/25 12:52	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		01/20/25 08:52	5	1.0	01/27/25 12:52	TJJ	EPA 6020A
Boron	42	ug/L		01/20/25 08:52	5	10	01/27/25 12:52	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		01/20/25 08:52	5	1.0	01/27/25 12:52	TJJ	EPA 6020A
Calcium	96	mg/L		01/20/25 08:52	5	0.20	01/27/25 12:52	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		01/20/25 08:52	5	4.0	01/27/25 12:52	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		01/20/25 08:52	5	2.0	01/27/25 12:52	TJJ	EPA 6020A
Lead	< 1.0	ug/L		01/20/25 08:52	5	1.0	01/27/25 12:52	TJJ	EPA 6020A
Magnesium	36	mg/L		01/20/25 08:52	5	0.10	01/27/25 12:52	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		01/20/25 08:52	5	0.20	01/27/25 12:52	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		01/20/25 08:52	5	1.0	01/30/25 11:49	TJJ	EPA 6020A
Potassium	0.77	mg/L		01/20/25 08:52	5	0.10	01/27/25 12:52	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: IA02625-01

Name: G02S

Matrix: Ground Water - Grab

Sampled: 01/16/25 16:00

Received: 01/16/25 17:16

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/20/25 08:52	5	1.0	01/27/25 12:52	TJJ	EPA 6020A
Sodium	13	mg/L		01/20/25 08:52	5	0.10	01/27/25 12:52	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		01/20/25 08:52	5	1.0	01/27/25 12:52	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		01/20/25 08:52	1	0.020	01/22/25 12:45	TJJ	EPA 6010B

ANALYTICAL RESULTS

Sample: IA02984-01
Name: G54L
Matrix: Ground Water - Grab

Sampled: 01/20/25 12:03
Received: 01/20/25 17:01

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	61	mg/L	Q3	01/21/25 22:44	10	10	01/21/25 22:44	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		01/21/25 21:07	1	0.250	01/21/25 21:07	TMS	EPA 300.0 REV 2.1
Sulfate	110	mg/L	Q4	01/21/25 23:03	50	50	01/21/25 23:03	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	28.15	Feet		01/20/25 12:03	1		01/20/25 12:03	JPB	Field*
Dissolved oxygen, Field	3.0	mg/L		01/20/25 12:03	1		01/20/25 12:03	JPB	Field*
Oxidation Reduction Potential	-73.0	mV		01/20/25 12:03	1	-500	01/20/25 12:03	JPB	Field*
pH, Field Measured	6.56	pH Units		01/20/25 12:03	1		01/20/25 12:03	JPB	Field*
Specific Conductance, Field Measured	1190	umhos/cm		01/20/25 12:03	1		01/20/25 12:03	JPB	Field*
Temperature, Field Measured	9.6	°C		01/20/25 12:03	1		01/20/25 12:03	JPB	Field*
Turbidity, Field Measured	< 0.00	NTU		01/20/25 12:03	1	0.00	01/20/25 12:03	JPB	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	720	mg/L		01/29/25 09:42	1	10	01/29/25 09:42	TMS	SM 2320 B-2011*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		01/29/25 09:42	1	10	01/29/25 09:42	TMS	SM 2320 B-2011*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	930	mg/L		01/24/25 10:06	1	26	01/27/25 00:00	CFM	SM 2540 C-2011
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/21/25 09:39	5	3.0	01/27/25 14:46	TJJ	EPA 6020A
Arsenic	5.5	ug/L		01/21/25 09:39	5	1.0	01/27/25 14:46	TJJ	EPA 6020A
Barium	210	ug/L		01/21/25 09:39	5	1.0	01/27/25 14:46	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		01/21/25 09:39	5	1.0	01/27/25 14:46	TJJ	EPA 6020A
Boron	13	ug/L		01/21/25 09:39	5	10	01/30/25 12:19	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		01/21/25 09:39	5	1.0	01/27/25 14:46	TJJ	EPA 6020A
Calcium	200	mg/L	Q4	01/21/25 09:39	5	0.20	01/27/25 14:46	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		01/21/25 09:39	5	4.0	01/27/25 14:46	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		01/21/25 09:39	5	2.0	01/27/25 14:46	TJJ	EPA 6020A
Lead	< 1.0	ug/L		01/21/25 09:39	5	1.0	01/27/25 14:46	TJJ	EPA 6020A
Magnesium	110	mg/L	Q4	01/21/25 09:39	5	0.10	01/27/25 14:46	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		01/21/25 09:39	5	0.20	01/31/25 08:54	TJJ	EPA 6020A
Molybdenum	1.2	ug/L		01/21/25 09:39	5	1.0	01/27/25 14:46	TJJ	EPA 6020A
Potassium	0.89	mg/L		01/21/25 09:39	5	0.10	01/27/25 14:46	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: IA02984-01
Name: G54L
Matrix: Ground Water - Grab

Sampled: 01/20/25 12:03
Received: 01/20/25 17:01

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/21/25 09:39	5	1.0	01/27/25 14:46	TJJ	EPA 6020A
Sodium	27	mg/L		01/21/25 09:39	5	0.10	01/27/25 14:46	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		01/21/25 09:39	5	1.0	01/27/25 14:46	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		01/21/25 09:39	1	0.020	01/22/25 12:23	TJJ	EPA 6010B

ANALYTICAL RESULTS

Sample: IA03310-02
Name: G51S
Matrix: Ground Water - Grab

Sampled: 01/22/25 11:30
Received: 01/22/25 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	17	mg/L		01/23/25 21:41	5	5.0	01/23/25 21:41	JSM	EPA 300.0 REV 2.1
Sulfate	68	mg/L		01/23/25 21:59	10	10	01/23/25 21:59	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	13.82	Feet		01/22/25 11:30	1		01/22/25 11:30	FIELD	Field*
Dissolved oxygen, Field	1.1	mg/L		01/22/25 11:30	1		01/22/25 11:30	FIELD	Field*
Oxidation Reduction Potential	-131	mV		01/22/25 11:30	1	-500	01/22/25 11:30	FIELD	Field*
pH, Field Measured	7.07	pH Units		01/22/25 11:30	1		01/22/25 11:30	FIELD	Field*
Specific Conductance, Field Measured	537.0	umhos/cm		01/22/25 11:30	1		01/22/25 11:30	FIELD	Field*
Temperature, Field Measured	5.0	°C		01/22/25 11:30	1		01/22/25 11:30	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		01/22/25 11:30	1	0.00	01/22/25 11:30	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	310	mg/L		01/29/25 09:42	1	10	01/29/25 09:42	TMS	SM 2320 B-2011*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		01/29/25 09:42	1	10	01/29/25 09:42	TMS	SM 2320 B-2011*
Fluoride	< 0.250	mg/L		01/27/25 16:12	1	0.250	01/27/25 16:12	TMS/ KSA	SM 4500-F C-2011
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	400	mg/L		01/24/25 10:06	1	26	01/27/25 00:00	CFM	SM 2540 C-2011
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/28/25 09:46	5	3.0	01/30/25 13:08	TJJ	EPA 6020A
Arsenic	2.9	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:08	TJJ	EPA 6020A
Barium	100	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:08	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:08	TJJ	EPA 6020A
Boron	13	ug/L		01/28/25 09:46	5	10	02/11/25 12:03	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:08	TJJ	EPA 6020A
Calcium	96	mg/L		01/28/25 09:46	5	0.20	01/30/25 13:08	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		01/28/25 09:46	5	4.0	01/30/25 13:08	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		01/28/25 09:46	5	2.0	01/30/25 13:08	TJJ	EPA 6020A
Lead	1.5	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:08	TJJ	EPA 6020A
Magnesium	41	mg/L		01/28/25 09:46	5	0.10	01/30/25 13:08	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		01/28/25 09:46	5	0.20	01/31/25 08:50	TJJ	EPA 6020A
Molybdenum	1.1	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:08	TJJ	EPA 6020A
Potassium	0.50	mg/L		01/28/25 09:46	5	0.10	01/30/25 13:08	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: IA03310-02
Name: G51S
Matrix: Ground Water - Grab

Sampled: 01/22/25 11:30
Received: 01/22/25 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:08	TJJ	EPA 6020A
Sodium	7.5	mg/L	B2	01/28/25 09:46	5	0.10	01/30/25 13:08	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:08	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		01/28/25 09:46	1	0.020	02/04/25 10:43	TJJ	EPA 6010B

ANALYTICAL RESULTS

Sample: IA03310-03
Name: G51S DUP
Matrix: Ground Water - Grab

Sampled: 01/22/25 11:30
Received: 01/22/25 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	16	mg/L		01/23/25 22:35	5	5.0	01/23/25 22:35	JSM	EPA 300.0 REV 2.1
Sulfate	65	mg/L		01/23/25 22:53	10	10	01/23/25 22:53	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	13.82	Feet		01/22/25 11:30	1		01/22/25 11:30	FIELD	Field*
Dissolved oxygen, Field	1.1	mg/L		01/22/25 11:30	1		01/22/25 11:30	FIELD	Field*
Oxidation Reduction Potential	-131	mV		01/22/25 11:30	1	-500	01/22/25 11:30	FIELD	Field*
pH, Field Measured	7.07	pH Units		01/22/25 11:30	1		01/22/25 11:30	FIELD	Field*
Specific Conductance, Field Measured	537.0	umhos/cm		01/22/25 11:30	1		01/22/25 11:30	FIELD	Field*
Temperature, Field Measured	5.0	°C		01/22/25 11:30	1		01/22/25 11:30	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		01/22/25 11:30	1	0.00	01/22/25 11:30	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	320	mg/L		01/29/25 09:42	1	10	01/29/25 09:42	TMS	SM 2320 B-2011*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		01/29/25 09:42	1	10	01/29/25 09:42	TMS	SM 2320 B-2011*
Fluoride	< 0.250	mg/L		01/27/25 16:14	1	0.250	01/27/25 16:14	TMS/ KSA	SM 4500-F C-2011
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	380	mg/L		01/24/25 10:06	1	26	01/27/25 00:00	CFM	SM 2540 C-2011
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/28/25 09:46	5	3.0	01/30/25 13:27	TJJ	EPA 6020A
Arsenic	2.9	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:27	TJJ	EPA 6020A
Barium	100	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:27	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:27	TJJ	EPA 6020A
Boron	13	ug/L		01/28/25 09:46	5	10	02/11/25 12:07	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:27	TJJ	EPA 6020A
Calcium	96	mg/L		01/28/25 09:46	5	0.20	01/30/25 13:27	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		01/28/25 09:46	5	4.0	01/30/25 13:27	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		01/28/25 09:46	5	2.0	01/30/25 13:27	TJJ	EPA 6020A
Lead	1.4	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:27	TJJ	EPA 6020A
Magnesium	40	mg/L		01/28/25 09:46	5	0.10	01/30/25 13:27	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		01/28/25 09:46	5	0.20	01/30/25 13:27	TJJ	EPA 6020A
Molybdenum	1.4	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:27	TJJ	EPA 6020A
Potassium	0.51	mg/L		01/28/25 09:46	5	0.10	01/30/25 13:27	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: IA03310-03
Name: G51S DUP
Matrix: Ground Water - Grab

Sampled: 01/22/25 11:30
Received: 01/22/25 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:27	TJJ	EPA 6020A
Sodium	7.4	mg/L	B2	01/28/25 09:46	5	0.10	01/30/25 13:27	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:27	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		01/28/25 09:46	1	0.020	02/04/25 10:45	TJJ	EPA 6010B

ANALYTICAL RESULTS

Sample: IA03310-04
Name: G50S
Matrix: Ground Water - Grab

Sampled: 01/22/25 12:45
Received: 01/22/25 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	15	mg/L		01/23/25 23:29	5	5.0	01/23/25 23:29	JSM	EPA 300.0 REV 2.1
Sulfate	44	mg/L		01/23/25 23:29	5	5.0	01/23/25 23:29	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	13.55	Feet		01/22/25 12:45	1		01/22/25 12:45	FIELD	Field*
Dissolved oxygen, Field	1.4	mg/L		01/22/25 12:45	1		01/22/25 12:45	FIELD	Field*
Oxidation Reduction Potential	-80.0	mV		01/22/25 12:45	1	-500	01/22/25 12:45	FIELD	Field*
pH, Field Measured	7.25	pH Units		01/22/25 12:45	1		01/22/25 12:45	FIELD	Field*
Specific Conductance, Field Measured	466.0	umhos/cm		01/22/25 12:45	1		01/22/25 12:45	FIELD	Field*
Temperature, Field Measured	6.8	°C		01/22/25 12:45	1		01/22/25 12:45	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		01/22/25 12:45	1	0.00	01/22/25 12:45	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	310	mg/L		01/29/25 09:42	1	10	01/29/25 09:42	TMS	SM 2320 B-2011*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		01/29/25 09:42	1	10	01/29/25 09:42	TMS	SM 2320 B-2011*
Fluoride	0.252	mg/L		01/27/25 16:20	1	0.250	01/27/25 16:20	TMS/ KSA	SM 4500-F C-2011
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	360	mg/L		01/24/25 10:06	1	26	01/27/25 00:00	CFM	SM 2540 C-2011
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/28/25 09:46	5	3.0	01/30/25 13:31	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:31	TJJ	EPA 6020A
Barium	67	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:31	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:31	TJJ	EPA 6020A
Boron	16	ug/L		01/28/25 09:46	5	10	01/30/25 13:31	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:31	TJJ	EPA 6020A
Calcium	90	mg/L		01/28/25 09:46	5	0.20	01/30/25 13:31	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		01/28/25 09:46	5	4.0	01/30/25 13:31	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		01/28/25 09:46	5	2.0	01/30/25 13:31	TJJ	EPA 6020A
Lead	< 1.0	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:31	TJJ	EPA 6020A
Magnesium	37	mg/L		01/28/25 09:46	5	0.10	01/30/25 13:31	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		01/28/25 09:46	5	0.20	01/30/25 13:31	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:31	TJJ	EPA 6020A
Potassium	0.38	mg/L		01/28/25 09:46	5	0.10	01/30/25 13:31	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: IA03310-04

Name: G50S

Matrix: Ground Water - Grab

Sampled: 01/22/25 12:45

Received: 01/22/25 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:31	TJJ	EPA 6020A
Sodium	8.4	mg/L	B2	01/28/25 09:46	5	0.10	01/30/25 13:31	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:31	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		01/28/25 09:46	1	0.020	02/04/25 10:48	TJJ	EPA 6010B

ANALYTICAL RESULTS

Sample: IA03310-06
Name: G57S
Matrix: Ground Water - Grab

Sampled: 01/22/25 14:50
Received: 01/22/25 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	22	mg/L		01/24/25 01:36	5	5.0	01/24/25 01:36	JSM	EPA 300.0 REV 2.1
Sulfate	52	mg/L		01/24/25 01:54	10	10	01/24/25 01:54	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	26.23	Feet		01/22/25 14:50	1		01/22/25 14:50	FIELD	Field*
Dissolved oxygen, Field	2.3	mg/L		01/22/25 14:50	1		01/22/25 14:50	FIELD	Field*
Oxidation Reduction Potential	87.0	mV		01/22/25 14:50	1	-500	01/22/25 14:50	FIELD	Field*
pH, Field Measured	7.01	pH Units		01/22/25 14:50	1		01/22/25 14:50	FIELD	Field*
Specific Conductance, Field Measured	954.0	umhos/cm		01/22/25 14:50	1		01/22/25 14:50	FIELD	Field*
Temperature, Field Measured	9.9	°C		01/22/25 14:50	1		01/22/25 14:50	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		01/22/25 14:50	1	0.00	01/22/25 14:50	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	780	mg/L		01/29/25 09:42	1	10	01/29/25 09:42	TMS	SM 2320 B-2011*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		01/29/25 09:42	1	10	01/29/25 09:42	TMS	SM 2320 B-2011*
Fluoride	< 0.250	mg/L		01/27/25 16:22	1	0.250	01/27/25 16:22	TMS/ KSA	SM 4500-F C-2011
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	800	mg/L		01/24/25 10:06	1	26	01/27/25 00:00	CFM	SM 2540 C-2011
Total Metals - PIA									
Antimony	< 3.0	ug/L		01/28/25 09:46	5	3.0	01/30/25 13:39	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:39	TJJ	EPA 6020A
Barium	210	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:39	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:39	TJJ	EPA 6020A
Boron	< 10	ug/L		01/28/25 09:46	5	10	01/30/25 13:39	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:39	TJJ	EPA 6020A
Calcium	180	mg/L		01/28/25 09:46	5	0.20	01/30/25 13:39	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		01/28/25 09:46	5	4.0	01/30/25 13:39	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		01/28/25 09:46	5	2.0	01/30/25 13:39	TJJ	EPA 6020A
Lead	2.3	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:39	TJJ	EPA 6020A
Magnesium	110	mg/L		01/28/25 09:46	5	0.10	01/30/25 13:39	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		01/28/25 09:46	5	0.20	01/30/25 13:39	TJJ	EPA 6020A
Molybdenum	1.2	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:39	TJJ	EPA 6020A
Potassium	0.88	mg/L		01/28/25 09:46	5	0.10	01/30/25 13:39	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: IA03310-06

Name: G57S

Matrix: Ground Water - Grab

Sampled: 01/22/25 14:50

Received: 01/22/25 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:39	TJJ	EPA 6020A
Sodium	13	mg/L	B2	01/28/25 09:46	5	0.10	01/30/25 13:39	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		01/28/25 09:46	5	1.0	01/30/25 13:39	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		01/28/25 09:46	1	0.020	02/04/25 10:50	TJJ	EPA 6010B

ANALYTICAL RESULTS

Sample: IA04610-01
Name: G54S
Matrix: Ground Water - Grab

Sampled: 01/30/25 10:45
Received: 01/30/25 14:17

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	6.2	mg/L		01/31/25 17:43	1	1.0	01/31/25 17:43	JSM	EPA 300.0 REV 2.1
Sulfate	29	mg/L	Q4	01/31/25 18:00	5	5.0	01/31/25 18:00	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	29.41	Feet		01/30/25 10:45	1		01/30/25 10:45	FIELD	Field*
Dissolved oxygen, Field	1.6	mg/L		01/30/25 10:45	1		01/30/25 10:45	FIELD	Field*
Oxidation Reduction Potential	-120	mV		01/30/25 10:45	1	-500	01/30/25 10:45	FIELD	Field*
pH, Field Measured	6.81	pH Units		01/30/25 10:45	1		01/30/25 10:45	FIELD	Field*
Specific Conductance, Field Measured	1010	umhos/cm		01/30/25 10:45	1		01/30/25 10:45	FIELD	Field*
Temperature, Field Measured	11.2	°C		01/30/25 10:45	1		01/30/25 10:45	FIELD	Field*
Turbidity, Field Measured	150	NTU		01/30/25 10:45	1	0.00	01/30/25 10:45	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	480	mg/L		02/04/25 11:06	1	10	02/04/25 11:06	CFM	SM 2320 B-2011*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/04/25 11:06	1	10	02/04/25 11:06	CFM	SM 2320 B-2011*
Fluoride	< 0.250	mg/L		02/05/25 14:06	1	0.250	02/05/25 14:06	JMD2	SM 4500-F C-2011
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	520	mg/L		02/04/25 13:59	1	26	02/05/25 00:00	ENH	SM 2540 C-2011
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/03/25 09:12	5	3.0	02/06/25 17:51	TJJ	EPA 6020A
Arsenic	3.6	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:51	TJJ	EPA 6020A
Barium	210	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:51	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:51	TJJ	EPA 6020A
Boron	32	ug/L		02/03/25 09:12	5	10	02/07/25 13:02	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:51	TJJ	EPA 6020A
Calcium	130	mg/L		02/03/25 09:12	5	0.20	02/06/25 17:51	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/03/25 09:12	5	4.0	02/06/25 17:51	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		02/03/25 09:12	5	2.0	02/06/25 17:51	TJJ	EPA 6020A
Lead	< 1.0	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:51	TJJ	EPA 6020A
Magnesium	55	mg/L		02/03/25 09:12	5	0.10	02/06/25 17:51	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/03/25 09:12	5	0.20	02/06/25 17:51	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:51	TJJ	EPA 6020A
Potassium	0.95	mg/L		02/03/25 09:12	5	0.10	02/06/25 17:51	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: IA04610-01

Name: G54S

Matrix: Ground Water - Grab

Sampled: 01/30/25 10:45

Received: 01/30/25 14:17

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:51	TJJ	EPA 6020A
Sodium	12	mg/L		02/03/25 09:12	5	0.10	02/06/25 17:51	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:51	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		02/03/25 09:12	1	0.020	02/04/25 11:21	TJJ	EPA 6010B

ANALYTICAL RESULTS

Sample: IA04610-02
Name: G60S
Matrix: Ground Water - Grab

Sampled: 01/30/25 12:15
Received: 01/30/25 14:17

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	5.1	mg/L		01/31/25 19:26	1	1.0	01/31/25 19:26	JSM	EPA 300.0 REV 2.1
Sulfate	73	mg/L	Q4	01/31/25 19:43	10	10	01/31/25 19:43	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	26.4	Feet		01/30/25 12:15	1		01/30/25 12:15	FIELD	Field*
Dissolved oxygen, Field	0.91	mg/L		01/30/25 12:15	1		01/30/25 12:15	FIELD	Field*
Oxidation Reduction Potential	-62.0	mV		01/30/25 12:15	1	-500	01/30/25 12:15	FIELD	Field*
pH, Field Measured	6.68	pH Units		01/30/25 12:15	1		01/30/25 12:15	FIELD	Field*
Specific Conductance, Field Measured	1030	umhos/cm		01/30/25 12:15	1		01/30/25 12:15	FIELD	Field*
Temperature, Field Measured	10.7	°C		01/30/25 12:15	1		01/30/25 12:15	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		01/30/25 12:15	1	0.00	01/30/25 12:15	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	480	mg/L		02/04/25 11:06	1	10	02/04/25 11:06	CFM	SM 2320 B-2011*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/04/25 11:06	1	10	02/04/25 11:06	CFM	SM 2320 B-2011*
Fluoride	< 0.250	mg/L		02/05/25 13:59	1	0.250	02/05/25 13:59	JMD2	SM 4500-F C-2011
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	540	mg/L		02/03/25 09:31	1	26	02/04/25 00:00	CFM	SM 2540 C-2011
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/03/25 09:12	5	3.0	02/06/25 17:55	TJJ	EPA 6020A
Arsenic	3.6	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:55	TJJ	EPA 6020A
Barium	170	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:55	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:55	TJJ	EPA 6020A
Boron	18	ug/L		02/03/25 09:12	5	10	02/07/25 13:06	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:55	TJJ	EPA 6020A
Calcium	140	mg/L		02/03/25 09:12	5	0.20	02/06/25 17:55	TJJ	EPA 6020A
Chromium	4.9	ug/L		02/03/25 09:12	5	4.0	02/06/25 17:55	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		02/03/25 09:12	5	2.0	02/06/25 17:55	TJJ	EPA 6020A
Lead	3.8	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:55	TJJ	EPA 6020A
Magnesium	61	mg/L		02/03/25 09:12	5	0.10	02/06/25 17:55	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/03/25 09:12	5	0.20	02/06/25 17:55	TJJ	EPA 6020A
Molybdenum	1.8	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:55	TJJ	EPA 6020A
Potassium	1.2	mg/L		02/03/25 09:12	5	0.10	02/06/25 17:55	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: IA04610-02

Name: G60S

Matrix: Ground Water - Grab

Sampled: 01/30/25 12:15

Received: 01/30/25 14:17

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:55	TJJ	EPA 6020A
Sodium	13	mg/L		02/03/25 09:12	5	0.10	02/06/25 17:55	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:55	TJJ	EPA 6020A
Lithium	< 0.020	mg/L	V2	02/03/25 09:12	1	0.020	02/04/25 11:28	TJJ	EPA 6010B

ANALYTICAL RESULTS

Sample: IA04610-03
Name: G60L
Matrix: Ground Water - Grab

Sampled: 01/30/25 13:23
Received: 01/30/25 14:17

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	9.2	mg/L	Q4	01/31/25 20:34	1	1.0	01/31/25 20:34	JSM	EPA 300.0 REV 2.1
Sulfate	170	mg/L	Q4	01/31/25 21:08	25	25	01/31/25 21:08	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	19.02	Feet		01/30/25 13:23	1		01/30/25 13:23	FIELD	Field*
Dissolved oxygen, Field	1.4	mg/L		01/30/25 13:23	1		01/30/25 13:23	FIELD	Field*
Oxidation Reduction Potential	111	mV		01/30/25 13:23	1	-500	01/30/25 13:23	FIELD	Field*
pH, Field Measured	6.18	pH Units		01/30/25 13:23	1		01/30/25 13:23	FIELD	Field*
Specific Conductance, Field Measured	932.0	umhos/cm		01/30/25 13:23	1		01/30/25 13:23	FIELD	Field*
Temperature, Field Measured	10.4	°C		01/30/25 13:23	1		01/30/25 13:23	FIELD	Field*
Turbidity, Field Measured	897	NTU		01/30/25 13:23	1	0.00	01/30/25 13:23	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	290	mg/L		02/04/25 11:06	1	10	02/04/25 11:06	CFM	SM 2320 B-2011*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/04/25 11:06	1	10	02/04/25 11:06	CFM	SM 2320 B-2011*
Fluoride	< 0.250	mg/L		02/05/25 14:01	1	0.250	02/05/25 14:01	JMD2	SM 4500-F C-2011
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	460	mg/L		02/03/25 09:31	1	26	02/04/25 00:00	CFM	SM 2540 C-2011
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/03/25 09:12	5	3.0	02/06/25 17:59	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:59	TJJ	EPA 6020A
Barium	60	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:59	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:59	TJJ	EPA 6020A
Boron	29	ug/L		02/03/25 09:12	5	10	02/11/25 12:22	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:59	TJJ	EPA 6020A
Calcium	100	mg/L		02/03/25 09:12	5	0.20	02/06/25 17:59	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/03/25 09:12	5	4.0	02/06/25 17:59	TJJ	EPA 6020A
Cobalt	32	ug/L		02/03/25 09:12	5	2.0	02/06/25 17:59	TJJ	EPA 6020A
Lead	1.9	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:59	TJJ	EPA 6020A
Magnesium	44	mg/L		02/03/25 09:12	5	0.10	02/06/25 17:59	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/03/25 09:12	5	0.20	02/06/25 17:59	TJJ	EPA 6020A
Molybdenum	1.0	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:59	TJJ	EPA 6020A
Potassium	0.56	mg/L		02/03/25 09:12	5	0.10	02/06/25 17:59	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: IA04610-03

Name: G60L

Matrix: Ground Water - Grab

Sampled: 01/30/25 13:23

Received: 01/30/25 14:17

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:59	TJJ	EPA 6020A
Sodium	40	mg/L		02/03/25 09:12	5	0.10	02/06/25 17:59	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		02/03/25 09:12	5	1.0	02/06/25 17:59	TJJ	EPA 6020A
Lithium	< 0.020	mg/L	V2	02/03/25 09:12	1	0.020	02/04/25 11:30	TJJ	EPA 6010B

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B522376 - No Prep - SM 2540 C-2011</u>									
Blank (B522376-BLK1)				Prepared: 01/10/25 Analyzed: 01/13/25					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B522376-BS1)				Prepared: 01/10/25 Analyzed: 01/13/25					
Solids - total dissolved solids (TDS)	913	mg/L		1000		91	84.4-107		
<u>Batch B522474 - SW 3015 - EPA 6010B</u>									
Blank (B522474-BLK1)				Prepared: 01/13/25 Analyzed: 01/14/25					
Lithium	< 0.020	mg/L							
LCS (B522474-BS1)				Prepared: 01/13/25 Analyzed: 01/14/25					
Lithium	0.551	mg/L		0.5556		99	80-120		
Matrix Spike (B522474-MS1)				Prepared: 01/13/25 Analyzed: 01/14/25					
Lithium	0.583	mg/L		0.5556	ND	105	75-125		
Matrix Spike Dup (B522474-MSD1)				Prepared: 01/13/25 Analyzed: 01/14/25					
Lithium	0.567	mg/L		0.5556	ND	102	75-125	3	20
<u>Batch B522474 - SW 3015 - EPA 6020A</u>									
Blank (B522474-BLK1)				Prepared: 01/13/25 Analyzed: 01/15/25					
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 (B522474-BS1)				Prepared: 01/13/25 Analyzed: 01/15/25					
Antimony	541	ug/L		555.6		97	80-120		
Arsenic	526	ug/L		555.6		95	80-120		
Barium	548	ug/L		555.6		99	80-120		
Beryllium	518	ug/L		555.6		93	80-120		
Boron	526	ug/L		555.6		95	80-120		
Cadmium	521	ug/L		555.6		94	80-120		
Calcium	5.69	mg/L		5.556		102	80-120		
Chromium	543	ug/L		555.6		98	80-120		
Cobalt	540	ug/L		555.6		97	80-120		
Lead	546	ug/L		555.6		98	80-120		

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B522474-BS1)				Prepared: 01/13/25 Analyzed: 01/15/25					
Magnesium	5.83	mg/L		5.556		105	80-120		
Mercury	57.0	ug/L		55.56		103	80-120		
Molybdenum	531	ug/L		555.6		96	80-120		
Potassium	5.67	mg/L		5.556		102	80-120		
Selenium	528	ug/L		555.6		95	80-120		
Sodium	5.86	mg/L		5.556		106	80-120		
Thallium	537	ug/L		555.6		97	80-120		
Matrix Spike (B522474-MS1)				Sample: IA01454-10 Prepared: 01/13/25 Analyzed: 01/15/25					
Antimony	536	ug/L		555.6	ND	96	75-125		
Arsenic	533	ug/L		555.6	2.32	96	75-125		
Barium	551	ug/L		555.6	16.6	96	75-125		
Beryllium	500	ug/L		555.6	ND	90	75-125		
Boron	637	ug/L		555.6	137	90	75-125		
Cadmium	513	ug/L		555.6	ND	92	75-125		
Calcium	368	mg/L	Q4	5.556	370	NR	75-125		
Chromium	532	ug/L		555.6	ND	96	75-125		
Cobalt	518	ug/L		555.6	0.533	93	75-125		
Lead	519	ug/L		555.6	0.339	93	75-125		
Magnesium	124	mg/L	Q4	5.556	123	7	75-125		
Mercury	59.0	ug/L		55.56	0.150	106	75-125		
Molybdenum	518	ug/L		555.6	2.17	93	75-125		
Potassium	7.54	mg/L		5.556	2.24	95	75-125		
Selenium	531	ug/L		555.6	ND	96	75-125		
Sodium	42.6	mg/L	Q4	5.556	38.5	74	75-125		
Thallium	517	ug/L		555.6	ND	93	75-125		
Matrix Spike Dup (B522474-MSD1)				Sample: IA01454-10 Prepared: 01/13/25 Analyzed: 01/15/25					
Antimony	536	ug/L		555.6	ND	96	75-125	0.03	20
Arsenic	528	ug/L		555.6	2.32	95	75-125	0.9	20
Barium	555	ug/L		555.6	16.6	97	75-125	0.8	20
Beryllium	504	ug/L		555.6	ND	91	75-125	0.8	20
Boron	648	ug/L		555.6	137	92	75-125	2	20
Cadmium	512	ug/L		555.6	ND	92	75-125	0.08	20
Calcium	368	mg/L	Q4	5.556	370	NR	75-125	0.07	20
Chromium	536	ug/L		555.6	ND	96	75-125	0.8	20
Cobalt	515	ug/L		555.6	0.533	93	75-125	0.5	20
Lead	518	ug/L		555.6	0.339	93	75-125	0.2	20
Magnesium	124	mg/L	Q4	5.556	123	22	75-125	0.7	20
Mercury	59.3	ug/L		55.56	0.150	106	75-125	0.5	20
Molybdenum	521	ug/L		555.6	2.17	93	75-125	0.5	20
Potassium	7.61	mg/L		5.556	2.24	97	75-125	0.9	20
Selenium	531	ug/L		555.6	ND	95	75-125	0.05	20
Sodium	43.0	mg/L		5.556	38.5	81	75-125	0.9	20
Thallium	520	ug/L		555.6	ND	94	75-125	0.5	20
<u>Batch B522485 - IC No Prep - EPA 300.0 REV 2.1</u>									
Blank (B522485-BLK1)				Prepared & Analyzed: 01/10/25					
Chloride	< 1.0	mg/L							

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B522485-BLK1)				Prepared & Analyzed: 01/10/25					
Sulfate	< 1.0	mg/L							
Fluoride	< 0.250	mg/L							
Calibration Blank (B522485-CCB1)				Prepared & Analyzed: 01/10/25					
Fluoride	0.00	mg/L							
Sulfate	0.00	mg/L							
Chloride	0.849	mg/L							
Calibration Check (B522485-CCV1)				Prepared & Analyzed: 01/10/25					
Chloride	4.96	mg/L		5.000		99	90-110		
Sulfate	5.03	mg/L		5.000		101	90-110		
Fluoride	5.07	mg/L		5.000		101	90-110		
Matrix Spike (B522485-MS2)				Sample: IA01454-07		Prepared & Analyzed: 01/10/25			
Fluoride	1.68	mg/L		1.500	0.269	94	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	25.0	NR	80-120		
Chloride	5.2	mg/L		1.500	3.8	93	80-120		
Matrix Spike (B522485-MS3)				Sample: IA01454-10		Prepared & Analyzed: 01/10/25			
Sulfate	< 1.0	mg/L	Q1	1.500	1040	NR	80-120		
Chloride	4.1	mg/L		1.500	2.8	83	80-120		
Matrix Spike Dup (B522485-MSD2)				Sample: IA01454-07		Prepared & Analyzed: 01/10/25			
Chloride	5.2	mg/L		1.500	3.8	95	80-120	0.5	20
Fluoride	1.68	mg/L		1.500	0.269	94	80-120	0.06	20
Sulfate	1.00E9	mg/L	Q4	1.500	25.0	NR	80-120	0	20
Matrix Spike Dup (B522485-MSD3)				Sample: IA01454-10		Prepared & Analyzed: 01/10/25			
Chloride	4.1	mg/L		1.500	2.8	84	80-120	0.4	20
Sulfate	< 1.0	mg/L	Q2	1.500	1040	NR	80-120		20
<u>Batch B522792 - SW 3015 - EPA 6010B</u>									
Blank (B522792-BLK1)				Prepared & Analyzed: 01/16/25					
Lithium	< 0.020	mg/L							
LCS (B522792-BS1)				Prepared & Analyzed: 01/16/25					
Lithium	0.577	mg/L		0.5556		104	80-120		
<u>Batch B522792 - SW 3015 - EPA 6020A</u>									
Blank (B522792-BLK1)				Prepared: 01/16/25 Analyzed: 01/21/25					
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							

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B522792-BLK1)				Prepared: 01/16/25 Analyzed: 01/21/25					
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
LCS (B522792-BS1)				Prepared: 01/16/25 Analyzed: 01/21/25					
Antimony	532	ug/L		555.6		96	80-120		
Arsenic	533	ug/L		555.6		96	80-120		
Barium	528	ug/L		555.6		95	80-120		
Beryllium	565	ug/L		555.6		102	80-120		
Boron	553	ug/L		555.6		99	80-120		
Cadmium	539	ug/L		555.6		97	80-120		
Calcium	5.71	mg/L		5.556		103	80-120		
Chromium	556	ug/L		555.6		100	80-120		
Cobalt	556	ug/L		555.6		100	80-120		
Lead	552	ug/L		555.6		99	80-120		
Magnesium	6.00	mg/L		5.556		108	80-120		
Mercury	56.2	ug/L		55.56		101	80-120		
Molybdenum	532	ug/L		555.6		96	80-120		
Potassium	5.61	mg/L		5.556		101	80-120		
Selenium	529	ug/L		555.6		95	80-120		
Sodium	5.65	mg/L		5.556		102	80-120		
Thallium	545	ug/L		555.6		98	80-120		
<u>Batch B522928 - No Prep - SM 2540 C-2011</u>									
Blank (B522928-BLK1)				Prepared: 01/17/25 Analyzed: 01/20/25					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B522928-BS1)				Prepared: 01/17/25 Analyzed: 01/20/25					
Solids - total dissolved solids (TDS)	897	mg/L		1000		90	84.4-107		
Duplicate (B522928-DUP1)				Prepared: 01/17/25 Analyzed: 01/20/25					
Solids - total dissolved solids (TDS)	320	mg/L	M		375			16	5
Duplicate (B522928-DUP2)				Prepared: 01/17/25 Analyzed: 01/20/25					
Solids - total dissolved solids (TDS)	655	mg/L	M		715			9	5
<u>Batch B522943 - IC No Prep - EPA 300.0 REV 2.1</u>									
Blank (B522943-BLK1)				Prepared & Analyzed: 01/16/25					
Chloride	< 1.0	mg/L							
Sulfate	< 1.0	mg/L							
Fluoride	< 0.250	mg/L							
Calibration Blank (B522943-CCB1)				Prepared & Analyzed: 01/16/25					
Sulfate	0.00	mg/L							
Fluoride	0.00	mg/L							
Chloride	0.957	mg/L							
Calibration Check (B522943-CCV1)				Prepared & Analyzed: 01/16/25					
Fluoride	4.82	mg/L		5.000		96	90-110		
Sulfate	4.90	mg/L		5.000		98	90-110		
Chloride	4.67	mg/L		5.000		93	90-110		
Matrix Spike (B522943-MS1)				Prepared & Analyzed: 01/16/25					
Sulfate	1.00E9	mg/L	Q4	1.500	140	NR	80-120		

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (B522943-MS1) Sample: IA02353-01 Prepared & Analyzed: 01/16/25									
Chloride	1.0E9	mg/L	Q4	1.500	21	NR	80-120		
Fluoride	1.55	mg/L		1.500	0.232	88	80-120		
Matrix Spike Dup (B522943-MSD1) Sample: IA02353-01 Prepared & Analyzed: 01/16/25									
Sulfate	1.00E9	mg/L	Q4	1.500	140	NR	80-120	0	20
Chloride	1.0E9	mg/L	Q4	1.500	21	NR	80-120	0	20
Fluoride	1.54	mg/L		1.500	0.232	87	80-120	1	20
<u>Batch B523033 - SW 3015 - EPA 6010B</u>									
Blank (B523033-BLK1) Prepared: 01/20/25 Analyzed: 01/22/25									
Lithium	< 0.020	mg/L							
LCS (B523033-BS1) Prepared: 01/20/25 Analyzed: 01/22/25									
Lithium	0.577	mg/L		0.5556		104	80-120		
Matrix Spike (B523033-MS1) Sample: IA02625-01 Prepared: 01/20/25 Analyzed: 01/22/25									
Lithium	0.565	mg/L		0.5556	ND	102	75-125		
Matrix Spike Dup (B523033-MSD1) Sample: IA02625-01 Prepared: 01/20/25 Analyzed: 01/22/25									
Lithium	0.573	mg/L		0.5556	ND	103	75-125	1	20
<u>Batch B523033 - SW 3015 - EPA 6020A</u>									
Blank (B523033-BLK1) Prepared: 01/20/25 Analyzed: 01/27/25									
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 (B523033-BS1) Prepared: 01/20/25 Analyzed: 01/27/25									
Antimony	515	ug/L		555.6		93	80-120		
Arsenic	522	ug/L		555.6		94	80-120		
Barium	548	ug/L		555.6		99	80-120		
Beryllium	552	ug/L		555.6		99	80-120		
Boron	540	ug/L		555.6		97	80-120		
Cadmium	538	ug/L		555.6		97	80-120		
Calcium	5.76	mg/L		5.556		104	80-120		
Chromium	556	ug/L		555.6		100	80-120		
Cobalt	540	ug/L		555.6		97	80-120		
Lead	549	ug/L		555.6		99	80-120		

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B523033-BS1)				Prepared: 01/20/25 Analyzed: 01/27/25					
Magnesium	6.08	mg/L		5.556		109	80-120		
Mercury	58.6	ug/L		55.56		105	80-120		
Molybdenum	547	ug/L		555.6		98	80-120		
Potassium	6.06	mg/L		5.556		109	80-120		
Selenium	530	ug/L		555.6		95	80-120		
Sodium	5.84	mg/L		5.556		105	80-120		
Thallium	539	ug/L		555.6		97	80-120		
Matrix Spike (B523033-MS1)				Sample: IA02625-01 Prepared: 01/20/25 Analyzed: 01/27/25					
Antimony	522	ug/L		555.6	ND	94	75-125		
Arsenic	527	ug/L		555.6	6.81	94	75-125		
Barium	731	ug/L		555.6	194	97	75-125		
Beryllium	549	ug/L		555.6	ND	99	75-125		
Boron	585	ug/L		555.6	42.0	98	75-125		
Cadmium	539	ug/L		555.6	ND	97	75-125		
Calcium	101	mg/L		5.556	96.3	88	75-125		
Chromium	542	ug/L		555.6	ND	98	75-125		
Cobalt	527	ug/L		555.6	ND	95	75-125		
Lead	542	ug/L		555.6	ND	98	75-125		
Magnesium	41.0	mg/L		5.556	36.2	86	75-125		
Mercury	59.4	ug/L		55.56	ND	107	75-125		
Molybdenum	563	ug/L		555.6	ND	101	75-125		
Potassium	6.74	mg/L		5.556	0.775	107	75-125		
Selenium	530	ug/L		555.6	ND	95	75-125		
Sodium	18.8	mg/L		5.556	13.5	97	75-125		
Thallium	539	ug/L		555.6	ND	97	75-125		
Matrix Spike Dup (B523033-MSD1)				Sample: IA02625-01 Prepared: 01/20/25 Analyzed: 01/27/25					
Antimony	511	ug/L		555.6	ND	92	75-125	2	20
Arsenic	529	ug/L		555.6	6.81	94	75-125	0.3	20
Barium	732	ug/L		555.6	194	97	75-125	0.08	20
Beryllium	537	ug/L		555.6	ND	97	75-125	2	20
Boron	578	ug/L		555.6	42.0	96	75-125	1	20
Cadmium	536	ug/L		555.6	ND	96	75-125	0.5	20
Calcium	101	mg/L		5.556	96.3	87	75-125	0.07	20
Chromium	540	ug/L		555.6	ND	97	75-125	0.4	20
Cobalt	526	ug/L		555.6	ND	95	75-125	0.2	20
Lead	539	ug/L		555.6	ND	97	75-125	0.6	20
Magnesium	41.7	mg/L		5.556	36.2	99	75-125	2	20
Mercury	59.4	ug/L		55.56	ND	107	75-125	0.06	20
Molybdenum	557	ug/L		555.6	ND	100	75-125	1	20
Potassium	6.74	mg/L		5.556	0.775	107	75-125	0.08	20
Selenium	528	ug/L		555.6	ND	95	75-125	0.3	20
Sodium	19.0	mg/L		5.556	13.5	99	75-125	0.7	20
Thallium	529	ug/L		555.6	ND	95	75-125	2	20
<u>Batch B523151 - IC No Prep - EPA 300.0 REV 2.1</u>									
Blank (B523151-BLK1)				Prepared & Analyzed: 01/20/25					
Chloride	< 1.0	mg/L							

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B523151-BLK1)				Prepared & Analyzed: 01/20/25					
Sulfate	< 1.0	mg/L							
Calibration Blank (B523151-CCB1)				Prepared & Analyzed: 01/20/25					
Chloride	0.00	mg/L							
Sulfate	0.00	mg/L							
Calibration Blank (B523151-CCB2)				Prepared & Analyzed: 01/20/25					
Chloride	0.00	mg/L							
Sulfate	0.00	mg/L							
Calibration Check (B523151-CCV1)				Prepared & Analyzed: 01/20/25					
Chloride	5.29	mg/L		5.000		106	90-110		
Sulfate	5.21	mg/L		5.000		104	90-110		
Calibration Check (B523151-CCV2)				Prepared & Analyzed: 01/20/25					
Chloride	4.77	mg/L		5.000		95	90-110		
Sulfate	4.69	mg/L		5.000		94	90-110		
Matrix Spike (B523151-MS1)				Sample: IA02625-01 Prepared & Analyzed: 01/20/25					
Sulfate	1.58	mg/L		1.500	ND	105	80-120		
Matrix Spike (B523151-MS2)				Sample: IA02625-10 Prepared & Analyzed: 01/20/25					
Chloride	1.0E9	mg/L	Q4	1.500	13	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	188	NR	80-120		
Matrix Spike Dup (B523151-MSD1)				Sample: IA02625-01 Prepared & Analyzed: 01/20/25					
Sulfate	1.57	mg/L		1.500	ND	105	80-120	0.3	20
Matrix Spike Dup (B523151-MSD2)				Sample: IA02625-10 Prepared & Analyzed: 01/20/25					
Sulfate	1.00E9	mg/L	Q4	1.500	188	NR	80-120	0	20
Chloride	1.0E9	mg/L	Q4	1.500	13	NR	80-120	0	20
<u>Batch B523153 - SW 3015 - EPA 6010B</u>									
Blank (B523153-BLK1)				Prepared: 01/21/25 Analyzed: 01/22/25					
Lithium	< 0.020	mg/L							
LCS (B523153-BS1)				Prepared: 01/21/25 Analyzed: 01/22/25					
Lithium	0.566	mg/L		0.5556		102	80-120		
Matrix Spike (B523153-MS1)				Sample: IA02984-01 Prepared: 01/21/25 Analyzed: 01/22/25					
Lithium	0.569	mg/L		0.5556	ND	102	75-125		
Matrix Spike Dup (B523153-MSD1)				Sample: IA02984-01 Prepared: 01/21/25 Analyzed: 01/22/25					
Lithium	0.559	mg/L		0.5556	ND	101	75-125	2	20
<u>Batch B523153 - SW 3015 - EPA 6020A</u>									
Blank (B523153-BLK1)				Prepared & Analyzed: 01/21/25					
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							

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B523153-BLK1)				Prepared & Analyzed: 01/21/25					
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 (B523153-BS1)				Prepared & Analyzed: 01/21/25					
Antimony	528	ug/L		555.6		95	80-120		
Arsenic	529	ug/L		555.6		95	80-120		
Barium	519	ug/L		555.6		93	80-120		
Beryllium	585	ug/L		555.6		105	80-120		
Boron	591	ug/L		555.6		106	80-120		
Cadmium	540	ug/L		555.6		97	80-120		
Calcium	5.54	mg/L		5.556		100	80-120		
Chromium	555	ug/L		555.6		100	80-120		
Cobalt	558	ug/L		555.6		100	80-120		
Lead	561	ug/L		555.6		101	80-120		
Magnesium	6.02	mg/L		5.556		108	80-120		
Mercury	56.5	ug/L		55.56		102	80-120		
Molybdenum	538	ug/L		555.6		97	80-120		
Potassium	5.66	mg/L		5.556		102	80-120		
Selenium	528	ug/L		555.6		95	80-120		
Sodium	5.70	mg/L		5.556		103	80-120		
Thallium	551	ug/L		555.6		99	80-120		
Matrix Spike (B523153-MS1)				Sample: IA02984-01		Prepared: 01/21/25 Analyzed: 01/27/25			
Antimony	507	ug/L		555.6	ND	91	75-125		
Arsenic	524	ug/L		555.6	5.46	93	75-125		
Barium	738	ug/L		555.6	208	95	75-125		
Beryllium	543	ug/L		555.6	ND	98	75-125		
Boron	578	ug/L		555.6	12.6	102	75-125		
Cadmium	527	ug/L		555.6	ND	95	75-125		
Calcium	199	mg/L	Q4	5.556	199	8	75-125		
Chromium	540	ug/L		555.6	ND	97	75-125		
Cobalt	519	ug/L		555.6	1.07	93	75-125		
Lead	527	ug/L		555.6	0.294	95	75-125		
Magnesium	107	mg/L	Q4	5.556	106	30	75-125		
Mercury	58.5	ug/L		55.56	ND	105	75-125		
Molybdenum	523	ug/L		555.6	1.25	94	75-125		
Potassium	6.77	mg/L		5.556	0.891	106	75-125		
Selenium	525	ug/L		555.6	ND	94	75-125		
Sodium	31.8	mg/L		5.556	27.3	80	75-125		
Thallium	524	ug/L		555.6	ND	94	75-125		
Matrix Spike Dup (B523153-MSD1)				Sample: IA02984-01		Prepared: 01/21/25 Analyzed: 01/27/25			
Antimony	503	ug/L		555.6	ND	91	75-125	0.8	20
Arsenic	520	ug/L		555.6	5.46	93	75-125	0.8	20
Barium	740	ug/L		555.6	208	96	75-125	0.3	20
Beryllium	559	ug/L		555.6	ND	101	75-125	3	20

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike Dup (B523153-MSD1)				Sample: IA02984-01		Prepared: 01/21/25 Analyzed: 01/30/25			
Boron	584	ug/L	Q4	555.6	12.6	103	75-125	1	20
Cadmium	527	ug/L		555.6	ND	95	75-125	0.05	20
Calcium	199	mg/L		5.556	199	10	75-125	0.06	20
Chromium	543	ug/L		555.6	ND	98	75-125	0.5	20
Cobalt	516	ug/L	Q4	555.6	1.07	93	75-125	0.7	20
Lead	535	ug/L		555.6	0.294	96	75-125	1	20
Magnesium	108	mg/L		5.556	106	37	75-125	0.4	20
Mercury	59.6	ug/L		55.56	ND	107	75-125	2	20
Molybdenum	524	ug/L		555.6	1.25	94	75-125	0.08	20
Potassium	6.75	mg/L		5.556	0.891	105	75-125	0.2	20
Selenium	527	ug/L		555.6	ND	95	75-125	0.6	20
Sodium	32.2	mg/L		5.556	27.3	88	75-125	1	20
Thallium	534	ug/L		555.6	ND	96	75-125	2	20
Batch B523262 - IC No Prep - EPA 300.0 REV 2.1									
Blank (B523262-BLK1)				Prepared & Analyzed: 01/21/25					
Fluoride	< 0.250	mg/L							
Chloride	< 1.0	mg/L							
Sulfate	< 1.0	mg/L							
Calibration Blank (B523262-CCB1)				Prepared & Analyzed: 01/21/25					
Fluoride	0.00	mg/L							
Sulfate	0.00	mg/L							
Chloride	0.856	mg/L							
Calibration Check (B523262-CCV1)				Prepared & Analyzed: 01/21/25					
Chloride	4.71	mg/L				94	90-110		
Fluoride	4.82	mg/L				96	90-110		
Sulfate	4.76	mg/L				95	90-110		
Matrix Spike (B523262-MS1)				Sample: IA02625-01		Prepared & Analyzed: 01/22/25			
Chloride	3.5	mg/L	Q1	1.500	2.6	56	80-120		
Fluoride	1.66	mg/L		1.500	0.317	90	80-120		
Matrix Spike (B523262-MS4)				Sample: IA02984-01		Prepared & Analyzed: 01/21/25			
Chloride	< 1.0	mg/L	Q1	1.500	61	NR	80-120		
Fluoride	1.50	mg/L		1.500	0.235	85	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	113	NR	80-120		
Matrix Spike Dup (B523262-MSD1)				Sample: IA02625-01		Prepared & Analyzed: 01/22/25			
Chloride	3.5	mg/L	Q2	1.500	2.6	57	80-120	0.2	20
Fluoride	1.66	mg/L		1.500	0.317	89	80-120	0.2	20
Matrix Spike Dup (B523262-MSD4)				Sample: IA02984-01		Prepared & Analyzed: 01/21/25			
Sulfate	1.00E9	mg/L	Q4	1.500	113	NR	80-120	0	20
Chloride	< 1.0	mg/L	Q2	1.500	61	NR	80-120		20
Fluoride	1.51	mg/L		1.500	0.235	85	80-120	0.8	20
Batch B523431 - IC No Prep - EPA 300.0 REV 2.1									
Blank (B523431-BLK1)				Prepared & Analyzed: 01/23/25					
Chloride	< 1.0	mg/L							
Sulfate	< 1.0	mg/L							
Calibration Blank (B523431-CCB1)				Prepared & Analyzed: 01/23/25					

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Calibration Blank (B523431-CCB1)				Prepared & Analyzed: 01/23/25					
Sulfate	0.00	mg/L							
Chloride	0.326	mg/L							
Calibration Check (B523431-CCV1)				Prepared & Analyzed: 01/23/25					
Sulfate	5.34	mg/L		5.000		107	90-110		
Chloride	5.24	mg/L		5.000		105	90-110		
Matrix Spike (B523431-MS1)				Sample: IA03310-01 Prepared & Analyzed: 01/23/25					
Chloride	1.0E9	mg/L	Q4	1.500	32	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	87.6	NR	80-120		
Matrix Spike Dup (B523431-MSD1)				Sample: IA03310-01 Prepared & Analyzed: 01/23/25					
Chloride	1.0E9	mg/L	Q4	1.500	32	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4	1.500	87.6	NR	80-120	0	20
<u>Batch B523440 - No Prep - SM 2540 C-2011</u>									
Blank (B523440-BLK1)				Prepared: 01/24/25 Analyzed: 01/27/25					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B523440-BS1)				Prepared: 01/24/25 Analyzed: 01/27/25					
Solids - total dissolved solids (TDS)	973	mg/L		1000		97	84.4-107		
Duplicate (B523440-DUP1)				Sample: IA02984-01 Prepared: 01/24/25 Analyzed: 01/27/25					
Solids - total dissolved solids (TDS)	925	mg/L			930			0.5	5
Duplicate (B523440-DUP2)				Sample: IA03310-01 Prepared: 01/24/25 Analyzed: 01/27/25					
Solids - total dissolved solids (TDS)	870	mg/L	M		920			6	5
<u>Batch B523575 - No Prep - SM 2320 B-2011</u>									
Duplicate (B523575-DUP1)				Sample: IA02353-01 Prepared & Analyzed: 01/27/25					
Alkalinity - carbonate as CaCO ₃	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO ₃	388	mg/L			388			0	10
Duplicate (B523575-DUP2)				Sample: IA02625-01 Prepared & Analyzed: 01/27/25					
Alkalinity - carbonate as CaCO ₃	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO ₃	412	mg/L			400			3	10
<u>Batch B523579 - No Prep - SM 4500-F C-2011</u>									
Calibration Blank (B523579-CCB1)				Prepared & Analyzed: 01/27/25					
Fluoride	0.0480	mg/L							
Calibration Blank (B523579-CCB2)				Prepared & Analyzed: 01/27/25					
Fluoride	0.0350	mg/L							
Calibration Check (B523579-CCV1)				Prepared & Analyzed: 01/27/25					
Fluoride	0.640	mg/L		0.7000		91	90-110		
Calibration Check (B523579-CCV2)				Prepared & Analyzed: 01/27/25					
Fluoride	0.649	mg/L		0.7000		93	90-110		
Matrix Spike (B523579-MS5)				Sample: IA03310-03 Prepared & Analyzed: 01/27/25					
Fluoride	1.20	mg/L		1.000	0.227	97	80-120		
Matrix Spike Dup (B523579-MSD5)				Sample: IA03310-03 Prepared & Analyzed: 01/27/25					
Fluoride	1.25	mg/L		1.000	0.227	102	80-120	5	20
<u>Batch B523627 - SW 3015 - EPA 6010B</u>									
Blank (B523627-BLK1)				Prepared: 01/28/25 Analyzed: 02/04/25					
Lithium	< 0.020	mg/L							

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B523627-BS1)				Prepared: 01/28/25 Analyzed: 02/04/25					
Lithium	0.596	mg/L		0.5556		107	80-120		
<u>Batch B523627 - SW 3015 - EPA 6020A</u>									
Blank (B523627-BLK1)				Prepared: 01/28/25 Analyzed: 01/30/25					
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	0.218	mg/L	B2						
Thallium	< 1.0	ug/L							
LCS (B523627-BS1)				Prepared: 01/28/25 Analyzed: 01/30/25					
Antimony	533	ug/L		555.6		96	80-120		
Arsenic	541	ug/L		555.6		97	80-120		
Barium	562	ug/L		555.6		101	80-120		
Beryllium	546	ug/L		555.6		98	80-120		
Boron	544	ug/L		555.6		98	80-120		
Cadmium	536	ug/L		555.6		97	80-120		
Calcium	5.90	mg/L		5.556		106	80-120		
Chromium	555	ug/L		555.6		100	80-120		
Cobalt	556	ug/L		555.6		100	80-120		
Lead	554	ug/L		555.6		100	80-120		
Magnesium	6.04	mg/L		5.556		109	80-120		
Mercury	60.7	ug/L		55.56		109	80-120		
Molybdenum	537	ug/L		555.6		97	80-120		
Potassium	5.97	mg/L		5.556		107	80-120		
Selenium	548	ug/L		555.6		99	80-120		
Sodium	5.99	mg/L		5.556		108	80-120		
Thallium	546	ug/L		555.6		98	80-120		
Matrix Spike (B523627-MS1)				Sample: IA03310-01 Prepared: 01/28/25 Analyzed: 01/30/25					
Antimony	531	ug/L		555.6	ND	96	75-125		
Arsenic	546	ug/L		555.6	ND	98	75-125		
Barium	647	ug/L		555.6	87.0	101	75-125		
Beryllium	554	ug/L		555.6	ND	100	75-125		
Boron	565	ug/L		555.6	14.3	99	75-125		
Cadmium	542	ug/L		555.6	ND	98	75-125		
Calcium	200	mg/L	Q4	5.556	197	62	75-125		

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (B523627-MS1)				Sample: IA03310-01		Prepared: 01/28/25 Analyzed: 01/30/25			
Chromium	556	ug/L	Q4	555.6	ND	100	75-125		
Cobalt	541	ug/L		555.6	ND	97	75-125		
Lead	546	ug/L		555.6	ND	98	75-125		
Magnesium	117	mg/L		5.556	114	60	75-125		
Mercury	68.6	ug/L		55.56	0.244	123	75-125		
Molybdenum	561	ug/L		555.6	ND	101	75-125		
Potassium	6.60	mg/L		5.556	0.760	105	75-125		
Selenium	559	ug/L		555.6	ND	101	75-125		
Sodium	18.4	mg/L		5.556	12.7	102	75-125		
Thallium	544	ug/L		555.6	ND	98	75-125		
Matrix Spike Dup (B523627-MSD1)				Sample: IA03310-01		Prepared: 01/28/25 Analyzed: 01/30/25			
Antimony	543	ug/L	Q4	555.6	ND	98	75-125	2	20
Arsenic	563	ug/L		555.6	ND	101	75-125	3	20
Barium	644	ug/L		555.6	87.0	100	75-125	0.6	20
Beryllium	565	ug/L		555.6	ND	102	75-125	2	20
Boron	577	ug/L		555.6	14.3	101	75-125	2	20
Cadmium	550	ug/L		555.6	ND	99	75-125	2	20
Calcium	199	mg/L		5.556	197	40	75-125	0.6	20
Chromium	562	ug/L		555.6	ND	101	75-125	1	20
Cobalt	552	ug/L	Q4	555.6	ND	99	75-125	2	20
Lead	559	ug/L		555.6	ND	101	75-125	2	20
Magnesium	118	mg/L		5.556	114	64	75-125	0.2	20
Mercury	68.2	ug/L		55.56	0.244	122	75-125	0.6	20
Molybdenum	564	ug/L		555.6	ND	102	75-125	0.5	20
Potassium	6.59	mg/L		5.556	0.760	105	75-125	0.04	20
Selenium	564	ug/L		555.6	ND	102	75-125	0.9	20
Sodium	18.4	mg/L		5.556	12.7	102	75-125	0.2	20
Thallium	559	ug/L		555.6	ND	101	75-125	3	20
Batch B523753 - No Prep - SM 2320 B-2011									
Duplicate (B523753-DUP1)				Sample: IA02984-01		Prepared & Analyzed: 01/29/25			
Alkalinity - bicarbonate as CaCO3	762	mg/L			725			5	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Batch B524036 - IC No Prep - EPA 300.0 REV 2.1									
Blank (B524036-BLK1)				Prepared & Analyzed: 01/31/25					
Chloride	< 1.0	mg/L							
Sulfate	< 1.0	mg/L							
Calibration Blank (B524036-CCB1)				Prepared & Analyzed: 01/31/25					
Sulfate	0.00	mg/L							
Chloride	0.00	mg/L							
Calibration Check (B524036-CCV1)				Prepared & Analyzed: 01/31/25					
Sulfate	5.04	mg/L		5.000		101	90-110		
Chloride	5.13	mg/L		5.000		103	90-110		
Matrix Spike (B524036-MS1)				Sample: IA04610-01		Prepared & Analyzed: 01/31/25			
Sulfate	1.00E9	mg/L	Q4	1.500	29.5	NR	80-120		
Chloride	7.9	mg/L		1.500	6.2	116	80-120		

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (B524036-MS2)									
Sample: IA04610-02				Prepared & Analyzed: 01/31/25					
Chloride	6.8	mg/L		1.500	5.1	117	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	73.1	NR	80-120		
Matrix Spike (B524036-MS3)									
Sample: IA04610-03				Prepared & Analyzed: 01/31/25					
Sulfate	1.00E9	mg/L	Q4	1.500	171	NR	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	9.2	NR	80-120		
Matrix Spike Dup (B524036-MSD1)									
Sample: IA04610-01				Prepared & Analyzed: 01/31/25					
Chloride	7.9	mg/L		1.500	6.2	119	80-120	0.5	20
Sulfate	1.00E9	mg/L	Q4	1.500	29.5	NR	80-120	0	20
Matrix Spike Dup (B524036-MSD2)									
Sample: IA04610-02				Prepared & Analyzed: 01/31/25					
Chloride	6.8	mg/L		1.500	5.1	118	80-120	0.09	20
Sulfate	1.00E9	mg/L	Q4	1.500	73.1	NR	80-120	0	20
Matrix Spike Dup (B524036-MSD3)									
Sample: IA04610-03				Prepared & Analyzed: 01/31/25					
Sulfate	1.00E9	mg/L	Q4	1.500	171	NR	80-120	0	20
Chloride	1.0E9	mg/L	Q4	1.500	9.2	NR	80-120	0	20
<u>Batch B524060 - SW 3015 - EPA 6010B</u>									
Blank (B524060-BLK1)									
				Prepared: 02/03/25 Analyzed: 02/04/25					
Lithium	< 0.020	mg/L							
LCS (B524060-BS1)									
				Prepared: 02/03/25 Analyzed: 02/04/25					
Lithium	0.600	mg/L		0.5556		108	80-120		
<u>Batch B524060 - SW 3015 - EPA 6020A</u>									
Blank (B524060-BLK1)									
				Prepared: 02/03/25 Analyzed: 02/06/25					
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 (B524060-BS1)									
				Prepared: 02/03/25 Analyzed: 02/06/25					
Antimony	516	ug/L		555.6		93	80-120		
Arsenic	533	ug/L		555.6		96	80-120		
Barium	552	ug/L		555.6		99	80-120		
Beryllium	613	ug/L		555.6		110	80-120		
Boron	566	ug/L		555.6		102	80-120		
Cadmium	558	ug/L		555.6		100	80-120		

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B524060-BS1)				Prepared: 02/03/25 Analyzed: 02/06/25					
Calcium	5.78	mg/L		5.556		104	80-120		
Chromium	576	ug/L		555.6		104	80-120		
Cobalt	584	ug/L		555.6		105	80-120		
Lead	575	ug/L		555.6		104	80-120		
Magnesium	6.49	mg/L		5.556		117	80-120		
Mercury	52.0	ug/L		55.56		94	80-120		
Molybdenum	572	ug/L		555.6		103	80-120		
Potassium	6.01	mg/L		5.556		108	80-120		
Selenium	543	ug/L		555.6		98	80-120		
Sodium	6.38	mg/L		5.556		115	80-120		
Thallium	568	ug/L		555.6		102	80-120		
<u>Batch B524069 - No Prep - SM 2540 C-2011</u>									
Blank (B524069-BLK1)				Prepared: 02/03/25 Analyzed: 02/04/25					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B524069-BS1)				Prepared: 02/03/25 Analyzed: 02/04/25					
Solids - total dissolved solids (TDS)	927	mg/L		1000		93	84.4-107		
<u>Batch B524192 - No Prep - SM 2320 B-2011</u>									
Duplicate (B524192-DUP2)				Sample: IA04610-01		Prepared & Analyzed: 02/04/25			
Alkalinity - carbonate as CaCO3	< 10	mg/L				ND			10
Alkalinity - bicarbonate as CaCO3	475	mg/L				475		0	10
<u>Batch B524198 - No Prep - SM 2540 C-2011</u>									
Blank (B524198-BLK1)				Prepared: 02/04/25 Analyzed: 02/05/25					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B524198-BS1)				Prepared: 02/04/25 Analyzed: 02/05/25					
Solids - total dissolved solids (TDS)	957	mg/L		1000		96	84.4-107		
Duplicate (B524198-DUP1)				Sample: IA04610-01		Prepared: 02/04/25 Analyzed: 02/05/25			
Solids - total dissolved solids (TDS)	530	mg/L				520		2	5
<u>Batch B524317 - No Prep - SM 4500-F C-2011</u>									
Calibration Blank (B524317-CCB1)				Prepared & Analyzed: 02/05/25					
Fluoride	0.0330	mg/L							
Calibration Check (B524317-CCV1)				Prepared & Analyzed: 02/05/25					
Fluoride	0.662	mg/L		0.7000		95	90-110		

NOTES

Specifications regarding method revisions and method modifications 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

- B2 Contamination does not impact data since sample result is greater than ten times the contamination level found in the blank.
- 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.
- V2 Acceptance criteria for the Continuing Calibration Verification (CCV) were exceeded high with associated non-detect samples. The associated non-detect results are qualified and reported.



Certified by: Diane Billings, Project Manager



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 Clico Rd Canton, IL 61520	Copy To:	Sam Davies, samantha.davies@vistracorp.com Daryl Johnson, Robert.Johnson@vistracorp.com
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:	
Phone:	(217) 753-8911	Project Name:	
Fax:		Project Number:	
Requested Due Date/TAT:	10 day		

Section B
Required Project Information:

Attention:	Brian Voelker	Company Name:	Vistra Corp
Address:	see Section A	Address:	
Project Manager:		Project Reference:	
Project #:		Project Manager:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location
STATE: IL

Section D Required Client Information		Valid Matrix Codes CODE DOMESTIC WATER LW WATER WW WASTE WATER PRODUCT P SOL/SOLID SL OTHER SOL OT OTHER APT OTHER TS		COLLECTED		MATRIX CODE (see valid codes to left)		SAMPLE TYPE (G=GRAB C=COMP)		DATE		TIME		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.	
ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE																												
1	G07L																												
2	G08L																												
3	G09L																												
4	G09S																												
5	G12L																												
6	G12S																												
7	G14L																												
8	G15L																												
9	G15S																												
10	G16L																												
11	G50L																												
12	G50S																												
13	G51L	WT G	01/07/25	12:42																									
14	G51S																												
15	G52L																												
16	G52S	WT G	01/07/25	13:50																									

ADDITIONAL COMMENTS
DC-25Q1 Rev 0

RELINQUISHED BY / AFFILIATION
Andy Johnson

DATE
01/07/25

TIME
16:54

ACCEPTED BY / AFFILIATION
[Signature]

DATE
1/9/25

TIME
16:54

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Andy Johnson
SIGNATURE of SAMPLER:	[Signature]
DATE Signed (MM/DD/YY):	01/07/25

Temp in °C	44
Received on Ice (Y/N)	Y
Custody Sealed Cooler (Y/N)	N
Samples Intact (Y/N)	Y

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

Page: 4 of 10

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 Clico Rd Canton, IL 61520
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:	Sam Davies, samantha.davies@vistracorp.com
Purchase Order No.:	Daryl Johnson, Robert.Johnson@vistracorp.com
Project Name:	
Project Number:	

Section C

Invoice Information:

Attention:	Brian Voelker
Company Name:	Vistra Corp
Address:	see Section A
Quote:	
Reference:	
Project:	
Manager:	
Profile #	

Page: 5 of 10

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location
STATE: IL

ITEM #	Valid Matrix Codes (A-Z, 0-9 /, -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	Preservatives								Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.		
										H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other							
1	G73L																						
2	L103																						
3	OM01																						
4	OM04S																						
5	OM05S																						
6	OM07																						
7	OM08																						
8	OM09																						
9	OM10																						
10	OM100D																						
11	OM100S																						
12	OM101D																						
13	OM101S																						
14	OM12																						
15	OM12D																						
16	OM15																						
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS		Temp in °C		Received on Ice (Y/N)		Custody Sealed Cooler (Y/N)		Samples Intact (Y/N)	
DC-25Q1 Rev 0		[Signature]		01/09/25		16:54		[Signature]		01/09/25		16:54				44		Y		N		Y	
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		DATE Signed (MM/DD/YY):		TIME Signed		DATE Signed		TIME Signed		DATE Signed		TIME Signed		DATE Signed		TIME Signed		DATE Signed		TIME Signed	
[Signature]		[Signature]		01/09/25		16:54		[Signature]		01/09/25		16:54				44		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 A Required Client Information:

Company	Vistra Corp-Duck Creek	Report To	Brian Voelker
Address:	17751 North Clico Rd Canton, IL 61520	Copy To:	Sam Davies, samantha.davies@vistracorp.com Daryl Johnson, Robert.Johnson@vistracorp.com
Email To:	Brian.Voelker@vistracorp.com	Purchase Order No.:	
Phone:	(217) 753-8911	Project Name:	
Requested Due Date/TAT:	10 day	Project Number:	

Section B Required Project Information:

Section C Invoice Information:

Attention:	Brian Voelker
Company Name:	Vistra Corp
Address:	see Section A
Duplicate Reference:	
Project Manager:	
Project #	

REGULATORY AGENCY	
NPDES	GROUND WATER
UST	RCRA
OTHER	OTHER
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)	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-845-203	DC-845-205	DC-CLOSURE-201-202	DC-HCR-201-202	DC-SUP-000	DC-WPCP-203-206	Residual Chlorine (Y/N)	Project No./Lab I.D.
1	OM15D																											
2	OM16																											
3	OM17																											
4	OM17D																											
5	OM21																											
6	OM22D																											
7	OM22S																											
8	OM23D																											
9	OM23S																											
10	OM24D																											
11	OM25D																											
12	OM25S																											
13	OR02																											
14	OR03D																											
15	OR03S																											
16	OR04D																											
ADDITIONAL COMMENTS		REINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)													
DC-25Q1 Rev 0		Andy Meteska		01/09/25	16:54	Andy Meteska		01/09/25	16:54			11:11	Y	N	Y													

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

Page: 10 of 10

ENV-FRM-0001-0001-0001 Sample Condition Upon Receipt

Client Name: Vistra DC Work Order #: 1A01454 Completed by / Date: ZC 1/9/23
Custody Seal on Cooler/Box Present: Yes ☐ No ☐ Seals intact: Yes ☐ No ☐ N/A ☐

Chain of Custody (CoC) Present:	☒ Yes ☐ No	
CoC is Legible:	☒ Yes ☐ No	
Sampler Name Present on CoC:	☒ Yes ☐ No	
Sampler Signature Present on CoC:	☒ Yes ☐ No	
Sample Collection Date Present on CoC:	☒ Yes ☐ No	
Sample Collection Time Present on CoC:	☒ Yes ☐ No	
CoC Relinquished by Client:	☒ Yes ☐ No	
Unique Sample ID's Present on CoC:	☒ Yes ☐ No	
CoC and Sample Container Labels Match:	☒ Yes ☐ No	
Sample chilling process started prior to receipt: If yes, what type of ice:	☒ Yes ☐ No ☐ N/A ☒ Wet ☐ Blue	
Samples received within temperature compliance: ($\leq 6^{\circ}\text{C}$, but above freezing or received same day collected and chill process started prior to receipt)	☒ Yes ☐ No ☐ N/A	
Container(s) Received Intact:	☒ Yes ☐ No	
Containers Received Labeled and Labels are Legible:	☒ Yes ☐ No	
Appropriate Bottles Received for Analysis Requested:	☒ Yes ☐ No	
Sufficient Sample Volume Received:	☒ Yes ☐ No	
USDA Regulated Soil:		
Country of Origin: _____	☐ Yes ☐ No ☒ N/A	
State of Origin: _____		
Trip Blank(s) Received:	☐ Yes ☐ No ☒ N/A	
If present, are they Listed on CoC:	☐ Yes ☐ No	
Headspace (<6 mm or no bubbles) present in VOA vials – (Methods 8260, 624, 524.2 - including THM vials) If headspace is present, note sample ID and # of vials	☐ Yes ☐ No ☒ N/A	
All (Non-Field) Analysis Received Within Hold Times:	☒ Yes ☐ No	
Rush Turn Around Time Requested:	☐ Yes ☒ No	
Short Hold Time Analysis (48 Hours or Less):	☐ Yes ☒ No	

Client Notification/ Resolution:

If checked, please see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample.

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

Page: 1 of 10

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Justin Mole		
SIGNATURE of SAMPLER:	<i>Justin Mole</i>	DATE Signed (MM/DD/YY):	01/15/25
Temp in °C		Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)
			Samples Intact (Y/N)

ENV-FRM-PEQR-0098-003 Sample Condition Upon Receipt

Client Name: Vistra Work Order #: _____ Completed by / Date: UAPI 11/15/25

Custody Seal on Cooler/Box Present: Yes ☐ No ☒ Seals intact: Yes ☐ No ☐ N/A ☒

Chain of Custody (CoC) Present:	☒ Yes ☐ No	
CoC is Legible:	☒ Yes ☐ No	
Sampler Name Present on CoC:	☒ Yes ☐ No	
Sampler Signature Present on CoC:	☒ Yes ☐ No	
Sample Collection Date Present on CoC:	☒ Yes ☐ No	
Sample Collection Time Present on CoC:	☒ Yes ☐ No	
CoC Relinquished by Client:	☒ Yes ☐ No	
Unique Sample ID's Present on CoC:	☒ Yes ☐ No	
CoC and Sample Container Labels Match:	☒ Yes ☐ No	
Sample chilling process started prior to receipt: If yes, what type of ice:	☒ Yes ☐ No ☐ N/A ☐ Wet ☐ Blue	
Samples received within temperature compliance: ($\leq 6^{\circ}\text{C}$, but above freezing or received same day collected and chill process started prior to receipt)	☒ Yes ☐ No ☐ N/A	
Container(s) Received Intact:	☒ Yes ☐ No	
Containers Received Labeled and Labels are Legible:	☒ Yes ☐ No	
Appropriate Bottles Received for Analysis Requested:	☒ Yes ☐ No	
Sufficient Sample Volume Received:	☒ Yes ☐ No	
USDA Regulated Soil:		
Country of Origin: _____	☐ Yes ☐ No ☒ N/A	
State of Origin: _____		
Trip Blank(s) Received:	☐ Yes ☐ No ☒ N/A	
If present, are they Listed on CoC:	☐ Yes ☐ No	
Headspace (<6 mm or no bubbles) present in VOA vials – (Methods 8260, 624, 524.2 - including THM vials) If headspace is present, note sample ID and # of vials	☐ Yes ☐ No ☒ N/A	
All (Non-Field) Analysis Received Within Hold Times:	☐ Yes ☒ No	
Rush Turn Around Time Requested:	☐ Yes ☒ No	
Short Hold Time Analysis (48 Hours or Less):	☐ Yes ☒ No	

Client Notification/ Resolution:

If checked, please see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample.

	Plastic Bottles									
	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10
P, U, 1000ml - Total	1	1	1		1	1	1	2	1	
P, U, 250ml										
P, U, 500ml - Total										
P, U, 500ml - Diss	1	1	1	1	1	1	1		1	
P, 250ml/500ml H ₂ SO ₄ - Total										
P, 250ml/500ml H ₂ SO ₄ - Diss										
P, 250ml/500ml NaOH										
P, 250ml/500ml HNO ₃ - Total	1	1	1	1	2	1	1	1	1	
P, 250ml/500ml HNO ₃ - Diss										
P, 500ml NaOH + ZnAc										
P, U, 150ml/4oz TC										
P, 2.5L HNO ₃	1	1	1	1	1	1	1	1	1	
P, U, 2.5L										
P, U, 50ml										
S, P, 120ml Na ₂ S ₂ O ₃										
P, 16oz - Soil/Sludge										
	Amber Glass Bottles - Vials									
A, G, U, 1000ml										
A, G, 1000ml HCl										
A, G, 1000ml MeCl ₂										
A, G, 500ml H ₂ SO ₄										
A, G, U, 500ml										
A, G, U, 250ml H ₂ SO ₄										
A, G, U, 250ml										
A, V, 40ml H ₂ SO ₄										
A, V, U, 60ml										
	Clear Glass Bottles - Soil/Sludge Jars - Vials									
C, G, 1000ml HCl										
C, G, U, 1000ml										
C, G, U, 250ml - LLHg										
C, G, U, 250ml - LLHg - FB										
C, G, 16oz - Soil Jar										
C, G, 9oz - Soil Jar										
C, G, 4oz - Soil Jar										
C, G, 2oz - Soil Jar										
C, V, 40ml TSP										
C, V, 40ml HCl										
C, V, U, 40ml										
C, V, 40ml Na ₂ S ₂ O ₃										
C, V, 40ml MeOH										
C, V, 40ml Sodium Bisulfate										
C, V, U, 60ml										
	Client Supplied									
Description										

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 Cilco 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:	Project Name:	
Requested Due Date/TAT:	10 day	Project Number:	

Section B Required Project Information:

Section C Invoice Information:

Attention:	Brian Voelker	Company Name:	Vistra Corp
Address:	see Section A	Code:	
Reference:		Project Manager:	
Profile #:		Site Location:	IL
		STATE:	

11A02625

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	6-095	DRINKING WATER DW		6-09-25	1600	4	X	X	DC-257-203			
2	6-095	WASTE WATER WW			1213	3	X	X	DC-257-204			
3	6-095	WASTE WATER WW			1318	3	X	X	DC-257-205			
4	6-095	PRODUCT P			1436	3	X	X	DC-811-204			
5	6-095	SCUM/SOLID S			1532	3	X	X	DC-845-203			
6	6-095	WASTE WATER WW			1609	3	X	X	DC-845-205			
7	6-095	WASTE WATER WW			1612	3	X	X	DC-CLOSURE-201-202			
8	6-095	WASTE WATER WW			1612	3	X	X	DC-HCR-201-202			
9	6-095	WASTE WATER WW			1612	3	X	X	DC-SUP-000			
10	6-095	WASTE WATER WW			1612	3	X	X	DC-WPCP-203-206			
11	6-095	WASTE WATER WW			1612	3	X	X				
12	6-095	WASTE WATER WW			1612	3	X	X				
13	6-095	WASTE WATER WW			1612	3	X	X				
14	6-095	WASTE WATER WW			1612	3	X	X				
15	6-095	WASTE WATER WW			1612	3	X	X				
16	6-095	WASTE WATER WW			1612	3	X	X				

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION

DATE

TIME

ACCEPTED BY / AFFILIATION

DATE

TIME

SAMPLE CONDITIONS

Temp in °C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YYYY):

Temp in °C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

ENV-PM-PEOR-0098 v03_Sample Condition Upon Receipt

Client Name: Vistra Work Order #: _____ Completed by / Date: ZC 1/16/25
Custody Seal on Cooler/Box Present: Yes ☐ No ☐ Seals intact: Yes ☐ No ☐ N/A ☐

Chain of Custody (CoC) Present:	☒ Yes ☐ No	
CoC is Legible:	☒ Yes ☐ No	
Sampler Name Present on CoC:	☒ Yes ☐ No	
Sampler Signature Present on CoC:	☒ Yes ☐ No	
Sample Collection Date Present on CoC:	☒ Yes ☐ No	
Sample Collection Time Present on CoC:	☒ Yes ☐ No	
CoC Relinquished by Client:	☒ Yes ☐ No	
Unique Sample ID's Present on CoC:	☒ Yes ☐ No	
CoC and Sample Container Labels Match:	☐ Yes ☐ No	
Sample chilling process started prior to receipt: If yes, what type of ice:	☐ Yes ☐ No ☐ N/A ☒ Wet ☐ Blue	
Samples received within temperature compliance: ($\leq 6^{\circ}\text{C}$, but above freezing or received same day collected and chill process started prior to receipt)	☐ Yes ☐ No ☐ N/A	
Container(s) Received Intact:	☒ Yes ☐ No	
Containers Received Labeled and Labels are Legible:	☒ Yes ☐ No	
Appropriate Bottles Received for Analysis Requested:	☒ Yes ☐ No	
Sufficient Sample Volume Received:	☒ Yes ☐ No	
USDA Regulated Soil: Country of Origin: _____ State of Origin: _____	☐ Yes ☐ No ☒ N/A	
Trip Blank(s) Received: If present, are they Listed on CoC:	☐ Yes ☐ No ☒ N/A ☐ Yes ☐ No	
Headspace (<6 mm or no bubbles) present in VOA vials – (Methods 8260, 624, 524.2 - including THM vials) If headspace is present, note sample ID and # of vials	☐ Yes ☐ No ☒ N/A	
All (Non-Field) Analysis Received Within Hold Times:	☒ Yes ☐ No	
Rush Turn Around Time Requested:	☐ Yes ☒ No	
Short Hold Time Analysis (48 Hours or Less):	☐ Yes ☒ No	

Client Notification/ Resolution: _____ If checked, please see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample.

	Plastic Bottles									
	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10
P, U, 1000ml - Total	1									
P, U, 250ml										
P, U, 500ml - Total		1								
P, U, 500ml - Diss	1	1								
P, 250ml/500ml H ₂ SO ₄ - Total										
P, 250ml/500ml H ₂ SO ₄ - Diss										
P, 250ml/500ml NaOH										
P, 250ml/500ml HNO ₃ - Total	1									
P, 250ml/500ml HNO ₃ - Diss		1								
P, 500ml NaOH + ZnAc										
P, U, 150ml/4oz TC										
P, 2.5L HNO ₃										
P, U, 2.5L										
P, U, 50ml										
S, P, 120ml Na ₂ S ₂ O ₃										
P, 16oz - Soil/Sludge										
Amber Glass Bottles - Vials										
A, G, U, 1000ml										
A, G, 1000ml HCl										
A, G, 1000ml MeCl ₂										
A, G, 500ml H ₂ SO ₄										
A, G, U, 500ml										
A, G, U, 250ml H ₂ SO ₄										
A, G, U, 250ml										
A, V, 40ml H ₂ SO ₄										
A, V, U, 60ml										
Clear Glass Bottles - Soil/Sludge Jars - Vials										
C, G, 1000ml HCl										
C, G, U, 1000ml										
C, G, U, 250ml - LLHg										
C, G, U, 250ml - LLHg - FB										
C, G, 16oz - Soil Jar										
C, G, 9oz - Soil Jar										
C, G, 4oz - Soil Jar										
C, G, 2oz - Soil Jar										
C, V, 40ml TSP										
C, V, 40ml HCl										
C, V, U, 40ml										
C, V, 40ml Na ₂ S ₂ O ₃										
C, V, 40ml MeOH										
C, V, 40ml Sodium Bisulfate										
C, V, U, 60ml										
Client Supplied										
Description										

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

52

ENV-FRM-RPQR-0098 v03_Sample Condition Upon Receipt

Client Name: Vistra-Duck Creek Work Order #: IA02984 Completed by / Date: API/1/20/25

Custody Seal on Cooler/Box Present: Yes ☐ No ☒ Seals intact: Yes ☐ No ☐ N/A ☒

Chain of Custody (CoC) Present:	☒ Yes ☐ No	
CoC is Legible:	☒ Yes ☐ No	
Sampler Name Present on CoC:	☒ Yes ☐ No	
Sampler Signature Present on CoC:	☒ Yes ☐ No	
Sample Collection Date Present on CoC:	☒ Yes ☐ No	
Sample Collection Time Present on CoC:	☒ Yes ☐ No	
CoC Relinquished by Client:	☒ Yes ☐ No	
Unique Sample ID's Present on CoC:	☒ Yes ☐ No	
CoC and Sample Container Labels Match:	☒ Yes ☐ No	
Sample chilling process started prior to receipt: If yes, what type of ice:	☒ Yes ☐ No ☐ N/A ☒ Wet ☐ Blue	
Samples received within temperature compliance: ($\leq 6^{\circ}\text{C}$, but above freezing or received same day collected and chill process started prior to receipt)	☒ Yes ☐ No ☐ N/A	
Container(s) Received Intact:	☒ Yes ☐ No	
Containers Received Labeled and Labels are Legible:	☒ Yes ☐ No	
Appropriate Bottles Received for Analysis Requested:	☒ Yes ☐ No	
Sufficient Sample Volume Received:	☒ Yes ☐ No	
USDA Regulated Soil: Country of Origin: _____ State of Origin: _____	☐ Yes ☐ No ☒ N/A	
Trip Blank(s) Received: If present, are they Listed on CoC:	☐ Yes ☐ No ☒ N/A ☐ Yes ☐ No	
Headspace (<6 mm or no bubbles) present in VOA vials – (Methods 8260, 624, 524.2 - including THM vials) If headspace is present, note sample ID and # of vials	☐ Yes ☐ No ☒ N/A	
All (Non-Field) Analysis Received Within Hold Times:	☒ Yes ☐ No	
Rush Turn Around Time Requested:	☐ Yes ☒ No	
Short Hold Time Analysis (48 Hours or Less):	☐ Yes ☒ No	

Client Notification/ Resolution:

If checked, please see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample.

	Plastic Bottles									
	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10
P, U, 1000ml - Total	1		1	1	1					
P, U, 250ml										
P, U, 500ml - Total	1	2	1	1	1	CAPI 11/20/25				
P, U, 500ml - Diss	1	2	1	1	1					
P, 250ml/500ml H ₂ SO ₄ - Total										
P, 250ml/500ml H ₂ SO ₄ - Diss										
P, 250ml/500ml NaOH										
P, 250ml/500ml HNO ₃ - Total	1	1	1	1	1					
P, 250ml/500ml HNO ₃ - Diss										
P, 500ml NaOH + ZnAc										
P, U, 150ml/4oz TC										
P, 2.5L HNO ₃	CAPI 11/20/25		CAPI 11/20/25	CAPI 11/20/25	CAPI 11/20/25					
P, U, 2.5L										
P, U, 50ml										
S, P, 120ml Na ₂ S ₂ O ₃										
P, 16oz - Soil/Sludge										
Amber Glass Bottles - Vials										
A, G, U, 1000ml										
A, G, 1000ml HCl										
A, G, 1000ml MeCl ₂										
A, G, 500ml H ₂ SO ₄										
A, G, U, 500ml										
A, G, U, 250ml H ₂ SO ₄										
A, G, U, 250ml										
A, V, 40ml H ₂ SO ₄										
A, V, U, 60ml										
Clear Glass Bottles - Soil/Sludge Jars - Vials										
C, G, 1000ml HCl										
C, G, U, 1000ml										
C, G, U, 250ml - LLHg										
C, G, U, 250ml - LLHg - FB										
C, G, 16oz - Soil Jar										
C, G, 9oz - Soil Jar										
C, G, 4oz - Soil Jar										
C, G, 2oz - Soil Jar										
C, V, 40ml TSP										
C, V, 40ml HCl										
C, V, U, 40ml										
C, V, 40ml Na ₂ S ₂ O ₃										
C, V, 40ml MeOH										
C, V, 40ml Sodium Bisulfate										
C, V, U, 60ml										
Client Supplied										
Description										

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 Chico Rd Canton, IL 61520
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:	Sara Davies, sarandha.davies@vistracorp.com
Project Name:	Daryl Johnson, Robert.Johnson@vistracorp.com
Purchase Order No.:	
Project Number:	

Section C Invoice Information:

Attention:	Brian Voelker
Company Name:	Vistra Corp
Address:	see Section A
Order Reference:	
Project Manager:	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location
STATE: IL

Requested Analysis Filtered (Y/N)

ITEM #	Valid Matrix Codes	MATRIX CODE	SAMPLE TYPE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G502	WW G	G	01/22/25	10:30		3	Unpreserved	DC-257-203			
2	G515	WW G	G	01/22/25	11:30		4	H ₂ SO ₄	DC-257-204			
3	G515 11223 DVP	WW G	G	01/22/25	11:30		4	HNO ₃	DC-257-205			
4	G505	WW G	G	01/22/25	12:45		4	HCl	DC-811-204			
5	G506	WW G	G	01/22/25	13:30		3	NaOH	DC-845-203			
6	G575	WW G	G	01/22/25	14:50		4	Na ₂ S ₂ O ₃	DC-845-205			
7								Methanol	DC-CLOSURE-201-202			
8								Other	DC-HCR-201-202			
9									DC-SUP-000			
10									DC-WPCP-203-206			
11												
12												
13												
14												
15												
16												

ADDITIONAL COMMENTS

DC-25Q1 Rev 0

RELINQUISHED BY / AFFILIATION

DATE

TIME

ACCEPTED BY / AFFILIATION

DATE

TIME

SAMPLE CONDITIONS

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	DATE Signed
SIGNATURE of SAMPLER:	(MMDDYY):

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

1A03310

ENV-FRM-PHCR-0008 v03 Sample Condition Upon Receipt

Client Name: WJHra-DC Work Order #: 1A03310 Completed by / Date: zu 1/22/25
Custody Seal on Cooler/Box Present: Yes ☐ No ☒ Seals intact: Yes ☐ No ☐ N/A ☒

Chain of Custody (CoC) Present:	☒ Yes ☐ No	
CoC is Legible:	☒ Yes ☐ No	
Sampler Name Present on CoC:	☒ Yes ☐ No	
Sampler Signature Present on CoC:	☒ Yes ☐ No	
Sample Collection Date Present on CoC:	☒ Yes ☐ No	
Sample Collection Time Present on CoC:	☒ Yes ☐ No	
CoC Relinquished by Client:	☒ Yes ☐ No	
Unique Sample ID's Present on CoC:	☒ Yes ☐ No	
CoC and Sample Container Labels Match:	☒ Yes ☐ No	
Sample chilling process started prior to receipt: If yes, what type of ice:	☒ Yes ☐ No ☐ N/A ☒ Wet ☐ Blue	
Samples received within temperature compliance: ($\leq 6^{\circ}\text{C}$, but above freezing or received same day collected and chill process started prior to receipt)	☒ Yes ☐ No ☐ N/A	
Container(s) Received Intact:	☒ Yes ☐ No	
Containers Received Labeled and Labels are Legible:	☒ Yes ☐ No	
Appropriate Bottles Received for Analysis Requested:	☒ Yes ☐ No	
Sufficient Sample Volume Received:	☒ Yes ☐ No	
USDA Regulated Soil:		
Country of Origin: _____	☐ Yes ☐ No ☒ N/A	
State of Origin: _____		
Trip Blank(s) Received:	☐ Yes ☐ No ☒ N/A	
If present, are they Listed on CoC:	☐ Yes ☐ No	
Headspace (<6 mm or no bubbles) present in VOA vials – (Methods 8260, 624, 524.2 - including THM vials) If headspace is present, note sample ID and # of vials	☒ Yes ☐ No ☐ N/A	
All (Non-Field) Analysis Received Within Hold Times:	☒ Yes ☐ No	
Rush Turn Around Time Requested:	☐ Yes ☒ No	
Short Hold Time Analysis (48 Hours or Less):	☐ Yes ☒ No	

Client Notification/ Resolution:

If checked, please see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample.

INITIALS:

TA04610

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	Attention:	Brian Voelker
Address:	17751 North Cilco 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) 753-8911	Project Name:		Project Manager:	
	Fax:	Project Number:		Profile #:	
Requested Due Date/TAT:		10 day			
REGULATORY AGENCY		NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location IL STATE:			

Section D Required Client Information		Valid Matrix Codes		MATRIX CODE (see valid codes to left)		COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Preservatives		Analysis Test		Requested Analysis Filtered (Y/N)		Project No./ Lab I.D.	
ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX	CODE	DATE	TIME														
1	G75LS	DRINKING WATER	DW	01/30/25	10:45														
2	G60S	WASTE WATER	WW	01/30/25	12:15														
3	G60L	WASTE WATER	WW	01/30/25	13:23														
4	Field blank	WASTE WATER	WW	01/30/25	13:23														
5		WASTE WATER	WW																
6		WASTE WATER	WW																
7		WASTE WATER	WW																
8		WASTE WATER	WW																
9		WASTE WATER	WW																
10		WASTE WATER	WW																
11		WASTE WATER	WW																
12		WASTE WATER	WW																
13		WASTE WATER	WW																
14		WASTE WATER	WW																
15		WASTE WATER	WW																
16		WASTE WATER	WW																
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS		Temp in °C		Received on	
DC-25Q1 Rev 0		Andy Williams		01/30/25		14:17		Camden Bennett		01/30/25		14:17		Y		Y		Y	
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YYYY):		SAMPLER INCH (Y/N)		Sealed Cooler (Y/N)		Custody (Y/N)		Samples Intact (Y/N)					
Andy Williams		Andy Williams		Andy Williams		01/30/25													

ENV-FRM-PDOR-0008-003 Sample Condition Upon Receipt

Client Name: Vistra Duckcreek Work Order #: 46610 Completed by / Date: CRB 1-30-25

Custody Seal on Cooler/Box Present: Yes ☐ No ☒ Seals intact: Yes ☐ No ☐ N/A ☒

Chain of Custody (CoC) Present:	☒ Yes ☐ No	
CoC is Legible:	☒ Yes ☐ No	
Sampler Name Present on CoC:	☒ Yes ☐ No	
Sampler Signature Present on CoC:	☒ Yes ☐ No	
Sample Collection Date Present on CoC:	☒ Yes ☐ No	
Sample Collection Time Present on CoC:	☒ Yes ☐ No	
CoC Relinquished by Client:	☒ Yes ☐ No	
Unique Sample ID's Present on CoC:	☒ Yes ☐ No	
CoC and Sample Container Labels Match:	☒ Yes ☐ No	
Sample chilling process started prior to receipt: If yes, what type of ice:	☒ Yes ☐ No ☐ N/A ☒ Wet ☐ Blue	
Samples received within temperature compliance: ($\leq 6^{\circ}\text{C}$, but above freezing or received same day collected and chill process started prior to receipt)	☐ Yes ☒ No ☐ N/A	
Container(s) Received Intact:	☒ Yes ☐ No	
Containers Received Labeled and Labels are Legible:	☒ Yes ☐ No	
Appropriate Bottles Received for Analysis Requested:	☒ Yes ☐ No	
Sufficient Sample Volume Received:	☒ Yes ☐ No	
USDA Regulated Soil:		
Country of Origin: _____	☐ Yes ☐ No ☒ N/A	
State of Origin: _____		
Trip Blank(s) Received:	☐ Yes ☐ No ☒ N/A	
If present, are they Listed on CoC:	☐ Yes ☐ No	
Headspace (<6 mm or no bubbles) present in VOA vials – (Methods 8260, 624, 524.2 - including THM vials) If headspace is present, note sample ID and # of vials	☐ Yes ☐ No ☒ N/A	
All (Non-Field) Analysis Received Within Hold Times:	☒ Yes ☐ No	
Rush Turn Around Time Requested:	☒ Yes ☐ No	<u>10 days</u>
Short Hold Time Analysis (48 Hours or Less):	☐ Yes ☒ No	

Client Notification/ Resolution:

If checked, please see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample.

	Plastic Bottles									
	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10
P, U, 1000ml - Total	1	1	1	1	1					
P, U, 250ml										
P, U, 500ml - Total	X									
P, U, 500ml - Diss	1	1	1							
P, 250ml/500ml H ₂ SO ₄ - Total										
P, 250ml/500ml H ₂ SO ₄ - Diss										
P, 250ml/500ml NaOH										
P, 250ml/500ml HNO ₃ - Total	1	1	1	1						
P, 250ml/500ml HNO ₃ - Diss				1						
P, 500ml NaOH + ZnAc										
P, U, 150ml/4oz TC										
P, 2.5L HNO ₃	1	1	1							
P, U, 2.5L										
P, U, 50ml										
S, P, 120ml Na ₂ S ₂ O ₃										
P, 16oz - Soil/Sludge										
Amber Glass Bottles - Vials										
A, G, U, 1000ml										
A, G, 1000ml HCl										
A, G, 1000ml MeCl ₂										
A, G, 500ml H ₂ SO ₄										
A, G, U, 500ml										
A, G, U, 250ml H ₂ SO ₄										
A, G, U, 250ml										
A, V, 40ml H ₂ SO ₄										
A, V, U, 60ml										
Clear Glass Bottles - Soil/Sludge Jars - Vials										
C, G, 1000ml HCl										
C, G, U, 1000ml										
C, G, U, 250ml - LLHg										
C, G, U, 250ml - LLHg - FB										
C, G, 16oz - Soil Jar										
C, G, 9oz - Soil Jar										
C, G, 4oz - Soil Jar										
C, G, 2oz - Soil Jar										
C, V, 40ml TSP										
C, V, 40ml HCl										
C, V, U, 40ml										
C, V, 40ml Na ₂ S ₂ O ₃										
C, V, 40ml MeOH										
C, V, 40ml Sodium Bisulfate										
C, V, U, 60ml										
Client Supplied										
Description										



Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

February 25, 2025

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.

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

Case Narrative

Original report was sent 2/22/25. Revised report is being sent updating the time taken on BA03.



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

ANALYTICAL RESULTS

Sample: IA01457-01
Name: G64S
Matrix: Ground Water - Grab

Sampled: 01/09/25 15:56
Received: 01/09/25 16:54

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	0.571 J	pCi/L			1	0.716	01/20/25 18:28	PACE	904.0 903.0
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Sample: IA01457-02
Name: OM100D
Matrix: Ground Water - Grab

Sampled: 01/09/25 10:32
Received: 01/09/25 16:54

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	0.842	01/20/25 18:28	PACE	904.0 903.0
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Sample: IA01457-03
Name: OM100S
Matrix: Ground Water - Grab

Sampled: 01/09/25 11:20
Received: 01/09/25 16:54

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	2.13	pCi/L			1	0.827	01/20/25 18:28	PACE	904.0 903.0
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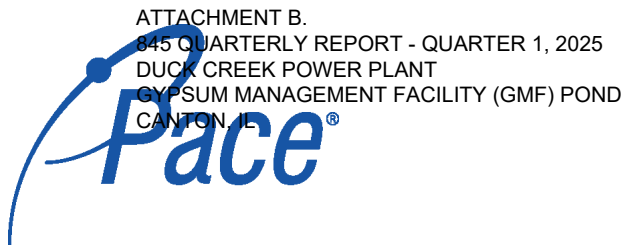
Sample: IA01457-04
Name: OM101D
Matrix: Ground Water - Grab

Sampled: 01/09/25 13:15
Received: 01/09/25 16:54

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	1.47	pCi/L			1	0.909	01/20/25 18:28	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: IA01457-05
Name: OM17D
Matrix: Ground Water - Grab

Sampled: 01/09/25 12:10
Received: 01/09/25 16:54

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	2.23	pCi/L			1	1.52	01/20/25 18:28	PACE	904.0 903.0
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Sample: IA02032-01
Name: OM15D
Matrix: Ground Water - Grab

Sampled: 01/13/25 16:20
Received: 01/14/25 10:00

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	2.87	pCi/L			1	1.76	01/27/25 18:18	PACE	904.0 903.0
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Sample: IA02032-02
Name: OM15D DUP
Matrix: Ground Water - Grab

Sampled: 01/13/25 16:20
Received: 01/14/25 10:00

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	0.355 U	pCi/L			1	2.41	01/27/25 18:18	PACE	904.0 903.0
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Sample: IA02032-03
Name: EB #1
Matrix: DI Water - Equipment Blank

Sampled: 01/13/25 16:25
Received: 01/14/25 10:00

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	0.667 J	pCi/L			1	0.962	01/27/25 18:18	PACE	904.0 903.0
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ANALYTICAL RESULTS

Sample: IA02354-01
Name: BA01
Matrix: Ground Water - Grab

Sampled: 01/15/25 14:40
Received: 01/15/25 17:34

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	1.72	pCi/L			1	1.02	01/27/25 18:18	PACE	904.0 903.0
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Sample: IA02354-02
Name: BA01 DUP
Matrix: Ground Water - Grab

Sampled: 01/15/25 14:40
Received: 01/15/25 17:34

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	1.72	pCi/L			1	0.825	01/27/25 18:18	PACE	904.0 903.0
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Sample: IA02354-03
Name: BA02
Matrix: Ground Water - Grab

Sampled: 01/15/25 16:18
Received: 01/15/25 17:34

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	0.805 J	pCi/L			1	0.807	01/27/25 18:18	PACE	904.0 903.0
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Sample: IA02354-04
Name: OM12D
Matrix: Ground Water - Grab

Sampled: 01/15/25 11:40
Received: 01/15/25 17:34

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	3.79	pCi/L			1	1.06	01/27/25 18:18	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: IA02354-05
Name: G64L
Matrix: Ground Water - Grab

Sampled: 01/15/25 12:10
Received: 01/15/25 17:34

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	1.48	pCi/L			1	0.984	01/27/25 18:18	PACE	904.0 903.0
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Sample: IA02354-06
Name: G61S
Matrix: Ground Water - Grab

Sampled: 01/15/25 14:02
Received: 01/15/25 17:34

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	2.21	pCi/L			1	1.52	01/27/25 18:18	PACE	904.0 903.0
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Sample: IA02354-07
Name: R61L
Matrix: Ground Water - Grab

Sampled: 01/15/25 14:50
Received: 01/15/25 17:34

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	1.03	pCi/L			1	0.817	01/27/25 18:18	PACE	904.0 903.0
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Sample: IA02635-01
Name: G02S
Matrix: Ground Water - Grab

Sampled: 01/16/25 16:00
Received: 01/16/25 17:16

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	0.435 U	pCi/L			1	1.19	01/30/25 18:46	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: IA02985-01
Name: G54L
Matrix: Ground Water - Grab

Sampled: 01/20/25 12:03
Received: 01/20/25 17:01

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	1.31	pCi/L			1	1.19	01/30/25 18:46	PACE	904.0 903.0
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Sample: IA02985-02
Name: BA06
Matrix: Ground Water - Grab

Sampled: 01/20/25 12:25
Received: 01/20/25 17:01

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	2.86	pCi/L			1	1.23	01/31/25 16:37	PACE	904.0 903.0
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Sample: IA02985-03
Name: BA02L
Matrix: Ground Water - Grab

Sampled: 01/20/25 15:35
Received: 01/20/25 17:01

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	33.9	pCi/L			1	3.49	01/31/25 16:37	PACE	904.0 903.0
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Sample: IA02985-04
Name: BA05
Matrix: Ground Water - Grab

Sampled: 01/20/25 13:50
Received: 01/20/25 17:01

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	1.82	pCi/L			1	1.34	01/31/25 16:37	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: IA03314-01
Name: G51S
Matrix: Ground Water - Grab

Sampled: 01/22/25 11:30
Received: 01/22/25 16:30

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	2.21	pCi/L			1	0.607	01/31/25 16:37	PACE	904.0 903.0
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Sample: IA03314-02
Name: G51S DUP
Matrix: Ground Water - Grab

Sampled: 01/22/25 11:30
Received: 01/22/25 16:30

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	0.777	01/31/25 16:37	PACE	904.0 903.0
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Sample: IA03314-03
Name: G50S
Matrix: Ground Water - Grab

Sampled: 01/22/25 12:45
Received: 01/22/25 16:30

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	0.870 J	pCi/L			1	1.2	01/31/25 16:37	PACE	904.0 903.0
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Sample: IA03314-04
Name: G57S
Matrix: Ground Water - Grab

Sampled: 01/22/25 14:50
Received: 01/22/25 16:30

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	0.00812 U	pCi/L			1	1.47	01/31/25 16:37	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: IA04117-01
Name: P60
Matrix: Ground Water - Grab

Sampled: 01/28/25 12:08
Received: 01/28/25 16:45

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	0.704	02/10/25 14:52	PACE	904.0 903.0
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Sample: IA04117-02
Name: P60 DUP
Matrix: Ground Water - Grab

Sampled: 01/28/25 12:08
Received: 01/28/25 16:45

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	1.83	pCi/L			1	0.682	02/10/25 14:52	PACE	904.0 903.0
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Sample: IA04247-01
Name: G62L
Matrix: Ground Water - Grab

Sampled: 01/27/25 12:53
Received: 01/27/25 16:13

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	0.575	pCi/L			1	0.447	02/10/25 14:52	PACE	904.0 903.0
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Sample: IA04429-01
Name: XPW01
Matrix: Ground Water - Grab

Sampled: 01/29/25 14:10
Received: 01/29/25 17:00

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	1.85	pCi/L			1	0.553	02/13/25 13:10	PACE	904.0 903.0
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ANALYTICAL RESULTS

Sample: IA04429-02
Name: EB #2
Matrix: DI Water - Equipment Blank

Sampled: 01/29/25 14:35
Received: 01/29/25 17:00

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	0.395 U	pCi/L			1	0.989	02/13/25 13:10	PACE	904.0 903.0
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Sample: IA04429-03
Name: BA03
Matrix: Ground Water - Grab

Sampled: 01/29/25 12:59
Received: 01/29/25 17:00

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	0.659	pCi/L			1	0.514	02/13/25 13:10	PACE	904.0 903.0
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Sample: IA04429-04
Name: BA03L
Matrix: Ground Water - Grab

Sampled: 01/29/25 13:41
Received: 01/29/25 17:00

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	0.76	pCi/L			1	0.611	02/13/25 13:10	PACE	904.0 903.0
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Sample: IA04429-05
Name: BA04
Matrix: Ground Water - Grab

Sampled: 01/29/25 15:00
Received: 01/29/25 17:00

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	0.310 J	pCi/L			1	0.586	02/13/25 13:10	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: IA04618-01
Name: G54S
Matrix: Ground Water - Grab

Sampled: 01/30/25 10:45
Received: 01/30/25 14:17

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	0.469 J	pCi/L			1	0.511	02/13/25 13:10	PACE	904.0 903.0
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Sample: IA04618-02
Name: G60S
Matrix: Ground Water - Grab

Sampled: 01/30/25 12:15
Received: 01/30/25 14:17

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	1.22	pCi/L			1	1.15	02/13/25 13:10	PACE	904.0 903.0
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Sample: IA04618-03
Name: G60L
Matrix: Ground Water - Grab

Sampled: 01/30/25 13:23
Received: 01/30/25 14:17

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	0.936 J	pCi/L			1	1.23	02/13/25 13:10	PACE	904.0 903.0
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Sample: IA04618-04
Name: Field Blank
Matrix: Ground Water - Grab

Sampled: 01/30/25 13:23
Received: 01/30/25 14:17

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	0.448 U	pCi/L			1	0.533	02/13/25 13:10	PACE	904.0 903.0
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QC SAMPLE RESULTS

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

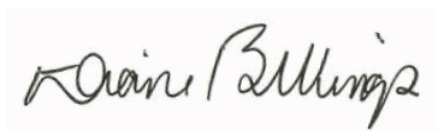
STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

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



Certified by: Diane Billings, Project Manager



ANALYTICAL REPORT

January 29, 2025

Pace IR - Peoria, IL

Sample Delivery Group: L1816826
Samples Received: 01/14/2025
Project Number: IA01457
Description:
Site: 01
Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:



Stephanie M Coble
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 mydata.pacelabs.com

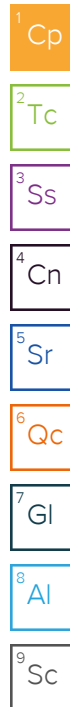


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SAMPLE SUMMARY

IA01457-01 L1816826-01 Non-Potable Water

Collected by
Collected date/time
Received date/time
01/09/25 15:56
01/14/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2433908	1	01/16/25 10:40	01/20/25 18:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2434298	1	01/16/25 10:02	01/20/25 18:28	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2434298	1	01/16/25 10:02	01/16/25 16:52	ZRG	Mt. Juliet, TN

IA01457-02 L1816826-02 Non-Potable Water

Collected by
Collected date/time
Received date/time
01/09/25 10:32
01/14/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2433908	1	01/16/25 10:40	01/20/25 18:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2434298	1	01/16/25 10:02	01/20/25 18:28	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2434298	1	01/16/25 10:02	01/20/25 09:46	ZRG	Mt. Juliet, TN

IA01457-03 L1816826-03 Non-Potable Water

Collected by
Collected date/time
Received date/time
01/09/25 11:20
01/14/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2433908	1	01/16/25 10:40	01/20/25 18:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2434298	1	01/16/25 10:02	01/20/25 18:28	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2434298	1	01/16/25 10:02	01/20/25 09:46	ZRG	Mt. Juliet, TN

IA01457-04 L1816826-04 Non-Potable Water

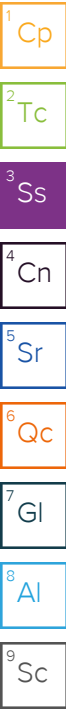
Collected by
Collected date/time
Received date/time
01/09/25 13:15
01/14/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2433908	1	01/16/25 10:40	01/20/25 18:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2434298	1	01/16/25 10:02	01/20/25 18:28	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2434298	1	01/16/25 10:02	01/16/25 16:52	ZRG	Mt. Juliet, TN

IA01457-05 L1816826-05 Non-Potable Water

Collected by
Collected date/time
Received date/time
01/09/25 12:10
01/14/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2433908	1	01/16/25 10:40	01/20/25 18:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2434298	1	01/16/25 10:02	01/20/25 18:28	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2434298	1	01/16/25 10:02	01/20/25 09:46	ZRG	Mt. Juliet, TN

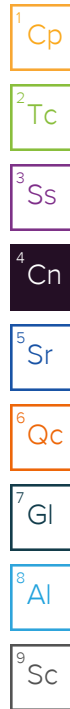


CASE NARRATIVE

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.



Stephanie M Coble
Project Manager



DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.275	U	0.392	0.693	0.699	0.366	01/20/2025 18:28	WG2433908
(T) Barium	92.4					30.0-143	01/20/2025 18:28	WG2433908
(T) Yttrium	92.2					30.0-136	01/20/2025 18:28	WG2433908

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.571	J	0.440	0.716	01/20/2025 18:28	WG2434298

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.297		0.200	0.359	0.156	0.0273	01/16/2025 16:52	WG2434298
(T) Barium-133	101					30.0-143	01/16/2025 16:52	WG2434298

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

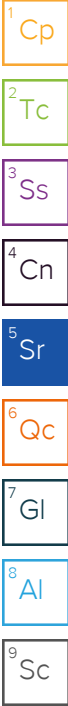
Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.908		0.448	0.784	0.780	0.410	01/20/2025 18:28	WG2433908
(T) Barium	71.9					30.0-143	01/20/2025 18:28	WG2433908
(T) Yttrium	99.4					30.0-136	01/20/2025 18:28	WG2433908

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.24		0.525	0.842	01/20/2025 18:28	WG2434298

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.333		0.273	0.534	0.318	0.0984	01/20/2025 09:46	WG2434298
(T) Barium-133	108					30.0-143	01/20/2025 09:46	WG2434298



DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.78		0.422	0.759	0.702	0.371	01/20/2025 18:28	WG2433908
(T) Barium	79.2					30.0-143	01/20/2025 18:28	WG2433908
(T) Yttrium	85.4					30.0-136	01/20/2025 18:28	WG2433908

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.13		0.540	0.827	01/20/2025 18:28	WG2434298

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.344	J	0.337	0.526	0.438	0.155	01/20/2025 09:46	WG2434298
(T) Barium-133	91.8					30.0-143	01/20/2025 09:46	WG2434298

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.39		0.515	0.854	0.888	0.466	01/20/2025 18:28	WG2433908
(T) Barium	74.2					30.0-143	01/20/2025 18:28	WG2433908
(T) Yttrium	92.5					30.0-136	01/20/2025 18:28	WG2433908

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.47		0.530	0.909	01/20/2025 18:28	WG2434298

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0805	J	0.125	0.208	0.194	0.0470	01/16/2025 16:52	WG2434298
(T) Barium-133	99.9					30.0-143	01/16/2025 16:52	WG2434298

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	2.10		0.853	1.42	1.48	0.773	01/20/2025 18:28	WG2433908
(T) Barium	74.0					30.0-143	01/20/2025 18:28	WG2433908
(T) Yttrium	91.7					30.0-136	01/20/2025 18:28	WG2433908

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.23		0.881	1.52	01/20/2025 18:28	WG2434298

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.130	J	0.220	0.306	0.338	0.112	01/20/2025 09:46	WG2434298
(T) Barium-133	107					30.0-143	01/20/2025 09:46	WG2434298

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

WG2433908

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
Radiochemistry by Method 904/932-9
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

QUALITY CONTROL SUMMARY

L1816826-01,02,03,04,05

Method Blank (MB)

(MB) R4168642-1 01/20/25 18:28

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.178	⬇	0.175	0.311	0.164
(T) Barium	90.7		90.7		
(T) Yttrium	88.0		88.0		

L1817270-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1817270-01 01/20/25 18:28 • (DUP) R4168642-5 01/20/25 18:28

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	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	2.65	0.465	0.762	0.398	2.03	0.742	1.28	0.666	26.5	0.706		20	3
(T) Barium	88.1				92.9	92.9							
(T) Yttrium	96.3				88.6	88.6							

Laboratory Control Sample (LCS)

(LCS) R4168642-2 01/20/25 18:28

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.83	117	80.0-120	
(T) Barium			95.3		
(T) Yttrium			88.6		

L1816826-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1816826-04 01/20/25 18:28 • (MS) R4168642-3 01/20/25 18:28 • (MSD) R4168642-4 01/20/25 18:28

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	1.39	21.6	21.8	121	122	1	70.0-130			0.829		20
(T) Barium		74.2			69.2	90.7							
(T) Yttrium		92.5			89.3	82.6							

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

(MB) R4169308-1 01/16/25 16:52

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	-0.00391	<u>U</u>	0.0171	0.0390	0.0137
(T) Barium-133	96.1		96.1		

L1816826-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1816826-04 01/16/25 16:52 • (DUP) R4169308-5 01/16/25 16:52

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	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.0805	0.125	0.194	0.0470	-0.0465	0.177	0.351	0.126	200	0.586	<u>U</u>	20	3
(T) Barium-133	99.9				101	101							

Laboratory Control Sample (LCS)

(LCS) R4169308-2 01/16/25 16:52

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.03	101	80.0-120	
(T) Barium-133			102		

L1816826-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1816826-01 01/16/25 16:52 • (MS) R4169308-3 01/16/25 16:52 • (MSD) R4169308-4 01/16/25 16:52

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.297	16.7	15.6	81.8	76.4	1	75.0-125			6.70		20
(T) Barium-133		101			97.2	95.7							

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

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.

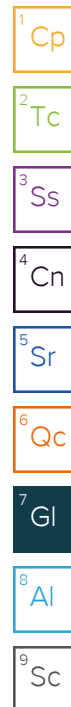
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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



ACCREDITATIONS & LOCATIONS

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

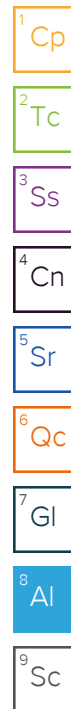
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



SUBCONTRACT ORDER

Transfer Chain of Custody

Pace Analytical Services, LLC

IA01457

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

U816824

Sample: IA01457-01
Name: G64S

Sampled: 01/09/25 15:56
Matrix: Ground Water
Preservative: HNO3, pH <2

-01

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

01/22/25 16:00

07/08/25 15:56

10 Day TAT Required

Sample: IA01457-02
Name: OM100D

Sampled: 01/09/25 10:32
Matrix: Ground Water
Preservative: HNO3, pH <2

-02

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

01/22/25 16:00

07/08/25 10:32

10 Day TAT Required

Sample: IA01457-03
Name: OM100S

Sampled: 01/09/25 11:20
Matrix: Ground Water
Preservative: HNO3, pH <2

-03

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

01/22/25 16:00

07/08/25 11:20

10 Day TAT Required

Sample: IA01457-04
Name: OM101D

Sampled: 01/09/25 13:15
Matrix: Ground Water
Preservative: HNO3, pH <2

-04

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

01/22/25 16:00

07/08/25 13:15

10 Day TAT Required

Sample: IA01457-05
Name: OM17D

Sampled: 01/09/25 12:10
Matrix: Ground Water
Preservative: HNO3, pH <2

-05

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

01/22/25 16:00

07/08/25 12:10

10 Day TAT Required

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

IA01457

1581168240

Tracking: 1113 8968 7228 PH: 52

J088

Sample Receipt Checklist
COC Seal Present/Intact: ☒ Y ☐ N
COC Signed/Accurate: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
RA Green <0.5 mR/hr: ☒ Y ☐ N
VOA Zero Headspace: ☒ Y ☐ N
Brea. Correct/Check: ☒ Y ☐ N
TWA 10.940 = 10.9

Bottle Count: 5

Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 11/3/25 Total # of Containers: 5 Sample Origin (State): IL PO #: _____

Time Around Time Requested ☐ NORMAL ☐ RUSH Date Results Needed: _____

Relinquished By: [Signature] Date/Time: 11/3/25 0935 Received By: [Signature] Date/Time: 11/4/25 0930

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

ANALYTICAL REPORT

January 30, 2025

Pace IR - Peoria, IL

Sample Delivery Group: L1818228
Samples Received: 01/17/2025
Project Number: IA02032
Description:

Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:



Ashley N Pullium
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 mydata.pacelabs.com

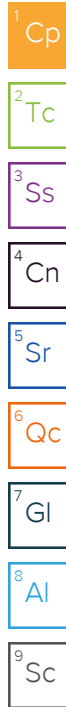


TABLE OF CONTENTS

[Click Cover Page](#)

Tc: Table of Contents

Ss: Sample Summary

Cn: Case Narrative

Sr: Sample Results

IA02032-01 L1818228-01

IA02032-02 L1818228-02

IA02032-03 L1818228-03

Qc: Quality Control Summary

Radiochemistry by Method 904/9320

Radiochemistry by Method SM7500Ra B M

Gl: Glossary of Terms

Al: Accreditations & Locations

Sc: Sample Chain of Custody

1
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10
11
12

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

SAMPLE SUMMARY

IA02032-01 L1818228-01 Non-Potable Water

Collected by

Collected date/time

Received date/time

01/13/25 16:20

01/17/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2436311	1	01/20/25 16:16	01/27/25 18:18	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2436773	1	01/21/25 12:37	01/27/25 18:18	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2436773	1	01/21/25 12:37	01/23/25 18:56	ZRG	Mt. Juliet, TN

Collected by

Collected date/time

Received date/time

01/13/25 16:20

01/17/25 09:00

IA02032-02 L1818228-02 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2436311	1	01/20/25 16:16	01/27/25 18:18	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2436773	1	01/21/25 12:37	01/27/25 18:18	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2436773	1	01/21/25 12:37	01/23/25 18:56	ZRG	Mt. Juliet, TN

Collected by

Collected date/time

Received date/time

01/13/25 16:25

01/17/25 09:00

IA02032-03 L1818228-03 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2436311	1	01/20/25 16:16	01/27/25 18:18	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2436773	1	01/21/25 12:37	01/27/25 18:18	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2436773	1	01/21/25 12:37	01/23/25 18:56	ZRG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

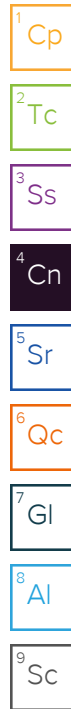
⁹Sc

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.



Ashley N Pullium
Project Manager



DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.93		0.994	1.63	1.73	0.904	01/27/2025 18:18	WG2436311
(T) Barium	95.8					30.0-143	01/27/2025 18:18	WG2436311
(T) Yttrium	60.7					30.0-136	01/27/2025 18:18	WG2436311

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.87		1.08	1.76	01/27/2025 18:18	WG2436773

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.942		0.412	0.983	0.318	0.220	01/23/2025 18:56	WG2436773
(T) Barium-133	112					30.0-143	01/23/2025 18:56	WG2436773

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	-0.644	<u>U</u>	1.32	2.00	2.38	1.24	01/27/2025 18:18	WG2436311
(T) Barium	77.8					30.0-143	01/27/2025 18:18	WG2436311
(T) Yttrium	61.1					30.0-136	01/27/2025 18:18	WG2436311

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.355	<u>U</u>	1.36	2.41	01/27/2025 18:18	WG2436773

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.355	<u>J</u>	0.319	0.556	0.403	0.261	01/23/2025 18:56	WG2436773
(T) Barium-133	111					30.0-143	01/23/2025 18:56	WG2436773

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.652	J	0.512	0.862	0.901	0.471	01/27/2025 18:18	WG2436311
(T) Barium	114					30.0-143	01/27/2025 18:18	WG2436311
(T) Yttrium	67.4					30.0-136	01/27/2025 18:18	WG2436311

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.667	J	0.542	0.962	01/27/2025 18:18	WG2436773

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0153	U	0.178	0.220	0.338	0.227	01/23/2025 18:56	WG2436773
(T) Barium-133	106					30.0-143	01/23/2025 18:56	WG2436773

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

(MB) R4171569-1 01/27/25 18:18

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.174	<u>U</u>	0.229	0.410	0.216
(T) Barium	115		115		
(T) Yttrium	60.2		60.2		

L1818469-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1818469-07 01/27/25 18:18 • (DUP) R4171569-5 01/27/25 18:18

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	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.40	0.828	0.992	0.521	0.319	0.639	1.14	0.593	126	1.03	<u>U</u>	20	3
(T) Barium	88.8				83.7	83.7							
(T) Yttrium	62.8				66.6	66.6							

Laboratory Control Sample (LCS)

(LCS) R4171569-2 01/27/25 18:18

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.53	111	80.0-120	
(T) Barium			122		
(T) Yttrium			74.2		

L1818231-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1818231-06 01/27/25 18:18 • (MS) R4171569-3 01/27/25 18:18 • (MSD) R4171569-4 01/27/25 18:18

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	2.05	20.5	22.0	111	120	1	70.0-130			6.96		20
(T) Barium		93.4			98.6	104							
(T) Yttrium		66.5			71.1	64.0							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

(MB) R4170041-5 01/23/25 22:51

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0136	⬇	0.0163	0.0239	0.0171
(T) Barium-133	103		103		

L1818231-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1818231-03 01/23/25 22:51 • (DUP) R4170041-4 01/23/25 18:56

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	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.0660	0.129	0.218	0.159	0.000	0.166	0.343	0.235	200	0.314	⬆	20	3
(T) Barium-133	95.3				97.9	97.9							

Laboratory Control Sample (LCS)

(LCS) R4170041-1 01/23/25 18:56

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.70	114	80.0-120	
(T) Barium-133			74.4		

L1818231-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1818231-07 01/23/25 18:56 • (MS) R4170041-2 01/23/25 18:56 • (MSD) R4170041-3 01/23/25 18:56

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.0629	18.1	18.0	90.2	89.7	1	75.0-125			0.554		20
(T) Barium-133		112			99.0	101							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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.

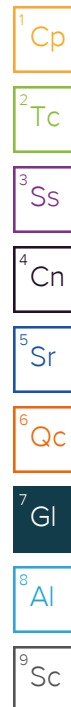
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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



ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

ACCREDITATIONS & LOCATIONS

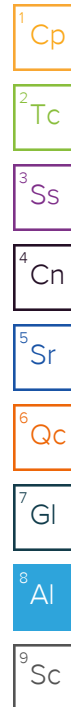
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



SUBCONTRACT ORDER
Transfer Chain of Custody

F156

Pace Analytical Services, LLC

IA02032

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

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: IA02032-01
Name: OM15D

Sampled: 01/13/25 16:20
Matrix: Ground Water
Preservative: HNO₃, pH <2

41818228

Analysis Due Expires Comments

01-Radium 226/228 combined 01/24/25 16:00 07/12/25 16:20 10 Day TAT Required

Sample: IA02032-02
Name: OM15D DUP

Sampled: 01/13/25 16:20
Matrix: Ground Water
Preservative: HNO₃, pH <2

-02

Analysis Due Expires Comments

01-Radium 226/228 combined 01/24/25 16:00 07/12/25 16:20 10 Day TAT Required

Sample: IA02032-03
Name: EB #1

Sampled: 01/13/25 16:25
Matrix: DI Water
Preservative: HNO₃, pH <2

-03

Analysis Due Expires Comments

01-Radium 226/228 combined 01/24/25 16:00 07/12/25 16:25 10 Day TAT Required

Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 1-16-25

Total # of Containers: 3

Sample Origin (State): IL

PO #:

Turn-Around Time Requested ☐ NORMAL ☐ RUSH

Date Results Needed: 1/24/25

OK

Relinquished By: [Signature] Date/Time: 01/16/25 09:25
Received By: [Signature] Date/Time: 01/25/25 09:00

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 _____

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
RA Screen <0.5 mB/hr: ☒ Y ☐ N

ANALYTICAL REPORT

January 30, 2025

Pace IR - Peoria, IL

Sample Delivery Group: L1818231
Samples Received: 01/17/2025
Project Number: IA02354
Description:

Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

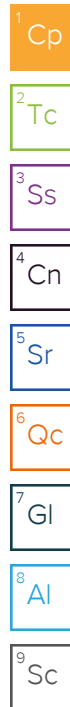


Ashley N Pullium
Project Manager

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 mydata.pacelabs.com



Cp: Cover Page	1	1 Cp
Tc: Table of Contents	2	2 Tc
Ss: Sample Summary	3	3 Ss
Cn: Case Narrative	5	4 Cn
Sr: Sample Results	6	5 Sr
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IA02354-02 L1818231-02	7	
IA02354-03 L1818231-03	8	
IA02354-04 L1818231-04	9	
IA02354-05 L1818231-05	10	6 Qc
IA02354-06 L1818231-06	11	
IA02354-07 L1818231-07	12	7 Gl
Qc: Quality Control Summary	13	8 Al
Radiochemistry by Method 904/9320	13	
Radiochemistry by Method SM7500Ra B M	14	9 Sc
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Al: Accreditations & Locations	16	
Sc: Sample Chain of Custody	17	

SAMPLE SUMMARY

IA02354-01 L1818231-01 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/15/25 14:40 01/17/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2436311	1	01/20/25 16:16	01/27/25 18:18	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2436773	1	01/21/25 12:37	01/27/25 18:18	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2436773	1	01/21/25 12:37	01/23/25 18:56	ZRG	Mt. Juliet, TN

IA02354-02 L1818231-02 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/15/25 14:40 01/17/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2436311	1	01/20/25 16:16	01/27/25 18:18	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2436773	1	01/21/25 12:37	01/27/25 18:18	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2436773	1	01/21/25 12:37	01/23/25 22:51	ZRG	Mt. Juliet, TN

IA02354-03 L1818231-03 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/15/25 16:18 01/17/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2436311	1	01/20/25 16:16	01/27/25 18:18	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2436773	1	01/21/25 12:37	01/27/25 18:18	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2436773	1	01/21/25 12:37	01/23/25 22:51	ZRG	Mt. Juliet, TN

IA02354-04 L1818231-04 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/15/25 11:40 01/17/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2436311	1	01/20/25 16:16	01/27/25 18:18	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2436773	1	01/21/25 12:37	01/27/25 18:18	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2436773	1	01/21/25 12:37	01/23/25 22:51	ZRG	Mt. Juliet, TN

IA02354-05 L1818231-05 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/15/25 12:10 01/17/25 09:00

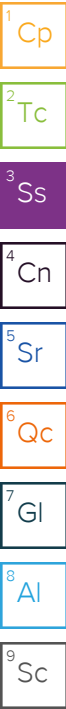
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2436311	1	01/20/25 16:16	01/27/25 18:18	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2436773	1	01/21/25 12:37	01/27/25 18:18	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2436773	1	01/21/25 12:37	01/23/25 22:51	ZRG	Mt. Juliet, TN

IA02354-06 L1818231-06 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/15/25 14:02 01/17/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2436311	1	01/20/25 16:16	01/27/25 18:18	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2436773	1	01/21/25 12:37	01/27/25 18:18	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2436773	1	01/21/25 12:37	01/23/25 18:56	ZRG	Mt. Juliet, TN



SAMPLE SUMMARY

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND

Collected by

Collected date/time

Received date/time

01/15/25 14:50

01/17/25 09:00

IA02354-07 L1818231-07 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2436311	1	01/20/25 16:16	01/27/25 18:18	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2436773	1	01/21/25 12:37	01/27/25 18:18	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2436773	1	01/21/25 12:37	01/23/25 18:56	ZRG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

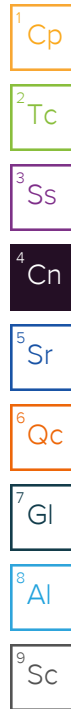
⁹Sc

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.



Ashley N Pullium
Project Manager



DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.17		0.564	0.941	0.980	0.513	01/27/2025 18:18	WG2436311
(T) Barium	97.9					30.0-143	01/27/2025 18:18	WG2436311
(T) Yttrium	61.4					30.0-136	01/27/2025 18:18	WG2436311

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.72		0.652	1.02	01/27/2025 18:18	WG2436773

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.560		0.327	0.562	0.284	0.207	01/23/2025 18:56	WG2436773
(T) Barium-133	102					30.0-143	01/23/2025 18:56	WG2436773

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.42		0.474	0.822	0.810	0.425	01/27/2025 18:18	WG2436311
(T) Barium	103					30.0-143	01/27/2025 18:18	WG2436311
(T) Yttrium	68.2					30.0-136	01/27/2025 18:18	WG2436311

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.72		0.514	0.825	01/27/2025 18:18	WG2436773

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.294		0.199	0.393	0.154	0.127	01/23/2025 22:51	WG2436773
(T) Barium-133	109					30.0-143	01/23/2025 22:51	WG2436773

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.739	J	0.443	0.821	0.777	0.411	01/27/2025 18:18	WG2436311
(T) Barium	107					30.0-143	01/27/2025 18:18	WG2436311
(T) Yttrium	60.7					30.0-136	01/27/2025 18:18	WG2436311

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.805	J	0.461	0.807	01/27/2025 18:18	WG2436773

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0660	U	0.129	0.212	0.218	0.159	01/23/2025 22:51	WG2436773
(T) Barium-133	95.3					30.0-143	01/23/2025 22:51	WG2436773

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	3.46		0.644	1.02	1.05	0.553	01/27/2025 18:18	WG2436311
(T) Barium	87.4					30.0-143	01/27/2025 18:18	WG2436311
(T) Yttrium	65.4					30.0-136	01/27/2025 18:18	WG2436311

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.79		0.678	1.06	01/27/2025 18:18	WG2436773

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.331		0.211	0.422	0.156	0.128	01/23/2025 22:51	WG2436773
(T) Barium-133	107					30.0-143	01/23/2025 22:51	WG2436773

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.33		0.558	0.931	0.965	0.505	01/27/2025 18:18	WG2436311
(T) Barium	99.0					30.0-143	01/27/2025 18:18	WG2436311
(T) Yttrium	62.1					30.0-136	01/27/2025 18:18	WG2436311

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.48		0.579	0.984	01/27/2025 18:18	WG2436773

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.147	J	0.155	0.279	0.194	0.147	01/23/2025 22:51	WG2436773
(T) Barium-133	107					30.0-143	01/23/2025 22:51	WG2436773

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	2.05		0.870	1.47	1.51	0.792	01/27/2025 18:18	WG2436311
(T) Barium	93.4					30.0-143	01/27/2025 18:18	WG2436311
(T) Yttrium	66.5					30.0-136	01/27/2025 18:18	WG2436311

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.21		0.884	1.52	01/27/2025 18:18	WG2436773

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.156	J	0.155	0.282	0.179	0.141	01/23/2025 18:56	WG2436773
(T) Barium-133	108					30.0-143	01/23/2025 18:56	WG2436773

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.968		0.454	0.831	0.790	0.419	01/27/2025 18:18	WG2436311
(T) Barium	94.0					30.0-143	01/27/2025 18:18	WG2436311
(T) Yttrium	62.3					30.0-136	01/27/2025 18:18	WG2436311

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.03		0.470	0.817	01/27/2025 18:18	WG2436773

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0629	U	0.123	0.204	0.208	0.151	01/23/2025 18:56	WG2436773
(T) Barium-133	112					30.0-143	01/23/2025 18:56	WG2436773

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4171569-1 01/27/25 18:18

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.174	<u>U</u>	0.229	0.410	0.216
(T) Barium	115		115		
(T) Yttrium	60.2		60.2		

L1818469-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1818469-07 01/27/25 18:18 • (DUP) R4171569-5 01/27/25 18:18

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	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.40	0.828	0.992	0.521	0.319	0.639	1.14	0.593	126	1.03	<u>U</u>	20	3
(T) Barium	88.8				83.7	83.7							
(T) Yttrium	62.8				66.6	66.6							

Laboratory Control Sample (LCS)

(LCS) R4171569-2 01/27/25 18:18

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.53	111	80.0-120	
(T) Barium			122		
(T) Yttrium			74.2		

L1818231-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1818231-06 01/27/25 18:18 • (MS) R4171569-3 01/27/25 18:18 • (MSD) R4171569-4 01/27/25 18:18

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	2.05	20.5	22.0	111	120	1	70.0-130			6.96		20
(T) Barium		93.4			98.6	104							
(T) Yttrium		66.5			71.1	64.0							

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

L1818231-01,02,03,04,05,06,07

Method Blank (MB)
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

(MB) R4170041-5 01/23/25 22:51

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0136	⌋	0.0163	0.0239	0.0171
(T) Barium-133	103		103		

L1818231-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1818231-03 01/23/25 22:51 • (DUP) R4170041-4 01/23/25 18:56

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	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.0660	0.129	0.218	0.159	0.000	0.166	0.343	0.235	200	0.314	⌋	20	3
(T) Barium-133	95.3				97.9	97.9							

Laboratory Control Sample (LCS)

(LCS) R4170041-1 01/23/25 18:56

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.70	114	80.0-120	
(T) Barium-133			74.4		

L1818231-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1818231-07 01/23/25 18:56 • (MS) R4170041-2 01/23/25 18:56 • (MSD) R4170041-3 01/23/25 18:56

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.0629	18.1	18.0	90.2	89.7	1	75.0-125			0.554		20
(T) Barium-133		112			99.0	101							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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.

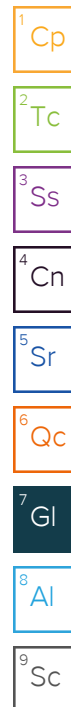
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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



ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

ACCREDITATIONS & LOCATIONS

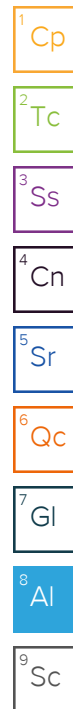
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



SUBCONTRACT ORDER
Transfer Chain of Custody
Pace Analytical Services, LLC

F157

IA02354

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

U818231

Sample: IA02354-01
Name: BA01

Sampled: 01/15/25 14:40
Matrix: Ground Water
Preservative: HNO3, pH <2

-01

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	01/28/25 16:00	07/14/25 14:40	10 Day TAT Required

Sample: IA02354-02
Name: BA01 DUP

Sampled: 01/15/25 14:40
Matrix: Ground Water
Preservative: HNO3, pH <2

-02

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	01/28/25 16:00	07/14/25 14:40	10 Day TAT Required

Sample: IA02354-03
Name: BA02

Sampled: 01/15/25 16:18
Matrix: Ground Water
Preservative: HNO3, pH <2

-03

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	01/28/25 16:00	07/14/25 16:18	10 Day TAT Required

Sample: IA02354-04
Name: OM12D

Sampled: 01/15/25 11:40
Matrix: Ground Water
Preservative: HNO3, pH <2

-04

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	01/28/25 16:00	07/14/25 11:40	10 Day TAT Required

Sample: IA02354-05
Name: G64L

Sampled: 01/15/25 12:10
Matrix: Ground Water
Preservative: HNO3, pH <2

-05

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	01/28/25 16:00	07/14/25 12:10	10 Day TAT Required

OK

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

SUBCONTRACT ORDER
Transfer Chain of Custody
Pace Analytical Services, LLC

IA02354

L1818231

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: IA02354-06
Name: G61S

Sampled: 01/15/25 14:02
Matrix: Ground Water
Preservative: HNO3, pH <2

-06

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	01/28/25 16:00	07/14/25 14:02	10 Day TAT Required

Sample: IA02354-07
Name: R61L

Sampled: 01/15/25 14:50
Matrix: Ground Water
Preservative: HNO3, pH <2

-07

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	01/28/25 16:00	07/14/25 14:50	10 Day TAT Required

711475155024

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
RA Screen <0.5 mR/hr: ☒ Y ☐ N
15-110.4-155 EDAG

7

Please email results to Diane Billings at diane.billings@pacelabs.com

8K

Date Shipped: 1-16-25 Total # of Containers: 7 Sample Origin (State): IL PO #:

Turn-Around Time Requested ☐ NORMAL ☐ RUSH

Date Results Needed: 1/28/25

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

Relinquished By

Date/Time

Received By

Date/Time

ANALYTICAL REPORT

February 05, 2025

Pace IR - Peoria, IL

Sample Delivery Group: L1818764
Samples Received: 01/21/2025
Project Number: IA02635
Description:
Site: 01
Report To: Scott Wickman

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Entire Report Reviewed By:



Ashley N Pullium
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 mydata.pacelabs.com

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Cn: Case Narrative

Sr: Sample Results

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Qc: Quality Control Summary

Radiochemistry by Method 904/9320

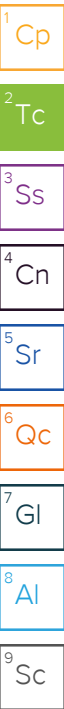
Radiochemistry by Method SM7500Ra B M

Gl: Glossary of Terms

Al: Accreditations & Locations

Sc: Sample Chain of Custody

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SAMPLE SUMMARY

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND

Collected by

Collected date/time

Received date/time

01/16/25 16:00

01/21/25 08:30

IA02635-01 L1818764-01 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2440415	1	01/27/25 12:39	01/30/25 18:46	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2439063	1	01/24/25 09:17	01/30/25 18:46	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2439063	1	01/24/25 09:17	01/28/25 11:53	ZRG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

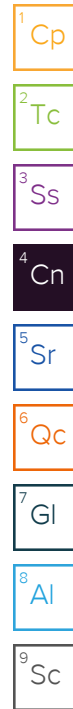
⁹Sc

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.



Ashley N Pullium
Project Manager



DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.187	<u>U</u>	0.606	1.13	1.17	0.617	01/30/2025 18:46	WG2440415
(T) Barium	82.6					30.0-143	01/30/2025 18:46	WG2440415
(T) Yttrium	96.4					30.0-136	01/30/2025 18:46	WG2440415

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.435	<u>U</u>	0.636	1.19	01/30/2025 18:46	WG2439063

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.248		0.193	0.355	0.194	0.147	01/28/2025 11:53	WG2439063
(T) Barium-133	100					30.0-143	01/28/2025 11:53	WG2439063

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

(MB) R4172937-1 01/30/25 18:46

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.373		0.188	0.354	0.185
(T) Barium	83.8		83.8		
(T) Yttrium	101		101		

L1820183-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1820183-07 01/31/25 16:37 • (DUP) R4172937-5 01/30/25 18:46

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	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.767	0.381	0.674	0.357	2.13	0.845	1.57	0.823	94.1	1.47		20	3
(T) Barium	85.9				79.9	79.9							
(T) Yttrium	82.4				81.0	81.0							

Laboratory Control Sample (LCS)

(LCS) R4172937-2 01/30/25 18:46

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.80	116	80.0-120	
(T) Barium			84.9		
(T) Yttrium			91.5		

L1819831-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819831-03 01/31/25 16:37 • (MS) R4172937-3 01/30/25 18:46 • (MSD) R4172937-4 01/30/25 18:46

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.666	19.9	20.9	115	121	1	70.0-130			4.51		20
(T) Barium		93.7			83.3	86.6							
(T) Yttrium		89.6			92.8	93.2							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

WG2439063

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
Radiochemistry by Method SM7500B-R-M
DUCK CREEK POWER PLANT

QUALITY CONTROL SUMMARY

L1818764-01

Method Blank (MB)
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

(MB) R4171352-1 01/28/25 11:53

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0112	<u>U</u>	0.0346	0.0594	0.0365
(T) Barium-133	87.3		87.3		

L1817489-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1817489-06 01/28/25 11:53 • (DUP) R4171352-5 01/28/25 11:53

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	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	21.3	1.83	0.318	0.220	16.8	1.60	0.245	0.182	23.5	1.84		20	3
(T) Barium-133	109				104	104							

Laboratory Control Sample (LCS)

(LCS) R4171352-2 01/28/25 11:53

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	4.34	86.8	80.0-120	
(T) Barium-133			97.5		

L1819451-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819451-04 01/28/25 11:53 • (MS) R4171352-3 01/28/25 11:53 • (MSD) R4171352-4 01/28/25 11:53

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.330	18.5	17.6	90.8	86.1	1	75.0-125			5.16		20
(T) Barium-133		101			97.8	102							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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.

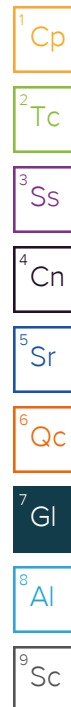
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

U	Below Detectable Limits: Indicates that the analyte was not detected.
---	---



ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

ACCREDITATIONS & LOCATIONS

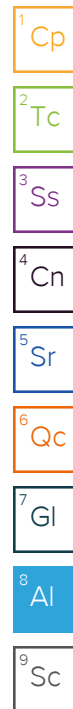
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



SUBCONTRACT ORDER
Transfer Chain of Custody

A127

Pace Analytical Services, LLC
IA02635

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

11818764

Sample: IA02635-01
Name: G02S

Sampled: 01/16/25 16:00
Matrix: Ground Water
Preservative: HNO3, pH <2

-01

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	01/29/25 16:00	07/15/25 16:00	10 Day TAT Required

AmR10.4 = AmSTL

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
RA Screen <0.5 mR/hr: ☒ Y ☐ N
7715 45108873

Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 1/20/25 Total # of Containers: 1 Sample Origin (State): IL PO #: _____
Turn-Around Time Requested ☐ NORMAL ☐ RUSH Date Results Needed: _____

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

Relinquished By

Date/Time

Received By

Date/Time

ANALYTICAL REPORT

February 05, 2025

Pace IR - Peoria, IL

Sample Delivery Group: L1819451
Samples Received: 01/23/2025
Project Number: IA02985
Description:
Site: 01
Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:



Ashley N Pullium
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 mydata.pacelabs.com

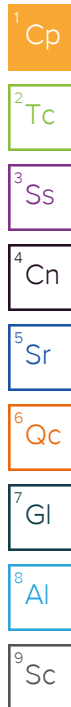


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Sr: Sample Results

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IA02985-02 L1819451-02

IA02985-03 L1819451-03

IA02985-04 L1819451-04

Qc: Quality Control Summary

Radiochemistry by Method 904/9320

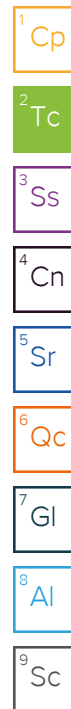
Radiochemistry by Method SM7500Ra B M

Gl: Glossary of Terms

Al: Accreditations & Locations

Sc: Sample Chain of Custody

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SAMPLE SUMMARY

IA02985-01 L1819451-01 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/20/25 12:03
01/23/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2440415	1	01/27/25 12:39	01/30/25 18:46	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2439063	1	01/24/25 09:17	01/30/25 18:46	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2439063	1	01/24/25 09:17	01/28/25 11:53	ZRG	Mt. Juliet, TN

IA02985-02 L1819451-02 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/20/25 12:25
01/23/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2440415	1	01/27/25 12:39	01/31/25 16:37	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2439063	1	01/24/25 09:17	01/31/25 16:37	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2439063	1	01/24/25 09:17	01/28/25 11:53	ZRG	Mt. Juliet, TN

IA02985-03 L1819451-03 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/20/25 15:35
01/23/25 08:45

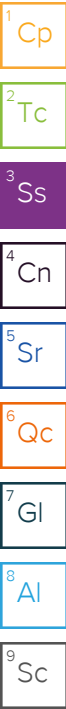
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2440415	1	01/27/25 12:39	01/31/25 16:37	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2439063	1	01/24/25 09:17	01/31/25 16:37	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2439063	1	01/24/25 09:17	01/28/25 11:53	ZRG	Mt. Juliet, TN

IA02985-04 L1819451-04 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/20/25 13:50
01/23/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2440415	1	01/27/25 12:39	01/31/25 16:37	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2439063	1	01/24/25 09:17	01/31/25 16:37	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2439063	1	01/24/25 09:17	01/28/25 11:53	ZRG	Mt. Juliet, TN

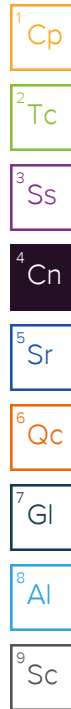


CASE NARRATIVE

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.



Ashley N Pullium
Project Manager



DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.08	J	0.626	1.21	1.18	0.626	01/30/2025 18:46	WG2440415
(T) Barium	68.8					30.0-143	01/30/2025 18:46	WG2440415
(T) Yttrium	98.1					30.0-136	01/30/2025 18:46	WG2440415

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.31		0.651	1.19	01/30/2025 18:46	WG2439063

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.228		0.177	0.331	0.155	0.128	01/28/2025 11:53	WG2439063
(T) Barium-133	101					30.0-143	01/28/2025 11:53	WG2439063

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	2.13		0.703	1.26	1.22	0.641	01/31/2025 16:37	WG2440415
(T) Barium	77.3					30.0-143	01/31/2025 16:37	WG2440415
(T) Yttrium	88.8					30.0-136	01/31/2025 16:37	WG2440415

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.86		0.768	1.23	01/31/2025 16:37	WG2439063

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.729		0.309	0.684	0.154	0.127	01/28/2025 11:53	WG2439063
(T) Barium-133	103					30.0-143	01/28/2025 11:53	WG2439063

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	25.6		2.30	3.29	3.48	1.82	01/31/2025 16:37	WG2440415
(T) Barium	35.8					30.0-143	01/31/2025 16:37	WG2440415
(T) Yttrium	83.2					30.0-136	01/31/2025 16:37	WG2440415

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	33.9		2.54	3.49	01/31/2025 16:37	WG2439063

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	8.30		1.08	4.66	0.239	0.174	01/28/2025 11:53	WG2439063
(T) Barium-133	92.9					30.0-143	01/28/2025 11:53	WG2439063

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

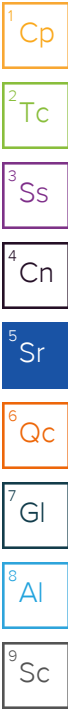
Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.49		0.744	1.30	1.31	0.690	01/31/2025 16:37	WG2440415
(T) Barium	75.8					30.0-143	01/31/2025 16:37	WG2440415
(T) Yttrium	93.7					30.0-136	01/31/2025 16:37	WG2440415

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.82		0.784	1.34	01/31/2025 16:37	WG2439063

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.330		0.246	0.444	0.261	0.187	01/28/2025 11:53	WG2439063
(T) Barium-133	101					30.0-143	01/28/2025 11:53	WG2439063



(MB) R4172937-1 01/30/25 18:46

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.373		0.188	0.354	0.185
(T) Barium	83.8		83.8		
(T) Yttrium	101		101		

L1820183-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1820183-07 01/31/25 16:37 • (DUP) R4172937-5 01/30/25 18:46

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	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.767	0.381	0.674	0.357	2.13	0.845	1.57	0.823	94.1	1.47		20	3
(T) Barium	85.9				79.9	79.9							
(T) Yttrium	82.4				81.0	81.0							

Laboratory Control Sample (LCS)

(LCS) R4172937-2 01/30/25 18:46

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.80	116	80.0-120	
(T) Barium			84.9		
(T) Yttrium			91.5		

L1819831-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819831-03 01/31/25 16:37 • (MS) R4172937-3 01/30/25 18:46 • (MSD) R4172937-4 01/30/25 18:46

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.666	19.9	20.9	115	121	1	70.0-130			4.51		20
(T) Barium		93.7			83.3	86.6							
(T) Yttrium		89.6			92.8	93.2							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

(MB) R4171352-1 01/28/25 11:53

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0112	<u>U</u>	0.0346	0.0594	0.0365
(T) Barium-133	87.3		87.3		

L1817489-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1817489-06 01/28/25 11:53 • (DUP) R4171352-5 01/28/25 11:53

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	21.3	1.83	0.318	0.220	16.8	1.60	0.245	0.182	23.5	1.84		20	3
(T) Barium-133	109				104	104							

Laboratory Control Sample (LCS)

(LCS) R4171352-2 01/28/25 11:53

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.00	4.34	86.8	80.0-120	
(T) Barium-133			97.5		

L1819451-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819451-04 01/28/25 11:53 • (MS) R4171352-3 01/28/25 11:53 • (MSD) R4171352-4 01/28/25 11:53

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	0.330	18.5	17.6	90.8	86.1	1	75.0-125			5.16		20
(T) Barium-133		101			97.8	102							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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.

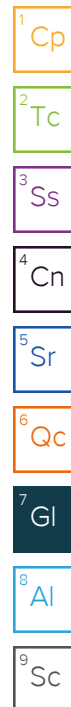
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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



ATTACHMENT B. ACCREDITATIONS & LOCATIONS

845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

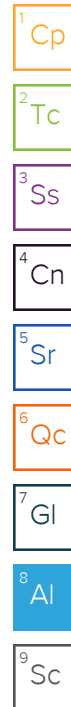
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



SUBCONTRACT ORDER
Transfer Chain of Custody
Pace Analytical Services, LLC
IA02985

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

L1819451

Sample: IA02985-01
Name: G54L

Sampled: 01/20/25 12:03
Matrix: Ground Water
Preservative: HNO3, pH <2

-01

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	01/31/25 16:00	07/19/25 12:03	10 Day TAT Required

Sample: IA02985-02
Name: BA06

Sampled: 01/20/25 12:25
Matrix: Ground Water
Preservative: HNO3, pH <2

-02

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	01/31/25 16:00	07/19/25 12:25	10 Day TAT Required

Sample: IA02985-03
Name: BA02L

Sampled: 01/20/25 15:35
Matrix: Ground Water
Preservative: HNO3, pH <2

-03

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	01/31/25 16:00	07/19/25 15:35	10 Day TAT Required

Sample: IA02985-04
Name: BA05

Sampled: 01/20/25 13:50
Matrix: Ground Water
Preservative: HNO3, pH <2

-04

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	01/31/25 16:00	07/19/25 13:50	10 Day TAT Required

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

IA02985

F241

61819451

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	Fres. Correct/Check:	☐ Y ☐ N
Correct bottles used:	☒ Y ☐ N		
Sufficient volume sent:	☒ Y ☐ N		
RA Screen <0.5 mR/hr:	☒ Y ☐ N		

Amb.

Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 1/21/25 Total # of Containers: 4 Sample Origin (State): IL PO #: _____

Turn-Around Time Requested ☐ NORMAL ☐ RUSH

Date Results Needed: _____

Relinquished By

Date/Time

Received By

Date/Time

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

February 18, 2025

Revised Report

Pace IR - Peoria, IL

Sample Delivery Group: L1819831
Samples Received: 01/24/2025
Project Number: IA03314
Description:
Site: 01
Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:



Ashley N Pullium
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 mydata.pacelabs.com

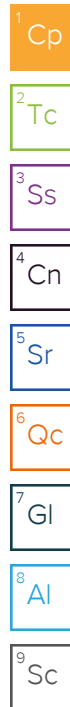


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IA03314-02 L1819831-02	6	
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Sc: Sample Chain of Custody	13	⁹ Sc

SAMPLE SUMMARY

IA03314-01 L1819831-01 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/22/25 11:30
01/24/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2440415	1	01/27/25 14:25	01/31/25 16:37	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2440475	1	01/27/25 13:31	01/31/25 16:37	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2440475	1	01/27/25 13:31	01/29/25 18:19	ZRG	Mt. Juliet, TN

IA03314-02 L1819831-02 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/22/25 11:30
01/24/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2440415	1	01/27/25 14:25	01/31/25 16:37	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2440475	1	01/27/25 13:31	01/31/25 16:37	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2440475	1	01/27/25 13:31	01/29/25 18:19	ZRG	Mt. Juliet, TN

IA03314-03 L1819831-03 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/22/25 12:45
01/24/25 09:00

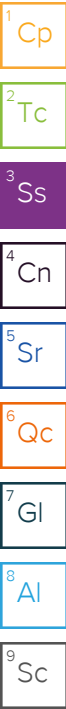
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2440415	1	01/27/25 14:25	01/31/25 16:37	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2440475	1	01/27/25 13:31	01/31/25 16:37	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2440475	1	01/27/25 13:31	01/29/25 18:19	ZRG	Mt. Juliet, TN

IA03314-04 L1819831-04 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/22/25 14:50
01/24/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2440415	1	01/27/25 14:25	01/31/25 16:37	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2440475	1	01/27/25 13:31	01/31/25 16:37	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2440475	1	01/27/25 13:31	01/29/25 18:19	ZRG	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.



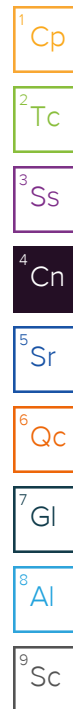
Ashley N Pullium
Project Manager

Report Revision History

Level II Report - Version 1: 02/05/25 14:04

Project Narrative

Fixed email address AP



DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.135	<u>U</u>	0.280	0.491	0.506	0.265	01/31/2025 16:37	WG2440415
(T) Barium	88.2					30.0-143	01/31/2025 16:37	WG2440415
(T) Yttrium	284	<u>C1</u>				30.0-136	01/31/2025 16:37	WG2440415

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.21		0.659	0.607	01/31/2025 16:37	WG2440475

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	2.07		0.597	1.54	0.336	0.230	01/29/2025 18:19	WG2440475
(T) Barium-133	124					30.0-143	01/29/2025 18:19	WG2440475

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.703		0.388	0.634	0.686	0.358	01/31/2025 16:37	WG2440415
(T) Barium	74.8					30.0-143	01/31/2025 16:37	WG2440415
(T) Yttrium	87.8					30.0-136	01/31/2025 16:37	WG2440415

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.10		0.496	0.777	01/31/2025 16:37	WG2440475

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.394		0.309	0.524	0.364	0.241	01/29/2025 18:19	WG2440475
(T) Barium-133	104					30.0-143	01/29/2025 18:19	WG2440475

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

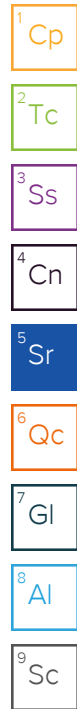
Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.666	J	0.655	1.16	1.17	0.614	01/31/2025 16:37	WG2440415
(T) Barium	93.7					30.0-143	01/31/2025 16:37	WG2440415
(T) Yttrium	89.6					30.0-136	01/31/2025 16:37	WG2440415

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.870	J	0.685	1.20	01/31/2025 16:37	WG2440475

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.205	J	0.201	0.310	0.245	0.182	01/29/2025 18:19	WG2440475
(T) Barium-133	103					30.0-143	01/29/2025 18:19	WG2440475



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	-0.0677	<u>U</u>	0.791	1.34	1.44	0.754	01/31/2025 16:37	WG2440415
(T) Barium	84.9					30.0-143	01/31/2025 16:37	WG2440415
(T) Yttrium	82.8					30.0-136	01/31/2025 16:37	WG2440415

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.00812	<u>U</u>	0.806	1.47	01/31/2025 16:37	WG2440475

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.00812	<u>U</u>	0.155	0.206	0.318	0.220	01/29/2025 18:19	WG2440475
(T) Barium-133	108					30.0-143	01/29/2025 18:19	WG2440475

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

(MB) R4172937-1 01/30/25 18:46

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.373		0.188	0.354	0.185
(T) Barium	83.8		83.8		
(T) Yttrium	101		101		

L1820183-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1820183-07 01/31/25 16:37 • (DUP) R4172937-5 01/30/25 18:46

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	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.767	0.381	0.674	0.357	2.13	0.845	1.57	0.823	94.1	1.47		20	3
(T) Barium	85.9				79.9	79.9							
(T) Yttrium	82.4				81.0	81.0							

Laboratory Control Sample (LCS)

(LCS) R4172937-2 01/30/25 18:46

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.80	116	80.0-120	
(T) Barium			84.9		
(T) Yttrium			91.5		

L1819831-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819831-03 01/31/25 16:37 • (MS) R4172937-3 01/30/25 18:46 • (MSD) R4172937-4 01/30/25 18:46

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.666	19.9	20.9	115	121	1	70.0-130			4.51		20
(T) Barium		93.7			83.3	86.6							
(T) Yttrium		89.6			92.8	93.2							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

(MB) R4171723-1 01/29/25 18:19

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	-0.00635	<u>U</u>	0.0445	0.0932	0.0626
(T) Barium-133	92.3		92.3		

L1820183-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1820183-07 01/29/25 18:19 • (DUP) R4171723-5 01/29/25 18:19

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	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.0892	0.138	0.215	0.164	-0.124	0.136	0.367	0.242	200	1.10	<u>U</u>	20	3
(T) Barium-133	108				102	102							

Laboratory Control Sample (LCS)

(LCS) R4171723-2 01/29/25 18:19

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.32	106	80.0-120	
(T) Barium-133			76.6		

L1819831-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819831-01 01/29/25 18:19 • (MS) R4171723-3 01/29/25 18:19 • (MSD) R4171723-4 01/29/25 18:19

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	2.07	20.4	17.3	91.5	76.1	1	75.0-125			16.3		20
(T) Barium-133		124			104	111							

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

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.

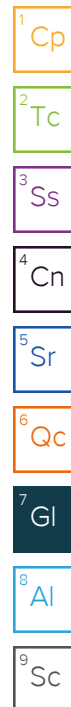
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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



ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

ACCREDITATIONS & LOCATIONS

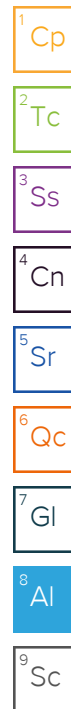
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



SUBCONTRACT ORDER Transfer Chain of Custody

Pace Analytical Services, LLC

IA03314

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

1819831

Sample: IA03314-01
Name: G51S

Sampled: 01/22/25 11:30
Matrix: Ground Water
Preservative: HNO3, pH <2

-01

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

02/04/25 16:00

07/21/25 11:30

10 Day TAT Required

Sample: IA03314-02
Name: G51S DUP

Sampled: 01/22/25 11:30
Matrix: Ground Water
Preservative: HNO3, pH <2

-02

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

02/04/25 16:00

07/21/25 11:30

10 Day TAT Required

Sample: IA03314-03
Name: G50S

Sampled: 01/22/25 12:45
Matrix: Ground Water
Preservative: HNO3, pH <2

-03

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

02/04/25 16:00

07/21/25 12:45

10 Day TAT Required

Sample: IA03314-04
Name: G57S

Sampled: 01/22/25 14:50
Matrix: Ground Water
Preservative: HNO3, pH <2

-04

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

02/04/25 16:00

07/21/25 14:50

10 Day TAT Required

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

IA03314

F022

UG19831

7114 2578 8190

Sample Receipt Checklist
COC Seal Present/Intact: Y N If Applicable
COC Signed/Accurate: Y N VOA Zero Headspace: Y N
Bottles active intact: Y N Pres. Correct/Check: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
PA screen <0.5 m/hr: Y N

Amb.

(4)

Please email results to Diane Bilings at diane.bilings@pacelabs.com

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, OH

Date Shipped: 1/23/25 Total # of Containers: 4 Sample Origin (State): IL PO #: _____

Time Around Time Requested ☐ NORMAL ☐ RUSH Date Results Needed: _____

Relinquished By: [Signature] Date/Time: 1/23/25 0700 Received By: CR Pace Date/Time: 0900 01/24/25

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

February 14, 2025

Pace IR - Peoria, IL

Sample Delivery Group: L1821694

Samples Received: 01/31/2025

Project Number: IA04117

Description: IA04117

Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:



Ashley N Pullium
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 mydata.pacelabs.com

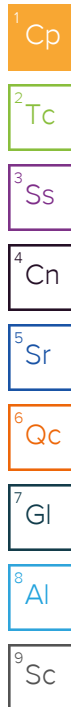


TABLE OF CONTENTS

Cp: Cover Page

Tc: Table of Contents

Ss: Sample Summary

Cn: Case Narrative

Sr: Sample Results

P60 L1821694-01

P60 DUP L1821694-02

Qc: Quality Control Summary

Radiochemistry by Method 904/9320

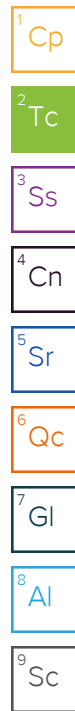
Radiochemistry by Method SM7500Ra B M

Gl: Glossary of Terms

Al: Accreditations & Locations

Sc: Sample Chain of Custody

1
2
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11



SAMPLE SUMMARY

P60 L1821694-01 Non-Potable Water

Collected by

Collected date/time

Received date/time

01/28/25 12:08

01/31/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2445424	1	02/04/25 11:19	02/07/25 17:45	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2446253	1	02/05/25 11:30	02/10/25 14:52	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2446253	1	02/05/25 11:30	02/10/25 14:52	ZRG	Mt. Juliet, TN

Collected by

Collected date/time

Received date/time

01/28/25 12:08

01/31/25 09:00

P60 DUP L1821694-02 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2445424	1	02/04/25 11:19	02/07/25 17:45	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2446253	1	02/05/25 11:30	02/10/25 14:52	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2446253	1	02/05/25 11:30	02/10/25 14:52	ZRG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

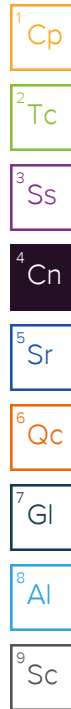
⁹Sc

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.



Ashley N Pullium
Project Manager



DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.737		0.355	0.653	0.680	0.356	02/07/2025 17:45	WG2445424
(T) Barium	96.2					30.0-143	02/07/2025 17:45	WG2445424
(T) Yttrium	90.1					30.0-136	02/07/2025 17:45	WG2445424

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.938		0.394	0.704	02/10/2025 14:52	WG2446253

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.201		0.170	0.270	0.182	0.138	02/10/2025 14:52	WG2446253
(T) Barium-133	103					30.0-143	02/10/2025 14:52	WG2446253

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.456	J	0.324	0.619	0.630	0.331	02/07/2025 17:45	WG2445424
(T) Barium	97.5					30.0-143	02/07/2025 17:45	WG2445424
(T) Yttrium	90.9					30.0-136	02/07/2025 17:45	WG2445424

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.83		0.562	0.682	02/10/2025 14:52	WG2446253

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	1.38		0.459	1.06	0.260	0.186	02/10/2025 14:52	WG2446253
(T) Barium-133	108					30.0-143	02/10/2025 14:52	WG2446253

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

(MB) R4176536-1 02/07/25 17:45

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.394		0.183	0.350	0.183
(T) Barium	128		128		
(T) Yttrium	87.3		87.3		

L1821694-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1821694-02 02/07/25 17:45 • (DUP) R4176536-5 02/07/25 17:45

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	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.456	0.324	0.630	0.331	0.697	0.387	0.745	0.389	41.8	0.477	J	20	3
(T) Barium	97.5				99.1	99.1							
(T) Yttrium	90.9				92.1	92.1							

Laboratory Control Sample (LCS)

(LCS) R4176536-2 02/07/25 17:45

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.02	100	80.0-120	
(T) Barium			84.3		
(T) Yttrium			91.1		

L1821697-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1821697-01 02/07/25 17:45 • (MS) R4176536-3 02/07/25 17:45 • (MSD) R4176536-4 02/07/25 17:45

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.349	14.0	14.9	81.6	87.1	1	70.0-130			6.30		20
(T) Barium		93.0			91.6	110							
(T) Yttrium		89.9			93.6	88.7							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

(MB) R4175382-1 02/10/25 14:52

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0515	J	0.0647	0.0905	0.0578
(T) Barium-133	103		103		

L1821694-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1821694-01 02/10/25 14:52 • (DUP) R4175382-5 02/10/25 14:52

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	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.201	0.170	0.182	0.138	0.220	0.218	0.278	0.193	8.97	0.0684	J	20	3
(T) Barium-133	103				109	109							

Laboratory Control Sample (LCS)

(LCS) R4175382-2 02/10/25 14:52

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.03	101	80.0-120	
(T) Barium-133			105		

L1822869-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1822869-06 02/10/25 14:52 • (MS) R4175382-3 02/10/25 14:52 • (MSD) R4175382-4 02/10/25 14:52

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.506	20.1	16.5	98.1	80.1	1	75.0-125			19.7		20
(T) Barium-133		110			105	111							

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

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.

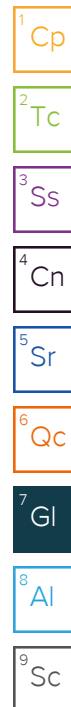
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. 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.
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ACCREDITATIONS & LOCATIONS

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

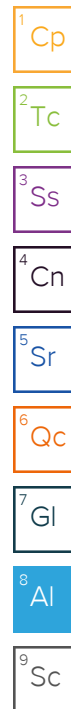
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



SUBCONTRACT ORDER
Transfer Chain of Custody

C022

Pace Analytical Services, LLC

IA04117

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

US 286M

Sample: IA04117-01
Name: P60

Sampled: 01/28/25 12:08
Matrix: Ground Water
Preservative: HNO₃, pH <2

-01

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	02/10/25 16:00	07/27/25 12:08	10 Day TAT Required
Sample: IA04117-02 Name: P60 DUP			Sampled: 01/28/25 12:08 Matrix: Ground Water Preservative: HNO₃, pH <2

-02

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	02/10/25 16:00	07/27/25 12:08	10 Day TAT Required

CG# 16,840.4 H-2 717,542.9 4570
COC Seal Present/Intact: ☒ Y ☐ N
COC Signed/Accurate: ☒ Y ☐ N
Bottles active/Intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
PA Screen <0.5 mB/hr: ☒ Y ☐ N
Sample Receipt Checklist: ☒ If Applicable
VOA Zero Headspace: ☒ Y ☐ N
Pres. Correct/Check: ☒ Y ☐ N
Dmains: 5.2

Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 1/29/25 Total # of Containers: 2 Sample Origin (State): IL PO #: _____
Turnaround Time Requested ☐ NORMAL ☐ RUSH Date Results Needed: _____

Relinquished By [Signature] Date/Time 1/29/25 1330 Received By [Signature] Date/Time 01/31/25 1000
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 _____

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

ANALYTICAL REPORT

February 14, 2025

Pace IR - Peoria, IL

Sample Delivery Group: L1821697

Samples Received: 01/31/2025

Project Number: IA04247

Description: IA04247

Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

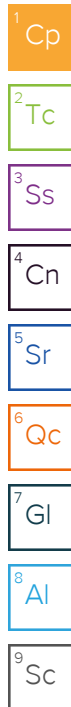


Ashley N Pullium
Project Manager

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 mydata.pacelabs.com



Cp: Cover Page

Tc: Table of Contents

Ss: Sample Summary

Cn: Case Narrative

Sr: Sample Results

G62L L1821697-01

Qc: Quality Control Summary

Radiochemistry by Method 904/9320

Radiochemistry by Method SM7500Ra B M

Gl: Glossary of Terms

Al: Accreditations & Locations

Sc: Sample Chain of Custody

1
2
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10

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

SAMPLE SUMMARY

Collected by

Collected date/time

Received date/time

01/27/25 12:53

01/31/25 09:00

G62L L1821697 01 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2445424	1	02/04/25 11:19	02/07/25 17:45	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2446253	1	02/05/25 11:30	02/10/25 14:52	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2446253	1	02/05/25 11:30	02/10/25 14:52	ZRG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

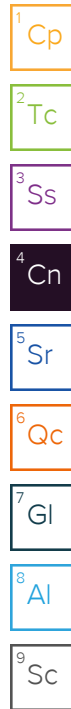
⁹Sc

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.



Ashley N Pullium
Project Manager



DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.349	J	0.206	0.422	0.399	0.211	02/07/2025 17:45	WG2445424
(T) Barium	93.0					30.0-143	02/07/2025 17:45	WG2445424
(T) Yttrium	89.9					30.0-136	02/07/2025 17:45	WG2445424

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.575		0.274	0.447	02/10/2025 14:52	WG2446253

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.226		0.181	0.332	0.201	0.144	02/10/2025 14:52	WG2446253
(T) Barium-133	108					30.0-143	02/10/2025 14:52	WG2446253

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

(MB) R4176536-1 02/07/25 17:45

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.394		0.183	0.350	0.183
(T) Barium	128		128		
(T) Yttrium	87.3		87.3		

L1821694-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1821694-02 02/07/25 17:45 • (DUP) R4176536-5 02/07/25 17:45

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	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.456	0.324	0.630	0.331	0.697	0.387	0.745	0.389	41.8	0.477	J	20	3
(T) Barium	97.5				99.1	99.1							
(T) Yttrium	90.9				92.1	92.1							

Laboratory Control Sample (LCS)

(LCS) R4176536-2 02/07/25 17:45

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.02	100	80.0-120	
(T) Barium			84.3		
(T) Yttrium			91.1		

L1821697-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1821697-01 02/07/25 17:45 • (MS) R4176536-3 02/07/25 17:45 • (MSD) R4176536-4 02/07/25 17:45

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.349	14.0	14.9	81.6	87.1	1	70.0-130			6.30		20
(T) Barium		93.0			91.6	110							
(T) Yttrium		89.9			93.6	88.7							

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

(MB) R4175382-1 02/10/25 14:52

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0515	J	0.0647	0.0905	0.0578
(T) Barium-133	103		103		

L1821694-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1821694-01 02/10/25 14:52 • (DUP) R4175382-5 02/10/25 14:52

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	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.201	0.170	0.182	0.138	0.220	0.218	0.278	0.193	8.97	0.0684	J	20	3
(T) Barium-133	103				109	109							

Laboratory Control Sample (LCS)

(LCS) R4175382-2 02/10/25 14:52

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.03	101	80.0-120	
(T) Barium-133			105		

L1822869-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1822869-06 02/10/25 14:52 • (MS) R4175382-3 02/10/25 14:52 • (MSD) R4175382-4 02/10/25 14:52

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.506	20.1	16.5	98.1	80.1	1	75.0-125			19.7		20
(T) Barium-133		110			105	111							

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

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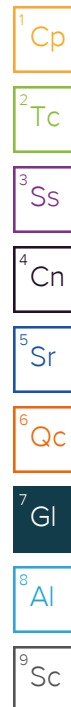
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

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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.
---	---



ATTACHMENT B. ACCREDITATIONS & LOCATIONS

845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

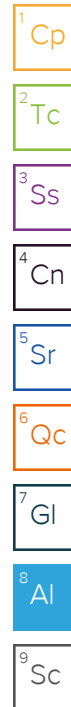
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

SUBCONTRACT ORDER
Transfer Chain of Custody
Pace Analytical Services, LLC

C023

IA04247

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

4621617

Sample: IA04247-01
Name: G62L

Sampled: 01/27/25 12:53
Matrix: Ground Water
Preservative: HNO₃, pH <2

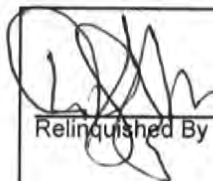
-a

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	02/07/25 16:00	07/26/25 12:53	10 Day TAT Required

CGA 16810.46 17.2
7717 54.29 4570
Sample Receipt Checklist
COC Seal Present/Intact: ☒ Y ☐ N
COC Signed/Accurate: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
RA Screen <0.5 mR/hr: ☒ Y ☐ N
If Applicable
VOA Zero Headspace: ☒ Y ☐ N
Pres. Correct/Check: ☒ Y ☐ N
Container: 1

Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 1/29/25 Total # of Containers: 1 Sample Origin (State): IL PO #: _____
Turn-Around Time Requested ☐ NORMAL ☐ RUSH Date Results Needed: _____

	<u>1/29/25 1330</u>		<u>01/31/25 0900</u>	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
				Date/Time Taken From Sample Bottle	Y or N

ANALYTICAL REPORT

February 25, 2025

Revised Report

Pace IR - Peoria, IL

Sample Delivery Group: L1822864
Samples Received: 02/04/2025
Project Number: IA04429
Description:
Site: 01
Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:



Ashley N Pullium
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 mydata.pacelabs.com

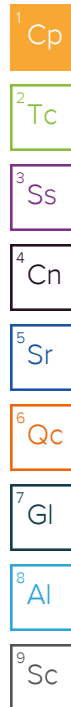


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EB #2 L1822864-02	6	
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SAMPLE SUMMARY

XPW01 L1822864-01 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/29/25 14:10 02/04/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2447151	1	02/06/25 22:41	02/13/25 13:10	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2446253	1	02/05/25 11:30	02/13/25 13:10	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2446253	1	02/05/25 11:30	02/10/25 14:52	ZRG	Mt. Juliet, TN

EB #2 L1822864-02 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/29/25 14:35 02/04/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2447151	1	02/06/25 22:41	02/13/25 13:10	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2446253	1	02/05/25 11:30	02/13/25 13:10	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2446253	1	02/05/25 11:30	02/10/25 14:52	ZRG	Mt. Juliet, TN

BA03 L1822864-03 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/29/25 12:59 02/04/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2447151	1	02/06/25 22:41	02/13/25 13:10	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2446253	1	02/05/25 11:30	02/13/25 13:10	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2446253	1	02/05/25 11:30	02/10/25 14:52	ZRG	Mt. Juliet, TN

BA03L L1822864-04 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/29/25 13:41 02/04/25 09:00

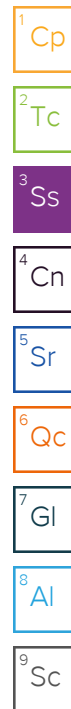
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2447151	1	02/06/25 22:41	02/13/25 13:10	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2446253	1	02/05/25 11:30	02/13/25 13:10	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2446253	1	02/05/25 11:30	02/10/25 14:52	ZRG	Mt. Juliet, TN

BA04 L1822864-05 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/29/25 15:00 02/04/25 09:00

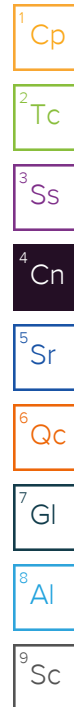
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2447151	1	02/06/25 22:41	02/13/25 13:10	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2446253	1	02/05/25 11:30	02/13/25 13:10	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2446253	1	02/05/25 11:30	02/10/25 14:52	ZRG	Mt. Juliet, TN



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.



Ashley N Pullium
Project Manager



Report Revision History

Level II Report - Version 1: 02/18/25 12:01

Project Narrative

Editing time

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.233	U	0.267	0.480	0.514	0.269	02/13/2025 13:10	WG2447151
(T) Barium	88.7					30.0-143	02/13/2025 13:10	WG2447151
(T) Yttrium	98.4					30.0-136	02/13/2025 13:10	WG2447151

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.85		0.521	0.553	02/13/2025 13:10	WG2446253

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	1.62		0.447	1.51	0.205	0.149	02/10/2025 14:52	WG2446253
(T) Barium-133	104					30.0-143	02/10/2025 14:52	WG2446253

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.245	U	0.488	0.950	0.949	0.498	02/13/2025 13:10	WG2447151
(T) Barium	142					30.0-143	02/13/2025 13:10	WG2447151
(T) Yttrium	101					30.0-136	02/13/2025 13:10	WG2447151

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.395	U	0.526	0.989	02/13/2025 13:10	WG2446253

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.150	J	0.195	0.303	0.279	0.193	02/10/2025 14:52	WG2446253
(T) Barium-133	107					30.0-143	02/10/2025 14:52	WG2446253

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.547		0.222	0.420	0.416	0.218	02/13/2025 13:10	WG2447151
(T) Barium	132					30.0-143	02/13/2025 13:10	WG2447151
(T) Yttrium	106					30.0-136	02/13/2025 13:10	WG2447151

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.659		0.295	0.514	02/13/2025 13:10	WG2446253

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.112	J	0.194	0.301	0.302	0.208	02/10/2025 14:52	WG2446253
(T) Barium-133	118					30.0-143	02/10/2025 14:52	WG2446253

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.393	J	0.259	0.471	0.494	0.258	02/13/2025 13:10	WG2447151
(T) Barium	88.2					30.0-143	02/13/2025 13:10	WG2447151
(T) Yttrium	110					30.0-136	02/13/2025 13:10	WG2447151

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.760		0.397	0.611	02/13/2025 13:10	WG2446253

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.367		0.301	0.583	0.360	0.240	02/10/2025 14:52	WG2446253
(T) Barium-133	109					30.0-143	02/10/2025 14:52	WG2446253

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.247	J	0.232	0.432	0.446	0.233	02/13/2025 13:10	WG2447151
(T) Barium	111					30.0-143	02/13/2025 13:10	WG2447151
(T) Yttrium	98.6					30.0-136	02/13/2025 13:10	WG2447151

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.310	J	0.322	0.586	02/13/2025 13:10	WG2446253

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0631	U	0.224	0.327	0.380	0.250	02/10/2025 14:52	WG2446253
(T) Barium-133	98.4					30.0-143	02/10/2025 14:52	WG2446253

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

(MB) R4176838-1 02/11/25 16:31

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	-0.363	<u>U</u>	0.258	0.247	
(T) Barium	133		133		
(T) Yttrium	77.1		77.1		

L1823134-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1823134-02 02/13/25 13:10 • (DUP) R4176838-5 02/12/25 17:51

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	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.76	0.669	0.648	0.340	2.03	0.311	0.522		14.4	0.369		20	3
(T) Barium	132				123	123							
(T) Yttrium	87.3				89.2	89.2							

Laboratory Control Sample (LCS)

(LCS) R4176838-2 02/12/25 17:51

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.89	97.8	80.0-120	
(T) Barium			129		
(T) Yttrium			89.7		

L1822864-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1822864-02 02/13/25 13:10 • (MS) R4176838-3 02/12/25 17:51 • (MSD) R4176838-4 02/12/25 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 %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.245	16.4	14.9	96.7	87.9	1	70.0-130			9.39		20
(T) Barium		142			119	137							
(T) Yttrium		101			89.0	90.5							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

(MB) R4175382-1 02/10/25 14:52

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0515		0.0647	0.0905	0.0578
(T) Barium-133	103		103		

L1821694-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1821694-01 02/10/25 14:52 • (DUP) R4175382-5 02/10/25 14:52

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	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.201	0.170	0.182	0.138	0.220	0.218	0.278	0.193	8.97	0.0684		20	3
(T) Barium-133	103				109	109							

Laboratory Control Sample (LCS)

(LCS) R4175382-2 02/10/25 14:52

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.03	101	80.0-120	
(T) Barium-133			105		

L1822869-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1822869-06 02/10/25 14:52 • (MS) R4175382-3 02/10/25 14:52 • (MSD) R4175382-4 02/10/25 14:52

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.506	20.1	16.5	98.1	80.1	1	75.0-125			19.7		20
(T) Barium-133		110			105	111							

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

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.

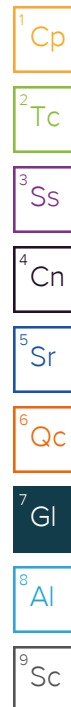
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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



ACCREDITATIONS & LOCATIONS

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

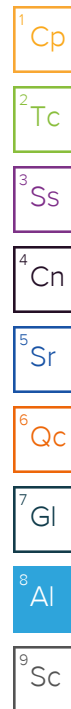
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC
IA04429

B214

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

U5822864

Sample: IA04429-01
Name: XPW01

Sampled: 01/29/25 14:10
Matrix: Ground Water
Preservative: HNO3, pH <2

-01

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	02/20/25 16:00	07/28/25 14:10	10 Day TAT Required

Sample: IA04429-02
Name: EB #2

Sampled: 01/29/25 14:35
Matrix: DI Water
Preservative: HNO3, pH <2

-02

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	02/20/25 16:00	07/28/25 14:35	10 Day TAT Required

Sample: IA04429-03
Name: BA03

Sampled: 01/29/25 12:54
Matrix: Ground Water
Preservative: HNO3, pH <2

1259
-03 2/25/25
JLB

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	02/20/25 16:00	07/28/25 12:54	10 Day TAT Required

Sample: IA04429-04
Name: BA03L

Sampled: 01/29/25 13:41
Matrix: Ground Water
Preservative: HNO3, pH <2

-04

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	02/20/25 16:00	07/28/25 13:41	10 Day TAT Required

Sample: IA04429-05
Name: BA04

Sampled: 01/29/25 15:00
Matrix: Ground Water
Preservative: HNO3, pH <2

-05

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	02/20/25 16:00	07/28/25 15:00	10 Day TAT Required

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

CONTRACT ORDER
Transfer Chain of Custody
Pace Analytical Services, LLC
IA04429

LI522864

AMB

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		
RA Screen <0.5 mR/hr:	☒ Y ☒ N		

5 TOTAL

Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 2/3/2025 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
<u>Keri August</u>	<u>2/3/2025 14:20</u>	<u>Christopher J. Mallin</u>	<u>2/4/25 0900</u>

ANALYTICAL REPORT

February 21, 2025

Revised Report

Pace IR - Peoria, IL

Sample Delivery Group: L1822867
Samples Received: 02/04/2025
Project Number: IA04618
Description:
Site: 01
Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:



Ashley N Pullium
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 mydata.pacelabs.com

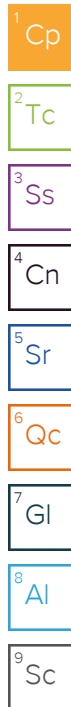


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SAMPLE SUMMARY

G54S L1822867-01 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/30/25 10:45
02/04/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2447151	1	02/06/25 22:41	02/13/25 13:10	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2446253	1	02/05/25 11:30	02/13/25 13:10	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2446253	1	02/05/25 11:30	02/10/25 14:52	ZRG	Mt. Juliet, TN

G60S L1822867-02 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/30/25 12:15
02/04/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2447151	1	02/06/25 22:41	02/13/25 13:10	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2446253	1	02/05/25 11:30	02/13/25 13:10	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2446253	1	02/05/25 11:30	02/10/25 14:52	ZRG	Mt. Juliet, TN

G60L L1822867-03 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/30/25 13:23
02/04/25 09:00

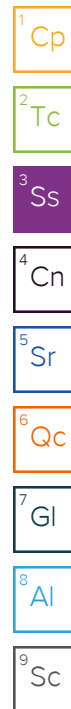
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2447151	1	02/06/25 22:41	02/13/25 13:10	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2446253	1	02/05/25 11:30	02/13/25 13:10	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2446253	1	02/05/25 11:30	02/10/25 14:52	ZRG	Mt. Juliet, TN

FIELD BLANK L1822867-04 Non-Potable Water

Collected by
Collected date/time
Received date/time

01/30/25 13:23
02/04/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2447151	1	02/06/25 22:41	02/13/25 13:10	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2446253	1	02/05/25 11:30	02/13/25 13:10	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2446253	1	02/05/25 11:30	02/10/25 14:52	ZRG	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.



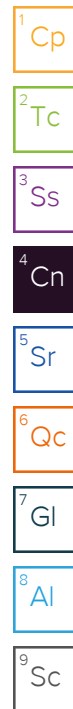
Ashley N Pullium
Project Manager

Report Revision History

Level II Report - Version 1: 02/18/25 12:06

Project Narrative

Resvised deliverable corrected collection times



DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.0965	U	0.233	0.431	0.451	0.235	02/13/2025 13:10	WG2447151
(T) Barium	137					30.0-143	02/13/2025 13:10	WG2447151
(T) Yttrium	109					30.0-136	02/13/2025 13:10	WG2447151

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.469	J	0.339	0.511	02/13/2025 13:10	WG2446253

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.373		0.246	0.411	0.240	0.172	02/10/2025 14:52	WG2446253
(T) Barium-133	111					30.0-143	02/10/2025 14:52	WG2446253

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.600	J	0.588	1.05	1.13	0.586	02/13/2025 13:10	WG2447151
(T) Barium	142					30.0-143	02/13/2025 13:10	WG2447151
(T) Yttrium	100					30.0-136	02/13/2025 13:10	WG2447151

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.22		0.667	1.15	02/13/2025 13:10	WG2446253

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.616		0.315	0.568	0.237	0.176	02/10/2025 14:52	WG2446253
(T) Barium-133	110					30.0-143	02/10/2025 14:52	WG2446253

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.644	J	0.630	1.11	1.21	0.630	02/13/2025 13:10	WG2447151
(T) Barium	127					30.0-143	02/13/2025 13:10	WG2447151
(T) Yttrium	94.1					30.0-136	02/13/2025 13:10	WG2447151

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.936	J	0.667	1.23	02/13/2025 13:10	WG2446253

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.292		0.218	0.425	0.230	0.165	02/10/2025 14:52	WG2446253
(T) Barium-133	105					30.0-143	02/10/2025 14:52	WG2446253

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	-0.231	<u>U</u>	0.227	0.429	0.452	0.237	02/13/2025 13:10	WG2447151
(T) Barium	143					30.0-143	02/13/2025 13:10	WG2447151
(T) Yttrium	96.8					30.0-136	02/13/2025 13:10	WG2447151

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0448	<u>U</u>	0.278	0.533	02/13/2025 13:10	WG2446253

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0448	<u>U</u>	0.161	0.200	0.282	0.189	02/10/2025 14:52	WG2446253
(T) Barium-133	110					30.0-143	02/10/2025 14:52	WG2446253

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

(MB) R4176838-1 02/11/25 16:31

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	-0.363	<u>U</u>	0.258	0.247	
(T) Barium	133		133		
(T) Yttrium	77.1		77.1		

L1823134-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1823134-02 02/13/25 13:10 • (DUP) R4176838-5 02/12/25 17:51

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	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.76	0.669	0.648	0.340	2.03	0.311	0.522		14.4	0.369		20	3
(T) Barium	132				123	123							
(T) Yttrium	87.3				89.2	89.2							

Laboratory Control Sample (LCS)

(LCS) R4176838-2 02/12/25 17:51

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.89	97.8	80.0-120	
(T) Barium			129		
(T) Yttrium			89.7		

L1822864-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1822864-02 02/13/25 13:10 • (MS) R4176838-3 02/12/25 17:51 • (MSD) R4176838-4 02/12/25 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 %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.245	16.4	14.9	96.7	87.9	1	70.0-130			9.39		20
(T) Barium		142			119	137							
(T) Yttrium		101			89.0	90.5							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

(MB) R4175382-1 02/10/25 14:52

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0515	J	0.0647	0.0905	0.0578
(T) Barium-133	103		103		

L1821694-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1821694-01 02/10/25 14:52 • (DUP) R4175382-5 02/10/25 14:52

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	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.201	0.170	0.182	0.138	0.220	0.218	0.278	0.193	8.97	0.0684	J	20	3
(T) Barium-133	103				109	109							

Laboratory Control Sample (LCS)

(LCS) R4175382-2 02/10/25 14:52

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.03	101	80.0-120	
(T) Barium-133			105		

L1822869-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1822869-06 02/10/25 14:52 • (MS) R4175382-3 02/10/25 14:52 • (MSD) R4175382-4 02/10/25 14:52

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.506	20.1	16.5	98.1	80.1	1	75.0-125			19.7		20
(T) Barium-133		110			105	111							

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

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.

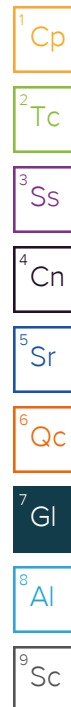
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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



ACCREDITATIONS & LOCATIONS

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

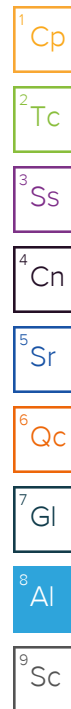
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



SUBCONTRACT ORDER
Transfer Chain of Custody
Pace Analytical Services, LLC
IA04618

B215

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

4822867

Sample: IA04618-01
Name: G54S

Sampled: 01/30/25 10:45
Matrix: Ground Water
Preservative: HNO3, pH <2

-01

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	02/21/25 16:00	07/29/25 10:45	10 Day TAT Required

Sample: IA04618-02
Name: G60S

Sampled: 01/30/25 14:17
Matrix: Ground Water
Preservative: HNO3, pH <2

-02

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	02/21/25 16:00	07/29/25 14:17	10 Day TAT Required

Sample: IA04618-03
Name: G60L

Sampled: 01/30/25 14:17
Matrix: Ground Water
Preservative: HNO3, pH <2

-03

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	02/21/25 16:00	07/29/25 14:17	10 Day TAT Required

Sample: IA04618-04
Name: Field Blank

Sampled: 01/30/25 13:23
Matrix: Ground Water
Preservative: HNO3, pH <2

-04

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	02/21/25 16:00	07/29/25 13:23	10 Day TAT Required

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2023
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

CONTRACT ORDER
Transfer Chain of Custody
Pace Analytical Services, LLC
IA04618

4822867

Sample Receipt Checklist
Seal Present/Intact: Y N If Applicable
Signed/Accurate: Y N VOA Zero Headspace: Y N
Seals Active/Intact: Y N Pres. Correct/Check: Y N
Correct bottles used: Y N
Correct volume sent: Y N
Leakage <0.5 mL/hr: Y N **Amb**

Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 2/3/2025 Total # of Containers: 4 Sample Origin (State): IL PO #: _____
Turn-Around Time Requested ☐ NORMAL ☐ RUSH Date Results Needed: _____

Relinquished By <u>Kelli Dubose</u>		Date/Time <u>2/3/2025 14:20</u>		Received By _____		Date/Time _____		Sample Temperature Upon Receipt _____ °C
Relinquished By _____		Date/Time _____		Received By <u>Christopher M. Gallin</u>		Date/Time <u>2/3/2025 14:20</u>		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

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

147

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

148

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

149

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL

1A018
1A02032

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 Invoice Information				Section D Requested Client Information																							
Company		Address		Email To		Phone		Request Due Date/TAT:		Request To		Copy To		Address		Email To		Phone																	
Vistra Corp-Duck Creek		17751 North Cicco Rd Canton, IL 61520		Brian Voelker@VistraCorp.com		(217) 753-8911		10 day		Brian Voelker		Samantha.davies@vistracorp.com		Daryl Johnson		Robert.Johnson@vistracorp.com		see Section A																	
Vistra Corp-Duck Creek		17751 North Cicco Rd Canton, IL 61520		Brian Voelker@VistraCorp.com		(217) 753-8911		10 day		Brian Voelker		Samantha.davies@vistracorp.com		Daryl Johnson		Robert.Johnson@vistracorp.com		see Section A																	
Valid Matrix Codes				Matrix Code				Sample Type (G=Grab C=Comp)				Collected				Sample Temp at Collection				Preservatives				Analysis Test				Requested Analysis Filtered (Y/N)				Project No./ Lab ID			
G=Grab C=Comp W=Water S=Solid L=Liquid A=Aspirate M=Metal P=Pond R=Residue T=Topsoil S=Sludge W=Water A=Aspirate M=Metal P=Pond R=Residue T=Topsoil S=Sludge W=Water A=Aspirate M=Metal P=Pond R=Residue T=Topsoil S=Sludge W=Water				W-1 W-2 W-3 W-4 W-5 W-6 W-7 W-8 W-9 W-10 W-11 W-12 W-13 W-14 W-15 W-16 W-17 W-18 W-19 W-20 W-21 W-22 W-23 W-24 W-25 W-26 W-27 W-28 W-29 W-30 W-31 W-32 W-33 W-34 W-35 W-36 W-37 W-38 W-39 W-40 W-41 W-42 W-43 W-44 W-45 W-46 W-47 W-48 W-49 W-50 W-51 W-52 W-53 W-54 W-55 W-56 W-57 W-58 W-59 W-60 W-61 W-62 W-63 W-64 W-65 W-66 W-67 W-68 W-69 W-70 W-71 W-72 W-73 W-74 W-75 W-76 W-77 W-78 W-79 W-80 W-81 W-82 W-83 W-84 W-85 W-86 W-87 W-88 W-89 W-90 W-91 W-92 W-93 W-94 W-95 W-96 W-97 W-98 W-99 W-100 W-101 W-102 W-103 W-104 W-105 W-106 W-107 W-108 W-109 W-110 W-111 W-112 W-113 W-114 W-115 W-116 W-117 W-118 W-119 W-120 W-121 W-122 W-123 W-124 W-125 W-126 W-127 W-128 W-129 W-130 W-131 W-132 W-133 W-134 W-135 W-136 W-137 W-138 W-139 W-140 W-141 W-142 W-143 W-144 W-145 W-146 W-147 W-148 W-149 W-150 W-151 W-152 W-153 W-154 W-155 W-156 W-157 W-158 W-159 W-160 W-161 W-162 W-163 W-164 W-165 W-166 W-167 W-168 W-169 W-170 W-171 W-172 W-173 W-174 W-175 W-176 W-177 W-178 W-179 W-180 W-181 W-182 W-183 W-184 W-185 W-186 W-187 W-188 W-189 W-190 W-191 W-192 W-193 W-194 W-195 W-196 W-197 W-198 W-199 W-200 W-201 W-202 W-203 W-204 W-205 W-206 W-207 W-208 W-209 W-210 W-211 W-212 W-213 W-214 W-215 W-216 W-217 W-218 W-219 W-220 W-221 W-222 W-223 W-224 W-225 W-226 W-227 W-228 W-229 W-230 W-231 W-232 W-233 W-234 W-235 W-236 W-237 W-238 W-239 W-240 W-241 W-242 W-243 W-244 W-245 W-246 W-247 W-248 W-249 W-250 W-251 W-252 W-253 W-254 W-255 W-256 W-257 W-258 W-259 W-260 W-261 W-262 W-263 W-264 W-265 W-266 W-267 W-268 W-269 W-270 W-271 W-272 W-273 W-274 W-275 W-276 W-277 W-278 W-279 W-280 W-281 W-282 W-283 W-284 W-285 W-286 W-287 W-288 W-289 W-290 W-291 W-292 W-293 W-294 W-295 W-296 W-297 W-298 W-299 W-300 W-301 W-302 W-303 W-304 W-305 W-306 W-307 W-308 W-309 W-310 W-311 W-312 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W-645 W-646 W-647 W-648 W-649 W-650 W-651 W-652 W-653 W-654 W-655 W-656 W-657 W-658 W-659 W-660 W-661 W-662 W-663 W-664 W-665 W-666 W-667 W-668 W-669 W-670 W-671 W-672 W-673 W-674 W-675 W-676 W-677 W-678 W-679 W-680 W-681 W-682 W-683 W-684 W-685 W-686 W-687 W-688 W-689 W-690 W-691 W-692 W-693 W-694 W-695 W-696 W-697 W-698 W-699 W-700 W-701 W-702 W-703 W-704 W-705 W-706 W-707 W-708 W-709 W-710 W-711 W-712 W-713 W-714 W-715 W-716 W-717 W-718 W-719 W-720 W-721 W-722 W-723 W-724 W-725 W-726 W-727 W-728 W-729 W-730 W-731 W-732 W-733 W-734 W-735 W-736 W-737 W-738 W-739 W-740 W-741 W-742 W-743 W-744 W-745 W-746 W-747 W-748 W-749 W-750 W-751 W-752 W-753 W-754 W-755 W-756 W-757 W-758 W-759 W-760 W-761 W-762 W-763 W-764 W-765 W-766 W-767 W-768 W-769 W-770 W-771 W-772 W-773 W-774 W-775 W-776 W-777 W-778 W-779 W-780 W-781 W-782 W-783 W-784 W-785 W-786 W-787 W-788 W-789 W-790 W-791 W-792 W-793 W-794 W-795 W-796 W-797 W-798 W-799 W-800 W-801 W-802 W-803 W-804 W-805 W-806 W-807 W-808 W-809 W-810 W-811 W-812 W-813 W-814 W-815 W-816 W-817 W-818 W-819 W-820 W-821 W-822 W-823 W-824 W-825 W-826 W-827 W-828 W-829 W-830 W-831 W-832 W-833 W-834 W-835 W-836 W-837 W-838 W-839 W-840 W-841 W-842 W-843 W-844 W-845 W-846 W-847 W-848 W-849 W-850 W-851 W-852 W-853 W-854 W-855 W-856 W-857 W-858 W-859 W-860 W-861 W-862 W-863 W-864 W-865 W-866 W-867 W-868 W-869 W-870 W-871 W-872 W-873 W-874 W-875 W-876 W-877 W-878 W-879 W-880 W-881 W-882 W-883 W-884 W-885 W-886 W-887 W-888 W-889 W-890 W-891 W-892 W-893 W-894 W-895 W-896 W-897 W-898 W-899 W-900 W-901 W-902 W-903 W-904 W-905 W-906 W-907 W-908 W-909 W-910 W-911 W-912 W-913 W-914 W-915 W-916 W-917 W-918 W-919 W-920 W-921 W-922 W-923 W-924 W-925 W-926 W-927 W-928 W-929 W-930 W-931 W-932 W-933 W-934 W-935 W-936 W-937 W-938 W-939 W-940 W-941 W-942 W-943 W-944 W-945 W-946 W-947 W-948 W-949 W-950 W-951 W-952 W-953 W-954 W-955 W-956 W-957 W-958 W-959 W-960 W-961 W-962 W-963 W-964 W-965 W-966 W-967 W-968 W-969 W-970 W-971 W-972 W-973 W-974 W-975 W-976 W-977 W-978 W-979 W-980 W-981 W-982 W-983 W-984 W-985 W-986 W-987 W-988 W-989 W-990 W-991 W-992 W-993 W-994 W-995 W-996 W-997 W-998 W-999 W-1000 W-1001 W-1002 W-1003 W-1004 W-1005 W-1006 W-1007 W-1008 W-1009 W-1010 W-1011 W-1012 W-1013 W-1014 W-1015 W-1016 W-1017 W-1018 W-1019 W-1020 W-1021 W-1022 W-1023 W-1024 W-1025 W-1026 W-1027 W-1028 W-1029 W-1030 W-1031 W-1032 W-1033 W-1034 W-1035 W-1036 W-1037 W-1038 W-1039 W-1040 W-1041 W-1042 W-1043 W-1044 W-1045 W-1046 W-1047 W-1048 W-1049 W-1050 W-1051 W-1052 W-1053 W-1054 W-1055 W-1056 W-1057 W-1058 W-1059 W-1060 W-1061 W-1062 W-1063 W-1064 W-1065 W-1066 W-1067 W-1068 W-1069 W-1070 W-1071 W-1072 W-1073 W-1074 W-1075 W-1076 W-1077 W-1078 W-1079 W-1080 W-1081 W-1082 W-1083 W-1084 W-1085 W-1086 W-1087 W-1088 W-1089 W-1090 W-1091 W-1092 W-1093 W-1094 W-1095 W-1096 W-1097 W-1098 W-1099 W-1100 W-1101 W-1102 W-1103 W-1104 W-1105 W-1106 W-1107 W-1108 W-1109 W-1110 W-1111 W-1112 W-1113 W-1114 W-1115 W-1116 W-1117 W-1118 W-1119 W-1120 W-1121 W-1122 W-1123 W-1124 W-1125 W-1126 W-1127 W-1128 W-1129 W-1130 W-1131 W-1132 W-1133 W-1134 W-1135 W-1136 W-1137 W-1138 W-1139 W-1140 W-1141 W-1142 W-1143 W-1144 W-1145 W-1146 W-1147 W-1148 W-1149 W-1150 W-1151 W-1152 W-1153 W-1154 W-1155 W-1156 W-1157 W-1158 W-1159 W-1160 W-1161 W-1162 W-1163 W-1164 W-1165 W-1166 W-1167 W-1168 W-1169 W-1170 W-1171 W-1172 W-1173 W-1174 W-1175 W-1176 W-1177 W-1178 W-1179 W-1180 W-1181 W-1182 W-1183 W-1184 W-1185 W-1186 W-1187 W-1188 W-1189 W-1190 W-1191 W-1192 W-1193 W-1194 W-1195 W-1196 W-1197 W-1198 W-1199 W-1200 W-1201 W-1202 W-1203 W-1204 W-1205 W-1206 W-1207 W-1208 W-1209 W-1210 W-1211 W-1212 W-1213 W-1214 W-1215 W-1216 W-1217 W-1218 W-1219 W-1220 W-1221 W-1222 W-1223 W-1224 W-1225 W-1226 W-1227 W-1228 W-1229 W-1230 W-1231 W-1232 W-1233 W-1234 W-1235 W-1236 W-1237 W-1238 W-1239 W-1240 W-1241 W-1242 W-1243 W-1244 W-1245 W-1246 W-1247 W-1248 W-1249 W-1250 W-1251 W-1252 W-1253 W-1254 W-1255 W-1256 W-1257 W-1258 W-1259 W-1260 W-1261 W-1262 W-1263 W-1264 W-1265 W-1266 W-1267 W-1268 W-1269 W-1270 W-1271 W-1272 W-1273 W-1274 W-1275 W-1276 W-1277 W-1278 W-1279 W-1280 W-1281 W-1282 W-1283 W-1284 W-1285 W-1286 W-1287 W-1288 W-1289 W-1290 W-1291 W-1292 W-1293 W-1294 W-1295 W-1296 W-1297 W-1298 W-1299 W-1300 W-1301 W-1302 W-1303 W-1304 W-1305 W-1306 W-1307 W-1308 W-1309 W-1310 W-1311 W-1312 W-1313 W-1314 W-1315 W-1316 W-1317 W-1318 W-1319 W-1320 W-1321 W-1322 W-1323 W-1324 W-1325 W-1326 W-1327 W-1328 W-1329 W-1330 W-1331 W-1332 W-1333 W-1334 W-1335 W-1336 W-1337 W-1338 W-1339 W-1340 W-1341 W-1342 W-1343 W-1344 W-1345 W-1346 W-1347 W-1348 W-1349 W-1350 W-1351 W-1352 W-1353 W-1354 W-1355 W-1356 W-1357 W-1358 W-1359 W-1360 W-1361 W-1362 W-1363 W-1364 W-1365 W-1366 W-1367 W-1368 W-1369 W-1370 W-1371 W-1372 W-1373 W-1374 W-1375 W-1376 W-1377 W-1378 W-1379 W-1380 W-1381 W-1382 W-1383 W-1384 W-1385 W-1386 W-1387 W-1388 W-1389 W-1390 W-1391 W-1392 W-1393 W-1394 W-1395 W-1396 W-1397 W-1398 W-1399 W-1400 W-1401 W-1402 W-1403 W-1404 W-1405 W-1406 W-1407 W-1408 W-1409 W-1410 W-1411 W-1412 W-1413 W-1414 W-1415 W-1416 W-1417 W-1418 W-1419 W-1420 W-1421 W-1422 W-1423 W-1424 W-1425 W-1426 W-1427 W-1428 W-1429 W-1430 W-1431 W-1432 W-1433 W-1434 W-1435 W-1436 W-1437 W-1438 W-1439 W-1440 W-1441 W-1442 W-1443 W-1444 W-1445 W-1446 W-1447 W-1448 W-1449 W-1450 W-1451 W-1452 W-1453 W-1454 W-1455 W-1456 W-1457 W-1458 W-1459 W-1460 W-1461 W-1462 W-1463 W-1464 W-1465 W-1466 W-1467 W-1468 W-1469 W-1470 W-1471 W-1472 W-1473 W-1474 W-1475 W-1476 W-1477 W-1478 W-1479 W-1480 W-1481 W-1482 W-1483 W-1484 W-1485 W-1486 W-1487 W-1488 W-1489 W-1490 W-1491 W-1492 W-1493 W-1494 W-1495 W-1496 W-1497 W-1498 W-1499 W-1500 W-1501 W-1502 W-1503 W-1504 W-1505 W-1506 W-1507 W-1508 W-1509 W-1510 W-1511 W-1512 W-1513 W-1514 W-1515 W-1516 W-1517 W-1518 W-1519 W-1520 W-1521 W-1522 W-1523 W-1524 W-1525 W-1526 W-1527 W-1528 W-1529 W-1530 W-1531 W-1532 W-1533 W-1534 W-1535 W-1536 W-1537 W-1538 W-1539 W-1540 W-1541 W-1542 W-1543 W-1544 W-15																															

ENV-FRM-PEOR-0098 v03_Sample Condition Upon Receipt

Client Name: Vista Work Order #: 1A02032 Completed by / Date: TC 1/14/25
Custody Seal on Cooler/Box Present: Yes ☐ No ☐ Seals intact: Yes ☐ No ☐ N/A ☐

Chain of Custody (CoC) Present:	☒ Yes ☐ No	
CoC is Legible:	☒ Yes ☐ No	
Sampler Name Present on CoC:	☒ Yes ☐ No	
Sampler Signature Present on CoC:	☒ Yes ☐ No	
Sample Collection Date Present on CoC:	☒ Yes ☐ No	
Sample Collection Time Present on CoC:	☒ Yes ☐ No	
CoC Relinquished by Client:	☐ Yes ☐ No	
Unique Sample ID's Present on CoC:	☒ Yes ☐ No	
CoC and Sample Container Labels Match:	☒ Yes ☐ No	
Sample chilling process started prior to receipt: If yes, what type of ice:	☐ Yes ☐ No ☒ N/A ☐ Wet ☐ Blue	
Samples received within temperature compliance: ($\leq 6^{\circ}\text{C}$, but above freezing or received same day collected and chill process started prior to receipt)	☐ Yes ☐ No ☒ N/A	
Container(s) Received Intact:	☒ Yes ☐ No	
Containers Received Labeled and Labels are Legible:	☒ Yes ☐ No	
Appropriate Bottles Received for Analysis Requested:	☒ Yes ☐ No	
Sufficient Sample Volume Received:	☒ Yes ☐ No	
USDA Regulated Soil:		
Country of Origin: _____	☐ Yes ☐ No ☒ N/A	
State of Origin: _____		
Trip Blank(s) Received:	☐ Yes ☐ No ☒ N/A	
If present, are they Listed on CoC:	☐ Yes ☐ No	
Headspace (<6 mm or no bubbles) present in VOA vials – (Methods 8260, 624, 524.2 - including THM vials) If headspace is present, note sample ID and # of vials	☐ Yes ☐ No ☒ N/A	
All (Non-Field) Analysis Received Within Hold Times:	☒ Yes ☐ No	
Rush Turn Around Time Requested:	☒ Yes ☒ No ²	
Short Hold Time Analysis (48 Hours or Less):	☒ Yes ☒ No ²	

Client Notification/ Resolution:

If checked, please see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample.

Qualtrax ID: 296090

Effective Date: 12/11/2024 8:07:55 AM

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

15-4125	734	eye blow
NAME AND SIGNATURE		
Name of SAMPLER: Augustin Male		DATE Signed (MM/DD/YY): 8/15/25
SIGNATURE of SAMPLER: Augustin Male		115125 1734

ENV-FRM-PER-0098-003_Sample Condition Upon Receipt

Client Name: Vistra Work Order #: _____ Completed by / Date: CAP11/15/25

Custody Seal on Cooler/Box Present: Yes ☐ No ☒ Seals intact: Yes ☐ No ☐ N/A ☒

Chain of Custody (CoC) Present:	☒ Yes ☐ No
CoC is Legible:	☒ Yes ☐ No
Sampler Name Present on CoC:	☒ Yes ☐ No
Sampler Signature Present on CoC:	☒ Yes ☐ No
Sample Collection Date Present on CoC:	☒ Yes ☐ No
Sample Collection Time Present on CoC:	☒ Yes ☐ No
CoC Relinquished by Client:	☒ Yes ☐ No
Unique Sample ID's Present on CoC:	☒ Yes ☐ No
CoC and Sample Container Labels Match:	☒ Yes ☐ No
Sample chilling process started prior to receipt: If yes, what type of ice:	☒ Yes ☐ No ☐ N/A ☐ Wet ☒ Blue
Samples received within temperature compliance: ($\leq 6^{\circ}\text{C}$, but above freezing or received same day collected and chill process started prior to receipt)	☒ Yes ☐ No ☐ N/A
Container(s) Received Intact:	☒ Yes ☐ No
Containers Received Labeled and Labels are Legible:	☒ Yes ☐ No
Appropriate Bottles Received for Analysis Requested:	☒ Yes ☐ No
Sufficient Sample Volume Received:	☒ Yes ☐ No
USDA Regulated Soil: Country of Origin: _____ State of Origin: _____	☐ Yes ☐ No ☒ N/A
Trip Blank(s) Received: If present, are they Listed on CoC:	☐ Yes ☐ No ☒ N/A ☐ Yes ☐ No
Headspace (<6 mm or no bubbles) present in VOA vials – (Methods 8260, 624, 524.2 - including THM vials) If headspace is present, note sample ID and # of vials	☐ Yes ☐ No ☒ N/A
All (Non-Field) Analysis Received Within Hold Times:	☐ Yes ☒ No
Rush Turn Around Time Requested:	☐ Yes ☒ No
Short Hold Time Analysis (48 Hours or Less):	☐ Yes ☒ No

Client Notification/ Resolution:

If checked, please see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample.

	Plastic Bottles									
	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10
P, U, 1000ml - Total	1	1	1		1	1	1	2	1	
P, U, 250ml										
P, U, 500ml - Total										
P, U, 500ml - Diss	1	1	1	1	1	1	1		1	
P, 250ml/500ml H ₂ SO ₄ - Total										
P, 250ml/500ml H ₂ SO ₄ - Diss										
P, 250ml/500ml NaOH										
P, 250ml/500ml HNO ₃ - Total	1	1	1	1	2	1	1	1	1	
P, 250ml/500ml HNO ₃ - Diss										
P, 500ml NaOH + ZnAc										
P, U, 150ml/4oz TC										
P, 2.5L HNO ₃	1	1	1	1	1	1	1	1	1	
P, U, 2.5L										
P, U, 50ml										
S, P, 120ml Na ₂ S ₂ O ₃										
P, 16oz - Soil/Sludge										
Amber Glass Bottles - Vials										
A, G, U, 1000ml										
A, G, 1000ml HCl										
A, G, 1000ml MeCl ₂										
A, G, 500ml H ₂ SO ₄										
A, G, U, 500ml										
A, G, U, 250ml H ₂ SO ₄										
A, G, U, 250ml										
A, V, 40ml H ₂ SO ₄										
A, V, U, 60ml										
Clear Glass Bottles - Soil/Sludge Jars - Vials										
C, G, 1000ml HCl										
C, G, U, 1000ml										
C, G, U, 250ml - LLHg										
C, G, U, 250ml - LLHg - FB										
C, G, 16oz - Soil Jar										
C, G, 9oz - Soil Jar										
C, G, 4oz - Soil Jar										
C, G, 2oz - Soil Jar										
C, V, 40ml TSP										
C, V, 40ml HCl										
C, V, U, 40ml										
C, V, 40ml Na ₂ S ₂ O ₃										
C, V, 40ml MeOH										
C, V, 40ml Sodium Bisulfate										
C, V, U, 60ml										
Client Supplied										
Description										

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	
Required Client Information:		Required Project Information:		Invoice Information:	
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
	Carlton, 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) 753-8911	Project Name:		Project Manager:	
Fax:		Project Number:		Profile #:	
Requested Due Date/TAT:		10 day			
Page: 1 of 16 REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location IL STATE:					

[illegible]

ENV-FRM-P508-0003-03 Sample Condition Upon Receipt

Client Name: Vista DC Work Order #: 1A02635 Completed by / Date: ZC 1/16/25
Custody Seal on Cooler/Box Present: Yes ☐ No ☒ Seals intact: Yes ☐ No ☐ N/A ☒

Chain of Custody (CoC) Present:	☒ Yes ☐ No	
CoC is Legible:	☒ Yes ☐ No	
Sampler Name Present on CoC:	☒ Yes ☐ No	
Sampler Signature Present on CoC:	☒ Yes ☐ No	
Sample Collection Date Present on CoC:	☒ Yes ☐ No	
Sample Collection Time Present on CoC:	☒ Yes ☐ No	
CoC Relinquished by Client:	☒ Yes ☐ No	
Unique Sample ID's Present on CoC:	☒ Yes ☐ No	
CoC and Sample Container Labels Match:	☒ Yes ☐ No	
Sample chilling process started prior to receipt: If yes, what type of ice:	☒ Yes ☐ No ☒ N/A ☒ Wet ☐ Blue	
Samples received within temperature compliance: ($\leq 6^{\circ}\text{C}$, but above freezing or received same day collected and chill process started prior to receipt)	☒ Yes ☐ No ☒ N/A	
Container(s) Received Intact:	☒ Yes ☐ No	
Containers Received Labeled and Labels are Legible:	☒ Yes ☐ No	
Appropriate Bottles Received for Analysis Requested:	☒ Yes ☐ No	
Sufficient Sample Volume Received:	☒ Yes ☐ No	
USDA Regulated Soil: Country of Origin: _____ State of Origin: _____	☐ Yes ☐ No ☒ N/A	
Trip Blank(s) Received: If present, are they Listed on CoC:	☐ Yes ☐ No ☒ N/A ☐ Yes ☐ No	
Headspace (<6 mm or no bubbles) present in VOA vials – (Methods 8260, 624, 524.2 - including THM vials) If headspace is present, note sample ID and # of vials	☐ Yes ☐ No ☒ N/A	
All (Non-Field) Analysis Received Within Hold Times:	☒ Yes ☐ No	
Rush Turn Around Time Requested:	☐ Yes ☒ No	
Short Hold Time Analysis (48 Hours or Less):	☐ Yes ☒ No	

Client Notification/ Resolution: _____ If checked, please see attached form for additional comments ☐
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample.

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	Attention:	Brian Voelker
Address:	17751 North Cilco Rd Canton, IL 61520	Copy To:	Sam Davies: samantha.davies@vistracorp.com	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com	Daryl Johnson: Robert.Johnson@vistracorp.com	Address:	see Section A	
Phone:	(217) 753-8911 Fax:	Purchase Order No.:	Quote Reference:		
Requested Due Date/TAT:	10 day	Project Name:	Project Manager:		
		Project Number:	Profile #:		

IA02985

Page: 1 of

Section D Required Client Information		Valid Matrix Codes		MATRIX CODE		COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Preservatives		Requested Analysis Filtered (Y/N)		Project No./ Lab I.D.	
ITEM #	Sample ID (A-Z, 0-9 / -)	Matrix	Code	DATE	TIME	WT	TIME	WT	TIME	WT	TIME	WT	TIME	WT	TIME	WT	TIME
1	G54L	WATER	WT	01/20/2025	1803	WT	1803	WT	1803	WT	1803	WT	1803	WT	1803	WT	1803
2	G57L	WATER	WT	01/20/2025	1445	WT	1445	WT	1445	WT	1445	WT	1445	WT	1445	WT	1445
3	BA02L	WASTE WATER	WT	01/20/2025	1535	WT	1535	WT	1535	WT	1535	WT	1535	WT	1535	WT	1535
4	BA05	WASTE WATER	WT	01/20/2025	1350	WT	1350	WT	1350	WT	1350	WT	1350	WT	1350	WT	1350
5	BA06	WASTE WATER	WT	01/20/2025	1325	WT	1325	WT	1325	WT	1325	WT	1325	WT	1325	WT	1325
6																	
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-25Q1 Rev 0		Bohannan	01/20/25	1701	See below			Received on	Temp in °C
								Sealed Cooler	
								Custody	
								Ice (Y/N)	
								Samples Intact	

ENV-FRM-PEOR-0098 v03 Sample Condition Upon Receipt

Client Name: VISTA-DUCK CREEK Work Order #: IA02985 Completed by / Date: AP/11/20/25

Custody Seal on Cooler/Box Present: Yes ☐ No ☒ Seals intact: Yes ☐ No ☐ N/A ☒

Chain of Custody (CoC) Present:	☒ Yes ☐ No
CoC is Legible:	☒ Yes ☐ No
Sampler Name Present on CoC:	☒ Yes ☐ No
Sampler Signature Present on CoC:	☒ Yes ☐ No
Sample Collection Date Present on CoC:	☒ Yes ☐ No
Sample Collection Time Present on CoC:	☒ Yes ☐ No
CoC Relinquished by Client:	☒ Yes ☐ No
Unique Sample ID's Present on CoC:	☒ Yes ☐ No
CoC and Sample Container Labels Match:	☒ Yes ☐ No
Sample chilling process started prior to receipt: If yes, what type of ice:	☒ Yes ☐ No ☐ N/A ☒ Wet ☐ Blue
Samples received within temperature compliance: ($\leq 6^{\circ}\text{C}$, but above freezing or received same day collected and chill process started prior to receipt)	☒ Yes ☐ No ☐ N/A
Container(s) Received Intact:	☒ Yes ☐ No
Containers Received Labeled and Labels are Legible:	☒ Yes ☐ No
Appropriate Bottles Received for Analysis Requested:	☒ Yes ☐ No
Sufficient Sample Volume Received:	☒ Yes ☐ No
USDA Regulated Soil: Country of Origin: _____ State of Origin: _____	☐ Yes ☐ No ☒ N/A
Trip Blank(s) Received: If present, are they Listed on CoC:	☐ Yes ☐ No ☒ N/A ☐ Yes ☐ No
Headspace (<6 mm or no bubbles) present in VOA vials – (Methods 8260, 624, 524.2 - including THM vials) If headspace is present, note sample ID and # of vials	☐ Yes ☐ No ☒ N/A
All (Non-Field) Analysis Received Within Hold Times:	☒ Yes ☐ No
Rush Turn Around Time Requested:	☐ Yes ☒ No
Short Hold Time Analysis (48 Hours or Less):	☐ Yes ☒ No

Client Notification/ Resolution:

If checked, please see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample.

	Plastic Bottles									
	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10
P, U, 1000ml - Total										
P, U, 250ml										
P, U, 500ml - Total										
P, U, 500ml - Diss										
P, 250ml/500ml H ₂ SO ₄ - Total										
P, 250ml/500ml H ₂ SO ₄ - Diss										
P, 250ml/500ml NaOH										
P, 250ml/500ml HNO ₃ - Total										
P, 250ml/500ml HNO ₃ - Diss										
P, 500ml NaOH + ZnAc										
P, U, 150ml/4oz TC										
P, 2.5L HNO ₃	1		1	1	1					
P, U, 2.5L										
P, U, 50ml										
S, P, 120ml Na ₂ S ₂ O ₃										
P, 16oz - Soil/Sludge										
	Amber Glass Bottles - Vials									
A, G, U, 1000ml										
A, G, 1000ml HCl										
A, G, 1000ml MeCl ₂										
A, G, 500ml H ₂ SO ₄										
A, G, U, 500ml										
A, G, U, 250ml H ₂ SO ₄										
A, G, U, 250ml										
A, V, 40ml H ₂ SO ₄										
A, V, U, 60ml										
	Clear Glass Bottles - Soil/Sludge Jars - Vials									
C, G, 1000ml HCl										
C, G, U, 1000ml										
C, G, U, 250ml - LLHg										
C, G, U, 250ml - LLHg - FB										
C, G, 16oz - Soil Jar										
C, G, 9oz - Soil Jar										
C, G, 4oz - Soil Jar										
C, G, 2oz - Soil Jar										
C, V, 40ml TSP										
C, V, 40ml HCl										
C, V, U, 40ml										
C, V, 40ml Na ₂ S ₂ O ₃										
C, V, 40ml MeOH										
C, V, 40ml Sodium Bisulfate										
C, V, U, 60ml										
	Client Supplied									
Description										

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 Clico Rd Canton, IL 61520
Email To:	Brian Voelker@VistraCorp.com
Phone:	(217) 753-8911
Requested Due Date/TAT:	10 day

Section B

Required Project Information:

Report To:	Sam Davies
Copy To:	Sam Davies, samantha.davies@vistracorp.com
Purchase Order No.:	Daryl Johnson, Robert.Johnson@vistracorp.com
Project Name:	
Project Number:	

Section C

Invoice Information:

Attention:	Brian Voelker
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

Section D

Valid Matrix Codes

SAMPLE ID
(A-Z, 0-9 / -)
Sample IDs MUST BE UNIQUE

MATRIX CODE (see valid codes to left)
SAMPLE TYPE (G=GRAB C=COMP)

DATE
TIME

SAMPLE TEMP AT COLLECTION

OF CONTAINERS

Preservatives
Unpreserved
H₂SO₄
HNO₃
HCl
NaOH
Na₂S₂O₃
Methanol
Other

Analysis Test ↓

DC-257-203
DC-257-204
DC-257-205
DC-811-204
DC-845-203
DC-845-205
DC-CLOSURE-201-202
DC-HCR-201-202
DC-SUP-000
DC-WPCP-203-206

Residual Chlorine (Y/N)

Project No./ Lab ID.

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Residual Chlorine (Y/N)	Project No./ Lab ID.
1	G502L	WU	G	01/22/25	10:30		3	X	DC-257-203		
2	G501S	WU	G	01/22/25	11:30		4	X	DC-257-204		
3	G501S - Free Top - DCP	WU	G	01/22/25	11:30		4	X	DC-257-205		
4	G506	WU	G	01/22/25	12:45		4	X	DC-811-204		
5	G501L	WU	G	01/22/25	13:30		3	X	DC-845-203		
6	G507S	WU	G	01/22/25	14:50		4	X	DC-845-205		
7									DC-CLOSURE-201-202		
8									DC-HCR-201-202		
9									DC-SUP-000		
10									DC-WPCP-203-206		
11											
12											
13											
14											
15											
16											

ADDITIONAL COMMENTS
DC-2501 Rev 0

RELINQUISHED BY / AFFILIATION
Andy Witek

DATE
01/22/25

TIME
10:30

ACCEPTED BY / AFFILIATION
N

DATE
01/22/25

TIME
1630

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Andy Witek
SIGNATURE of SAMPLER:	Andy Witek
DATE Signed (MM/DD/YYYY):	01/22/25

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

1403314 1403314

ENV-FRM-003-003 Sample Condition Upon Receipt

Client Name: Vista DC Work Order #: 1A 03314 Completed by / Date: ZC 1/22
Custody Seal on Cooler/Box Present: Yes ☐ No ☒ Seals intact: Yes ☐ No ☐ N/A ☒

Chain of Custody (CoC) Present:	☒ Yes ☐ No	
CoC is Legible:	☒ Yes ☐ No	
Sampler Name Present on CoC:	☒ Yes ☐ No	
Sampler Signature Present on CoC:	☒ Yes ☐ No	
Sample Collection Date Present on CoC:	☒ Yes ☐ No	
Sample Collection Time Present on CoC:	☒ Yes ☐ No	
CoC Relinquished by Client:	☒ Yes ☐ No	
Unique Sample ID's Present on CoC:	☒ Yes ☐ No	
CoC and Sample Container Labels Match:	☒ Yes ☐ No	
Sample chilling process started prior to receipt: If yes, what type of ice:	☒ Yes ☐ No ☐ N/A ☒ Wet ☐ Blue	
Samples received within temperature compliance: ($\leq 6^{\circ}\text{C}$, but above freezing or received same day collected and chill process started prior to receipt)	☒ Yes ☐ No ☐ N/A	
Container(s) Received Intact:	☒ Yes ☐ No	
Containers Received Labeled and Labels are Legible:	☒ Yes ☐ No	
Appropriate Bottles Received for Analysis Requested:	☒ Yes ☐ No	
Sufficient Sample Volume Received:	☒ Yes ☐ No	
USDA Regulated Soil:		
Country of Origin: _____	☐ Yes ☐ No ☒ N/A	
State of Origin: _____		
Trip Blank(s) Received:	☐ Yes ☐ No ☒ N/A	
If present, are they Listed on CoC:	☐ Yes ☐ No	
Headspace (<6 mm or no bubbles) present in VOA vials – (Methods 8260, 624, 524.2 - including THM vials) If headspace is present, note sample ID and # of vials	☐ Yes ☐ No ☒ N/A	
All (Non-Field) Analysis Received Within Hold Times:	☒ Yes ☐ No	
Rush Turn Around Time Requested:	☐ Yes ☒ No	
Short Hold Time Analysis (48 Hours or Less):	☐ Yes ☒ No	

Client Notification/ Resolution:

If checked, please see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample.

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

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ENV-FRM-REQ-0008 v03 Sample Condition Upon Receipt

Client Name: Wistra DC Work Order #: _____ Completed by / Date: ZC 1/28/25

Custody Seal on Cooler/Box Present: Yes ☐ No ☐ Seals intact: Yes ☐ No ☐ N/A ☐

Chain of Custody (CoC) Present:	☒ Yes ☐ No	
CoC is Legible:	☒ Yes ☐ No	
Sampler Name Present on CoC:	☒ Yes ☐ No	
Sampler Signature Present on CoC:	☒ Yes ☐ No	
Sample Collection Date Present on CoC:	☒ Yes ☐ No	
Sample Collection Time Present on CoC:	☒ Yes ☐ No	
CoC Relinquished by Client:	☒ Yes ☐ No	
Unique Sample ID's Present on CoC:	☒ Yes ☐ No	
CoC and Sample Container Labels Match:	☒ Yes ☐ No	
Sample chilling process started prior to receipt: If yes, what type of ice:	☒ Yes ☐ No ☐ N/A ☒ Wet ☐ Blue	
Samples received within temperature compliance: ($\leq 6^{\circ}\text{C}$, but above freezing or received same day collected and chill process started prior to receipt)	☒ Yes ☐ No ☐ N/A	
Container(s) Received Intact:	☒ Yes ☐ No	
Containers Received Labeled and Labels are Legible:	☒ Yes ☐ No	
Appropriate Bottles Received for Analysis Requested:	☒ Yes ☐ No	
Sufficient Sample Volume Received:	☒ Yes ☐ No	
USDA Regulated Soil: Country of Origin: _____ State of Origin: _____	☐ Yes ☐ No ☒ N/A	
Trip Blank(s) Received: If present, are they Listed on CoC:	☐ Yes ☐ No ☒ N/A ☐ Yes ☐ No	
Headspace (<6 mm or no bubbles) present in VOA vials – (Methods 8260, 624, 524.2 - including THM vials) If headspace is present, note sample ID and # of vials	☐ Yes ☐ No ☒ N/A	
All (Non-Field) Analysis Received Within Hold Times:	☒ Yes ☐ No	
Rush Turn Around Time Requested:	☐ Yes ☒ No	
Short Hold Time Analysis (48 Hours or Less):	☐ Yes ☒ No	

Client Notification/ Resolution:

If checked, please see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample.

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	Attention:	Brian Voelker
Address:	17751 North Cilco Rd Canton, IL 61520	Copy To:	Sam Davies: samantha.davies@vistracorp.com	Company Name:	Vistra Corp
Email To:	Brian Voelker@VistraCorp.com		Daryl Johnson: Robert.Johnson@vistracorp.com	Address:	see Section A
Phone: (217) 753-8911	Fax:	Purchase Order No.:		Quote Reference	
		Project Name:		Project Manager:	
Requested Due Date/TAT: 10 day		Project Number:		Profile #	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DW DRINKING WATER WT WASTE WATER WW WASTE WATER SP SOLID SL SOLID OIL OIL WPE WASTE PESTICIDE WPE WASTE PESTICIDE AIR AIR OTHER OTHER TISSUE TISSUE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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ENV-FRM-PEOR-0098-v03 Sample Condition Upon Receipt

Client Name: Vistra DC Work Order #: _____ Completed by / Date: ZC 1/29

Custody Seal on Cooler/Box Present: Yes ☐ No ☐ Seals intact: Yes ☐ No ☐ N/A ☐

Chain of Custody (CoC) Present:	☒ Yes ☐ No	
CoC is Legible:	☒ Yes ☐ No	
Sampler Name Present on CoC:	☒ Yes ☐ No	
Sampler Signature Present on CoC:	☒ Yes ☐ No	
Sample Collection Date Present on CoC:	☒ Yes ☐ No	
Sample Collection Time Present on CoC:	☒ Yes ☐ No	
CoC Relinquished by Client:	☒ Yes ☐ No	
Unique Sample ID's Present on CoC:	☒ Yes ☐ No	
CoC and Sample Container Labels Match:	☒ Yes ☐ No	
Sample chilling process started prior to receipt: If yes, what type of ice:	☒ Yes ☐ No ☐ N/A ☒ Wet ☐ Blue	
Samples received within temperature compliance: ($\leq 6^{\circ}\text{C}$, but above freezing or received same day collected and chill process started prior to receipt)	☒ Yes ☐ No ☐ N/A	
Container(s) Received Intact:	☒ Yes ☐ No	
Containers Received Labeled and Labels are Legible:	☒ Yes ☐ No	
Appropriate Bottles Received for Analysis Requested:	☒ Yes ☐ No	
Sufficient Sample Volume Received:	☒ Yes ☐ No	
USDA Regulated Soil: Country of Origin: _____ State of Origin: _____	☐ Yes ☐ No ☒ N/A	
Trip Blank(s) Received: If present, are they Listed on CoC:	☐ Yes ☐ No ☒ N/A ☐ Yes ☐ No	
Headspace (<6 mm or no bubbles) present in VOA vials – (Methods 8260, 624, 524.2 - including THM vials) If headspace is present, note sample ID and # of vials	☐ Yes ☐ No ☒ N/A	
All (Non-Field) Analysis Received Within Hold Times:	☒ Yes ☐ No	
Rush Turn Around Time Requested:	☐ Yes ☒ No	
Short Hold Time Analysis (48 Hours or Less):	☐ Yes ☒ No	

Client Notification/ Resolution:

If checked, please see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample.

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

Invoice Information:

Section D

Requested Analysis Filtered (Y/N)

Requested Analysis Filtered (Y/N)

Requested Analysis Filtered (Y/N)

Requested Analysis Filtered (Y/N)

Requested Analysis Filtered (Y/N)

Requested Analysis Filtered (Y/N)

Requested Analysis Filtered (Y/N)

Requested Analysis Filtered (Y/N)

Requested Analysis Filtered (Y/N)

Requested Analysis Filtered (Y/N)

Requested Analysis Filtered (Y/N)

Requested Analysis Filtered (Y/N)

Requested Analysis Filtered (Y/N)

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Section D Requested Analysis Filtered (Y/N)	
Company:	Visira Corp-Duck Creek	Report To:	Brian Voelker	Attention:	Brian Voelker	Company Name:	Visira Corp
Address:	17751 North Cicco Rd	Copy To:	Sam Davies: samantha.davies@visiracorp.com	Address:	see Section A	NPDES	GROUND WATER
						UST	DRINKING WATER
Email To:	Brian.Voelker@VisiraCorp.com	Purchase Order No.:		Quote Reference:		RCRA	OTHER
Phone:	(217) 753-8911	Project Name:		Project Manager:		Site Location	IL
Requested Due Date/TAT:	10 day	Project Number:		Profile #:		STATE:	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WW WASTE WATER WWT PRECIPITATION P SOIL/SOLID S OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED 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	Requested Analysis Filtered (Y/N)										Project No. / Lab I.D.
1	G154S		WWG	G	01/30/25	10:45	4														
2	G160S		WWG	G	01/30/25	12:15	4														
3	G160L		WW	G	01/30/25	13:23	4														
4	Field blank		DI	G	01/30/25	13:23	5														Fixed at G160L
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					

Section E Additional Comments		Section F Relinquished By / Affiliation		Section G Date		Section H Time		Section I Accepted By / Affiliation		Section J Date		Section K Time		Section L Temp in °C		Section M Received on		Section N Ice (Y/N)		Section O Custody		Section P Sealed Cooler (Y/N)		Section Q Samples Initial (Y/N)	
DC-25Q1 Rev 0		Andy Whitaker		01/30/25		14:17		Camden Bennett		1-30-25		14:17		8.7		Y		N		Y		N		Y	
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		DATE Signed (MM/DD/YYYY):		DATE Signed (MM/DD/YYYY):		DATE Signed (MM/DD/YYYY):		DATE Signed (MM/DD/YYYY):		DATE Signed (MM/DD/YYYY):		DATE Signed (MM/DD/YYYY):		DATE Signed (MM/DD/YYYY):		DATE Signed (MM/DD/YYYY):		DATE Signed (MM/DD/YYYY):		DATE Signed (MM/DD/YYYY):		DATE Signed (MM/DD/YYYY):	
Andy Whitaker		Andy Whitaker		01/30/25		14:17		Camden Bennett		1-30-25		14:17		8.7		Y		N		Y		N		Y	

ENV-FRM-PER-0008 v03 Sample Condition Upon Receipt

Client Name: Vista Duckcreek Work Order #: 4610 Completed by / Date: CRB 1-30-25

Custody Seal on Cooler/Box Present: Yes ☐ No ☒ Seals intact: Yes ☐ No ☐ N/A ☒

Chain of Custody (CoC) Present:	☒ Yes ☐ No	
CoC is Legible:	☒ Yes ☐ No	
Sampler Name Present on CoC:	☒ Yes ☐ No	
Sampler Signature Present on CoC:	☒ Yes ☐ No	
Sample Collection Date Present on CoC:	☒ Yes ☐ No	
Sample Collection Time Present on CoC:	☒ Yes ☐ No	
CoC Relinquished by Client:	☒ Yes ☐ No	
Unique Sample ID's Present on CoC:	☒ Yes ☐ No	
CoC and Sample Container Labels Match:	☒ Yes ☐ No	
Sample chilling process started prior to receipt: If yes, what type of ice:	☒ Yes ☐ No ☐ N/A ☒ Wet ☐ Blue	
Samples received within temperature compliance: ($\leq 6^{\circ}\text{C}$, but above freezing or received same day collected and chill process started prior to receipt)	☐ Yes ☒ No ☐ N/A	
Container(s) Received Intact:	☒ Yes ☐ No	
Containers Received Labeled and Labels are Legible:	☒ Yes ☐ No	
Appropriate Bottles Received for Analysis Requested:	☒ Yes ☐ No	
Sufficient Sample Volume Received:	☒ Yes ☐ No	
USDA Regulated Soil:		
Country of Origin: _____	☐ Yes ☐ No ☒ N/A	
State of Origin: _____		
Trip Blank(s) Received:	☐ Yes ☐ No ☒ N/A	
If present, are they Listed on CoC:	☐ Yes ☐ No	
Headspace (<6 mm or no bubbles) present in VOA vials – (Methods 8260, 624, 524.2 - including THM vials) If headspace is present, note sample ID and # of vials	☐ Yes ☐ No ☒ N/A	
All (Non-Field) Analysis Received Within Hold Times:	☒ Yes ☐ No	
Rush Turn Around Time Requested:	☒ Yes ☐ No	<u>10 days</u>
Short Hold Time Analysis (48 Hours or Less):	☐ Yes ☒ No	

Client Notification/ Resolution:

If checked, please see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample.

INITIALS: CRB 1-30-25

	Plastic Bottles									
	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10
P, U, 1000ml - Total	1	1	1	1	Dis					
P, U, 250ml										
P, U, 500ml - Total	X									
P, U, 500ml - Diss	1	1	1							
P, 250ml/500ml H ₂ SO ₄ - Total										
P, 250ml/500ml H ₂ SO ₄ - Diss										
P, 250ml/500ml NaOH										
P, 250ml/500ml HNO ₃ - Total	1	1	1	1						
P, 250ml/500ml HNO ₃ - Diss				1						
P, 500ml NaOH + ZnAc										
P, U, 150ml/4oz TC										
P, 2.5L HNO ₃	1	1	1							
P, U, 2.5L										
P, U, 50ml										
S, P, 120ml Na ₂ S ₂ O ₃										
P, 16oz - Soil/Sludge										
Amber Glass Bottles - Vials										
A, G, U, 1000ml										
A, G, 1000ml HCl										
A, G, 1000ml MeCl ₂										
A, G, 500ml H ₂ SO ₄										
A, G, U, 500ml										
A, G, U, 250ml H ₂ SO ₄										
A, G, U, 250ml										
A, V, 40ml H ₂ SO ₄										
A, V, U, 60ml										
Clear Glass Bottles - Soil/Sludge Jars - Vials										
C, G, 1000ml HCl										
C, G, U, 1000ml										
C, G, U, 250ml - LLHg										
C, G, U, 250ml - LLHg - FB										
C, G, 16oz - Soil Jar										
C, G, 9oz - Soil Jar										
C, G, 4oz - Soil Jar										
C, G, 2oz - Soil Jar										
C, V, 40ml TSP										
C, V, 40ml HCl										
C, V, U, 40ml										
C, V, 40ml Na ₂ S ₂ O ₃										
C, V, 40ml MeOH										
C, V, 40ml Sodium Bisulfate										
C, V, U, 60ml										
Client Supplied										
Description										

SAR-3: Plant Sampling and Analysis Request

Event: DC-25Q1

Date Generated: 12/10/2024

All episodic water levels on SAR-3 and SAR-4 must be collected within a 24 hour period.

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
BA01C	DC_BA01C	6-Jan-25	1543	14.13		JB
BA01L	DC_BA01L	6-Jan-25	1541	13.94		JB
G02BS	DC_G02*BS	6-Jan-25	1543	14.13	App 2/12/25	JB
G02D	DC_G02&D	6-Jan-25	1331	16.16		ATM
G02L	DC_G02L	6-Jan-25	1333	23.62		ATM
G03L	DC_G03L	6-Jan-25	1335	8.34		ATM
G03S	DC_G03#S	6-Jan-25	1324	5.97		ATM
G04L	DC_G04L	6-Jan-25	1325	16.72		ATM
G04S	DC_G04#S	6-Jan-25	1424	16.99		ATM
G06L	DC_G06L	6-Jan-25	1410	21.8		ATW
G06S	DC_G06#S	6-Jan-25	1407	21.49		ATW
G07L	DC_G07L	6-Jan-25	1404	20.62		ATW
G08L	DC_G08L	6-Jan-25	1414	20.02		ATW
G09L	DC_G09L	6-Jan-25	1416	20.59		ATW
G09S	DC_G09#S	6-Jan-25	1418	20.83		ATW
G12L	DC_G12L	6-Jan-25	1430	24.55		ATW
G12S	DC_G12#S	6-Jan-25	1432	25.78		ATW
G14L	DC_G14L	6-Jan-25	1441	26.52		ATW
G15L	DC_G15L	6-Jan-25	1454	32.88		ATM
G15S	DC_G15#S	6-Jan-25	1452	33.27		ATM
G16L	DC_G16L	6-Jan-25	1456	30.20		ATM
G50L	DC_G50L	6-Jan-25	1151	17.39		ATM
G51L	DC_G51L	6-Jan-25	1118	13.60		ATM
G52L	DC_G52L	6-Jan-25	1104	25.93		ATM
G52S	DC_G52#S	6-Jan-25	1100	30.23		ATM
G53L	DC_G53L	6-Jan-25	1053	15.15		ATW
G53S	DC_G53#S	6-Jan-25	1055	16.23		ATW
G54C	DC_G54C	6-Jan-25	1337	36.42	lock broken	JB
G55L	DC_G55L	6-Jan-25	1301	25.19		ATM
G55S	DC_G55#S	6-Jan-25	1258	25.08		ATM
G56L	DC_G56L	6-Jan-25	1231	23.92		JB
G56S	DC_G56#S	6-Jan-25	1229	24.05		JB
G57L	DC_G57L	6-Jan-25	1231	25.80		ATM
G58L	DC_G58L	6-Jan-25	1220	29.45		ATM
G58S	DC_G58#S	6-Jan-25	1218	29.40		ATM
G59L	DC_G59L	6-Jan-25	1459	31.50		JB
G59S	DC_G59#S	6-Jan-25	1457	34.63		JB
G61S	DC_G61#S	6-Jan-25	1444	26.37		JB
G62L	DC_G62L	6-Jan-25	1445	25.40		ATM

and Analysis Request

12/10/2024

Water levels on SAR-3 and SAR-4 must be collected within a 24 hour period.

	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
63L	DC_G63!L	5-Jan-25	1433	25.92		
63S	DC_G63#S	6-Jan-25	1431	26.44		JB
G65L	DC_G65!L	6-Jan-25	1358	23.43		JB
G65S	DC_G65#S	6-Jan-25	1149	23.71		JB
G66L	DC_G66!L	6-Jan-25	1207	20.52		JB
G66S	DC_G66#S	6-Jan-25	1207	20.46		JB
G67L	DC_G67!L	6-Jan-25	1216	17.54		JB
G67S	DC_G67#S	6-Jan-25	1218	18.32		JB
G68L	DC_G68!L	6-Jan-25	1300	17.08		JB
G68S	DC_G68#S	6-Jan-25	1305	19.53	Well dry	JB
G69L	DC_G69!L	6-Jan-25	1255	18.93		JB
G69S	DC_G69#S	6-Jan-25	1345	26.70		JB
G70L	DC_G70!L	6-Jan-25	1052	22.39	lock broken	JB
G71L	DC_G71!L	6-Jan-25	1106	28.32		JB
G71S	DC_G71#S	6-Jan-25	1106	28.78		JB
G72L	DC_G72!L	6-Jan-25	1120	27.68		JB
G73L	DC_G73!L	6-Jan-25	1139	29.81		JB
L103	DC_L103	6-Jan-25	1610	1.49		JB
OM05S	DC_OM05#S	7-Jan-25	1117	23.12		AJM
OM08	DC_OM08	7-Jan-25	1009	14.29		JB
OM09	DC_OM09	7-Jan-25	1254	26.83		JB
OM10	DC_OM10	7-Jan-25	1052	15.44	Well dry	AJM
OM100D	DC_OM100&D	7-Jan-25	0952	15.25		AJM
OM100S	DC_OM100#S	7-Jan-25	0950	15.40		AJM
OM101D	DC_OM101&D	7-Jan-25	1148	19.74		AJM
OM101S	DC_OM101#S	7-Jan-25	1146	19.55		AJM
OM12D	DC_OM12&D	7-Jan-25	0945	19.20		AJM
OM15	DC_OM15	7-Jan-25	1001	22.83		JB
OM15D	DC_OM15&D	7-Jan-25	1003	25.66		AJM
OM17D	DC_OM17&D	7-Jan-25	1028	17.95		AJM
OM22S	DC_OM22#S	7-Jan-25	0940	20.44		AJM
OM23S	DC_OM23#S	7-Jan-25	1012	42.51		AJM
OM25D	DC_OM25&D	7-Jan-25	1202	59.45		AJM
OM26	DC_OM26	7-Jan-25	1242	31.60		AJM
OM27	DC_OM27	7-Jan-25	1233	34.04		JB
OM28	DC_OM28	7-Jan-25	1219	44.80		JB
OR03S	DC_OR03#S	7-Jan-25	1226	46.05		JB
OR05D	DC_OR05&D	7-Jan-25	1118	22.92		AJM
OR14S	DC_OR14#S	7-Jan-25	1301	6.84		JB

SAR-3: Plant Sampling and Analysis Request

Event: DC-25Q1

Date Generated: 12/10/2024

All episodic water levels on SAR-3 and SAR-4 must be collected within a 24 hour period.

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
OR18	DC_OR18	7-Jan-25	0938	20.57		AJM
P01I	DC_P01\$I	6-Jan-25	1354	9.08		AJM
P01L	DC_P01\$L	6-Jan-25	1352	8.91		AJM
P01S	DC_P01\$S	6-Jan-25	1350	8.76		AJM
P02S	DC_P02\$S	6-Jan-25	1543	14.13	Same as 602135	AJM
P04S	DC_P04\$S	6-Jan-25	1424	16.94	Same as 6045	AJM
P05D	DC_P05&D	6-Jan-25	1409	6.59		AJM
P05L	DC_P05\$L	6-Jan-25	1414	6.98		AJM
P05S	DC_P05\$S	6-Jan-25	1411	5.91		AJM
P36D	DC_P36&D	6-Jan-25	1326	11.51		AJM
P36L	DC_P36\$L	6-Jan-25	1328	10.57		AJM
P36S	DC_P36\$S	6-Jan-25	1331	10.89		AJM
P37D	DC_P37&D	6-Jan-25	1429	15.72		AJM
P37L	DC_P37\$L	6-Jan-25	1423	14.22		AJM
P38L	DC_P38\$L	6-Jan-25	1444	19.50		AJM
P38S	DC_P38\$S	6-Jan-25	1445	20.35		AJM
P39D	DC_P39&D	6-Jan-25	1441	4.19		AJM
P39L	DC_P39\$L	6-Jan-25	1443	4.63		AJM
P39S	DC_P39\$S	6-Jan-25	1439	5.14		AJM
P40L	DC_P40\$L	6-Jan-25	1518	14.86		AJM
P40S	DC_P40\$S	6-Jan-25	1521	14.11		AJM
P41D	DC_P41&D	6-Jan-25	1551	36.39		AJM
P41I1	DC_P41\$I1	6-Jan-25	1548	12.20		AJM
P41I2	DC_P41\$I2	6-Jan-25	1546	36.61		AJM
P41L	DC_P41\$L	6-Jan-25	1555	9.98		AJM
P41S	DC_P41\$S	6-Jan-25	1552	11.89		AJM
P42D	DC_P42&D	6-Jan-25	1529	38.62		AJM
P42I1	DC_P42\$I1	6-Jan-25	1535	8.22		AJM
P42I2	DC_P42\$I2	6-Jan-25	1532	33.61		AJM
P42L	DC_P42\$L	6-Jan-25	1540	7.26	Well damaged	AJM
P42S	DC_P42\$S	6-Jan-25	1537	7.90		AJM
P52	DC_P52	6-Jan-25	1233	18.45		AJM
P57L	DC_P57\$L	6-Jan-25	1247	20.17		JB
P57S	DC_P57\$S	6-Jan-25	1249	19.90		JB
P60	DC_P60	6-Jan-25	1148	28.92		AJM
P61	DC_P61	6-Jan-25	1140	17.60		AJM
P62	DC_P62	6-Jan-25	1126	15.98		AJM
P63	DC_P63	6-Jan-25	1116	6.82		AJM
P64	DC_P64	6-Jan-25	1240	17.12		AJM

SAR-3: Plant Sampling and Analysis Request

Event: DC-25Q1

Date Generated: 12/10/2024

All episodic water levels on SAR-3 and SAR-4 must be collected within a 24 hour period.

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
R10L	DC_R10!L	6-Jan-25	1425	23.02		AJW
R11L	DC_R11!L	6-Jan-25	1427	23.66		AJW
R13L	DC_R13!L	6-Jan-25	1434	25.46		AJW
R61L	DC_R61!L	6-Jan-25	1136	26.88		AJW
R72S	DC_R72#S	6-Jan-25	1125	29.34		JB
T43L	DC_T43!L	6-Jan-25	1356	6.27		AJW
T44L	DC_T44!L	6-Jan-25	1354	10.55		AJW
T45L	DC_T45!L	6-Jan-25	1400	8.38		AJW
T46L	DC_T46!L	6-Jan-25	1339	0.41		AJW
X301	DC_X301_leachate	6-Jan-25	1516	3.71		JB

SAR-4: Plant Sampling and Analysis Request
Event: DC-25Q1

Date Generated: 12/10/2024

All episodic water levels on SAR-3 and SAR-4 must be collected within a 24 hour period.

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Serial Number	Does Data Logger Serial No Match?	WL Reading on Transducer (ft)	Data downloaded?	Batt (H/M/L/R)	Comments	Initials
BA01	DC_BA01	6-20-25	15:38	16.68	21615533	YES	572.51	Y	H		JH
BA02	DC_BA02	6-20-25	15:42	9.99	21615636	YES	669.68	Y	H		JM
BA02L	DC_BA02L	6-20-25	15:41	10.20	21615682	YES	669.94	Y	H		JW
BA03	DC_BA03	6-20-25	15:38	6.68	21615637	YES	571.81	Y	H		JW
BA03L	DC_BA03L	6-20-25	15:34	6.28	21615687	N/A	N/A	N/A	N/A	Removed, to be reinstalled Q2	JW
BA04	DC_BA04	6-20-25	15:29	6.66	21615631	YES	571.63	Y	H		JW
BA05	DC_BA05#	6-20-25	15:59	18.34	21615540	YES	573.46	Y	H		JW
BA06	DC_BA06	6-20-25	15:30	26.04	21615525	YES	574.61	Y	H		JW
G02S	DC_G02#S	6-20-25	13:37	7.99	21615554	YES	613.90	Y	H		JW
G50S	DC_G50#S	6-20-25	11:48	13.50	21615535	YES	610.09	Y	H		JW
G51S	DC_G51#S	6-20-25	11:19	13.19	21615691	YES	606.10	Y	H		JW
G54L	DC_G54L	6-20-25	10:17	27.54	21615690	YES	595.27	Y	H		JW
G54S	DC_G54#S	6-20-25	10:51	20.90	21615684	YES	594.10	Y	H		JW
G57S	DC_G57#S	6-20-25	9:06	25.03	21615683	YES	593.07	Y	H		JH
G60L	DC_G60L	6-20-25	11:55	20.39	21615678	YES	594.86	Y	H		JW
G60S	DC_G60#S	6-20-25	11:53	25.86	21615677	YES	588.29	Y	H		JW
G64L	DC_G64L	6-20-25	11:05	24.83	21615688	YES	593.63	Y	H		JW
G64S	DC_G64#S	6-20-25	11:02	25.81	21615632	YES	593.22	Y	H		JW
OM01	DC_OM01	7-20-25	09:44	13.39	21615685	YES	581.73	Y	H		JW
OM04S	DC_OM04#S	7-20-25	12:43	21.55	21615542	YES	585.37	Y	M		JW
OM07	DC_OM07	7-20-25	11:59	13.50	21921676	YES	589.94	Y	H		JH
OM12	DC_OM12	7-20-25	10:20	18.32	21926670	YES	571.72	Y	H		JH
OM16	DC_OM16	7-20-25	10:38	28.95	21615539	YES	579.88	Y	H		JW
OM17	DC_OM17	7-20-25	10:29	12.75	21615693	YES	578.89	Y	M		JW
OM21	DC_OM21	7-20-25	12:19	11.90	21615593	YES	593.35	Y	H		JH
OM22D	DC_OM22&D	7-20-25	09:35	20.17	21615592	YES	578.60	Y	H		JW
OM23D	DC_OM23&D	7-20-25	10:15	30.45	21615591	YES	573.61	Y	M		JW
OM24D	DC_OM24&D	7-20-25	13:21	4.18	21615522	YES	672.65	Y	H		JW
OM25S	DC_OM25#S	7-20-25	12:00	58.45	21615681	YES	570.43	Y	H		JW

SAR-4: Plant Sampling and Analysis Request
Event: DC-25Q1

Date Generated: 12/10/2024

All episodic water levels on SAR-3 and SAR-4 must be collected within a 24 hour period.

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Serial Number	Does Data Logger Serial No Match?	WL Reading on Transducer (ft)	Data downloaded?	Batt (H/M/L/R)	Comments	Initials
OR02	DC_OR02	7-30-25	034	6.94	21615679	YES	595.06	Y	H		ASW
OR03D	DC_OR03&D	7-30-25	041	46.54	21615577	YES	581.30	Y	H		ASW
OR04D	DC_OR04&D	7-30-25	050	22.19	21615570	YES	585.20	Y	H		ASW
OR06A	DC_OR06IA	7-30-25	143	10.00	21615692	YES	577.52	Y	H		ASW
OR11	DC_OR11	7-30-25	143	30.07	21615686	YES	564.52	Y	H		ASW
OR13D	DC_OR13&D	7-30-25	1049	14.56	216156135	YES	587.38	Y	H		ASW
OR13S	DC_OR13#S	7-30-25	1000	13.91	21615676	YES	586.51	Y	H		ASW
OR14D	DC_OR14&D	7-30-25	1258	14.09	21615611	YES	588.05	Y	H		ASW
OR19	DC_OR19	7-30-25	0932	24.09	21615634	YES	573.32	Y	M		ASW
OR20	DC_OR20	7-30-25	038	22.19	21615610	YES	565.41	Y	H		ASW
RG01	DC_RG01	15-30-25	1052	-	21628685	YES	-	Y	L		ASW

Duck Creek

WELL/SAMPLE POINT **BA01**

Purge Method: **Dedicated Bladder**

Date: 15-Jan-25 Start Time: 1317 Finish/Sample Time: 1440

Well Depth (Bottom) From MP: _____ ft
Min. Purge Volume: 1000 mL
Depth to Water From MP: 1502 ft
Total Purge Volume: 1800 mL
Water Column Length: _____ ft
Well Water Volume: _____ L
Total Drawdown: 0.03 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	1331	15.05	100	7.81	991	7.82	189	3.20	259
2	1334	15.05	1	7.72	998	7.89	187	3.13	219
3	1337	15.05	1	7.65	994	7.97	196	3.12	210
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Horiba

Check pH if reading is below 6.9

Secondary pH Meter: _____

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
1	Rad (P, 2.5L, HNO3)

4

4
FD

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 15.05 ft

Comments Field dup taken here

Sampler's Signature: [Signature]

APP

Duck Creek

WELL/SAMPLE POINT **BA02**

Purge Method: **Dedicated Bladder**

Date: **15-Jan-25** Start Time: **4:45** Finish/Sample Time: **16:15**

Well Depth (Bottom) From MP: _____ ft

Min. Purge Volume: **1000** mL

Depth to Water From MP: **10.20** ft

Total Purge Volume: **1800** mL

Water Column Length: _____ ft

Well Water Volume: _____ L

Total Drawdown: **0.85** ft **APP 1/17/25**

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	15:20	11.05	100	7.87	822	7.21	161	9.54	248
2	15:23	11.05	1	7.96	858	7.29	155	9.42	239
3	15:26	11.05	1	7.87	832	7.37	148	9.46	230
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: **Horiba**

Check pH if reading is below 6.9

Secondary pH Meter: **Oakton**

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: **11.05** ft

Comments

Sampler's Signature: **[Signature]**

APP

Duck Creek

WELL/SAMPLE POINT **BA02L**

Purge Method: **Dedicated Peristaltic Tubing**

Date: **20-Jan-25** Start Time: **14:21** Finish/Sample Time: **15:35**

Well Depth (Bottom) From MP: **14.35** ft
Depth to Water From MP: **10:21** ft
Water Column Length: **4.14** ft
Well Water Volume: **2.51** L
Min. Purge Volume: **1000** mL
Total Purge Volume: **1800** mL
Total Drawdown: **3.99** 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	1429	11.95	1580	7.88	829	9.88	310	9.76	Over Range
2	1432	12.46	1	7.79	802	9.80	309	9.70	1
3	1435	12.70	1	7.70	809	9.77	306	9.56	1
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

20-Jan-25
15:35
> 1000

Field Meter: **Horiuba**

Check pH if reading is below 6.9 or above 7.7

Secondary pH Meter: **Dakota**

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

4

Final DTW: **14.20** ft

Comments: **Paused sampling @ 1452 due to drawdown. Resumed @ 1505, Paused @ 1515. Resumed @ 1525**

Sampler's Signature: **[Signature]**

APP

Duck Creek

WELL/SAMPLE POINT **BA03**

Purge Method: **Dedicated Bladder**

Date: 29-Jan-25 Start Time: 1200 Finish/Sample Time: 1259

Well Depth (Bottom) From MP: _____ ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 8.09 ft

Total Purge Volume: 1800 mL

Water Column Length: _____ ft

Well Water Volume: _____ L

Total Drawdown: 0.64 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	1211	8.45	100	7.40	786	11.4	86	1.50	3.2
2	1214	8.42	1	7.46	781	11.4	86	1.48	3.5
3	1217	8.54	1	7.50	773	11.5	86	1.46	34.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Horiba

Check pH if reading is below 6.9 or above 7.7

Secondary pH Meter: _____

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
24.5	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 8.75 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **BA03L**

Purge Method: **Dedicated Bladder**

Date: **29-Jan-25** Start Time: **1300** Finish/Sample Time: **1341**

Well Depth (Bottom) From MP: _____ ft

Min. Purge Volume: **1000** mL

Depth to Water From MP: **7.79** ft

Total Purge Volume: **800** mL

Water Column Length: _____ ft

Well Water Volume: _____ L

Total Drawdown: **0.31** 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	1308	7.95	100	7.53	1394	11.8	79	3.21	36.6
2	1311	8.00	1	7.52	1388	11.7	80	3.86	36.2
3	1314	8.00	1	7.49	1375	11.6	81	3.69	35.9
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: **Horiba**

Check pH if reading is below 6.9

Secondary pH Meter: _____

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
223	Metals (P,250mL, HNO3)
45M	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: **8.10** ft

Comments

Sampler's Signature: **[Signature]**

Duck Creek

WELL/SAMPLE POINT **BA04**

Purge Method: **Dedicated Bladder**

Date: **29-Jan-25** Start Time: **1409** Finish/Sample Time: **1500**

Well Depth (Bottom) From MP: _____ ft

Min. Purge Volume: **1000** mL

Depth to Water From MP: **7.55** ft

Total Purge Volume: **1800** mL

Water Column Length: _____ ft

Well Water Volume: _____ L

Total Drawdown: **0.05** ft

APR 2/12/25

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	7.59	100	7.63	926	12.4	12	2.07	25.8
2	1424	7.60	1	7.59	1025	12.5	17	1.93	30.2
3	1427	7.60	1	7.59	1042	12.6	20	1.78	31.5
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: **HoriBa**

Check pH if reading is below 6.9

Secondary pH Meter: _____

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:

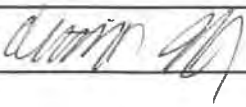
Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

(4)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: **7.60** ft

Comments

Sampler's Signature: 

Duck Creek

WELL/SAMPLE POINT **BA05**

Purge Method: **Dedicated Bladder**

Date: **20-Jan-25** Start Time: **1232** Finish/Sample Time: **1350**

Well Depth (Bottom) From MP: _____ ft

Min. Purge Volume: **1000** mL

Depth to Water From MP: **17.55** ft

Total Purge Volume: **2100** mL

Water Column Length: _____ ft

Well Water Volume: _____ L

Total Drawdown: **4.33** 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	1307	20.20	100	7.11	1519	7.06	175	0.00	Full range
2	1310	20.54	1	7.38	1507	8.16	179	0.68	1
3	1313	20.82	1	7.41	1506	8.24	180	0.83	1
4	1316	20.95	1	7.46	1489	8.32	181	0.93	1
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

27-Jan-25 1311
>1000

Field Meter: **Horiba**

Check pH if reading is below 6.9 or above 7.7

Secondary pH Meter: **Dakota**

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: **22.18** ft

Comments

Sampler's Signature: **Chris M**

APp

Duck Creek

WELL/SAMPLE POINT **BA06**

Purge Method: **Dedicated Bladder**

Date: **20-Jan-25** Start Time: **1014** Finish/Sample Time: **1225**

Well Depth (Bottom) From MP: _____ ft

Min. Purge Volume: **1000** mL

Depth to Water From MP: **2680** ft

Total Purge Volume: **1800** mL

Water Column Length: _____ ft

Well Water Volume: _____ L

Total Drawdown: **5.13** 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	1132	2280	180	6.85	2720	6.90	198	3.06	1000
2	1135	23.25	I	6.88	2700	6.98	203	2.98	I
3	1138	23.65		6.81	2710	6.90	206	2.79	
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

37-Jan-25 AJA
>1000

Field Meter: **Horiba**

Check pH if reading is below 6.9 or above 7.7

Secondary pH Meter: **Oakton**

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: **26.93** ft

Comments

Sampler's Signature: **Ammon**

App

Duck Creek

WELL/SAMPLE POINT **G02S**

Purge Method: **Dedicated Bladder**

Date: 16-Jan-25 Start Time: 1501 Finish/Sample Time: 1600

Well Depth (Bottom) From MP: 29.06 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 8.20 ft

Total Purge Volume: 1800 mL

Water Column Length: 20.86 ft

Well Water Volume: 12.63 L

Total Drawdown: 1.38 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	1515	9.15	100	7.02	737	10.00	280	7.73	3.2
2	1518	9.21	1	7.07	757	10.19	279	7.82	24.5
3	1521	9.29	1	7.04	753	11.02	281	7.65	17.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

(4)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 9.58 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **G04S**

Purge Method: **Dedicated Bladder**

Date: 16-Jun-25 Start Time: 1127 Finish/Sample Time: 1213

Well Depth (Bottom) From MP: 35.30 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 16.49 ft

Total Purge Volume: 2500 mL

Water Column Length: 18.81 ft

Well Water Volume: 11.39 L

Total Drawdown: 0.2 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	1134	16.75	120	8.85	991	10.06	191	3.25	138
2	1137	16.69		7.53	949	9.97	190	3.06	98.5
3	1140	16.69		7.53	944	9.81	98	2.58	65.8
4	1143	16.69		7.53	951	9.83	208	2.43	47.3
5	1146	16.69		7.53	951	9.90	216	2.29	59.1
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 16.69 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **G06L**

Purge Method: **Dedicated Peristaltic Tubing**

Date: 1/8/2025 Start Time: 1311 Finish/Sample Time: 1431

Well Depth (Bottom) From MP: 25.34 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 21.31 ft

Total Purge Volume: 1400 mL

Water Column Length: 4.03 ft

Well Water Volume: 2.44 L

Total Drawdown: 1.07 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	1402	21.50	100	8.16	960	8.97	97	5.21	9.1
2	1405	21.94	100	7.43	941	10.34	128	2.45	9.7
3	1407	21.99	100	7.38	937	10.41	132	2.41	9.5
4	1410	22.08	100	7.35	942	10.42	135	2.38	9.4
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter:

Horiaba

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

③

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 22.38 ft

Comments

Sampler's Signature: J Bohannon

Duck Creek

WELL/SAMPLE POINT **G06S**

Purge Method: **Dedicated Bladder**

Date: 8-Jan-25 Start Time: 1118 Finish/Sample Time: 1208

Well Depth (Bottom) From MP: 44.69 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 21.65 ft

Total Purge Volume: 1800 mL

Water Column Length: 22.35 ft

Well Water Volume: 13,54 L

Total Drawdown: 0.15 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	1135	21.80	70	8.56	869	8.17	56.9	0.8	58.6
2	1138	21.80	↓	8.72	880	8.32	165	0.0	99.0
3	1141	21.80	↓	8.64	883	8.40	165	0.0	57.8
4	1144	21.80	↓	8.58	879	8.37	166	0.0	
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

③

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 21.80 ft

Comments **Check pH if readings are below 6.5 or above 7.2** pH check with Dakton 8.53

Sampler's Signature: Clinton M

Duck Creek

WELL/SAMPLE POINT **G07L**

Purge Method: **Dedicated Peristaltic Tubing**

Date: **7-Feb-25** Start Time: **1446** Finish/Sample Time: **1524**

Well Depth (Bottom) From MP: **23.45** ft

Min. Purge Volume: **1000** mL

Depth to Water From MP: **20.73** ft

Total Purge Volume: **1000** mL

Water Column Length: **2.72** ft

Well Water Volume: **1.64** L

Total Drawdown: **1.59** 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	1457	21.21	100	9.19	963	10.67	137	1.11	92.3
2	1500	21.40	1	8.99	948	10.75	144	1.25	92.6
3	1503	21.61	1	8.95	940	10.83	153	1.16	87.3
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: **22.32** ft

Comments

Sampler's Signature: **Darin M**

Duck Creek

WELL/SAMPLE POINT **G08L**

Purge Method: **Dedicated Peristaltic Tubing**

Date: **1/8/2025** Start Time: **1438** Finish/Sample Time: **1510**

Well Depth (Bottom) From MP: **23.07** ft Min. Purge Volume: **1000** mL

Depth to Water From MP: **20.27** ft Total Purge Volume: **1300** mL

Water Column Length: **2.8** ft

Well Water Volume: **1.70** L Total Drawdown: **2.38** 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	1444	21.00	100	7.10	1130	11.53	144	9.19	0.0
2	1452	21.27	100	7.16	1120	11.55	145	9.13	0.0
3	1455	21.45	100	7.13	1120	11.58	146	9.12	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: **22.65** ft

Comments

Sampler's Signature: **Bohannon**

WELL/SAMPLE POINT **G09L**

Purge Method: **Dedicated Peristaltic Tubing**

Date: 1/8/2025 Start Time: 1514 ^{Went dry} ~~1818~~ Finish/Sample Time: 1346 ¹⁰⁵⁷ ~~1818~~ ¹¹⁹ ~~1818~~ ^{APP 2/12/25}

Well Depth (Bottom) From MP: 23.54 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 20.84 ft ^{20.96} ~~18~~ Total Purge Volume: 1300 mL

Water Column Length: 2.7 ft

Well Water Volume: 1.64 L Total Drawdown: 0.76 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	1532	22.0	100	7.19	0000	9.78	219	16.77	260
2	1535	22.26	100	7.21	0000	9.72	220	16.65	260
3	1537	22.48	100	7.22	0000	9.70	219	16.63	261
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW:

21.72 ft

Comments

Ran dry during collection on 1/8

Spec con issues with
Horiba

Sampler's Signature:

Bohannon

→ Sample collected 1/9/25 @ 1057
per AP - see Finish time note by AP

APP

* Conductivity
reading
provided
by lab
for this
sample.
Could not
get proper
reading
"lab"

Duck Creek

WELL/SAMPLE POINT

G09S

Purge Method:

Dedicated Bladder

Date:

16-Jan-25

Start Time:

1221

Finish/Sample Time:

1318

Well Depth (Bottom) From MP:

34.34 ft

Min. Purge Volume:

1000 mL

Depth to Water From MP:

22.15 ft

Total Purge Volume:

1800 mL

Water Column Length:

13.7 ft

Well Water Volume:

8.30 L

Total Drawdown:

1.86 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	1246	22.00	100	7.27	809	18.36	340	5.37	Over range
2	1249	22.15	1	7.19	793	18.45	334	5.31	1
3	1252	22.34	1	7.27	795	18.53	324	5.42	1
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter:

Horiba/oakton

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

(3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW:

22.50

ft

Comments Check pH if readings are below 6.5 or above 7.2

Oakton pH 7.25

Sampler's Signature:

Umm M

Duck Creek

WELL/SAMPLE POINT **G12S**

Purge Method: **Dedicated Bladder**

Date: **16-Jan-25** Start Time: **1356** Finish/Sample Time: **1436**

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: **1000** mL

Depth to Water From MP: **25.48** ft Total Purge Volume: **1800** mL

Water Column Length: _____ ft

Well Water Volume: _____ L Total Drawdown: **1.18** 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	1406	25.58	100	7.58	634	10.33	69	5.57	14.4
2	1409	26.55	1	7.53	631	10.32	119	5.08	87.5
3	1412	26.58	1	7.60	633	10.35	127	5.12	78.3
4	1415	26.58	1	7.59	633	10.36	135	5.26	71.7
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter:

Horiba/Darkton

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

(3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: **26.58** ft

Comments **Check pH if readings are above 7.2** Darkton pH 7.54

Sampler's Signature: Quinn M

Duck Creek

WELL/SAMPLE POINT **G15S**

Purge Method: **Dedicated Bladder**

Date: 29-Jan-25 Start Time: 1040 Finish/Sample Time: 1122

Well Depth (Bottom) From MP: 44.32 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 32.94 ft Total Purge Volume: 1800 mL

Water Column Length: 11.38 ft

Well Water Volume: 6.89 L Total Drawdown: 0.99 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	1047	33.76	100	7.70	759	10.1	33	1.98	39.0
2	1050	33.85	1	7.67	723	10.2	39	1.94	38.9
3	1053	33.89	1	7.58	824	10.1	41	1.85	32.5
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter:

Horioba

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 33.93 ft

Comments **Check pH if readings are below 6.2**

Sampler's Signature: *[Signature]*

Duck Creek

WELL/SAMPLE POINT G50L

Purge Method: Dedicated Bladder

Date: 01/22/25 Start Time: 12:50 Finish/Sample Time: 13:30

Well Depth (Bottom) From MP: 19.19 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 12.45 ft

Total Purge Volume: 1300 mL

Water Column Length: 16.74 ft

Well Water Volume: 4.08 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	13:02	12.74	100	6.99	1200	7.67	95	6.93	0.0
2	13:05	12.82	100	6.99	609	7.68	100	6.61	0.0
3	13:08	12.88	100	6.99	609	7.69	104	6.25	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P, 1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 12:88 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **G50S**

Purge Method: **Dedicated Bladder**

Date: 01/22/25 Start Time: 11:40 Finish/Sample Time: 12:45

Well Depth (Bottom) From MP: 37.30 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 13.55 ft Total Purge Volume: 1300 mL

Water Column Length: 23.75 ft

Well Water Volume: 14.38 L Total Drawdown: 5.83 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	11:52	15.10	100	7.27	455	6.75	-89	1.64	0.0
2	11:55	15.50	100	7.26	462	6.76	-84	1.52	0.0
3	11:58	15.85	100	7.25	466	6.7	-80	1.44	0.0
4						6.77			
5						AJW 01/22/25			
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
1	Rad (P,2.5L, HNO3)

(4)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
1	General (P,1000mL)
AJW 01/22/25	TOC (A,V 40mL, H2SO4)

Final DTW: 19.38 ft

Comments

Sampler's Signature: AJW

Duck Creek

WELL/SAMPLE POINT **G51L**

Purge Method: **Dedicated Peristaltic Tubing**

Date: **01/09/2025** Start Time: **1158** Finish/Sample Time: **1242**

Well Depth (Bottom) From MP: **20.21** ft

Min. Purge Volume: **1000** mL

Depth to Water From MP: **13.56** ft

Total Purge Volume: **1600** mL

Water Column Length: **6.65** ft

Well Water Volume: **4.03** L

Total Drawdown: **2.76** 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	1218	15.12	150	7.46	855	13.75	170	5.81	1.0
2	1220	15.27	150	7.23	863	13.22	173	5.02	0.0
3	1223	15.44	150	7.19	878	13.18	178	4.95	0.0
4	1225	15.62	150	7.14	890	13.15	180	4.90	0.0
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1+	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1+	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

3 + 3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1+	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: **16.32** ft

Comments **Field dup collected Here**

Sampler's Signature: **Bohannon**

AR

Duck Creek

WELL/SAMPLE POINT **G51S**

Purge Method: **Dedicated Bladder**

Date: **01/22/25** Start Time: **10:42** Finish/Sample Time: **11:30**

Well Depth (Bottom) From MP: **32.17** ft Min. Purge Volume: **1000** mL

Depth to Water From MP: **13.82** ft Total Purge Volume: **11000** mL

Water Column Length: **18.35** ft

Well Water Volume: **11.11** L Total Drawdown: **11.81** 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	10:52	15.64	200	7.08	530	5.01	-144	1.27	0.0
2	10:55	17.03	200	7.07	534	5.02	-137	1.19	0.0
3	10:58	17.85	200	7.07	537	5.03	-131	1.12	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1 + 1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P,500mL)
1 + 1	General (P,1000mL)
1 + 1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1 + 1	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: **23.63** ft

Comments **Field dup**

Sampler's Signature: **[Signature]**

AA

Duck Creek

WELL/SAMPLE POINT **G52L**

Purge Method: Dedicated Bladder

Date: 01/22/25 Start Time: 10:00 Finish/Sample Time: 10:30

Well Depth (Bottom) From MP: 37.11 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 26.45 ft Total Purge Volume: 1600 mL

Water Column Length: 10.66 ft

Well Water Volume: 6.46 L Total Drawdown: 5.88 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	10:10	29.22	200	6.55	1150	10.21	-19	1.02	0.0
2	10:13	30.08	200	6.54	1140	10.20	-11	0.97	0.0
3	10:16	30.90	200	6.53	1150	10.20	-6	1.01	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

01/22/25 Qty

(3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 32.33 ft

Comments

Sampler's Signature: *Andy Winters*

Duck Creek

WELL/SAMPLE POINT **G52S**

Purge Method: **Dedicated Peristaltic Tubing**

Date: 1/9/2025 Start Time: 1303 Finish/Sample Time: 1350

Well Depth (Bottom) From MP: 47.31 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 30.51 ft

Total Purge Volume: 1450 mL

Water Column Length: 16.80 ft

Well Water Volume: 10.17 L

Total Drawdown: 0.14 ~~30.6~~ ft

1/9 1PB

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	30.58	150	7.40	1300	9.87	214	6.83	18.4
2	1322	30.60	150	7.36	1270	9.80	218	6.72	18.0
3	1324	30.63	150	7.35	1260	9.78	220	6.70	17.8
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P,2.5L, HNO3)

(3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 30.65 ft

Comments

Sampler's Signature: Bohannon

Duck Creek

WELL/SAMPLE POINT G53L

Purge Method: Dedicated Bladder

Date: 01/16/25 Start Time: 15:34 Finish/Sample Time: 16:08

Well Depth (Bottom) From MP: 29.78 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 10.15 ft 14.77 Total Purge Volume: 1300 mL

Water Column Length: 13.63 ft 15.01

Well Water Volume: 8.25 L 9.09 Total Drawdown: 1.85 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	15:45	15.86	100	6.60	847	11.40	-35	3.63	57.5
2	15:48	16.11	100	6.59	863	11.41	-31	3.37	54.3
3	15:51	16.23	100	6.58	865	11.42	-23	3.24	50.7
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 16.86 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **G53S**

Purge Method: Dedicated Bladder

Date: 01/16/25 Start Time: 14:58 Finish/Sample Time: 15:32

Well Depth (Bottom) From MP: 38.44 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 16.15 ft

Total Purge Volume: 1300 mL

Water Column Length: 22.29 ft

Well Water Volume: 13.50 L

Total Drawdown: 0.85 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	15:08	16.72	100	6.79	654	11.86	0	1.90	>1000
2	15:11	16.89	100	6.78	661	11.87	-42	1.81	714
3	15:14	16.81	100	6.77	670	11.88	-48	1.66	678
4	15:17	16.90	100	6.76	671	11.88	-55	1.59	634
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L HNO3)

③

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 17.00 ft

Comments

Sampler's Signature: *Andy H. H. H.*

Duck Creek

WELL/SAMPLE POINT **G54L**

Purge Method: **Dedicated Peristaltic Tubing**

Date: **01/30/2025** Start Time: **0955** Finish/Sample Time: **1203**

Well Depth (Bottom) From MP: **40.15** ft **1100** Min. Purge Volume: **1000** mL

Depth to Water From MP: **28.15** ft Total Purge Volume: **1900** mL

Water Column Length: **12** ft

Well Water Volume: **7.87** L Total Drawdown: **1.20** 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	1121	28.43	100	6.52	1180	9.55	-73	3.00	0.0
2	1124	28.57	100	6.54	1180	9.58	-73	2.98	0.0
3	1127	28.64	100	6.56	1190	9.61	-73	2.95	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: **Horiba**

Check pH if reading is below 6.5

Secondary pH Meter: _____

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

(4)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: **29.35** ft

Comments

Sampler's Signature: **Bohannon**

Duck Creek

WELL/SAMPLE POINT **G54S**

Purge Method:

Dedicated Bladder

Date: 01/20/2025 Start Time: 10:31 10:02 Finish/Sample Time: 11:00 10:45
Well Depth (Bottom) From MP: 51.26 ft 11:00 9:15 ASW
Depth to Water From MP: 29.12 ft 28.92 29.41 Min. Purge Volume: 1000 mL
Water Column Length: 22.14 ft 22.34 21.85 Total Purge Volume: 1600 mL
Well Water Volume: 13.41 L 13.53 13.23 Total Drawdown: 8.61 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	10:10	31.76	200	6.80	1020	11.22	-106	1.85	165
2	10:13	32.93	200	6.81	1020	11.23	-112	1.70	158
3	10:16	33.86	200	6.81	1010	11.24	-120	1.64	150
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter:

Horiba

Check pH if reading is below 6.5

Secondary pH Meter:

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	Y	

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 38.02 ft

Comments Line is frozen, unable to sample. 01/22/25

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT G55L

Purge Method: Dedicated Bladder

Date: 01/16/25 Start Time: 14:14 Finish/Sample Time: 14:55

Well Depth (Bottom) From MP: 36.60 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 25.32 ft Total Purge Volume: 1300 mL

Water Column Length: 11.28 ft

Well Water Volume: 6.83 L Total Drawdown: 5.04 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	14:21	27.19	100	6.62	807	12.26	-19	2.01	0.0
2	14:24	28.02	100	6.61	824	12.27	-11	2.15	0.0
3	14:27	28.82	100	6.60	826	12.28	-2	1.96	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1 + 1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1 + 1	General (P,500mL)
	General (P,1000mL)
	Rad (P,2.5L, HNO3)

6

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1 + 1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 30.36 ft

Comments Field dup

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **G55S**

Purge Method: **Dedicated Bladder**

Date: **01/16/25** Start Time: **13:37** Finish/Sample Time: **14:12**

Well Depth (Bottom) From MP: **46.00** ft Min. Purge Volume: **1000** mL

Depth to Water From MP: **25.19** ft Total Purge Volume: **1300** mL

Water Column Length: **20.81** ft

Well Water Volume: **12.60** L Total Drawdown: **3.24** 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	13:55	26.95	100	6.79	613	11.52	-25	2.22	312
2	13:58	27.31	100	6.78	616	11.53	-21	2.36	295
3	14:01	27.66	100	6.77	615	11.54	-19	2.29	278
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

3

Final DTW: **28.43** ft

Comments

Sampler's Signature: *[Signature]*

Duck Creek

WELL/SAMPLE POINT **G56L**

Purge Method: **Dedicated Peristaltic Tubing**

Date: **1/14/25** Start Time: **1500** Finish/Sample Time: **1530**

Well Depth (Bottom) From MP: **25.43** ft

Min. Purge Volume: **1000** mL

Depth to Water From MP: **23.80** ft

Total Purge Volume: **1600** mL

Water Column Length: **1.63** ft

Well Water Volume: **0.99** L

Total Drawdown: **1.09** 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	1510	24.18	200	6.45	856	10.19	267	0.00	55.7
2	1512	24.37	200	6.41	861	10.23	265	0.00	56.2
3	1514	24.52	200	6.43	864	10.25	261	0.00	56.3
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: **24.89** ft

Comments

Sampler's Signature: **J Bohannon**

Duck Creek

WELL/SAMPLE POINT **G56S**

Purge Method: **Dedicated Bladder**

Date: **01/08/24**²⁵ Start Time: **13:40** Finish/Sample Time: **14:20**

Well Depth (Bottom) From MP: **41.10** ft Min. Purge Volume: **1000** mL

Depth to Water From MP: **24.01** ft Total Purge Volume: **1600** mL

Water Column Length: **17.09** ft

Well Water Volume: **10.35** L Total Drawdown: **3.38** 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	13:52	25.81	200	6.70	627	9.77	-50	2.20	599
2	13:55	26.45	200	6.71	625	9.76	-60	2.02	592
3	13:58	26.72	200	6.71	624	9.75	-66	1.95	588
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P,2.5L, HNO3)

③

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: **27.39** ft

Comments

Sampler's Signature: *Lily H. Hester*

Duck Creek

WELL/SAMPLE POINT **G57L**

Purge Method: **Dedicated Peristaltic Tubing**

Date: 01/08/25 Start Time: 13:00 Finish/Sample Time: 13:30
01/30/2025 1330 1445
Well Depth (Bottom) From MP: 29.26 ft Min. Purge Volume: 1000 mL
Depth to Water From MP: 25.76 ft 25.83 Total Purge Volume: 1900 mL
Water Column Length: 3.50 ft 3.43
Well Water Volume: 2.12 L 2.08 Total Drawdown: 0.71 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	1435	25.87	100	6.79	761	12.30	1	4.21	0.0
2	1428	25.93	100	6.81	765	12.25	1	4.18	0.0
3	1431	26.07	100	6.85	768	12.23	2	4.15	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter:

Hanba

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

(3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 26.54 ft

Comments

Could not sample, no water will come out.
sampled 1/20/25

APP 2/12/25

Sampler's Signature:

Amy Winters Bohannon

APP

Duck Creek

WELL/SAMPLE POINT **G57S**

Purge Method: **Dedicated Bladder**

Date: **01/22/25** Start Time: **13:40** Finish/Sample Time: **14:50**

Well Depth (Bottom) From MP: **37.40** ft Min. Purge Volume: **1000** mL

Depth to Water From MP: **26.23** ft Total Purge Volume: **1300** mL

Water Column Length: **11.17** ft

Well Water Volume: **6.76** L Total Drawdown: **0.29** ft

ASW 01/22/25

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)
13:56	13:56	26.85	100	7.02	965	9.88	94	2.66	0.0
13:59	14:02	26.85	100	7.01	949	9.87	90	2.44	0.0
3	14:02	26.85	100	7.01	954	9.86	87	2.31	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: **Horiba**

Check pH if reading is below 6.5 or above 7.5

Secondary pH Meter: _____

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: **26.52** ft

Comments

Sampler's Signature: _____

Duck Creek

WELL/SAMPLE POINT **G58L**

Purge Method: **Dedicated Peristaltic Tubing**

Date: **01/14/25** Start Time: **1319** Finish/Sample Time: **1418**

Well Depth (Bottom) From MP: **33.80** ft

Min. Purge Volume: **1000** mL

Depth to Water From MP: **30.00** ft

Total Purge Volume: **1900** mL

Water Column Length: **3.80** ft

Well Water Volume: **2.30** L

Total Drawdown: **0.94** 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	1352	30.13	150	6.40	702	9.29	235	0.00	19.8
2	1354	30.27	150	6.36	702	9.30	237	0.00	21.2
3	1356	30.41	150	6.32	700	9.32	239	0.00	21.4
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

③

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: **30.94** ft

Comments

Sampler's Signature: **J Bohannon**

Duck Creek

WELL/SAMPLE POINT G58S

Purge Method: Dedicated Bladder

Date: 01/08/25 Start Time: 12:05 Finish/Sample Time: 12:50

Well Depth (Bottom) From MP: 39.45 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 29.35 ft Total Purge Volume: 1300 mL

Water Column Length: 10.10 ft

Well Water Volume: 16.12 L Total Drawdown: 0.96 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	12:20	29.96	100	6.72	667	8.58	95	2.84	0.0
2	12:23	30.05	100	6.71	662	8.57	103	2.62	0.0
3	12:26	30.09	100	6.70	657	8.56	113	2.57	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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:

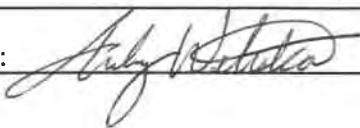
Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

(3)

Final DTW: 30.31 ft

Comments

Sampler's Signature: 

Duck Creek

WELL/SAMPLE POINT G59L

Purge Method: Dedicated Peristaltic Tubing

Date: 01/28/25 ^{1/28/25} Start Time: 13:05 ^{10:00 1/28} Finish/Sample Time: 15:10 ^{10:15 1/28}
Well Depth (Bottom) From MP: 35.32 ft Min. Purge Volume: 1000 mL
Depth to Water From MP: 31.75 ft ^{32.80 1/28} Total Purge Volume: 1300 mL
Water Column Length: 3.57 ft
Well Water Volume: 2.16 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	14:04	32.33	100	6.55	654	11.28	147	4.44	0.0
2	14:07	32.37	100	6.56	653	11.27	149	4.55	0.0
3	14:10	32.42	100	6.57	653	11.28	149	4.47	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1 + 1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1 + 1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1 + 1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 32.89 ft 33.10

Comments

Field dup. Could only fill the unfiltered bottles for dup. Water is barely purging and filter keeps popping off line due to too much air build up.

01/28/25

Sampler's Signature: [Signature]

Bottles Filled:

1 Metals (P,250mL, HNO3) Unfiltered

1 General (P,500mL) Unfiltered

Filtered Bottles

2:11:00 on 1/29/25

[Signature]

Duck Creek

WELL/SAMPLE POINT **G59S**

Purge Method: **Dedicated Bladder**

Date: **01/08/25** Start Time: **11:26** Finish/Sample Time: **12:00**

Well Depth (Bottom) From MP: **45.20** ft Min. Purge Volume: **1000** mL

Depth to Water From MP: **34.61** ft Total Purge Volume: **1300** mL

Water Column Length: **10.59** ft

Well Water Volume: **6.41** L Total Drawdown: **0.47** 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	11:40	35.08	100	6.76	663	10.30	-81	0.96	0.0
2	11:43	35.08	100	6.75	659	10.31	-83	0.89	0.0
3	11:46	35.08	100	6.74	655	10.32	-85	0.82	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: **35.08** ft

Comments

Sampler's Signature: *[Signature]*

Duck Creek

WELL/SAMPLE POINT G60L

Purge Method: Dedicated Bladder

Date: 01/28/25 Start Time: 12:31 Finish/Sample Time: 13:23
01/30/25 ASW 12:20

Well Depth (Bottom) From MP: 27.00 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 18.59 ft 19.02 Total Purge Volume: 1300 mL

Water Column Length: 7.98 ft

Well Water Volume: 4.83 L Total Drawdown: 5.08 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	12:32	20.61	100	6.20	938	10.38	106	1.55	71000
21.20 DEPTH	12:35	22.20	100	6.19	935	10.39	110	1.48	984
3	12:38	21.60	100	6.18	932	10.40	111	1.39	897
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 24.10 ft

Comments Could not sample. 01/28/25 - Field blank filled here - 01/30/25

Sampler's Signature: [Signature]

App

Duck Creek

WELL/SAMPLE POINT **G60S**

Purge Method: Dedicated Bladder

Date: 01/28/25 Start Time: 12:51 10:59 Finish/Sample Time: 12:15
01/30/25 ASW 01/30/25 ASW 01/28/25

Well Depth (Bottom) From MP: 39.20 ft Min. Purge Volume: 1000 mL
ASW 01/30/25

Depth to Water From MP: 26.40 18.59 ft 25.71 ASW 01/28/25 Total Purge Volume: 1300 mL

Water Column Length: 12.80 ft

Well Water Volume: 7.75 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	11:20	26.38	100	6.66	1030	10.70	-59	0.82	>1000
2	11:23	26.38	100	6.67	1030	10.69	-61	0.80	>1000
3	11:26	26.38	100	6.68	1030	10.68	-62	0.91	>1000
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Horioba

Check pH if reading is below 6.5 or above 7.5

Secondary pH Meter: _____

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 26.38 ft

Comments Could not sample 01/28/25 sampled 01/30/25

Sampler's Signature: _____

[Signature]

[Signature]

Duck Creek

WELL/SAMPLE POINT **G61S**

Purge Method: **Dedicated Bladder**

Date: **01/15/25** Start Time: **12:49** Finish/Sample Time: **14:02**

Well Depth (Bottom) From MP: **37.85** ft

Min. Purge Volume: **1000** mL

Depth to Water From MP: **26.13** ft

Total Purge Volume: **1300** mL

Water Column Length: **11.72** ft

Well Water Volume: **7.10** L

Total Drawdown: **4.95** ft **APP 1/17/25**

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	13:04	27.98	100	6.49	928	7.57	162	2.72	84.6
2	13:07	28.34	100	6.48	926	7.58	163	2.85	91.7
3	13:10	28.72	100	6.47	926	7.59	164	2.69	87.6
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
1	Rad (P,2.5L, HNO3)

(4)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: **31.08** ft

Comments

Sampler's Signature: **[Signature]**

Duck Creek

WELL/SAMPLE POINT G62L

Purge Method: Dedicated Peristaltic Tubing

Date: 01/15/25 Start Time: 12:12 ^{ASW 01/16/25} Finish/Sample Time: 12:34 ^{ASW 01/16/25}
Well Depth (Bottom) From MP: 33.52 ft Min. Purge Volume: 1000 mL
Depth to Water From MP: 25.72 ft 25.43 Total Purge Volume: 1900 mL
Water Column Length: 7.80 ft 8.09
Well Water Volume: 4.72 L 4.90 Total Drawdown: 1.85 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	1281	26.07	100	6.47	942	12.93	-36	1.24	0.00
2	1224	26.44	100	6.42	938	12.97	-37	1.23	0.00
3	1227	26.72	100	6.45	935	12.99	-36	1.23	0.00
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 27.28 ft

Comments: Water will not purge; line isn't frozen 01/15/25

Water will not purge; line isn't frozen 01/16/25

01/27 Tubing Replaced

Sampler's Signature: [Signature]

APP

Duck Creek

WELL/SAMPLE POINT G63L

Purge Method: Dedicated Peristaltic Tubing

Date: 01/09/25 Start Time: 13:45 Finish/Sample Time: 14:30

Well Depth (Bottom) From MP: 31.00 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: ~~28.85~~ 25.85 ft Total Purge Volume: 1300 mL
ASW 01/09/25

Water Column Length: 5.15 ft

Well Water Volume: 3.12 L Total Drawdown: 0.85 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	13:57	26.25	100	6.57	1180	10.87	-49	1.76	29.1
2	14:00	26.35	100	6.56	1150	10.88	-39	1.61	27.4
3	14:03	26.45	100	6.56	1120	10.89	-30	1.48	25.1
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1 + 1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1 + 1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1 + 1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 26.70 ft

Comments Field dup

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **G63S**

Purge Method: **Dedicated Bladder**

Date: 01/08/25 Start Time: 14:25 Finish/Sample Time: 15:10

Well Depth (Bottom) From MP: 42.45 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 26.53 ft Total Purge Volume: 1300 mL

Water Column Length: 15.92 ft

Well Water Volume: ASW 01/08/25 16.07 L 9.64 Total Drawdown: 2.47 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	14:37	27.98	100	6.97	640	9.58	14	4.29	12.6
2	14:40	28.10	100	6.98	633	9.57	24	3.91	10.2
3	14:43	28.25	100	6.99	628	9.54	30	3.54	9.7
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

(3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 29.00 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **G64L**

Purge Method: **Dedicated Peristaltic Tubing**

Date: 01/15/25 Start Time: 11:09 Finish/Sample Time: 12:10

Well Depth (Bottom) From MP: 30.25 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 24.69 ft Total Purge Volume: 1450 mL

Water Column Length: 5.56 ft

Well Water Volume: 3.37 L Total Drawdown: 0.81 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	11:27	25.01	150	6.77	680	7.84	142	3.51	43.1
2	11:30	25.05	150	6.78	680	7.85	141	3.20	40.79
3	11:33	25.05	150	6.79	687	7.85	141	3.00	40.7
4									
5									38.4
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Horioba

Check pH if reading is below 6.5 or above 7.5

Secondary pH Meter: —

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
1	Rad (P, 2.5L, HNO3)

(4)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 25.50 ft

Comments

Sampler's Signature: Andy W. [Signature]

Duck Creek

WELL/SAMPLE POINT **G64S**

Purge Method: **Dedicated Bladder**

Date: **01/09/25** Start Time: **14:48** Finish/Sample Time: **15:56**

Well Depth (Bottom) From MP: **39.50** ft Min. Purge Volume: **1000** mL

Depth to Water From MP: **25.63** ft Total Purge Volume: **1300** mL

Water Column Length: **13.87** ft

Well Water Volume: **8.40** L Total Drawdown: **0.57** 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	15:00	26.20	100	6.82	534	8.62	-76	3.31	0.0
2	15:03	26.20	100	6.81	535	8.63	-72	3.02	0.0
3	15:06	26.20	100	6.80	535	8.64	-71	2.83	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: **Horiba**

Check pH if reading is below 6.5 or above 7.5

Secondary pH Meter: _____

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	

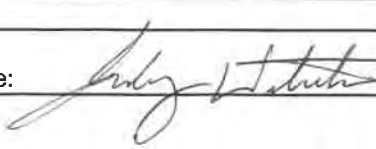
BOTTLE INFORMATION:

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: **26.20** ft

Comments

Sampler's Signature: 

Duck Creek

WELL/SAMPLE POINT G65L

Purge Method: Dedicated Peristaltic Tubing

Date: 1/8/2025 Start Time: 1318 Finish/Sample Time: 1323

Well Depth (Bottom) From MP: 25.20 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 23.49 ft Total Purge Volume: 0 mL

Water Column Length: 1.71 ft

Well Water Volume: 1.03 L Total Drawdown: 0 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									
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 23.49 ft

Comments

Well too dry to sample

Sampler's Signature: J Bohannon

APP

Duck Creek

WELL/SAMPLE POINT **G65S**

Purge Method: **Dedicated Bladder**

Date: **1/14/2025** Start Time: **1215** Finish/Sample Time: **1251**

Well Depth (Bottom) From MP: **35.10** ft
Depth to Water From MP: **23.67** ft
Water Column Length: **11.23** ft
Well Water Volume: **6.80** L
Min. Purge Volume: **1000** mL
Total Purge Volume: **1900** mL
Total Drawdown: **3.63** 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	1235	26.57	150	6.44	1330	9.66	280	0.00	67.5
2	1237	26.62	150	6.45	1300	9.69	217	0.00	68.5
3	1239	26.67	150	6.43	1290	9.68	217	0.00	7.9
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: **27.50** ft

Comments

Sampler's Signature: **Bohannon**

Duck Creek

WELL/SAMPLE POINT **G66L**

Purge Method: **Dedicated Peristaltic Tubing**

Date: **01/16/25** Start Time: **11:50** Finish/Sample Time: **12:27**

Well Depth (Bottom) From MP: **22.83** ft Min. Purge Volume: **1000** mL

Depth to Water From MP: **20.57** ft Total Purge Volume: **1300** mL

Water Column Length: **2.26** ft

Well Water Volume: **1.37** L Total Drawdown: **0.91** 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	12:07	21.00	100	6.46	2490	12.48	175	1.52	0.0
2	12:10	21.12	100	6.46	2490	12.49	171	1.44	0.0
3	12:13	21.20	100	6.46	2500	12.49	168	1.36	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

(3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: **21.48** ft

Comments

Sampler's Signature: *Ashley W. [Signature]*

Duck Creek

WELL/SAMPLE POINT

G66S

Purge Method:

Dedicated Bladder

Date: 01/16/25 Start Time: 12:30 Finish/Sample Time: 13:00

Well Depth (Bottom) From MP: 43.05 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 20.70 ft

Total Purge Volume: 1600 mL

Water Column Length: 22.35 ft

Well Water Volume: 13.54 L

Total Drawdown: 3.57 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	12:38	22.60	200	6.45	942	12.06	-73	1.69	171
2	12:41	23.18	200	6.44	939	12.07	-77	1.57	164
3	12:44	23.66	200	6.44	934	12.08	-76	1.46	151
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 24.27 ft

Comments

Sampler's Signature: *Kathy Heston*

Duck Creek

WELL/SAMPLE POINT **G67L**

Purge Method: Dedicated Peristaltic Tubing

Date: 11/15/25 ^{11/16/25} Start Time: 11:14 Finish/Sample Time: 11:40

Well Depth (Bottom) From MP: 20.09 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 17.81 ft

Total Purge Volume: 1450 mL

Water Column Length: 2.28 ft

Well Water Volume: 1.38 L

Total Drawdown: 0.91 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	11:20	18.16	150	6.53	1120	12.38	146	2.30	0.0
2	11:23	18.31	150	6.52	1130	12.39	147	2.17	0.0
3	11:24	18.45	150	6.53	1130	12.40	149	2.06	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

(3)

Final DTW: 18.73 ft

Comments

Sampler's Signature: Andy Witek

Duck Creek

WELL/SAMPLE POINT **G67S**

Purge Method: **Dedicated Bladder**

Date: 01/15/25 Start Time: 14:54 Finish/Sample Time: 15:12
01/16/25 10:35 11:12
Well Depth (Bottom) From MP: 39.50 ft AJW Min. Purge Volume: 1000 mL
Depth to Water From MP: 18.70 ft 18.45 Total Purge Volume: 1600 mL
Water Column Length: 20.80 ft 21.05
Well Water Volume: 12.60 L 12.75 Total Drawdown: 4.37 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	10:55	21.03	200	6.61	707	10.84	39	3.80	>1000
2	10:58	22.05	200	6.60	710	10.85	33	3.55	>1000
3	10:11:01	23.12	200	6.59	710	10.86	35	3.40	>1000
4	AJW 01/16/25								
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

AJW
01/16/25
(3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 25.42 ft

Comments Too cold outside to sample 01/15/25

Sampler's Signature: AJW

Duck Creek

WELL/SAMPLE POINT **G70L**

Purge Method: **Dedicated Bladder**

Date: **1/7/2025** Start Time: **1425** Finish/Sample Time: **1506**

Well Depth (Bottom) From MP: **33.05** ft

Min. Purge Volume: **1000** mL

Depth to Water From MP: **22.35** ft

Total Purge Volume: **1000** mL

Water Column Length: **10.70** ft

Well Water Volume: **6.47** L

Total Drawdown: **1.73** 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	1447	23.34	100	7.75	7180	11.98	185	1.64	1.8
2	1450	23.78	100	7.73	7170	11.99	189	1.54	3.8
3	1453	23.98	100	7.70	7150	12.03	194	1.51	4.9
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter:

Oakton/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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: **24.08** ft

Comments

Sampler's Signature: J Bohannon

Duck Creek

WELL/SAMPLE POINT **G71L**

Purge Method: **Dedicated Peristaltic Tubing**

Date: **1/8/2024** Start Time: **1021** Finish/Sample Time: **1105**

APR 1/10/25 2025

Well Depth (Bottom) From MP: **32.95** ft

Min. Purge Volume: **1000** mL

Depth to Water From MP: **28.41** ft

Total Purge Volume: **1450** mL

Water Column Length: **4.54** ft

Well Water Volume: **2.75** L

Total Drawdown: **1.37** 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	10:47	29.29	150	7.75	10900	7.66	246	2.95	63.8
2	10:50	29.37	150	7.72	10800	7.69	247	2.84	59.2
3	10:53	29.45	150	7.68	10800	7.72	250	2.81	67.8
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: **1/8 JB Oakton/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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: **29.78** ft

Comments

Sampler's Signature: **J Bohannon**

Duck Creek

WELL/SAMPLE POINT G71S

Purge Method: Dedicated Bladder

Date: 1/7/2025 Start Time: 1525 Finish/Sample Time: 1551

Well Depth (Bottom) From MP: 41.45 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 28.86 ft

Total Purge Volume: 1000 mL

Water Column Length: 12.59 ft

Well Water Volume: 7.62 L

Total Drawdown: 0.94 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	1535	29.80	100	8.05	1240	9.53	204	6.78	390
2	1538	29.80	100	8.07	1250	9.50	206	6.75	393
3	1541	29.80	100	8.10	1270	9.45	210	6.80	398
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Oakton 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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 29.80 ft

Comments

Sampler's Signature: J Bohannon

Duck Creek

WELL/SAMPLE POINT **G72L**

Purge Method: **Dedicated Peristaltic Tubing**

Date: 1/8/2025 Start Time: 1149 Finish/Sample Time: 1153

Well Depth (Bottom) From MP: 28.05 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 27.73 ft

Total Purge Volume: 0 mL

Water Column Length: 0.32 ft

Well Water Volume: 0.19 L

Total Drawdown: 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									
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 27.73 28. ft

Comments

Well too dry to sample

APP 2/12/25

Sampler's Signature: Bohannon

APP

Duck Creek

WELL/SAMPLE POINT **G73L**

Purge Method: **Dedicated Bladder**

APP 2/12/25

Date: **1/8/2025** Start Time: **12:28 0957** Finish/Sample Time: **12:40 1147**

Well Depth (Bottom) From MP: **37.70 ft** **1/8** **1/44** Min. Purge Volume: **1/8** **1000 mL** **1/14**

Depth to Water From MP: **29.95 ft** **30** **1100** Total Purge Volume: **1600 mL**

Water Column Length: **7.75 ft** **7.70**

Well Water Volume: **4.70 L** **4.66** Total Drawdown: **2.22 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	1120	30.80	200	6.91	1690	11.34	153	0.00	47.8
2	1123	31.84	200	6.83	1640	11.34	159	0.00	46.2
3	1125	31.88	200	6.75	1630	11.28	162	0.00	45.7
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: **32.17** ft

Comments Stopped on 1/8 due to compressor issues

Sampler's Signature: Bohannon

APP

Duck Creek

WELL/SAMPLE POINT L103

Purge Method: Bailer

Date: 29-Jan-25 Start Time: 1019 Finish/Sample Time: 1032

Depth to Water From MP: 1.25 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	1023	1.25	—	8.41	500	11.8	133	2.47	24.6

Field Meter: Floriba

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)

(3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT OM01

Purge Method: Dedicated Peristaltic Tubing

Date: 01/13 01/14/25 Start Time: 10:22
ASW 01/14/25

Finish/Sample Time: 10:58

Well Depth (Bottom) From MP: 27.62 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 13.35 ft

Total Purge Volume: 1600 mL

Water Column Length: 14.27 ft

Well Water Volume: 8.64 L

Total Drawdown: 5.06 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>10:26</u>	<u>15.20</u>	<u>200</u>	<u>6.43</u>	<u>2490</u>	<u>8.51</u>	<u>-14</u>	<u>3.71</u>	<u>237</u>
2	<u>10:39</u>	<u>16.05</u>	<u>200</u>	<u>6.42</u>	<u>2490</u>	<u>8.52</u>	<u>-11</u>	<u>3.37</u>	<u>231</u>
3	<u>10:42</u>	<u>16.72</u>	<u>200</u>	<u>6.42</u>	<u>2470</u>	<u>8.53</u>	<u>-9</u>	<u>3.19</u>	<u>209</u>
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
<u>1 + 1</u>	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1 + 1</u>	General (P,1000mL) <u>500mL</u>
	TOC (A,V 40mL, H2SO4)

Final DTW: 18.41 ft

Comments Field dup

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **OM04S**

Purge Method: **Dedicated Peristaltic Tubing**

Date: 01/14/25 Start Time: 12:25

App 2/12/25
Finish/Sample Time: 13:10

Well Depth (Bottom) From MP: 35.85 ft 13.35

Min. Purge Volume: 1000 mL

Depth to Water From MP: 21.35 ft 20.19

Total Purge Volume: 1900 mL

Water Column Length: 15.66 ft

Well Water Volume: 9.48 L

Total Drawdown: 8.21 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	1351	26.50	100	6.75	983	12.81	-85	1.75	0.0
2	1354	26.90	100	6.77	911	12.84	-79	1.78	0.0
3	1357	27.10	100	6.79	908	12.83	-75	1.82	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 1000 500 mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 28.40 ft

Comments Water will not purge; line is not frozen. 01/14/25

Sampler's Signature: Behanman

APP

Duck Creek

WELL/SAMPLE POINT **OM07**

Purge Method: **Dedicated Peristaltic Tubing**

Date: **1/29/2025** Start Time: **1132** Finish/Sample Time: **1150**

Well Depth (Bottom) From MP: **29.97** ft Min. Purge Volume: **1000** mL

Depth to Water From MP: **13.06** ft Total Purge Volume: **1600** mL

Water Column Length: **16.91** ft

Well Water Volume: **10.23** L Total Drawdown: **0.13** 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	1140	13.19	200	7.28	885	13.74	52	0.00	51.9
2	1142	13.19	200	7.20	883	13.73	45	0.00	52.4
3	1144	13.19	200	7.18	882	13.73	43	0.00	54.9
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

2

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,1000mL) 500mL
	TOC (A,V, 40mL, H2SO4)

Final DTW: **13.19** ft

Comments

Sampler's Signature: 

Duck Creek

WELL/SAMPLE POINT **OM12**

Purge Method: **Dedicated Peristaltic Tubing**

Date: **15-Jan-25** Start Time: **1145** Finish/Sample Time: **1253**

Well Depth (Bottom) From MP: **43.01** ft

Min. Purge Volume: **1000** mL

Depth to Water From MP: **18.05** ft

Total Purge Volume: **1800** mL

Water Column Length: **24.96** ft

Well Water Volume: **15.12** L

Total Drawdown: **0.9** 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	1234	18.90	100	6.85	1370	8.84	-45	4.19	10.9
2	1237	18.95	1	6.79	1380	8.93	-47	3.99	20.3
3	1240	18.95	1	6.71	1370	9.01	-50	3.81	17.4
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 1000 mL)
	Ammonia (P,250mL H2SO4)
	Rad (P, 2.5L, HNO3)

②

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 1000mL) 500
	TOC (A,V, 40mL, H2SO4)

Final DTW: **18.95** ft

Comments

Sampler's Signature: **[Signature]**

Duck Creek

WELL/SAMPLE POINT **OM12D**

Purge Method: **Dedicated Peristaltic Tubing**

Date: 15-Jan-25 Start Time: 10:22 Finish/Sample Time: 11:40

Well Depth (Bottom) From MP: 54.81 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 19.10 ft

Total Purge Volume: 1800 mL

Water Column Length: 35.71 ft

Well Water Volume: 21.63 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	1051	19.12	100	6.66	1470	10.16	-83	5.87	0.8
2	1054	19.15	↓	6.60	1490	10.16	-79	5.74	0.7
3	1057	19.15	↓	6.55	1480	10.12	-76	5.69	2.4
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 1000-mL) 500mL
	Ammonia (P,250mL H2SO4)
1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,1000mL) 500mL
	TOC (A,V, 40mL, H2SO4)

Final DTW: 19.15 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **OM15D**

Purge Method: **Portable Pump/Dedicated Tubing**

Date: 01/13/25 Start Time: 15:20 Finish/Sample Time: 1620

Well Depth (Bottom) From MP: 73.00 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 25.42 ft

Total Purge Volume: 1600 mL

Water Column Length: 47.58 ft

Well Water Volume: 28.81 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	15:32	25.79	200	6.99	941	7.89	-112	2.25	834
2	15:35	25.62	200	6.98	941	7.88	-106	2.12	812
3	15:38	25.62	200	6.97	933	7.87	-103	1.98	754
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
1 + 1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1 + 1	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
1 + 1	Rad (P, 2.5L, HNO3)

(10)

Filtered	
Qty	Bottles
1 + 1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1 + 1	General (P, 1000mL) <u>500mL</u>
	TOC (A,V, 40mL, H2SO4)

Final DTW: 26.02 ft

Comments Field dup

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **OM17D**

Purge Method: **Dedicated Peristaltic Tubing**

Date: 01/09/25 Start Time: 11:29 Finish/Sample Time: 12:10

Well Depth (Bottom) From MP: 43.27 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 17.73 ft Total Purge Volume: 1600 mL

Water Column Length: 25.54 ft

Well Water Volume: 15.47 L Total Drawdown: 0.08 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	11:40	17.91	200	6.53	1760	9.94	-85	2.81	155
2	11:43	17.91	200	6.52	1750	9.95	-83	2.58	141
3	11:46	17.91	200	6.51	1750	9.96	-81	2.35	130
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 1000mL) <u>500mL</u>
	TOC (A,V, 40mL, H2SO4)

(5)

Final DTW: 17.91 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT OM21

Purge Method: Dedicated Peristaltic Tubing

Date: 01/13/25 Start Time: 12:27 Finish/Sample Time: 13:03

Well Depth (Bottom) From MP: 60.49 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 12.70 ft Total Purge Volume: 1600 mL

Water Column Length: 47.79 ft

Well Water Volume: 28.94 L Total Drawdown: 0.15 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	12:46	12.81	200	6.77	2550	10.95	-69	1.66	0.0
2	12:49	12.81	200	6.76	2550	10.96	-68	1.57	0.0
3	12:50	12.85	200	6.75	2540	10.97	-67	1.48	0.0
4									
ATW 1/13/25	12:52								
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 1000 mL) <u>500mL</u>
	TOC (A,V, 40mL, H2SO4)

Final DTW: 12.85 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **OM22D**

Purge Method: Portable Pump/Dedicated Tubing

Date: 01/13/25 Start Time: 10:00 Finish/Sample Time: 10:41

Well Depth (Bottom) From MP: 65.17 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 20.16 ft Total Purge Volume: 1600 mL

Water Column Length: 45.01 ft

Well Water Volume: 27.26 L Total Drawdown: 0.05 ft
AJW 01/13/25

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	10:26	20.21	200	7.07	2500	6.902	-93	2.31	0.0
2	10:29	20.21	200	7.06	2500	9.03	-99	2.12	0.0
3	10:32	20.21	200	7.05	2500	9.04	-99	1.94	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,1000mL) <u>500mL</u>
	TOC (A,V, 40mL, H2SO4)

Final DTW: 20.21 ft

Comments: Control box doesn't work properly
Dedicated portable pump tubing was clogged AJW 01/13/25

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT OM23D

Purge Method: Portable Pump/Dedicated Tubing

Date: 01/13/25 Start Time: 14:33 Finish/Sample Time: 15:02

Well Depth (Bottom) From MP: 82.95 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 39.27 ft

Total Purge Volume: 11000 mL

Water Column Length: 43.68 ft

Well Water Volume: 26.45 L

Total Drawdown: 0.89 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	14:45	39.71	200	6.93	1160	8.13	-92	2.43	0.0
2	14:48	39.71	200	6.92	1150	8.12	-95	2.28	0.0
3	14:51	39.71	200	6.91	1160	8.12	-99	2.10	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,1000mL) <u>500mL</u>
	TOC (A,V, 40mL, H2SO4)

Final DTW: 40.12 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **OM24D**

Purge Method: **Dedicated Peristaltic Tubing**

Date: **01/13/25** Start Time: **10:50** Finish/Sample Time: **11:17**

Well Depth (Bottom) From MP: **20.14** ft Min. Purge Volume: **1000** mL

Depth to Water From MP: **4.35** ft Total Purge Volume: **11000** mL

Water Column Length: **15.79** ft

Well Water Volume: **9.56** 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	11:01	4.38	200	6.79	2280	10.50	-15	3.63	325
2	11:04	4.38	200	6.78	2300	10.51	-23	3.90	303 ³⁰³ _{ASU}
3	11:07	4.40	200	6.77	2340	10.52	-31	3.62	281
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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		☒

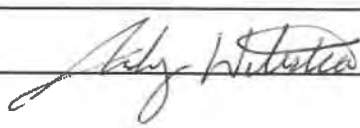
BOTTLE INFORMATION:

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 1000 mL)
	Ammonia (P,250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 1000mL) 500mL
	TOC (A,V, 40mL, H2SO4)

Final DTW: **4.40** ft

Comments

Sampler's Signature: 

Duck Creek

WELL/SAMPLE POINT **OM25S**

Purge Method: **Portable Pump/Dedicated Tubing**

Date: **01/13/25** Start Time: **11:33** Finish/Sample Time: **12:06**

Well Depth (Bottom) From MP: **64.03** ft Min. Purge Volume: **1000** mL

Depth to Water From MP: **58.42** ft Total Purge Volume: **1600** mL

Water Column Length: **5.61** ft

Well Water Volume: **3.40** L Total Drawdown: **1.04** 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	11:49	59.10	200	6.69	2440	9.97	27	5.78	269
2	11:52	59.22	200	6.69	2480	9.98	24	5.70	255
3	11:55	59.34	200	6.68	2500	9.99	23	5.71	240
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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		☒

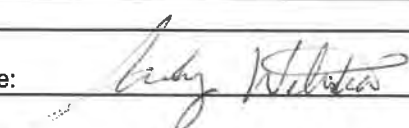
BOTTLE INFORMATION:

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 1000mL) 500 mL
	TOC (A,V, 40mL, H2SO4)

Final DTW: **59.46** ft

Comments

Sampler's Signature: 

Duck Creek

WELL/SAMPLE POINT OM100D

Purge Method: Dedicated Peristaltic Tubing

Date: 01/09/25 Start Time: 9:38 Finish/Sample Time: 10:32

Well Depth (Bottom) From MP: 56.30 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 15.00 ft

Total Purge Volume: 1450 mL

Water Column Length: 41.30 ft

Well Water Volume: 25.01 L

Total Drawdown: 0.0 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	9:53	15.00	150	6.64	1200	9.78	-128	3.42	82
2	9:56	15.00	150	6.63	1200	9.79	-123	3.70	76
3	9:59	15.00	150	6.62	1200	9.80	-119	4.01	70
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
1	Rad (P, 2.5L, HNO3)

(5)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 1000mL) 500mL
	TOC (A,V, 40mL, H2SO4)

Final DTW: 15.00 ft

Comments

Sampler's Signature: Andy Winters

Duck Creek

WELL/SAMPLE POINT

OM100S

Purge Method:

Dedicated Peristaltic Tubing

Date: 01/09/25

Start Time: 10:35
10:33 ASW 9/9/25

Finish/Sample Time: 11:20

Well Depth (Bottom) From MP: 28.03 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 15.16 ft

Total Purge Volume: 1450 mL

Water Column Length: 12.87 ft

Well Water Volume: 7.79 L

Total Drawdown: 0.56 ft

ASW 01/09/25

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	10:37	15.32	150	6.42	1430	9.66	-87	1.36	0.0
2	10:40	15.35	150	6.43	1420	9.67	-88	1.27	0.0
3	10:43	15.40	150	6.44	1420	9.68	-88	1.21	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
1	Rad (P, 2.5L, HNO3)

(5)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 1000mL) 500mL
	TOC (A,V, 40mL, H2SO4)

Final DTW: 15.72 ft

Comments

Sampler's Signature:

Andy Webster

Duck Creek

WELL/SAMPLE POINT **OM101D**

Purge Method: Dedicated Peristaltic Tubing

Date: 01/09/25 Start Time: 12:25 Finish/Sample Time: 13:15

Well Depth (Bottom) From MP: 36.34 ft
Depth to Water From MP: 20.50 ft
Water Column Length: 15.84 ft
Well Water Volume: 9.59 L

Min. Purge Volume: 1000 mL
Total Purge Volume: 1450 mL
Total Drawdown: 1.64 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	12:37	21.63	150	6.49	1700	10.82	-66	1.18	0.0
2	12:40	21.80	150	6.48	1700	10.83	-63	1.10	0.0
3	12:43	21.94	150	6.47	1700	10.84	-62	1.02	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 1000mL) <u>500mL</u>
	TOC (A,V, 40mL, H2SO4)

Final DTW: 22.14 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT

OM101S

Purge Method:

Dedicated Peristaltic Tubing

Date: 01/09/25

Start Time: 13:22

Finish/Sample Time: 13:25

Well Depth (Bottom) From MP: 19.97 ft

Depth to Water From MP: 19.55 ft

Water Column Length: 0.42 ft

Well Water Volume: 0.25 L

Min. Purge Volume: 1000 mL

Total Purge Volume: 0 mL

Total Drawdown: 0 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			150						
2			150						
3			150						
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 19.55 ft

Comments: Not enough water to sample.

Sampler's Signature:

Andy Winters

Duck Creek

WELL/SAMPLE POINT OR02

Purge Method: Dedicated Peristaltic Tubing

Date: 01/14/25 Start Time: 11:03 Finish/Sample Time: 11:30

Well Depth (Bottom) From MP: 22.52 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 16.63 ft Total Purge Volume: 1600 mL

Water Column Length: 15.89 ft

Well Water Volume: 9.62 L Total Drawdown: 0.09 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
11:14	10:14	6.68	200	6.69	1420	10.17	2	1.24	81.8
21:17	10:17	6.68	200	6.69	1440	10.18	-6	1.16	76.7
31:20	10:20	6.72	200	6.69	1450	10.19	-12	1.09	71.2
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

2

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 1000mL) <u>500mL</u>
	TOC (A, V, 40mL, H2SO4)

Final DTW: 6.72 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **OR03D**

Purge Method: **Portable Pump/Dedicated Tubing**

Date: **01/14/25** Start Time: **12:26** Finish/Sample Time: **12:57**
APP 1/29/25

Well Depth (Bottom) From MP: **77.75** ft
Depth to Water From MP: **45.59**³² ft
Water Column Length: **32.43** ft
Well Water Volume: **14.61** L
Min. Purge Volume: **1000** mL
Total Purge Volume: **1600** mL
Total Drawdown: **0.14** 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	12:45	45.46	200	6.86	2320	12.90	65	0.68	26.2
2	12:47	45.46	200	6.81	2320	12.89	59	0.65	27.1
3	12:49	45.46	200	6.80	2320	12.84	56	0.62	26.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 1000 mL)
	Ammonia (P,250 mL, H2SO4)
	Rad (P, 2.5L, HNO3)

(2)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,1000mL) <u>500mL</u>
	TOC (A,V, 40mL, H2SO4)

Final DTW: **45.46** ft

Comments Portable pump line Frozen

APP 1/29/25
Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **OR04D**

Purge Method: Portable Pump/Dedicated Tubing

Date: 01/13/25 Start Time: 13:18 Finish/Sample Time: 13:50

Well Depth (Bottom) From MP: 68.07 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 22.08 ft Total Purge Volume: 1600 mL

Water Column Length: 45.99 ft

Well Water Volume: 27.85 L 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	13:30	22.12	200	6.88	2420	10.33	-79	1.33	0.0
2	13:33	22.12	200	6.87	2490	10.34	-80	1.26	0.0
3	13:34	22.12	200	6.86	2560	10.35	-73	1.16	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,1000mL) 500mL
	TOC (A,V, 40mL, H2SO4)

Final DTW: 22.12 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT

OR06A

Purge Method:

Dedicated Peristaltic Tubing

Date: 01/14/25 Start Time: 13:20 Finish/Sample Time: 14:30 1220

Well Depth (Bottom) From MP: 26.05 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 14.50 ft 14.11 Total Purge Volume: 1600 mL

Water Column Length: 11.94 ft

Well Water Volume: 7.22 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	1210	14.12	200	6.87	2670	14.38	-5	0.23	63.4
2	1212	14.12	200	6.85	2640	14.35	-4	0.19	64.1
3	1214	14.12	200	6.84	2620	14.35	-4	0.14	68.5
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 1000 mL)
	Ammonia (P, 250 mL, H2SO4)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,1000mL) <u>500mL</u>
	TOC (A,V, 40mL, H2SO4)

Final DTW: 14.12 ft

Comments water will not purge; line is not frozen 01/14/25

sampled 1/29/25 APP

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **OR11**

Purge Method: **Dedicated Peristaltic Tubing**

Date: **13-Jan-25** Start Time: **1346** Finish/Sample Time: **1445**

Well Depth (Bottom) From MP: **40.57** ft
Depth to Water From MP: **31.89** ft
Water Column Length: **8.68** ft
Well Water Volume: **5.26** L
Min. Purge Volume: **1000** mL
Total Purge Volume: **2100** mL
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	1407	31.89	100	7.84	1246	7.93	292	7.89	1.0
2	1410	↓	↓	7.80	1157	8.00	287	6.62	78.3
3	1413	↓	↓	7.65	1229	8.30	283	5.56	39.9
4	1416	↓	↓	7.77	1236	8.28	282	5.38	31.6
5	1419	↓	↓	7.67	1243	8.24	282	5.26	23.9
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter:

Horiba / Oakton

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

(2)
(2)
FD

Filtered	
Qty	Bottles
1+1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1+1	General (P,1000mL) 500mL
	TOC (A,V, 40mL, H2SO4)

Final DTW: **31.89** ft

Comments Field dupe taken here

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT OR13D

Purge Method: Dedicated Peristaltic Tubing

Date: 13-Jun-25 Start Time: 1223 Finish/Sample Time: 1304

Well Depth (Bottom) From MP: 50.17 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 14.30 ft

Total Purge Volume: 1800 mL

Water Column Length: 35.87 ft

Well Water Volume: 21.72 L

Total Drawdown: 0.14 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	1246	14.44	100	7.87	1095	11.14	121	0.61	9.8
2	1249	1	1	7.78	1652	11.06	123	0.41	6.0
3	1252	1	1	7.75	1647	11.04	129	0.64	15.4
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Horiba/laekton

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 1000mL) <u>500mL</u>
	TOC (A,V, 40mL, H2SO4)

Final DTW: 14.44 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT

OR13S

Purge Method:

Dedicated Peristaltic Tubing

Date:

13-Jan-25^{Am-25} Start Time: 1143

Finish/Sample Time:

1221

Well Depth (Bottom) From MP: 29.53 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 13.94 ft

Total Purge Volume: 1800 mL

Water Column Length: 15.59 ft

Well Water Volume: 9.44 L

Total Drawdown: 0.86 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	1202	14.00	100	7.38	2010	10.47	205	2.10	1.1
2	1205	1	1	7.34	1971	10.56	203	1.75	1.6
3	1207	1	1	7.41	1963	10.65	201	1.68	3.0
4	1210	1	1	7.35	1962	10.65	199	1.53	3.2
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter:

Horiba/Orion

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 1000mL) 500mL
	TOC (A,V, 40mL, H2SO4)

Final DTW:

14.0

ft

Comments

Sampler's Signature:

Quinn M

Duck Creek

WELL/SAMPLE POINT **OR14D**

Purge Method: **Dedicated Peristaltic Tubing**

Date: **13-Jan-28** Start Time: **1015** Finish/Sample Time: **1110**

Well Depth (Bottom) From MP: **48.73** ft Min. Purge Volume: **1000** mL
Depth to Water From MP: **11.09** ft Total Purge Volume: **1800** mL
Water Column Length: **37.73** ft
Well Water Volume: **22.85** L Total Drawdown: **0.09** 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	1053	11.09	100	7.18	1273	7.05	186	1.61	0.5
2	1056	11.09	1	7.09	2030	7.06	177	1.45	0.0
3	1059	11.09	1	7.13	2125	7.01	181	1.36	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: **Horiba/Dakton**

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

②

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,1000mL) 500 mL
	TOC (A,V, 40mL, H2SO4)

Final DTW: **11.09** ft

Comments

Sampler's Signature: **[Signature]**

Duck Creek

WELL/SAMPLE POINT OR19

Purge Method: Dedicated Peristaltic Tubing

Date: 1/29/25 Start Time: 1108 Finish/Sample Time: 1126

Well Depth (Bottom) From MP: 54.92 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 23.85 ft Total Purge Volume: 1600 mL

Water Column Length: 31.07 ft

Well Water Volume: 18.79 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	1117	23.40	200	7.23	1820	12.70	-11	0.00	32.5
2	1119	23.90	200	7.18	1820	12.73	-11	0.00	27.2
3	1121	23.90	200	7.14	1830	12.73	-11	0.00	30.2
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,1000mL) <u>500mL</u>
	TOC (A,V, 40mL, H2SO4)

Final DTW: 23.90 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT OR20

Purge Method: Dedicated Peristaltic Tubing

Date: 1/20/25 Start Time: 1041 Finish/Sample Time: 1058

Well Depth (Bottom) From MP: 57.34 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 22.00 ft Total Purge Volume: 1600 mL

Water Column Length: 35.34 ft

Well Water Volume: 21.37 L 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	1050	22.04	200	7.91	1760	11.88	-41	2.04	62.6
2	1052	22.04	200	7.89	1740	11.89	-42	2.00	60.2
3	1054	22.04	200	7.85	1730	11.88	-43	1.98	59.4
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

②

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
+ 1	General (P, 1000mL) <u>500mL</u>
	TOC (A,V, 40mL, H2SO4)

APP
1/29/25

Final DTW: 22.04 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **P36L**

Purge Method: **Dedicated Bladder**

Date: **01/15/25** Start Time: **9:58** Finish/Sample Time: **10:50**

Well Depth (Bottom) From MP: **18.10** ft Min. Purge Volume: **1000** mL

Depth to Water From MP: **10.95** ft Total Purge Volume: **1300** mL

Water Column Length: **7.15** ft

Well Water Volume: **4.33** L Total Drawdown: **0.25** 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	10:16	11.15	100	7.23	424	9.30	126	7.41	>1000
2	10:19	11.15	100	7.22	422	9.29	133	7.16	>1000
3	10:22	11.18	100	7.21	418	9.28	141	6.53	>1000
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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:

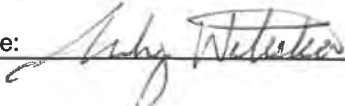
Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

③

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: **11.20** ft

Comments

Sampler's Signature: 

Duck Creek

WELL/SAMPLE POINT **P37L**

Purge Method: **Dedicated Bladder**

Date: **01/15/25** Start Time: **10:52** Finish/Sample Time: **11:02**

Well Depth (Bottom) From MP: **20.40** ft

Min. Purge Volume: **1000** mL

Depth to Water From MP: **19.15** ft

Total Purge Volume: **0** mL

Water Column Length: **1.25** ft

Well Water Volume: **0.76** L

Total Drawdown: **0** ft **App 1/17/25**

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			100						
2			100						
3			100						
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: **19.15** ft.

Comments **Well is too dry to sample.**

Sampler's Signature: **[Signature]**

Duck Creek

WELL/SAMPLE POINT P60

Purge Method: Dedicated Peristaltic Tubing

Date: 01/28/25 Start Time: 9:27 Finish/Sample Time: 12:08

Well Depth (Bottom) From MP: 37.37 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 28.88 ft

Total Purge Volume: 1300 mL

Water Column Length: 8.49 ft

Well Water Volume: 5.14 L

Total Drawdown: 5.34 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	9:45	30.39	100	6.47	695	10.57	10	5.50	0.0
2	9:48	30.81	100	6.47	704	10.58	1	5.45	0.0
3	9:51	31.30	100	6.49	707	10.59	-7	5.36	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1+1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P,500mL)
1+1	General (P,1000mL)
1+1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1+1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 34.22 ft

Comments Field dup

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT R61L

Purge Method: Dedicated Peristaltic Tubing

Date: 01/15/25 Start Time: 14:07 Finish/Sample Time: 14:50

Well Depth (Bottom) From MP: 31.49 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 25.79 ft Total Purge Volume: 1600 mL

Water Column Length: 5.70 ft

Well Water Volume: 3.45 L Total Drawdown: 2.16 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	14:17	26.15	200	6.54	844	10.61	149	1.38	0.0
2	14:20	26.34	200	6.53	842	10.60	147	1.29	0.0
3	14:23	26.56	200	6.52	840	10.60	147	1.19	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
1	Rad (P, 2.5L, HNO3)

(4)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 27.95 ft

Comments

Sampler's Signature: Aidy H. Hester

Duck Creek

WELL/SAMPLE POINT **R72S**

Purge Method: **Dedicated Peristaltic Tubing**

Date: 1/8/2025 Start Time: 11:35 ^{App 2/12/25} Finish/Sample Time: 11:40 15:41
1/9/2025 1/8 1/9
Well Depth (Bottom) From MP: 37.72 ft Min. Purge Volume: 1/8 1000 mL
Depth to Water From MP: 30.52 ft Total Purge Volume: 1450 mL
Water Column Length: 7.20 ft
Well Water Volume: 4.36 L Total 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	1515	30.54	150	7.44	12500	8.74	226	4.85	1.8
2	1517	30.60	150	7.47	12400	8.72	227	4.83	0.0
3	1520	30.60	150	7.46	12200	8.71	227	4.80	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 30.62 ft

Comments Couldn't sample on 1/8 due to tubing missing, will return on 1/9
with new tubing. 1/9: New tubing installed

Sampler's Signature: Bohannon

App

Duck Creek

WELL/SAMPLE POINT **T43L**

Purge Method: **Dedicated Bladder**

Date: **01/14/25** Start Time: **9:27** Finish/Sample Time: **10:11**

Well Depth (Bottom) From MP: **20.40** ft Min. Purge Volume: **1000** mL

Depth to Water From MP: **7.00** ft Total Purge Volume: **1600** mL

Water Column Length: **13.40** ft

Well Water Volume: **8.16** 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	9:50	7.21	200	6.97	562	10.03	171	3.23	981
2	9:53	7.21	200	6.96	566	10.04	171	2.98	909
3	9:56	7.21	200	6.95	571	10.05	169	2.75	854
4				A3W 01/14/25					
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

(3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: **7.21** ft

Comments

Sampler's Signature: *Andy Witek*

Duck Creek

WELL/SAMPLE POINT **T44L**

Purge Method: **Dedicated Bladder**

Date: 01/08/25 Start Time: 10:45 Finish/Sample Time: 11:15

Well Depth (Bottom) From MP: 22.65 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 11.00 ft

Total Purge Volume: 11600 mL

Water Column Length: 11.65 ft

Well Water Volume: 7.06 L

Total Drawdown: 0.0 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	10:55	11.00	200	6.93	542	11.56	173	2.76	1.3
2	10:58	11.00	200	6.92	544	11.57	163	2.58	1.2
3	11:01	11.00	200	6.91	548	11.58	160	2.44	1.1
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

(3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 11.00 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **T45L**

Purge Method: **Dedicated Bladder**

Date: **01/08/25** Start Time: **9:43** Finish/Sample Time: **10:36**

Well Depth (Bottom) From MP: **15.35** ft Min. Purge Volume: **1000** mL

Depth to Water From MP: **8.63** ft Total Purge Volume: **1600** mL

Water Column Length: **6.72** ft

Well Water Volume: **4.07** L Total Drawdown: **0.37** 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	10:15	8.88	200	7.00	466	9.87	193	5.90	295
2	10:18	8.97	200	6.99	459	9.88	195	5.41	275
3	10:21	9.00	200	6.98	458	9.89	192	4.90	250
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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:

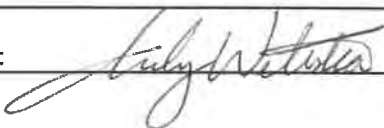
Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

③

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: **9.00** ft

Comments

Sampler's Signature: 

Duck Creek

WELL/SAMPLE POINT **T46L**

Purge Method: **Dedicated Bladder**

Date: **01/07/25** Start Time: **14:27** Finish/Sample Time: **15:02**

Well Depth (Bottom) From MP: **14.70** ft

Min. Purge Volume: **1000** mL

Depth to Water From MP: **6.81** ft

Total Purge Volume: **1600** mL

Water Column Length: **7.89** ft

Well Water Volume: **4.78** L

Total Drawdown: **0.50** 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	14:40	7.03	200	8.44	484	10.24	199	4.25	0.0
2	14:43	7.03	200	8.43	472	10.23	195	3.90	0.0
3	14:46	7.03	200	8.43	460	10.23	189	3.59	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

(3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: **7.31** ft

Comments

Sampler's Signature: *Aidy Whitehead*

Duck Creek

WELL/SAMPLE POINT XPW01

Purge Method: Portable Pump/Dedicated Tubing

Date: 1/29/2025 Start Time: 1305 Finish/Sample Time: 1410

Well Depth (Bottom) From MP: 37.74 ft
Depth to Water From MP: 12.17 ft
Water Column Length: 25.57 ft
Well Water Volume: 15.46 L

Min. Purge Volume: 1000 mL
Total Purge Volume: 1900 mL
Total Drawdown: 2.83 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	1316	14.65	100	10.35	6890	14.21	-339	0.00	653
2	1319	14.71	100	10.36	6910	14.23	-345	0.00	643
3	1322	14.69	100	10.44	6910	14.25	-347	0.00	629
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☒ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☒ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☒ Strong

App 1/29/25

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, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 1000 mL)
	Ammonia (P, 250mL, H2SO4)
1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,1000mL) <u>500mL</u>
	TOC (A,V, 40mL, H2SO4)

Final DTW: 15.00 ft

Comments would recommend installing peristaltic in this well

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **X301 Pump House**

Purge Method:

Bailer

Date: 01/23/2025 Start Time: 0905 Finish/Sample Time: 0920

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									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter:

Horiba

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)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Comments

Could not sample on 01/23 due to weather. JB

re attempted on 1/24/25
unable to sample due to port

Sampler's Signature: Bohannon

being
Fixed
APP

Multiparameter Meter Field Calibration Checklist

Field Personnel:		ASW			Location:		Duck Creek		
Weather:		Sunny 24° 7mph Wind NW			Environment:		Snowy, grassy, muddy		
Multiparameter Water Meter		Make:	Horiba	Model:	U-5000	Serial Number:		3T85NNNF	
Water Level Meter		Make:	Heson	Model:	Dpper-T	Serial Number:		3717-T	
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	7.26	s.u.	±0.1 s.u.	F	YES	4.00	MSI	023310-01	11/10/2025
pH 7.00a	6.98	s.u.	±0.1 s.u.	P	NO	N/A	MSI	024145-01	5/29/2026
pH 10.00a	9.15	s.u.	±0.1 s.u.	F	yes	10.00	MSI	024072-02	3/21/2026
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm	P	yes	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2020	µS/cm	±5%	P	NO	N/A	Proactive	4GJ1615	Oct-25
ORP	242	mV	±15 mV	P	NO	N/A	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	0.0	mg/L	±0.1	P	NO	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	98.3	%	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)

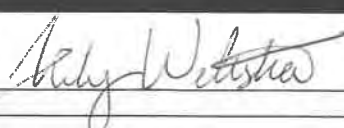
Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	13:41			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	7.63	s.u.	±0.15 s.u.	F	yes / 4.00	Proactive	3GE1074	May-25	
pH 7.00b	6.78	s.u.	±0.15 s.u.	F	yes / 6.94	Proactive	3GE1252	May-25	
pH 10.00b	9.62	s.u.	±0.15 s.u.	F	yes / 10.00	Geotech	3GA1134	Jan-25	
SC 1000	1010	µS/cm	±5%	P	N/A	Spectrum	2NA0056	Dec-25	

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	15:10			
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	023310-01	11/10/2025
pH 7.00a	6.95	s.u.	±0.1 s.u.	P	NO	N/A	MSI	024145-01	5/29/2026
pH 10.00a	9.96	s.u.	±0.1 s.u.	P	NO	N/A	MSI	024072-02	3/21/2026
SC 1000	1020	µS/cm	±5%	P	NO	N/A	Spectrum	2NA0024	Dec-25
DO (Zero pt)	0.0	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 8 hrs, unless only one well

Comments:									
Signature: 					Date: 01/07/25				

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Jordan Bohannon</u>				Location: <u>Duck Creek</u>					
Weather: <u>24°F Sunny 6mph</u>				Environment: <u>Snowy Grassy</u>					
Multiparameter Water Meter		Make: <u>Oakton</u>	Model: <u>PCTS50</u>	Serial Number: <u>X 3058669</u>					
Water Meter Water Level Meter		Make: <u>Horiba</u>	Model: <u>U-5000</u>	Serial Number: <u>WU G83 C85</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.03</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>No</u>	<u>N/A</u>	MSI	023310-01	11/10/2025
pH 7.00a	<u>7.05</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>No</u>	<u>N/A</u>	MSI	024145-01	5/29/2026
pH 10.00a	<u>9.97</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>No</u>	<u>N/A</u>	MSI	024072-02	3/21/2026
SC Zero (DI)	<u>0.00</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>No</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>1970</u>	µS/cm	±5%	<u>P</u>	<u>No</u>	<u>N/A</u>	Proactive	4GJ1615	Oct-25
ORP	<u>234</u>	mV	±15 mV	<u>P</u>	<u>No</u>	<u>N/A</u>	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	<u>0.00</u>	mg/L	±0.1	<u>P</u>	<u>No</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>100%</u>	%	97-100%	<u>P</u>	<u>No</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.00</u>	NTU	<2 NTU	<u>P</u>	<u>No</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>1345</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>3.99</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>None</u>	Proactive	3GE1074	May-25	
pH 7.00b	<u>6.95</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>None</u>	Proactive	3GE1252	May-25	
pH 10.00b	<u>9.98</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>None</u>	Geotech	3GA1134	Jan-25	
SC 1000	<u>980</u>	µS/cm	±5%	<u>P</u>	<u>None</u>	Spectrum	2NA0056	Dec-25	

Approx. every 8 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	023310-01	11/10/2025
pH 7.00a		s.u.	±0.1 s.u.				MSI	024145-01	5/29/2026
pH 10.00a		s.u.	±0.1 s.u.				MSI	024072-02	3/21/2026
SC 1000		µS/cm	±5%				Spectrum	2NA0024	Dec-25
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 8 hrs, unless only one well

Comments: <u>only one well</u> <u>Water & Level Meter</u> <u>Heron</u> <u>Apper-T 19 FF2111192HB</u>									
Signature: <u>Bohannon</u>				Date: <u>1/7/2025</u>					

App

Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Austin Moore</i>			Location: <i>Duck Creek</i>						
Weather: <i>Sunny 24° 7 mph wind NW</i>			Environment: <i>Snow 2 woods</i>						
Multiparameter Water Meter		Make: <i>Hanna</i>	Model: <i>U-5000</i>	Serial Number: <i>A67TK 4X6</i>					
Water Level Meter		Make: <i>Hanna</i>	Model: <i>WT</i>	Serial Number: <i>17FF220213/ML</i>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>3.95</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	023310-01	11/10/2025
pH 7.00a	<i>7.02</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	024145-01	5/29/2026
pH 10.00a	<i>10.08</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	024072-02	3/21/2026
SC Zero (DI)	<i>0.0</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>N</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>1070</i>	µS/cm	±5%	<i>P</i>	<i>N</i>	<i>N/A</i>	Proactive	4GJ1615	Oct-25
ORP	<i>245</i>	mV	±15 mV	<i>P</i>	<i>N</i>	<i>N/A</i>	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	<i>0.0</i>	mg/L	±0.1	<i>P</i>	<i>N</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>98.7</i>	%	97-100%	<i>P</i>	<i>N</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>N</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <i>1414</i>		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<i>3.98</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N</i>	Proactive	3GE1074	May-25
pH 7.00b	<i>7.01</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N</i>	Proactive	3GE1252	May-25
pH 10.00b	<i>10.02</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N</i>	Geotech	3GA1134	Jan-25
SC 1000	<i>990</i>	µS/cm	±5%	<i>P</i>	<i>N</i>	Spectrum	2NA0056	Dec-25

Approx. every 8 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	023310-01	11/10/2025
pH 7.00a		s.u.	±0.1 s.u.				MSI	024145-01	5/29/2026
pH 10.00a		s.u.	±0.1 s.u.				MSI	024072-02	3/21/2026
SC 1000		µS/cm	±5%				Spectrum	2NA0024	Dec-25
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 8 hrs, unless only one well

Comments: *Only one well completed*

Signature: <i>Austin Moore</i>	Date: <i>7-Jun-25</i>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>AJW</u>		Location: <u>Duck Creek</u>							
Weather: <u>Sunny 15°-24° S.W. Wind NW</u>		Environment: <u>Snowy, grassy, muddy</u>							
Multiparameter Water Meter	Make: <u>Hanba</u>	Model: <u>U-5000</u>	Serial Number: <u>3T85NNNF</u>						
Water Level Meter	Make: <u>Hera</u>	Model: <u>D-200-T</u>	Serial Number: <u>3717-T</u>						
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>5.51</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>Yes</u>	<u>4.00</u>	MSI	023310-01	11/10/2025
pH 7.00a	<u>6.87</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>Yes</u>	<u>7.00</u>	MSI	024145-01	5/29/2026
pH 10.00a	<u>10.05</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024072-02	3/21/2026
SC Zero (DI)	<u>0.0</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2030</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Proactive	4GJ1615	Oct-25
ORP	<u>242</u>	mV	±15 mV	<u>P</u>	<u>NO</u>	<u>N/A</u>	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	<u>0.0</u>	mg/L	±0.1	<u>P</u>	<u>NO</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>98.1</u>	%	97-100%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>7:40</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>3.95</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Proactive	3GE1074	May-25	
pH 7.00b	<u>6.90</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Proactive	3GE1252	May-25	
pH 10.00b	<u>9.97</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Geotech	3GA1134	Jan-25	
SC 1000	<u>1020</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	Spectrum	2NA0056	Dec-25	

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>15:30</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.94</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	023310-01	11/10/2025
pH 7.00a	<u>6.98</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024145-01	5/29/2026
pH 10.00a	<u>10.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024072-02	3/21/2026
SC 1000	<u>1010</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Spectrum	2NA0024	Dec-25
DO (Zero pt)	<u>0.0</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NO</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:

Signature: <u>01/08/25</u>		Date: <u>01/08/25</u>	
Signature: <u>[Signature]</u>		Signature: <u>[Signature]</u>	

Multiparameter Meter Field Calibration Checklist

Field Personnel:		Jordan Bohannon		Location:		Duck Creek			
Weather:		23°F, Sunny		Environment:		snow, grass, mud			
Multiparameter Water Meter		Make:	Horiba	Model:	U-5000	Serial Number:	WU G83C85		
Water Level Meter		Make:	Heron	Model:	D:part	Serial Number:	19FF211192HB		
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	023310-01	11/10/2025
pH 7.00a	7.08	s.u.	±0.1 s.u.	I	I	I	MSI	024145-01	5/29/2026
pH 10.00a	10.09	s.u.	±0.1 s.u.	I	I	I	MSI	024072-02	3/21/2026
SC Zero (DI)	0.00	µS/cm	0<25 µS/cm	I	I	I	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2010	µS/cm	±5%	I	I	I	Proactive	4GJ1615	Oct-25
ORP	237	mV	±15 mV	I	I	I	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	0.00	mg/L	±0.1	I	I	I	Macron	#000228049	8/26/2025
DO (Saturated)	100	%	97-100%	I	I	I	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU	I	I	I	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 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	3.95	s.u.	±0.15 s.u.	P	None	Proactive	3GE1074	May-25	
pH 7.00b	6.97	s.u.	±0.15 s.u.	I	I	Proactive	3GE1252	May-25	
pH 10.00b	10.03	s.u.	±0.15 s.u.	I	I	Geotech	3GA1134	Jan-25	
SC 1000	1008	µS/cm	±5%	I	I	Spectrum	2NA0056	Dec-25	

Approx. every 8 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	023310-01	11/10/2025
pH 7.00a	7.03	s.u.	±0.1 s.u.	I	I	I	MSI	024145-01	5/29/2026
pH 10.00a	10.05	s.u.	±0.1 s.u.	I	I	I	MSI	024072-02	3/21/2026
SC 1000	997	µS/cm	±5%	I	I	I	Spectrum	2NA0024	Dec-25
DO (Zero pt)	0.00	mg/L	±0.1 mg/L	I	I	I	Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	NTU	<2 NTU	I	I	I	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:

Signature:	Bohannon	Date:	1/8/2025
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Multiparameter Meter Field Calibration Checklist

Field Personnel:		AJW		Location:		Duck Creek			
Weather:		Sunny 12°-27° 7-10 mph wind SW		Environment:		Sunny, grassy, muddy			
Multiparameter Water Meter	Make:	Hanna	Model:	U-5000	Serial Number:	3785 NNNF			
Water Level Meter	Make:	Heron	Model:	DI90-T	Serial Number:	3717-T			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.20	s.u.	±0.1 s.u.	F	YES	4.00	MSI	023310-01	11/10/2025
pH 7.00a	6.94	s.u.	±0.1 s.u.	P	NO	N/A	MSI	024145-01	5/29/2026
pH 10.00a	10.12	s.u.	±0.1 s.u.	F	YES	10.01	MSI	024072-02	3/21/2026
SC Zero (DI)	0.0	µS/cm	0-25 µS/cm	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2040	µS/cm	±5%	P	NO	N/A	Proactive	4GJ1615	Oct-25
ORP	242	mV	±15 mV	P	NO	N/A	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	0.0	mg/L	±0.1	P	NO	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	99.3	%	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 8 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	7:27			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	3.94	s.u.	±0.15 s.u.	P	NO	Proactive	3GE1074	May-25	
pH 7.00b	6.80	s.u.	±0.15 s.u.	F	YES/7.01	Proactive	3GE1252	May-25	
pH 10.00b	9.93	s.u.	±0.15 s.u.	P	NO	Geotech	3GA1134	Jan-25	
SC 1000	1030	µS/cm	±5%	P	NO	Spectrum	2NA0056	Dec-25	

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	10:00			
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	023310-01	11/10/2025
pH 7.00a	7.01	s.u.	±0.1 s.u.	P	NO	N/A	MSI	024145-01	5/29/2026
pH 10.00a	10.05	s.u.	±0.1 s.u.	P	NO	N/A	MSI	024072-02	3/21/2026
SC 1000	1010	µS/cm	±5%	P	NO	N/A	Spectrum	2NA0024	Dec-25
DO (Zero pt)	0.0	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 8 hrs, unless only one well

Comments:									
Signature: Andy Wetzel					Date: 01/09/25				

Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Jordan Bohannon</i>			Location: <i>Duck creek</i>						
Weather: <i>Sunny 12-27° Wind SW 7mph</i>			Environment: <i>Shrub, grass mud</i>						
Multiparameter Water Meter	Make: <i>Horiba</i>	Model: <i>U-5000</i>	Serial Number: <i>WV683C85</i>						
Water Level Meter	Make: <i>Heron</i>	Model: <i>Dipart</i>	Serial Number: <i>19FKZ111192HB</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>NA</i>	MSI	023310-01	11/10/2025
pH 7.00a	<i>7.00</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>P</i>	<i>P</i>	MSI	024145-01	5/29/2026
pH 10.00a	<i>10.06</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>P</i>	<i>P</i>	MSI	024072-02	3/21/2026
SC Zero (DI)	<i>0.0</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>P</i>	<i>P</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2010</i>	µS/cm	±5%	<i>P</i>	<i>P</i>	<i>P</i>	Proactive	4GJ1615	Oct-25
ORP	<i>238</i>	mV	±15 mV	<i>P</i>	<i>P</i>	<i>P</i>	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	<i>0.00</i>	mg/L	±0.1	<i>P</i>	<i>P</i>	<i>P</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>98.7</i>	%	97-100%	<i>P</i>	<i>P</i>	<i>P</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>P</i>	<i>P</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <i>10:00</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>3.99</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Proactive	3GE1074	May-25	
pH 7.00b	<i>6.93</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>P</i>	Proactive	3GE1252	May-25	
pH 10.00b	<i>10.10</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>P</i>	Geotech	3GA1134	Jan-25	
SC 1000	<i>997</i>	µS/cm	±5%	<i>P</i>	<i>P</i>	Spectrum	2NA0056	Dec-25	

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <i>16:05</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	023310-01	11/10/2025
pH 7.00a	<i>7.06</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>P</i>	<i>P</i>	MSI	024145-01	5/29/2026
pH 10.00a	<i>10.07</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>P</i>	<i>P</i>	MSI	024072-02	3/21/2026
SC 1000	<i>1020</i>	µS/cm	±5%	<i>P</i>	<i>P</i>	<i>P</i>	Spectrum	2NA0024	Dec-25
DO (Zero pt)	<i>0.00</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>P</i>	<i>P</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>P</i>	<i>P</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:

Signature: <i>[Signature]</i>	Date: <i>1/9/2025</i>
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For Jordan Bohannon

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>AJW</u>				Location: <u>Duck Creek</u>					
Weather: <u>Sunny 10°-21° 13mph Wind NW</u>				Environment: <u>Snowy, grassy, muddy</u>					
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>U-5000</u>	Serial Number: <u>3T85NNNF</u>					
Water Level Meter		Make: <u>Hein</u>	Model: <u>DPA-T</u>	Serial Number: <u>3717-T</u>					

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.09</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	023310-01	11/10/2025
pH 7.00a	<u>6.92</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024145-01	5/29/2026
pH 10.00a	<u>10.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024072-02	3/21/2026
SC Zero (DI)	<u>0.0</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2010</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Proactive	4GJ1615	Oct-25
ORP	<u>242</u>	mV	±15 mV	<u>P</u>	<u>NO</u>	<u>N/A</u>	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	<u>0.0</u>	mg/L	±0.1	<u>P</u>	<u>NO</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>97.7</u>	%	97-100%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>7:36</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>4.01</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Proactive	3GE1074	May-25	
pH 7.00b	<u>6.79</u>	s.u.	±0.15 s.u.	<u>F</u>	<u>yes / 7.00</u>	Proactive	3GE1252	May-25	
pH 10.00b	<u>9.98</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Proactive	3GE0965	May-25	
SC 1000	<u>1040</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	Reagents	8405243	Jun-26	

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>16:01</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	023310-01	11/10/2025
pH 7.00a	<u>6.97</u>	s.u.	±0.1 s.u.	<u>P</u>	↓	↓	MSI	024145-01	5/29/2026
pH 10.00a	<u>10.02</u>	s.u.	±0.1 s.u.	<u>P</u>			MSI	024072-02	3/21/2026
SC 1000	<u>1020</u>	µS/cm	±5%	<u>P</u>			Spectrum	2NA0024	Dec-25
DO (Zero pt)	<u>0.0</u>	mg/L	±0.1 mg/L	<u>P</u>			Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>			Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:

Signature: <u>[Signature]</u>	Date: <u>01/13/25</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Austin Moore</i>				Location: <i>Duck Creek</i>					
Weather: <i>21-10 sunny wind 14 mph WNW</i>				Environment: <i>Snow, woods</i>					
Multiparameter Water Meter		Make: <i>Horiba/Oakton</i>	Model: <i>U-5000/PCT550</i>	Serial Number: <i>AGJIK4XG-1</i>		<i>3058519</i>			
Water Level Meter		Make: <i>WT</i>	Model: <i>Herron</i>	Serial Number: <i>19FF2202131ML</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>N</i>	<i>N/A</i>	MSI	023310-01	11/10/2025
pH 7.00a	<i>7.01</i>	s.u.	±0.1 s.u.	<i>I</i>	<i>I</i>	<i>I</i>	MSI	024145-01	5/29/2026
pH 10.00a	<i>9.98</i>	s.u.	±0.1 s.u.	<i>I</i>	<i>I</i>	<i>I</i>	MSI	024072-02	3/21/2026
SC Zero (DI)	<i>0.0</i>	µS/cm	0<25 µS/cm	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>1987</i>	µS/cm	±5%	<i>I</i>	<i>I</i>	<i>I</i>	Proactive	4GJ1615	Oct-25
ORP	<i>245</i>	mV	±15 mV	<i>I</i>	<i>I</i>	<i>I</i>	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	<i>0.0</i>	mg/L	±0.1	<i>I</i>	<i>I</i>	<i>I</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>99.2</i>	%	97-100%	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <i>0925</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>4.06</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Proactive	3GE1074	May-25	
pH 7.00b	<i>7.03</i>	s.u.	±0.15 s.u.	<i>I</i>	<i>I</i>	Proactive	3GE1252	May-25	
pH 10.00b	<i>10.02</i>	s.u.	±0.15 s.u.	<i>I</i>	<i>I</i>	Proactive	3GE0965	May-25	
SC 1000	<i>1020</i>	µS/cm	±5%	<i>I</i>	<i>I</i>	Reagents	8405243	Jun-26	

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <i>1606</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>N</i>	<i>N/A</i>	MSI	023310-01	11/10/2025
pH 7.00a	<i>7.01</i>	s.u.	±0.1 s.u.	<i>I</i>	<i>I</i>	<i>I</i>	MSI	024145-01	5/29/2026
pH 10.00a	<i>10.02</i>	s.u.	±0.1 s.u.	<i>I</i>	<i>I</i>	<i>I</i>	MSI	024072-02	3/21/2026
SC 1000	<i>1010</i>	µS/cm	±5%	<i>I</i>	<i>I</i>	<i>I</i>	Spectrum	2NA0024	Dec-25
DO (Zero pt)	<i>0.0</i>	mg/L	±0.1 mg/L	<i>I</i>	<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>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments: *Horiba PH and SE reads failing/can't calibrate, used oakton*

Signature: <i>Austin Moore</i>	Date: <i>13-Jan-25</i>
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Multiparameter Meter Field Calibration Checklist

Field Personnel:		A.J.W.		Location:		Duck Creek			
Weather:		Cloudy 18°-15° 13mph Wind NW		Environment:					
Multiparameter Water Meter		Make:	HORIBA	Model:	U-5000	Serial Number:		3T85NNNF	
Water Level Meter		Make:	Heron	Model:	DIPDST	Serial Number:		3717-T	
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.32	s.u.	±0.1 s.u.	F	YES	4.00	MSI	023310-01	11/10/2025
pH 7.00a	6.81	s.u.	±0.1 s.u.	F	YES	7.00	MSI	024145-01	5/29/2026
pH 10.00a	10.06	s.u.	±0.1 s.u.	P	NO	N/A	MSI	024072-02	3/21/2026
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2040	µS/cm	±5%	P	NO	N/A	Proactive	4GJ1615	Oct-25
ORP	242	mV	±15 mV	P	NO	N/A	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	0.0	mg/L	±0.1		NO	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	98.3	%	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 8 hrs, unless only one well

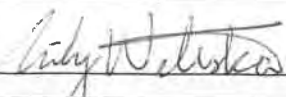
ICV (Initial Calibration Verification)					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	3.95	s.u.	±0.15 s.u.	P	NO	Proactive	3GE1074	May-25	
pH 7.00b	6.94	s.u.	±0.15 s.u.	P	NO	Proactive	3GE1252	May-25	
pH 10.00b	10.01	s.u.	±0.15 s.u.	P	NO	Proactive	3GE0965	May-25	
SC 1000	1010	µS/cm	±5%	P	NO	Reagents	8405243	Jun-26	

Approx. every 8 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	4.09	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023310-01	11/10/2025
pH 7.00a	6.89	s.u.	±0.1 s.u.	P	NO	N/A	MSI	024145-01	5/29/2026
pH 10.00a	10.04	s.u.	±0.1 s.u.	P	NO	N/A	MSI	024072-02	3/21/2026
SC 1000	1030	µS/cm	±5%	P	NO	N/A	Spectrum	2NA0024	Dec-25
DO (Zero pt)	0.0	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 8 hrs, unless only one well

Comments:

Signature:		Date:	01/14/25
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Jordan Bohannon</i>		Location: <i>Duck Creek</i>							
Weather: <i>61°F, Sunny</i>		Environment: <i>Snowy, Grassy</i>							
Multiparameter Water Meter	Make: <i>Horiba</i>	Model: <i>U-5000</i>	Serial Number: <i>WUG83C85</i>						
Water Level Meter	Make: <i>Hera</i>	Model: <i>U-1000</i>	Serial Number: <i>19FF211192HB</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>NA</i>	MSI	023310-01	11/10/2025
pH 7.00a	<i>7.03</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>No</i>	<i>NA</i>	MSI	024145-01	5/29/2026
pH 10.00a	<i>10.04</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>No</i>	<i>NA</i>	MSI	024072-02	3/21/2026
SC Zero (DI)	<i>0.00</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>No</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2011</i>	µS/cm	±5%	<i>P</i>	<i>No</i>	<i>NA</i>	Proactive	4GJ1615	Oct-25
ORP	<i>236</i>	mV	±15 mV	<i>P</i>	<i>No</i>	<i>NA</i>	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	<i>0.00</i>	mg/L	±0.1	<i>P</i>	<i>No</i>	<i>NA</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>100%</i>	%	97-100%	<i>P</i>	<i>No</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.00</i>	NTU	<2 NTU	<i>P</i>	<i>No</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <i>0945</i>				
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>None</i>	Proactive	3GE1074	May-25	
pH 7.00b	<i>7.02</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>None</i>	Proactive	3GE1252	May-25	
pH 10.00b	<i>10.04</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>None</i>	Geotech	3GA1134	Jan-25	
SC 1000	<i>1007</i>	µS/cm	±5%	<i>P</i>	<i>None</i>	Spectrum	2NA0056	Dec-25	

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <i>1543</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>NA</i>	MSI	023310-01	11/10/2025
pH 7.00a	<i>7.03</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>No</i>	<i>NA</i>	MSI	024145-01	5/29/2026
pH 10.00a	<i>10.07</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>No</i>	<i>NA</i>	MSI	024072-02	3/21/2026
SC 1000	<i>1009</i>	µS/cm	±5%	<i>P</i>	<i>No</i>	<i>NA</i>	Spectrum	2NA0024	Dec-25
DO (Zero pt)	<i>0.00</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>No</i>	<i>NA</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.00</i>	NTU	<2 NTU	<i>P</i>	<i>No</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:

Signature: <i>J Bohannon</i>	Date: <i>01/14/25</i>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: AJW				Location: Duck Creek					
Weather: Sunny 40-20° 4mph Wind SW				Environment: Sandy, grassy, muddy					
Multiparameter Water Meter		Make: Hanna	Model: U-5000	Serial Number: 3T85NNNF					
Water Level Meter		Make: Hanna	Model: DPH-5	Serial Number: 3717-T					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.16	s.u.	±0.1 s.u.	F	Yes	3.99	MSI	023310-01	11/10/2025
pH 7.00a	6.79	s.u.	±0.1 s.u.	F	Yes	7.00	MSI	024145-01	5/29/2026
pH 10.00a	9.92	s.u.	±0.1 s.u.	P	NO	N/A	MSI	024072-02	3/21/2026
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2010	µS/cm	±5%	P	NO	N/A	Proactive	4GJ1615	Oct-25
ORP	249	mV	±15 mV	P	NO	N/A	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	0.0	mg/L	±0.1	P	NO	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	98.5	%	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 8 hrs, unless only one well

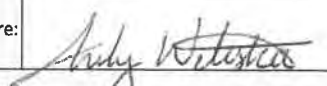
ICV (Initial Calibration Verification)					Time: 7:50				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.08	s.u.	±0.15 s.u.	P	NO	Proactive	3GE1074	May-25	
pH 7.00b	7.13	s.u.	±0.15 s.u.	F	Yes/7.00	Proactive	3GE1252	May-25	
pH 10.00b	10.08	s.u.	±0.15 s.u.	P	NO	Proactive	3GE0965	May-25	
SC 1000	1050	µS/cm	±5%	P	NO	Reagents	8405243	Jun-26	

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 15:21				
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	023310-01	11/10/2025
pH 7.00a	7.04	s.u.	±0.1 s.u.	P	NO	N/A	MSI	024145-01	5/29/2026
pH 10.00a	10.02	s.u.	±0.1 s.u.	P	NO	N/A	MSI	024072-02	3/21/2026
SC 1000	1030	µS/cm	±5%	P	NO	N/A	Spectrum	2NA0024	Dec-25
DO (Zero pt)	0.0	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 8 hrs, unless only one well

Comments:

Signature: 	Date: 01/15/25
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Austin Moore</i>		Location: <i>Duck Creek</i>							
Weather: <i>24-90 mostly cloudy wind 4 mph</i>		Environment: <i>Forest, snow</i>							
Multiparameter Water Meter	Make: <i>Horiba</i>	Model: <i>V-5000</i>	Serial Number: <i>WUG-83685</i>						
Water Level Meter	Make: <i>WT</i>	Model: <i>Heron</i>	Serial Number: <i>19FF2202131ML</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>N</i>	<i>N/A</i>	MSI	023310-01	11/10/2025
pH 7.00a	<i>7.01</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	024145-01	5/29/2026
pH 10.00a	<i>10.02</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	024072-02	3/21/2026
SC Zero (DI)	<i>0.0</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>N</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2035</i>	µS/cm	±5%	<i>P</i>	<i>N</i>	<i>N/A</i>	Proactive	4GJ1615	Oct-25
ORP		mV	±15 mV	<i>P</i>	<i>N</i>	<i>N/A</i>	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	<i>0.0</i>	mg/L	±0.1	<i>P</i>	<i>N</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>99.2</i>	%	97-100%	<i>P</i>	<i>N</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>N</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <i>0901</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<i>4.06</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Proactive	3GE1074	May-25
pH 7.00b	<i>7.03</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Proactive	3GE1252	May-25
pH 10.00b	<i>10.09</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	3GA1134	Jan-25
SC 1000	<i>1010</i>	µS/cm	±5%	<i>P</i>	<i>N/A</i>	Spectrum	2NA0056	Dec-25

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <i>1600</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.01</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	023310-01	11/10/2025
pH 7.00a	<i>7.09</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	024145-01	5/29/2026
pH 10.00a	<i>9.94</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	024072-02	3/21/2026
SC 1000	<i>1030</i>	µS/cm	±5%	<i>P</i>	<i>N</i>	<i>N/A</i>	Spectrum	2NA0024	Dec-25
DO (Zero pt)	<i>0.0</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>N</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>N</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:

Signature: <i>Austin Moore</i>	Date: <i>15-Jan-25</i>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Austin Moore</u>				Location: <u>Duck Creek</u>					
Weather: <u>40-25° Partly cloudy with rain</u>				Environment: <u>Slough, mud</u>					
Multiparameter Water Meter		Make: <u>Hanna</u>	Model: <u>U-5000</u>	Serial Number: <u>WV683C85</u>					
Water Level Meter		Make: <u>WT</u>	Model: <u>Hanna</u>	Serial Number: <u>19FF-220213/ML</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	023310-01	11/10/2025
pH 7.00a	<u>7.08</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	024145-01	5/29/2026
pH 10.00a	<u>10.09</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	024072-02	3/21/2026
SC Zero (DI)	<u>0.0</u>	µS/cm	0<25 µS/cm	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2020</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	<u>I</u>	Proactive	4GJ1615	Oct-25
ORP	<u>236</u>	mV	±15 mV	<u>I</u>	<u>I</u>	<u>I</u>	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	<u>0.0</u>	mg/L	±0.1	<u>I</u>	<u>I</u>	<u>I</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>98.6</u>	%	97-100%	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <u>1024</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>4.03</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Proactive	3GE1074	May-25	
pH 7.00b	<u>6.98</u>	s.u.	±0.15 s.u.	<u>I</u>	<u>I</u>	Proactive	3GE1252	May-25	
pH 10.00b	<u>10.08</u>	s.u.	±0.15 s.u.	<u>I</u>	<u>I</u>	Proactive	3GE0965	May-25	
SC 1000	<u>1030</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	Reagents	8405243	Jun-26	

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <u>1543</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	023310-01	11/10/2025
pH 7.00a	<u>7.02</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	024145-01	5/29/2026
pH 10.00a	<u>10.05</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	024072-02	3/21/2026
SC 1000	<u>1010</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	<u>I</u>	Spectrum	2NA0024	Dec-25
DO (Zero pt)	<u>0.0</u>	mg/L	±0.1 mg/L	<u>I</u>	<u>I</u>	<u>I</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:

Signature: <u>Austin AM</u>	Date: <u>16-Jan-25</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>A.J.W</u>		Location: <u>Duck Creek</u>	
Weather: <u>Sunny 21°-36° 13 mph Wind NW</u>		Environment: <u>Sandy, grassy, muddy</u>	
Multiparameter Water Meter	Make: <u>Horiaba</u>	Model: <u>U-5000</u>	Serial Number: <u>3T8SNNNF</u>
Water Level Meter	Make: <u>Heron</u>	Model: <u>Diver-T</u>	Serial Number: <u>3717-T</u>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.20</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>Yes</u>	<u>4.00</u>	MSI	023310-01	11/10/2025
pH 7.00a	<u>6.77</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>Yes</u>	<u>7.00</u>	MSI	024145-01	5/29/2026
pH 10.00a	<u>9.90</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>No</u>	<u>N/A</u>	MSI	024072-02	3/21/2026
SC Zero (DI)	<u>0.0</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>No</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2040</u>	µS/cm	±5%	<u>P</u>	<u>No</u>	<u>N/A</u>	Proactive	4GJ1615	Oct-25
ORP	<u>242</u>	mV	±15 mV	<u>P</u>	<u>No</u>	<u>N/A</u>	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	<u>0.0</u>	mg/L	±0.1	<u>P</u>	<u>No</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>98.7</u>	%	97-100%	<u>P</u>	<u>No</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>No</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	<u>7:50</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>3.95</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>No</u>	Proactive	3GE1074	May-25	
pH 7.00b	<u>7.12</u>	s.u.	±0.15 s.u.	<u>F</u>	<u>Yes / 7.00</u>	Proactive	3GE1252	May-25	
pH 10.00b	<u>10.11</u>	s.u.	±0.15 s.u.	<u>F</u>	<u>Yes / 10.00</u>	Proactive	3GE0965	May-25	
SC 1000	<u>1010</u>	µS/cm	±5%	<u>P</u>	<u>No</u>	Reagents	8405243	Jun-26	

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	<u>11:15</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.08</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>No</u>	<u>N/A</u>	MSI	023310-01	11/10/2025
pH 7.00a	<u>6.94</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>No</u>	<u>N/A</u>	MSI	024145-01	5/29/2026
pH 10.00a	<u>9.97</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>No</u>	<u>N/A</u>	MSI	024072-02	3/21/2026
SC 1000	<u>1020</u>	µS/cm	±5%	<u>P</u>	<u>No</u>	<u>N/A</u>	Spectrum	2NA0024	Dec-25
DO (Zero pt)	<u>0.0</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>No</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>No</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:

Signature: <u>Andy Heston</u>	Date: <u>01/16/25</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Austin Mace</u>				Location: <u>Duck Creek</u>					
Weather: <u>14°-18° cloudy</u>				Environment: <u>Forest, snow</u>					
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>V-5000</u>	Serial Number: <u>WU683C85</u>					
Water Level Meter		Make: <u>WT</u>	Model: <u>Heron</u>	Serial Number: <u>9FF-7202131AL</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.04</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	023310-01	11/10/2025
pH 7.00a	<u>7.07</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	024145-01	5/29/2026
pH 10.00a	<u>10.09</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	024072-02	3/21/2026
SC Zero (DI)	<u>0.0</u>	µS/cm	0<25 µS/cm	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>1980</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	<u>I</u>	Proactive	4GJ1615	Oct-25
ORP	<u>247</u>	mV	±15 mV	<u>I</u>	<u>I</u>	<u>I</u>	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	<u>0.0</u>	mg/L	±0.1	<u>I</u>	<u>I</u>	<u>I</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>98.5</u>	%	97-100%	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <u>0924</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>4.01</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Proactive	3GE1074	May-25	
pH 7.00b	<u>7.00</u>	s.u.	±0.15 s.u.	<u>I</u>	<u>I</u>	Proactive	3GE1252	May-25	
pH 10.00b	<u>10.06</u>	s.u.	±0.15 s.u.	<u>I</u>	<u>I</u>	Proactive	3GE0965	May-25	
SC 1000	<u>1023</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	Reagents	8405243	Jun-26	

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <u>1600</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.03</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	023310-01	11/10/2025
pH 7.00a	<u>7.02</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	024145-01	5/29/2026
pH 10.00a	<u>10.05</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	024072-02	3/21/2026
SC 1000	<u>1010</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	<u>I</u>	Spectrum	2NA0024	Dec-25
DO (Zero pt)	<u>0.0</u>	mg/L	±0.1 mg/L	<u>I</u>	<u>I</u>	<u>I</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:

Signature: <u>Austin M</u>	Date: <u>20-Jan-25</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel:		Jordan Bohannan		Location:		Duck Creek			
Weather:		6°F, 10 mph winds, Sunny		Environment:		Landfill, Grassy			
Multiparameter Water Meter		Make:	Horiba	Model:	U-5000	Serial Number: 3T85 NNNF			
Water Level Meter		Make:	Heron	Model:	Dipper-T	Serial Number: 19FF 2111 92HB			
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	023310-01	11/10/2025
pH 7.00a	6.81	s.u.	±0.1 s.u.	F	Yes	7.00	MSI	024145-01	5/29/2026
pH 10.00a	10.01	s.u.	±0.1 s.u.	P	No	N/A	MSI	024072-02	3/21/2026
SC Zero (DI)	0.00	µS/cm	0<25 µS/cm	P	No	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2011	µS/cm	±5%	P	No	N/A	Proactive	4GJ1615	Oct-25
ORP	232	mV	±15 mV	P	No	N/A	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	0.00	mg/L	±0.1	P	No	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	100	%	97-100%	P	No	N/A	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU	P	No	N/A	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 8 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.	P	None	Proactive	3GE1074	May-25	
pH 7.00b	6.98	s.u.	±0.15 s.u.	P	None	Proactive	3GE1252	May-25	
pH 10.00b	9.98	s.u.	±0.15 s.u.	P	None	Geotech	3GA1134	Jan-25	
SC 1000	1005	µS/cm	±5%	P	None	Spectrum	2NA0056	Dec-25	
Approx. every 8 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	NO	N/A	MSI	023310-01	11/10/2025
pH 7.00a	7.02	s.u.	±0.1 s.u.				MSI	024145-01	5/29/2026
pH 10.00a	10.03	s.u.	±0.1 s.u.				MSI	024072-02	3/21/2026
SC 1000	1007	µS/cm	±5%				Spectrum	2NA0024	Dec-25
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 8 hrs, unless only one well									
Comments:									
Signature: Bohannan					Date: 01/20/2025				

Multiparameter Meter Field Calibration Checklist

Field Personnel:		AJW		Location:		Duck Creek			
Weather:		cloudy		Environment:		grassy, muddy			
Multiparameter Water Meter		Make:	Horiba	Model:	U-5000	Serial Number:	3T85NNWF		
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	4.15	s.u.	±0.1 s.u.	F	yes	4.00	MSI	023310-01	11/10/2025
pH 7.00a	6.93	s.u.	±0.1 s.u.	P	No	N/A	MSI	024145-01	5/29/2026
pH 10.00a	10.30	s.u.	±0.1 s.u.	F	yes	10.00	MSI	024072-02	3/21/2026
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm	P	No	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2010	µS/cm	±5%	P	No	N/A	Proactive	4GJ1615	Oct-25
ORP	242	mV	±15 mV	P	No	N/A	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	0.0	mg/L	±0.1	P	No	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	98.5	%	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 8 hrs, unless only one well

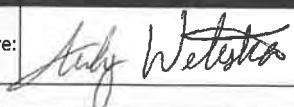
ICV (Initial Calibration Verification)					Time:	9:15			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.07	s.u.	±0.15 s.u.	P	No	Proactive	3GE1074	May-25	
pH 7.00b	7.02	s.u.	±0.15 s.u.	P	No	Proactive	3GE1252	May-25	
pH 10.00b	9.98	s.u.	±0.15 s.u.	P	No	Proactive	3GE0965	May-25	
SC 1000	1030	µS/cm	±5%	P	No	Reagents	8405243	Jun-26	

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	15:10			
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	023310-01	11/10/2025
pH 7.00a	6.97	s.u.	±0.1 s.u.	P	No	N/A	MSI	024145-01	5/29/2026
pH 10.00a	9.96	s.u.	±0.1 s.u.	P	No	N/A	MSI	024072-02	3/21/2026
SC 1000	1020	µS/cm	±5%	P	No	N/A	Spectrum	2NA0024	Dec-25
DO (Zero pt)	0.0	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 8 hrs, unless only one well

Comments:

Signature:		Date:	01/22/25
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Jordan Bohannon</u>			Location: <u>Duck Creek</u>						
Weather:			Environment: <u>grass, mvt</u>						
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>US000</u>	Serial Number: <u>WV683C85</u>					
Water Level Meter		Make: <u>Heron</u>	Model: <u>Dipart</u>	Serial Number: <u>19FF211192HB</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	023310-01	11/10/2025
pH 7.00a	<u>7.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>P</u>	<u>P</u>	MSI	024145-01	5/29/2026
pH 10.00a	<u>10.04</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>P</u>	<u>P</u>	MSI	024072-02	3/21/2026
SC Zero (DI)	<u>0.0</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>P</u>	<u>P</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2040</u>	µS/cm	±5%	<u>P</u>	<u>P</u>	<u>P</u>	Proactive	4GJ1615	Oct-25
ORP	<u>240</u>	mV	±15 mV	<u>P</u>	<u>P</u>	<u>P</u>	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	<u>0.00</u>	mg/L	±0.1	<u>P</u>	<u>P</u>	<u>P</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>100</u>	%	97-100%	<u>P</u>	<u>P</u>	<u>P</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>P</u>	<u>P</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <u>1000</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>3.98</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Proactive	3GE1074	May-25	
pH 7.00b	<u>6.91</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>P</u>	Proactive	3GE1252	May-25	
pH 10.00b	<u>10.07</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>P</u>	Geotech	3GA1134	Jan-25	
SC 1000	<u>987</u>	µS/cm	±5%	<u>P</u>	<u>P</u>	Spectrum	2NA0056	Dec-25	

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <u>1500</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.07</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	023310-01	11/10/2025
pH 7.00a	<u>7.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>P</u>	<u>P</u>	MSI	024145-01	5/29/2026
pH 10.00a	<u>10.08</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>P</u>	<u>P</u>	MSI	024072-02	3/21/2026
SC 1000	<u>990</u>	µS/cm	±5%	<u>P</u>	<u>P</u>	<u>P</u>	Spectrum	2NA0024	Dec-25
DO (Zero pt)	<u>0.00</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>P</u>	<u>P</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>P</u>	<u>P</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:	
Signature: <u>[Signature]</u>	Date: <u>1/27/2025</u>

For Jordan Bohannon

Multiparameter Meter Field Calibration Checklist

Field Personnel:		AJW		Location:		Duck Creek			
Weather:		Sunny 29°-48° W mph Wind SW		Environment:		grassy, muddy, dusty			
Multiparameter Water Meter		Make:	Horiba	Model:	U-5000	Serial Number:		3T85NNNF	
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	4.13	s.u.	±0.1 s.u.	F	yes	4.00	MSI	023310-01	11/10/2025
pH 7.00a	6.76	s.u.	±0.1 s.u.	F	yes	7.00	MSI	024145-01	5/29/2026
pH 10.00a	10.22	s.u.	±0.1 s.u.	F	yes	10.00	MSI	024072-02	3/21/2026
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm	P	No	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2020	µS/cm	±5%	P	No	N/A	Proactive	4GJ1615	Oct-25
ORP	245	mV	±15 mV	P	No	N/A	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	0.0	mg/L	±0.1	P	No	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	98.3	%	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 8 hrs, unless only one well

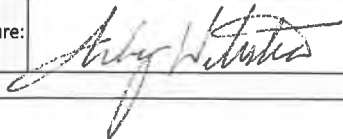
ICV (Initial Calibration Verification)					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	3.90	s.u.	±0.15 s.u.	P	No	Proactive	3GE1074	May-25	
pH 7.00b	6.99	s.u.	±0.15 s.u.	P	No	Proactive	3GE1252	May-25	
pH 10.00b	9.88	s.u.	±0.15 s.u.	P	No	Proactive	3GE0965	May-25	
SC 1000	968	µS/cm	±5%	P	No	Reagents	8405243	Jun-26	

Approx. every 8 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	4.06	s.u.	±0.1 s.u.	P	N/A	N/A	MSI	023310-01	11/10/2025
pH 7.00a	6.94	s.u.	±0.1 s.u.	P	N/A	N/A	MSI	024145-01	5/29/2026
pH 10.00a	9.98	s.u.	±0.1 s.u.	P	N/A	N/A	MSI	024072-02	3/21/2026
SC 1000	1010	µS/cm	±5%	P	N/A	N/A	Spectrum	2NA0024	Dec-25
DO (Zero pt)	0.0	mg/L	±0.1 mg/L	P	N/A	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	N/A	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:

Signature:		Date:	01/28/25
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>AP</u>				Location: <u>Duck Creek</u>					
Weather: <u>40-51° sunny wind SE 11 mph</u>				Environment: <u>grass, dirt, ice</u>					
Multiparameter Water Meter		Make: <u>Hanna</u>	Model: <u>US000</u>	Serial Number: <u>A65TH4XL6</u>					
Water Level Meter		Make: <u>Hanna</u>	Model: <u>D-900</u>	Serial Number: <u>19FF21101SHB</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	023310-01	11/10/2025
pH 7.00a	<u>5.04</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024145-01	5/29/2026
pH 10.00a	<u>10.00</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024072-02	3/21/2026
SC Zero (DI)	<u>0.0</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2000</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Proactive	4GJ1615	Oct-25
ORP	<u>238</u>	mV	±15 mV	<u>P</u>	<u>NO</u>	<u>N/A</u>	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1	<u>P</u>	<u>NO</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>98.6</u>	%	97-100%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>0940</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>3.99</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Proactive	3GE1074	May-25	
pH 7.00b	<u>6.90</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Proactive	3GE1252	May-25	
pH 10.00b	<u>10.08</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Proactive	3GE0965	May-25	
SC 1000	<u>1010</u>	µS/cm	±5%	<u>P</u>	<u>N/A</u>	Reagents	8405243	Jun-26	

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>1430</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.06</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	023310-01	11/10/2025
pH 7.00a	<u>7.03</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024145-01	5/29/2026
pH 10.00a	<u>10.08</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024072-02	3/21/2026
SC 1000	<u>1030</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Spectrum	2NA0024	Dec-25
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NO</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:

Signature: <u>[Signature]</u>	Date: <u>1/29/25</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Austin Moore</i>		Location: <i>duck creek</i>	
Weather: <i>51°-32° sunny wind 11 mph NW</i>		Environment: <i>landfill, woods</i>	
Multiparameter Water Meter	Make: <i>Horiba</i>	Model: <i>U-5000</i>	Serial Number: <i>3T85N111F</i>
Water Level Meter	Make: <i>Heron</i>	Model: <i>WT</i>	Serial Number: <i>3717-T</i>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.01</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N/A</i>	<i>N/A</i>	MSI	023310-01	11/10/2025
pH 7.00a	<i>7.07</i>	s.u.	±0.1 s.u.	<i>I</i>	<i>I</i>	<i>I</i>	MSI	024145-01	5/29/2026
pH 10.00a	<i>10.03</i>	s.u.	±0.1 s.u.	<i>I</i>	<i>I</i>	<i>I</i>	MSI	024072-02	3/21/2026
SC Zero (DI)	<i>0.0</i>	µS/cm	0<25 µS/cm	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2008</i>	µS/cm	±5%	<i>I</i>	<i>I</i>	<i>I</i>	Proactive	4GJ1615	Oct-25
ORP	<i>237</i>	mV	±15 mV	<i>I</i>	<i>I</i>	<i>I</i>	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	<i>0.0</i>	mg/L	±0.1	<i>I</i>	<i>I</i>	<i>I</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>98.9</i>	%	97-100%	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <i>0957</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<i>4.02</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N</i>	Proactive	3GE1074	May-25
pH 7.00b	<i>7.05</i>	s.u.	±0.15 s.u.	<i>I</i>	<i>I</i>	Proactive	3GE1252	May-25
pH 10.00b	<i>10.02</i>	s.u.	±0.15 s.u.	<i>I</i>	<i>I</i>	Proactive	3GE0965	May-25
SC 1000	<i>1025</i>	µS/cm	±5%	<i>I</i>	<i>I</i>	Reagents	8405243	Jun-26

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <i>1557</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>N</i>	<i>N/A</i>	MSI	023310-01	11/10/2025
pH 7.00a	<i>7.06</i>	s.u.	±0.1 s.u.	<i>I</i>	<i>I</i>	<i>I</i>	MSI	024145-01	5/29/2026
pH 10.00a	<i>10.04</i>	s.u.	±0.1 s.u.	<i>I</i>	<i>I</i>	<i>I</i>	MSI	024072-02	3/21/2026
SC 1000	<i>1015</i>	µS/cm	±5%	<i>I</i>	<i>I</i>	<i>I</i>	Spectrum	2NA0024	Dec-25
DO (Zero pt)	<i>0.0</i>	mg/L	±0.1 mg/L	<i>I</i>	<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>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:

Signature: <i>AMM</i>	Date: <i>29-Jan-25</i>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: AJW			Location: Duck Creek						
Weather: Cloudy 36°-43° 11mph Wind S			Environment: grass, mud						
Multiparameter Water Meter		Make: Hanna	Model: U-5000	Serial Number: V7320PRK					
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	4.38	s.u.	±0.1 s.u.	F	yes	4.01	MSI	023310-01	11/10/2025
pH 7.00a	6.92	s.u.	±0.1 s.u.	P	NO	NA	MSI	024145-01	5/29/2026
pH 10.00a	10.01	s.u.	±0.1 s.u.	P	NO	NA	MSI	024072-02	3/21/2026
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm	P	NO	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2040	µS/cm	±5%	P	NO	NA	Proactive	4GJ1615	Oct-25
ORP	245	mV	±15 mV	P	NO	NA	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	0.0	mg/L	±0.1	P	NO	NA	Macron	#000228049	8/26/2025
DO (Saturated)	99.4	%	97-100%	P	NO	NA	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	NO	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

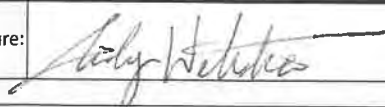
ICV (Initial Calibration Verification)					Time: 8:18			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.73	s.u.	±0.15 s.u.	F	yes / 4.00	Proactive	3GE1074	May-25
pH 7.00b	6.97	s.u.	±0.15 s.u.	P	NO	Proactive	3GE1252	May-25
pH 10.00b	9.89	s.u.	±0.15 s.u.	P	NO	Proactive	3GE0965	May-25
SC 1000	1020	µS/cm	±5%	P	NO	Reagents	8405243	Jun-26

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 13:30				
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	NO	NA	MSI	023310-01	11/10/2025
pH 7.00a	7.02	s.u.	±0.1 s.u.	P	NO	NA	MSI	024145-01	5/29/2026
pH 10.00a	10.00	s.u.	±0.1 s.u.	P	NO	NA	MSI	024072-02	3/21/2026
SC 1000	1030	µS/cm	±5%	P	NO	NA	Spectrum	2NA0024	Dec-25
DO (Zero pt)	0.0	mg/L	±0.1 mg/L	P	NO	NA	Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	NO	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:

Signature: 	Date: 01/30/25
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ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2025
DUCK CREEK POWER PLANT
GYPSUM MANAGEMENT FACILITY (GMF) POND
CANTON, IL



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

April 09, 2025

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.

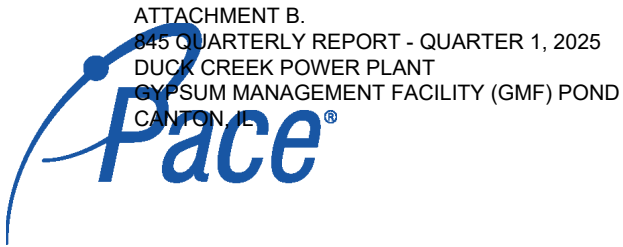
If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

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 cursive script, appearing to read "Diane Billings".

Diane Billings
Project Manager



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

Case Narrative

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ANALYTICAL RESULTS

Sample: IC03414-01
Name: X301
Matrix: Ground Water - Grab

Sampled: 03/19/25 12:29
Received: 03/19/25 13:30
PO #: 2649442/2649410

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	190	mg/L		03/26/25 01:24	100	100	03/26/25 01:24	JSM	EPA 300.0 REV 2.1
Sulfate	330	mg/L		03/26/25 01:24	100	100	03/26/25 01:24	JSM	EPA 300.0 REV 2.1
Field - PIA									
Dissolved oxygen, Field	10	mg/L		03/19/25 12:29	1		03/19/25 12:29	AJW	Field*
Oxidation Reduction Potential	363	mV		03/19/25 12:29	1	-500	03/19/25 12:29	AJW	Field*
pH, Field Measured	7.51	pH Units		03/19/25 12:29	1		03/19/25 12:29	AJW	Field*
Specific Conductance, Field Measured	6780	umhos/cm		03/19/25 12:29	1		03/19/25 12:29	AJW	Field*
Temperature, Field Measured	16.0	°C		03/19/25 12:29	1		03/19/25 12:29	AJW	Field*
Turbidity, Field Measured	80.7	NTU		03/19/25 12:29	1	0.00	03/19/25 12:29	AJW	Field*
General Chemistry - PIA									
Fluoride	14.9	mg/L	Q4	03/27/25 15:31	10	2.50	03/27/25 17:01	TTH/CRD	SM 4500-F C-2011
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	7500	mg/L		03/24/25 09:36	1	26	03/24/25 13:21	CFM	SM 2540 C-2011
Total Metals - PIA									
Antimony	< 3.0	ug/L		03/24/25 10:49	5	3.0	03/25/25 10:52	BRS	EPA 6020A
Arsenic	4.8	ug/L		03/24/25 10:49	5	1.0	03/25/25 10:52	BRS	EPA 6020A
Barium	160	ug/L		03/24/25 10:49	5	1.0	03/25/25 10:52	BRS	EPA 6020A
Beryllium	< 1.0	ug/L		03/24/25 10:49	5	1.0	03/25/25 10:52	BRS	EPA 6020A
Boron	44000	ug/L		03/24/25 10:49	50	100	04/01/25 10:01	TJJ	EPA 6020A
Cadmium	2.9	ug/L		03/24/25 10:49	5	1.0	03/25/25 10:52	BRS	EPA 6020A
Calcium	970	mg/L		03/24/25 10:49	50	2.0	03/25/25 11:00	BRS	EPA 6020A
Chromium	32	ug/L		03/24/25 10:49	5	4.0	03/25/25 10:52	BRS	EPA 6020A
Cobalt	4.6	ug/L		03/24/25 10:49	5	2.0	03/25/25 10:52	BRS	EPA 6020A
Lead	7.7	ug/L		03/24/25 10:49	5	1.0	03/25/25 10:52	BRS	EPA 6020A
Mercury	6.0	ug/L		03/24/25 10:49	5	0.20	03/25/25 10:52	BRS	EPA 6020A
Molybdenum	100	ug/L		03/24/25 10:49	5	1.0	03/25/25 10:52	BRS	EPA 6020A
Selenium	400	ug/L		03/24/25 10:49	5	1.0	03/25/25 10:52	BRS	EPA 6020A
Thallium	< 1.0	ug/L		03/24/25 10:49	5	1.0	03/25/25 10:52	BRS	EPA 6020A
Lithium	0.066	mg/L		03/24/25 10:49	1	0.020	03/28/25 11:12	TJJ	EPA 6010B

ANALYTICAL RESULTS

Sample: IC04279-01
Name: G60L
Matrix: Ground Water - Grab

Sampled: 03/26/25 11:15
Received: 03/26/25 12:31
PO #: 2649442/2649410

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	15.53	Feet		03/26/25 11:15	1		03/26/25 11:15	APP	Field*
Dissolved oxygen, Field	0.0	mg/L		03/26/25 11:15	1		03/26/25 11:15	APP	Field*
Oxidation Reduction Potential	144	mV		03/26/25 11:15	1	-500	03/26/25 11:15	APP	Field*
pH, Field Measured	6.41	pH Units		03/26/25 11:15	1		03/26/25 11:15	APP	Field*
Specific Conductance, Field Measured	615.0	umhos/cm		03/26/25 11:15	1		03/26/25 11:15	APP	Field*
Temperature, Field Measured	12.3	°C		03/26/25 11:15	1		03/26/25 11:15	APP	Field*
Turbidity, Field Measured	43.5	NTU		03/26/25 11:15	1	0.00	03/26/25 11:15	APP	Field*
Total Metals - PIA									
Cobalt	8.5	ug/L		03/27/25 08:52	5	2.0	04/04/25 12:42	TJJ	EPA 6020A

Sample: IC04279-02
Name: Field Blank
Matrix: Ground Water - Grab

Sampled: 03/26/25 11:22
Received: 03/26/25 12:31
PO #: 2649442/2649410

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Cobalt	< 2.0	ug/L		03/27/25 08:52	5	2.0	04/04/25 12:56	TJJ	EPA 6020A

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B528135 - No Prep - SM 2540 C-2011</u>									
Blank (B528135-BLK1)				Prepared & Analyzed: 03/24/25					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B528135-BS1)				Prepared & Analyzed: 03/24/25					
Solids - total dissolved solids (TDS)	973	mg/L		1000		97	84.4-107		
Duplicate (B528135-DUP1)				Prepared & Analyzed: 03/24/25					
Solids - total dissolved solids (TDS)	197	mg/L			200			2	5
Duplicate (B528135-DUP2)				Prepared & Analyzed: 03/24/25					
Solids - total dissolved solids (TDS)	257	mg/L	M		273			6	5
<u>Batch B528169 - SW 3015 - EPA 6010B</u>									
Blank (B528169-BLK1)				Prepared: 03/24/25 Analyzed: 03/28/25					
Lithium	< 0.020	mg/L							
LCS (B528169-BS1)				Prepared: 03/24/25 Analyzed: 03/28/25					
Lithium	0.526	mg/L		0.5556		95	80-120		
<u>Batch B528169 - SW 3015 - EPA 6020A</u>									
Blank (B528169-BLK1)				Prepared: 03/24/25 Analyzed: 03/25/25					
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							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Selenium	< 1.0	ug/L							
Thallium	< 1.0	ug/L							
LCS (B528169-BS1)				Prepared: 03/24/25 Analyzed: 03/25/25					
Antimony	557	ug/L		555.6		100	80-120		
Arsenic	579	ug/L		555.6		104	80-120		
Barium	599	ug/L		555.6		108	80-120		
Beryllium	577	ug/L		555.6		104	80-120		
Boron	540	ug/L		555.6		97	80-120		
Cadmium	574	ug/L		555.6		103	80-120		
Calcium	5.52	mg/L		5.556		99	80-120		
Chromium	579	ug/L		555.6		104	80-120		
Cobalt	587	ug/L		555.6		106	80-120		
Lead	611	ug/L		555.6		110	80-120		
Mercury	55.9	ug/L		55.56		101	80-120		
Molybdenum	564	ug/L		555.6		102	80-120		
Selenium	588	ug/L		555.6		106	80-120		

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B528169-BS1)				Prepared: 03/24/25 Analyzed: 03/25/25					
Thallium	613	ug/L		555.6		110	80-120		
Matrix Spike (B528169-MS1)				Sample: IC02769-01 Prepared: 03/24/25 Analyzed: 03/25/25					
Antimony	534	ug/L		555.6	ND	96	75-125		
Arsenic	569	ug/L		555.6	1.51	102	75-125		
Barium	671	ug/L		555.6	68.5	108	75-125		
Beryllium	576	ug/L		555.6	ND	104	75-125		
Cadmium	580	ug/L		555.6	ND	104	75-125		
Calcium	26.5	mg/L		5.556	21.0	98	75-125		
Chromium	584	ug/L		555.6	7.51	104	75-125		
Cobalt	593	ug/L		555.6	2.35	106	75-125		
Lead	611	ug/L		555.6	5.01	109	75-125		
Mercury	57.4	ug/L		55.56	0.461	103	75-125		
Molybdenum	577	ug/L		555.6	2.34	103	75-125		
Selenium	569	ug/L		555.6	1.27	102	75-125		
Thallium	609	ug/L		555.6	ND	110	75-125		
Matrix Spike Dup (B528169-MSD1)				Sample: IC02769-01 Prepared: 03/24/25 Analyzed: 03/25/25					
Antimony	534	ug/L		555.6	ND	96	75-125	0.005	20
Arsenic	555	ug/L		555.6	1.51	100	75-125	3	20
Barium	649	ug/L		555.6	68.5	104	75-125	3	20
Beryllium	563	ug/L		555.6	ND	101	75-125	2	20
Cadmium	563	ug/L		555.6	ND	101	75-125	3	20
Calcium	26.3	mg/L		5.556	21.0	94	75-125	0.8	20
Chromium	572	ug/L		555.6	7.51	102	75-125	2	20
Cobalt	585	ug/L		555.6	2.35	105	75-125	1	20
Lead	601	ug/L		555.6	5.01	107	75-125	2	20
Mercury	57.2	ug/L		55.56	0.461	102	75-125	0.4	20
Molybdenum	562	ug/L		555.6	2.34	101	75-125	2	20
Selenium	562	ug/L		555.6	1.27	101	75-125	1	20
Thallium	599	ug/L		555.6	ND	108	75-125	2	20
<u>Batch B528400 - IC No Prep - EPA 300.0 REV 2.1</u>									
Blank (B528400-BLK1)				Prepared & Analyzed: 03/25/25					
Sulfate	< 1.0	mg/L							
Chloride	< 1.0	mg/L							
Calibration Blank (B528400-CCB1)				Prepared & Analyzed: 03/25/25					
Sulfate	0.00	mg/L							
Chloride	0.00	mg/L							
Calibration Check (B528400-CCV1)				Prepared & Analyzed: 03/25/25					
Chloride	5.18	mg/L		5.000		104	90-110		
Sulfate	4.99	mg/L		5.000		100	90-110		
Matrix Spike (B528400-MS1)				Sample: IC03796-01 Prepared & Analyzed: 03/25/25					
Chloride	1.0E9	mg/L	Q4	1.500	64	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	17.7	NR	80-120		
Matrix Spike (B528400-MS2)				Sample: IC03796-11 Prepared & Analyzed: 03/25/25					
Chloride	1.0E9	mg/L	Q4	1.500	61	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	17.8	NR	80-120		
Matrix Spike (B528400-MS3)				Sample: IC03796-21 Prepared & Analyzed: 03/25/25					

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (B528400-MS3)									
Sample: IC03796-21				Prepared & Analyzed: 03/25/25					
Sulfate	1.00E9	mg/L	Q4	1.500	18.0	NR	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	63	NR	80-120		
Matrix Spike Dup (B528400-MSD1)									
Sample: IC03796-01				Prepared & Analyzed: 03/25/25					
Chloride	1.0E9	mg/L	Q4	1.500	64	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4	1.500	17.7	NR	80-120	0	20
Matrix Spike Dup (B528400-MSD2)									
Sample: IC03796-11				Prepared & Analyzed: 03/25/25					
Sulfate	1.00E9	mg/L	Q4	1.500	17.8	NR	80-120	0	20
Chloride	1.0E9	mg/L	Q4	1.500	61	NR	80-120	0	20
Matrix Spike Dup (B528400-MSD3)									
Sample: IC03796-21				Prepared & Analyzed: 03/25/25					
Sulfate	1.00E9	mg/L	Q4	1.500	18.0	NR	80-120	0	20
Chloride	1.0E9	mg/L	Q4	1.500	63	NR	80-120	0	20
<u>Batch B528499 - SW 3015 - EPA 6020A</u>									
Blank (B528499-BLK1)									
				Prepared: 03/27/25 Analyzed: 04/04/25					
Cobalt	< 2.0	ug/L							
LCS (B528499-BS1)									
				Prepared: 03/27/25 Analyzed: 04/04/25					
Cobalt	546	ug/L		555.6		98	80-120		
Matrix Spike (B528499-MS1)									
Sample: IC04279-01				Prepared: 03/27/25 Analyzed: 04/04/25					
Cobalt	544	ug/L		555.6	8.54	96	75-125		
Matrix Spike Dup (B528499-MSD1)									
Sample: IC04279-01				Prepared: 03/27/25 Analyzed: 04/04/25					
Cobalt	546	ug/L		555.6	8.54	97	75-125	0.3	20
<u>Batch B528540 - No Prep - SM 4500-F C-2011</u>									
Calibration Blank (B528540-CCB1)									
				Prepared & Analyzed: 03/27/25					
Fluoride	0.0180	mg/L							
Calibration Blank (B528540-CCB2)									
				Prepared & Analyzed: 03/27/25					
Fluoride	0.0210	mg/L							
Calibration Check (B528540-CCV1)									
				Prepared & Analyzed: 03/27/25					
Fluoride	0.736	mg/L		0.7000		105	90-110		
Calibration Check (B528540-CCV2)									
				Prepared & Analyzed: 03/27/25					
Fluoride	0.711	mg/L		0.7000		102	90-110		
Matrix Spike (B528540-MS7)									
Sample: IC01845-01				Prepared & Analyzed: 03/27/25					
Fluoride	1.71	mg/L		1.000	0.669	104	80-120		
Matrix Spike (B528540-MS8)									
Sample: IC03414-01				Prepared & Analyzed: 03/27/25					
Fluoride	12.6	mg/L	Q4	1.000	14.9	NR	80-120		
Matrix Spike Dup (B528540-MSD2)									
Sample: IC03878-01				Prepared & Analyzed: 03/27/25					
Fluoride	1.66	mg/L		1.000	0.661	100	80-120	0.06	20
Matrix Spike Dup (B528540-MSD7)									
Sample: IC01845-01				Prepared & Analyzed: 03/27/25					
Fluoride	1.76	mg/L		1.000	0.669	109	80-120	2	20
Matrix Spike Dup (B528540-MSD8)									
Sample: IC03414-01				Prepared & Analyzed: 03/27/25					
Fluoride	12.9	mg/L	Q4	1.000	14.9	NR	80-120	3	20

NOTES

Specifications regarding method revisions and method modifications 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.
- 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



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

Page: 1 of 10

IC03414

[illegible]

ENV-FRM-PECR-0058 v04 Sample Condition Upon Receipt

Client Name: Vistra Corp. - Duck Creek Work Order #: 03414 Completed by / Date: JPB 3/19/25

Custody seal on cooler/box present and seal intact:	☐ Yes ☐ No ☒ N/A
Chain of Custody (CoC) Present:	☒ Yes ☐ No
CoC is Legible:	☒ Yes ☐ No
Sampler Name Present on CoC:	☒ Yes ☐ No
Sampler Signature Present on CoC:	☒ Yes ☐ No
Sample Collection Date Present on CoC:	☒ Yes ☐ No
Sample Collection Time Present on CoC:	☒ Yes ☐ No
CoC Relinquished by Client:	☒ Yes ☐ No
Unique Sample ID's Present on CoC:	☒ Yes ☐ No
CoC and Sample Container Labels Match:	☒ Yes ☐ No
Sample chilling process started prior to receipt: If yes, what type of ice:	☒ Yes ☐ No ☐ N/A ☒ Wet ☐ Blue
Samples received within temperature compliance: ($\leq 6^{\circ}\text{C}$, but above freezing or received same day collected and chill process started prior to receipt)	☒ Yes ☐ No ☐ N/A
Container(s) Received Intact:	☒ Yes ☐ No
Containers Received Labeled and Labels are Legible:	☒ Yes ☐ No
Appropriate Bottles Received for Analysis Requested:	☒ Yes ☐ No
Sufficient Sample Volume Received:	☒ Yes ☐ No
USDA Regulated Soil: Country of Origin: _____ State of Origin: _____	☐ Yes ☐ No ☒ N/A
Trip Blank(s) Received: If present, are they Listed on CoC:	☐ Yes ☐ No ☒ N/A ☐ Yes ☐ No
VOA vials are free of any headspace larger than pea sized bubble (>6mm) – Applies to methods 8260, 624, 524.2 - including THM vials If headspace is present, note sample ID and # of vials	☐ Yes ☐ No ☒ N/A
All (Non-Field) Analysis Received Within Hold Times:	☒ Yes ☐ No
Rush Turn Around Time Requested:	☐ Yes ☒ No
Short Hold Time Analysis (48 Hours or Less):	☐ Yes ☒ No

Client Notification/ Resolution:

If checked, please see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample.

	Plastic Bottles									
	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10
P, U, 1000ml - Total	1	1								
P, U, 250ml										
P, U, 500ml - Total	1									
P, U, 500ml - Diss										
P, 250ml/500ml H ₂ SO ₄ - Total										
P, 250ml/500ml H ₂ SO ₄ - Diss										
P, 250ml/500ml NaOH										
P, 250ml/500ml HNO ₃ - Total	1	2	1							
P, 250ml/500ml HNO ₃ - Diss										
P, 500ml NaOH + ZnAc										
P, U, 150ml/4oz TC										
P, 2.5L HNO ₃										
P, U, 2.5L										
P, U, 50ml										
S, P, 120ml Na ₂ S ₂ O ₃										
P, 16oz - Soil/Sludge										
	Amber Glass Bottles - Vials									
A, G, U, 1000ml										
A, G, 1000ml HCl										
A, G, 1000ml MeCl ₂										
A, G, 500ml H ₂ SO ₄										
A, G, U, 500ml										
A, G, 250ml H ₂ SO ₄										
A, G, U, 250ml										
A, V, 40ml H ₂ SO ₄										
A, V, U, 60ml										
	Clear Glass Bottles - Soil/Sludge Jars - Vials									
C, G, 1000ml HCl										
C, G, U, 1000ml										
C, G, U, 250ml - LLHg										
C, G, U, 250ml - LLHg - FB										
C, G, 16oz - Soil Jar										
C, G, 9oz - Soil Jar										
C, G, 4oz - Soil Jar										
C, G, 2oz - Soil Jar										
C, V, 40ml TSP										
C, V, 40ml HCl										
C, V, U, 40ml										
C, V, 40ml Na ₂ S ₂ O ₃										
C, V, 40ml MeOH										
C, V, 40ml Sodium Bisulfate										
C, V, U, 60ml										
	Client Supplied									
Description										

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

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ENV-FRM-PCOR-0098 v04 Sample Condition Upon Receipt

Client Name: Ustia Work Order #: 1C04279 Completed by / Date: JD 3/26/25

Custody seal on cooler/box present and seal intact:	☐ Yes ☐ No ☒ N/A
Chain of Custody (CoC) Present:	☒ Yes ☐ No
CoC is Legible:	☒ Yes ☐ No
Sampler Name Present on CoC:	☒ Yes ☐ No
Sampler Signature Present on CoC:	☒ Yes ☐ No
Sample Collection Date Present on CoC:	☒ Yes ☐ No
Sample Collection Time Present on CoC:	☒ Yes ☐ No
CoC Relinquished by Client:	☒ Yes ☐ No
Unique Sample ID's Present on CoC:	☒ Yes ☐ No
CoC and Sample Container Labels Match:	☒ Yes ☐ No
Sample chilling process started prior to receipt:	☐ Yes ☐ No ☒ N/A
If yes, what type of ice:	☐ Wet ☐ Blue
Samples received within temperature compliance: ($\leq 6^{\circ}\text{C}$, but above freezing or received same day collected and chill process started prior to receipt)	☒ Yes ☐ No ☐ N/A
Container(s) Received Intact:	☒ Yes ☐ No
Containers Received Labeled and Labels are Legible:	☒ Yes ☐ No
Appropriate Bottles Received for Analysis Requested:	☒ Yes ☐ No
Sufficient Sample Volume Received:	☒ Yes ☐ No
USDA Regulated Soil:	
Country of Origin:	☐ Yes ☐ No ☒ N/A
State of Origin:	
Trip Blank(s) Received:	☐ Yes ☐ No ☒ N/A
If present, are they Listed on CoC:	☐ Yes ☐ No
VOA vials are free of any headspace larger than pea sized bubble ($>6\text{mm}$) - Applies to methods 8260, 624, 524.2 - including THM vials	☐ Yes ☐ No ☒ N/A
If headspace is present, note sample ID and # of vials	
All (Non-Field) Analysis Received Within Hold Times:	☒ Yes ☐ No
Rush Turn Around Time Requested:	☐ Yes ☒ No
Short Hold Time Analysis (48 Hours or Less):	☐ Yes ☒ No

If checked, please see attached form for additional comments ☐

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample.

Qualtrax ID: 296090

Effective Date: 03/01/25

Pace® Analytical Services, LLC (PAS)

	Plastic Bottles									
	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10
P, U, 1000ml - Total										
P, U, 250ml										
P, U, 500ml - Total										
P, U, 500ml - Diss										
P, 250ml/500ml H ₂ SO ₄ - Total										
P, 250ml/500ml H ₂ SO ₄ - Diss										
P, 250ml/500ml NaOH										
P, 250ml/500ml HNO ₃ - Total										
P, 250ml/500ml HNO ₃ - Diss										
P, 500ml NaOH + ZnAc										
P, U, 150ml/4oz TC										
P, 2.5L HNO ₃										
P, U, 2.5L										
P, U, 50ml										
S, P, 120ml Na ₂ S ₂ O ₃										
P, 16oz - Soil/Sludge										

Amber Glass Bottles - Vials

A, G, U, 1000ml										
A, G, 1000ml HCl										
A, G, 1000ml MeCl ₂										
A, G, 500ml H ₂ SO ₄										
A, G, U, 500ml										
A, G, U, 250ml H ₂ SO ₄										
A, G, U, 250ml										
A, V, 40ml H ₂ SO ₄										
A, V, U, 60ml										

Clear Glass Bottles - Soil/Sludge Jars - Vials

C, G, 1000ml HCl										
C, G, U, 1000ml										
C, G, U, 250ml - LLHg										
C, G, U, 250ml - LLHg - FB										
C, G, 16oz - Soil Jar										
C, G, 9oz - Soil Jar										
C, G, 4oz - Soil Jar										
C, G, 2oz - Soil Jar										
C, V, 40ml TSP										
C, V, 40ml HCl										
C, V, U, 40ml										
C, V, 40ml Na ₂ S ₂ O ₃										
C, V, 40ml MeOH										
C, V, 40ml Sodium Bisulfate										
C, V, U, 60ml										

Client Supplied

Description

Duck Creek

WELL/SAMPLE POINT G60L

Purge Method: Peristaltic w/ dedicated tubing

Date: 3/26/2025 Start Time: 1022

Finish/Sample Time: 1115

Well Depth (Bottom) From MP: 27.00 ft

Min. Purge Volume: 1000 mL

Depth to Water From MP: 15.53 ft

Total Purge Volume: 1900 mL

Water Column Length: 11.47 ft

Well Water Volume: 6.94 L

Total Drawdown: 3.67 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	17.95	100	7.20	621	11.76	94	0.00	56.4
2	1051	18.15	100	7.39	620	11.87	108	0.00	58.2
3	1054	18.38	100	6.97	615	12.00	123	0.00	46.7
4	1057	18.61	100	6.72	612	12.05	132	0.00	49.0
5	1100	18.88	100	6.56	612	12.15	139	0.00	44.8
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

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, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P,500mL)
	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

①

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Final DTW: 19.20 ft

Comments

Field reads continue on to next page

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **G60L (Cont.)**

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)
6	1103	19.08	100	6.50	612	12.19	142	0.00	43.9
7	1106	19.31	100	6.44	614	12.28	143	0.00	43.0
8	1109	19.53	100	6.41	615	12.29	144	0.00	43.5
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Comments

Sampler's Signature: 

Multiparameter Meter Field Calibration Checklist

Field Personnel: Aaron Amberton				Location: Duck Creek					
Weather: Sunny 50°E Win 2 SE 7mph				Environment: grass					
Multiparameter Water Meter		Make: Horiba	Model: U5000	Serial Number: AGJTH4x6					
Water Level Meter		Make: Heron	Model: D1000	Serial Number: 11FF2209305ML					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.92	s.u.	±0.1 s.u.	P	Yes	4.00	MSI	023310-01	11/10/2025
pH 7.00a	6.82	s.u.	±0.1 s.u.	L	Yes	7.01	MSI	024145-01	5/29/2026
pH 10.00a	9.98	s.u.	±0.1 s.u.	P	NO	N/A	MSI	024072-02	3/21/2026
SC Zero (DI)	10	µS/cm	0<25 µS/cm	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2050	µS/cm	±5%	P	NO	N/A	Proactive	4GJ1615	Oct-25
ORP	261	mV	±15 mV	L	Yes	240	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	0.09	mg/L	±0.1	P	NO	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	98.2	%	97-100%	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	46.2	NTU	<2 NTU	L	Yes	0.0	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 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	3.99	s.u.	±0.15 s.u.	P	N/A	Proactive	3GE1074	May-25	
pH 7.00b	7.02	s.u.	±0.15 s.u.	P	N/A	Proactive	3GE1252	May-25	
pH 10.00b	10.05	s.u.	±0.15 s.u.	P	N/A	Proactive	3GE0965	May-25	
SC 1000	1040	µS/cm	±5%	P	N/A	Reagents	8405243	Jun-26	

Approx. every 8 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	023310-01	11/10/2025
pH 7.00a		s.u.	±0.1 s.u.				MSI	024145-01	5/29/2026
pH 10.00a		s.u.	±0.1 s.u.				MSI	024072-02	3/21/2026
SC 1000		µS/cm	±5%				Spectrum	2NA0024	Dec-25
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 8 hrs, unless only one well

Comments: only one well sample

Signature: 	Date: 3/26/25
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Duck Creek

WELL/SAMPLE POINT **X301 Pump House**

Purge Method:

Bailer

Date: 03/19/25 Start Time: 11:50 Finish/Sample Time: 12:29

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									
	12:15	—	—	7.51	6780	16.00	363	10.08	80.7
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter:

Hanna

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)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	Rad (P, 2.5L, HNO3)

③

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V 40mL, H2SO4)

Comments

Sampler's Signature:

[Signature]

Multiparameter Meter Field Calibration Checklist

Field Personnel: AJW				Location: Duck Creek					
Weather:				Environment: grassy, muddy					
Multiparameter Water Meter		Make: Horiba	Model: U-5000	Serial Number: 3185NNNF					
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	8.48	s.u.	±0.1 s.u.	F	YES	4.01	MSI	023310-01	11/10/2025
pH 7.00a	9.04	s.u.	±0.1 s.u.	F	YES	7.00	MSI	024145-01	5/29/2026
pH 10.00a	10.52	s.u.	±0.1 s.u.	F	YES	10.04	MSI	024072-02	3/21/2026
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2230	µS/cm	±5%	F	YES	2000	Proactive	4GJ1615	Oct-25
ORP	249	mV	±15 mV	P	NO	N/A	In-Situ	4GJ0045	Jul-25
DO (Zero pt)	0.0	mg/L	±0.1	P	NO	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	86.1	%	97-100%	F	YES	99.1	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	NO	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 11:15				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.47	s.u.	±0.15 s.u.	F	YES / 3.97	Proactive	3GE1074	May-25	
pH 7.00b	8.66	s.u.	±0.15 s.u.	F	YES / 7.02	Proactive	3GE1252	May-25	
pH 10.00b	10.91	s.u.	±0.15 s.u.	F	YES / 10.00	Proactive	3GE0965	May-25	
SC 1000	1370	µS/cm	±5%	F	YES / 1000	Reagents	8405243	Jun-26	

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1300				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.20	s.u.	±0.1 s.u.	F	YES	4.00	MSI	023310-01	11/10/2025
pH 7.00a	7.17	s.u.	±0.1 s.u.	F	YES	6.98	MSI	024145-01	5/29/2026
pH 10.00a	10.44	s.u.	±0.1 s.u.	F	YES	10.01	MSI	024072-02	3/21/2026
SC 1000	1080	µS/cm	±5%	F	YES	1000	Spectrum	2NA0024	Dec-25
DO (Zero pt)	0.0	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 8 hrs, unless only one well

Comments:

Signature: [Signature]	Date: 03/19/25
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**ATTACHMENT C
COMPARISON TO BACKGROUND
QUARTER 1, 2025**

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 1, 2025
845 QUARTERLY REPORT
DUCK CREEK POWER PLANT
GMF POND
CANTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G54L	PMP	E008	Antimony, total	mg/L	04/14/21 - 01/20/25	16	100	All ND - Last	0.003	0.003
G54L	PMP	E008	Arsenic, total	mg/L	04/14/21 - 01/20/25	16	0	CB around linear reg	-0.00252	0.00920
G54L	PMP	E008	Barium, total	mg/L	04/14/21 - 01/20/25	16	0	CI around mean	0.176	0.280
G54L	PMP	E008	Beryllium, total	mg/L	04/14/21 - 01/20/25	16	100	All ND - Last	0.001	0.001
G54L	PMP	E008	Boron, total	mg/L	04/14/21 - 01/20/25	17	16	CI around geomean	0.0138	0.210
G54L	PMP	E008	Cadmium, total	mg/L	04/14/21 - 01/20/25	16	100	All ND - Last	0.001	0.001
G54L	PMP	E008	Chloride, total	mg/L	04/14/21 - 01/20/25	17	0	CB around linear reg	51.1	17.0
G54L	PMP	E008	Chromium, total	mg/L	04/14/21 - 01/20/25	16	94	CI around median	0.004	0.00590
G54L	PMP	E008	Cobalt, total	mg/L	04/14/21 - 01/20/25	16	62	CB around T-S line	-0.00038	0.002
G54L	PMP	E008	Fluoride, total	mg/L	04/14/21 - 01/20/25	17	88	CI around median	0.25	0.498
G54L	PMP	E008	Lead, total	mg/L	04/14/21 - 01/20/25	16	89	Most recent sample	0.001	0.0150
G54L	PMP	E008	Lithium, total	mg/L	04/14/21 - 01/20/25	16	100	All ND - Last	0.02	0.02
G54L	PMP	E008	Mercury, total	mg/L	04/14/21 - 01/20/25	16	94	CI around median	0.0002	0.000980
G54L	PMP	E008	Molybdenum, total	mg/L	04/14/21 - 01/20/25	16	56	CI around median	0.001	0.00230
G54L	PMP	E008	pH (field)	SU	04/14/21 - 01/20/25	23	0	CI around median	6.5/6.6	6.6/7.4
G54L	PMP	E008	Radium 226 + Radium 228, total	pCi/L	04/14/21 - 01/20/25	16	0	CI around mean	0.39	2.00
G54L	PMP	E008	Selenium, total	mg/L	04/14/21 - 01/20/25	16	100	All ND - Last	0.001	0.00120
G54L	PMP	E008	Sulfate, total	mg/L	04/14/21 - 01/20/25	17	0	CB around linear reg	105	55.0
G54L	PMP	E008	Thallium, total	mg/L	04/14/21 - 01/20/25	16	100	All ND - Last	0.001	0.001
G54L	PMP	E008	Total Dissolved Solids	mg/L	04/14/21 - 01/20/25	23	0	CB around linear reg	812	483
G54S	UA	E008	Antimony, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.003	0.003
G54S	UA	E008	Arsenic, total	mg/L	12/04/15 - 01/30/25	16	20	CI around geomean	0.00105	0.00920
G54S	UA	E008	Barium, total	mg/L	12/04/15 - 01/30/25	16	0	CI around mean	0.211	0.280
G54S	UA	E008	Beryllium, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.001	0.001
G54S	UA	E008	Boron, total	mg/L	12/04/15 - 01/30/25	30	0	CI around mean	0.0315	0.210
G54S	UA	E008	Cadmium, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.001	0.001
G54S	UA	E008	Chloride, total	mg/L	12/04/15 - 01/30/25	28	9	CI around geomean	2.27	17.0

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 1, 2025
845 QUARTERLY REPORT
DUCK CREEK POWER PLANT
GMF POND
CANTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G54S	UA	E008	Chromium, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.004	0.00590
G54S	UA	E008	Cobalt, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.002	0.002
G54S	UA	E008	Fluoride, total	mg/L	12/04/15 - 01/30/25	29	80	CI around median	0.25	0.498
G54S	UA	E008	Lead, total	mg/L	12/04/15 - 01/30/25	16	96	CI around median	0.001	0.0150
G54S	UA	E008	Lithium, total	mg/L	12/04/15 - 01/30/25	16	81	CB around T-S line	0.01	0.02
G54S	UA	E008	Mercury, total	mg/L	12/04/15 - 01/30/25	16	88	CI around median	0.0002	0.000980
G54S	UA	E008	Molybdenum, total	mg/L	12/04/15 - 01/30/25	16	19	CB around linear reg	0.000762	0.00230
G54S	UA	E008	pH (field)	SU	12/04/15 - 01/30/25	38	0	CB around T-S line	6.6/6.7	6.6/7.4
G54S	UA	E008	Radium 226 + Radium 228, total	pCi/L	12/04/15 - 01/30/25	16	0	CI around geomean	0.506	2.00
G54S	UA	E008	Selenium, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.001	0.00120
G54S	UA	E008	Sulfate, total	mg/L	12/04/15 - 01/30/25	28	0	CB around T-S line	29.1	55.0
G54S	UA	E008	Thallium, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.001	0.001
G54S	UA	E008	Total Dissolved Solids	mg/L	12/04/15 - 01/30/25	36	0	CI around mean	517	483
G57S	UA	E008	Antimony, total	mg/L	12/04/15 - 01/22/25	16	94	CI around median	0.003	0.003
G57S	UA	E008	Arsenic, total	mg/L	12/04/15 - 01/22/25	16	92	Most recent sample	0.001	0.00920
G57S	UA	E008	Barium, total	mg/L	12/04/15 - 01/22/25	16	0	CB around linear reg	0.179	0.280
G57S	UA	E008	Beryllium, total	mg/L	12/04/15 - 01/22/25	16	94	CI around median	0.001	0.001
G57S	UA	E008	Boron, total	mg/L	12/04/15 - 01/22/25	29	45	CI around median	0.01	0.210
G57S	UA	E008	Cadmium, total	mg/L	12/04/15 - 01/22/25	16	94	CI around median	0.001	0.001
G57S	UA	E008	Chloride, total	mg/L	12/04/15 - 01/22/25	29	2	CI around median	18	17.0
G57S	UA	E008	Chromium, total	mg/L	12/04/15 - 01/22/25	16	94	Most recent sample	0.004	0.00590
G57S	UA	E008	Cobalt, total	mg/L	12/04/15 - 01/22/25	16	94	Most recent sample	0.002	0.002
G57S	UA	E008	Fluoride, total	mg/L	12/04/15 - 01/22/25	30	42	CI around median	0.25	0.498
G57S	UA	E008	Lead, total	mg/L	12/04/15 - 01/22/25	16	76	CI around median	0.001	0.0150
G57S	UA	E008	Lithium, total	mg/L	12/04/15 - 01/22/25	16	100	All ND - Last	0.02	0.02
G57S	UA	E008	Mercury, total	mg/L	12/04/15 - 01/22/25	16	100	All ND - Last	0.0002	0.000980
G57S	UA	E008	Molybdenum, total	mg/L	12/04/15 - 01/22/25	16	88	CI around median	0.001	0.00230

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 1, 2025
845 QUARTERLY REPORT
DUCK CREEK POWER PLANT
GMF POND
CANTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G57S	UA	E008	pH (field)	SU	12/04/15 - 01/22/25	36	0	CB around linear reg	6.5/6.8	6.6/7.4
G57S	UA	E008	Radium 226 + Radium 228, total	pCi/L	12/04/15 - 01/22/25	16	0	CI around mean	0.24	2.00
G57S	UA	E008	Selenium, total	mg/L	12/04/15 - 01/22/25	16	94	Most recent sample	0.001	0.00120
G57S	UA	E008	Sulfate, total	mg/L	12/04/15 - 01/22/25	28	0	CB around linear reg	46.2	55.0
G57S	UA	E008	Thallium, total	mg/L	12/04/15 - 01/22/25	16	94	CI around median	0.001	0.001
G57S	UA	E008	Total Dissolved Solids	mg/L	12/04/15 - 01/22/25	36	0	CB around linear reg	813	483
G60L	PMP	E008	Antimony, total	mg/L	04/14/21 - 01/30/25	16	100	All ND - Last	0.003	0.003
G60L	PMP	E008	Arsenic, total	mg/L	04/14/21 - 01/30/25	16	94	CI around median	0.001	0.00920
G60L	PMP	E008	Barium, total	mg/L	04/14/21 - 01/30/25	16	0	CB around linear reg	0.0286	0.280
G60L	PMP	E008	Beryllium, total	mg/L	04/14/21 - 01/30/25	16	100	All ND - Last	0.001	0.001
G60L	PMP	E008	Boron, total	mg/L	04/14/21 - 01/30/25	17	0	CI around geomean	0.0258	0.210
G60L	PMP	E008	Cadmium, total	mg/L	04/14/21 - 01/30/25	16	94	CI around median	0.001	0.001
G60L	PMP	E008	Chloride, total	mg/L	04/14/21 - 01/30/25	17	0	CB around linear reg	5.29	17.0
G60L	PMP	E008	Chromium, total	mg/L	04/14/21 - 01/30/25	16	88	CI around median	0.004	0.00590
G60L	PMP	E008	Cobalt, total	mg/L	04/14/21 - 01/30/25	17	12	CB around linear reg	0.00689	0.002
G60L	PMP	E008R	Cobalt, total	mg/L	04/14/21 - 03/26/25	18	11	CB around linear reg	0.00626	0.002
G60L	PMP	E008	Fluoride, total	mg/L	04/14/21 - 01/30/25	17	100	All ND - Last	0.25	0.498
G60L	PMP	E008	Lead, total	mg/L	04/14/21 - 01/30/25	16	81	CI around median	0.001	0.0150
G60L	PMP	E008	Lithium, total	mg/L	04/14/21 - 01/30/25	16	100	All ND - Last	0.02	0.02
G60L	PMP	E008	Mercury, total	mg/L	04/14/21 - 01/30/25	16	100	All ND - Last	0.0002	0.000980
G60L	PMP	E008	Molybdenum, total	mg/L	04/14/21 - 01/30/25	16	94	Most recent sample	0.001	0.00230
G60L	PMP	E008	pH (field)	SU	04/14/21 - 01/30/25	24	0	CI around median	6.0/6.2	6.6/7.4
G60L	PMP	E008R	pH (field)	SU	04/14/21 - 03/26/25	25	0	CI around median	6.0/6.2	6.6/7.4
G60L	PMP	E008	Radium 226 + Radium 228, total	pCi/L	04/14/21 - 01/30/25	16	0	CI around mean	0.365	2.00
G60L	PMP	E008	Selenium, total	mg/L	04/14/21 - 01/30/25	16	100	All ND - Last	0.001	0.00120
G60L	PMP	E008	Sulfate, total	mg/L	04/14/21 - 01/30/25	17	6	CI around mean	155	55.0
G60L	PMP	E008	Thallium, total	mg/L	04/14/21 - 01/30/25	16	100	All ND - Last	0.001	0.001

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 1, 2025
845 QUARTERLY REPORT
DUCK CREEK POWER PLANT
GMF POND
CANTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G60L	PMP	E008	Total Dissolved Solids	mg/L	04/14/21 - 01/30/25	23	0	CI around mean	536	483
G60S	UA	E008	Antimony, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.003	0.003
G60S	UA	E008	Arsenic, total	mg/L	12/04/15 - 01/30/25	16	12	CI around geomean	0.00128	0.00920
G60S	UA	E008	Barium, total	mg/L	12/04/15 - 01/30/25	16	0	CI around mean	0.148	0.280
G60S	UA	E008	Beryllium, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.001	0.001
G60S	UA	E008	Boron, total	mg/L	12/04/15 - 01/30/25	31	8	CI around geomean	0.0168	0.210
G60S	UA	E008	Cadmium, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.001	0.001
G60S	UA	E008	Chloride, total	mg/L	12/04/15 - 01/30/25	29	2	CB around T-S line	3.65	17.0
G60S	UA	E008	Chromium, total	mg/L	12/04/15 - 01/30/25	16	50	CI around median	0.004	0.00590
G60S	UA	E008	Cobalt, total	mg/L	12/04/15 - 01/30/25	16	75	CI around median	0.002	0.002
G60S	UA	E008	Fluoride, total	mg/L	12/04/15 - 01/30/25	30	53	CB around T-S line	0.207	0.498
G60S	UA	E008	Lead, total	mg/L	12/04/15 - 01/30/25	16	33	CI around median	0.001	0.0150
G60S	UA	E008	Lithium, total	mg/L	12/04/15 - 01/30/25	16	81	CB around T-S line	0.01	0.02
G60S	UA	E008	Mercury, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.0002	0.000980
G60S	UA	E008	Molybdenum, total	mg/L	12/04/15 - 01/30/25	16	44	CI around median	0.001	0.00230
G60S	UA	E008	pH (field)	SU	12/04/15 - 01/30/25	37	0	CI around mean	6.7/6.8	6.6/7.4
G60S	UA	E008	Radium 226 + Radium 228, total	pCi/L	12/04/15 - 01/30/25	16	0	CI around geomean	0.836	2.00
G60S	UA	E008	Selenium, total	mg/L	12/04/15 - 01/30/25	16	88	CI around median	0.001	0.00120
G60S	UA	E008	Sulfate, total	mg/L	12/04/15 - 01/30/25	30	0	CI around median	67	55.0
G60S	UA	E008	Thallium, total	mg/L	12/04/15 - 01/30/25	16	100	All ND - Last	0.001	0.001
G60S	UA	E008	Total Dissolved Solids	mg/L	12/04/15 - 01/30/25	37	0	CI around median	560	483
G64L	PMP	E008	Antimony, total	mg/L	05/15/23 - 01/15/25	8	100	All ND - Last	0.003	0.003
G64L	PMP	E008	Arsenic, total	mg/L	05/15/23 - 01/15/25	8	57	CI around median	0.001	0.00920
G64L	PMP	E008	Barium, total	mg/L	05/15/23 - 01/15/25	8	0	CI around mean	0.0923	0.280
G64L	PMP	E008	Beryllium, total	mg/L	05/15/23 - 01/15/25	8	100	All ND - Last	0.001	0.001
G64L	PMP	E008	Boron, total	mg/L	01/11/23 - 01/15/25	9	27	CI around geomean	0.00852	0.210
G64L	PMP	E008	Cadmium, total	mg/L	05/15/23 - 01/15/25	8	100	All ND - Last	0.001	0.001

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 1, 2025
845 QUARTERLY REPORT
DUCK CREEK POWER PLANT
GMF POND
CANTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G64L	PMP	E008	Chloride, total	mg/L	01/11/23 - 01/15/25	9	7	CI around mean	1.94	17.0
G64L	PMP	E008	Chromium, total	mg/L	05/15/23 - 01/15/25	8	75	CI around median	0.004	0.00590
G64L	PMP	E008	Cobalt, total	mg/L	05/15/23 - 01/15/25	8	100	All ND - Last	0.002	0.002
G64L	PMP	E008	Fluoride, total	mg/L	01/11/23 - 01/15/25	9	44	CI around median	0.25	0.498
G64L	PMP	E008	Lead, total	mg/L	05/15/23 - 01/15/25	8	57	CI around median	0.001	0.0150
G64L	PMP	E008	Lithium, total	mg/L	05/15/23 - 01/15/25	8	100	All ND - Last	0.02	0.02
G64L	PMP	E008	Mercury, total	mg/L	05/15/23 - 01/15/25	8	100	All ND - Last	0.0002	0.000980
G64L	PMP	E008	Molybdenum, total	mg/L	05/15/23 - 01/15/25	8	38	CI around mean	0.000893	0.00230
G64L	PMP	E008	pH (field)	SU	05/21/21 - 01/15/25	16	0	CI around median	6.8/7.0	6.6/7.4
G64L	PMP	E008	Radium 226 + Radium 228, total	pCi/L	05/15/23 - 01/15/25	8	0	CI around mean	0.217	2.00
G64L	PMP	E008	Selenium, total	mg/L	05/15/23 - 01/15/25	8	100	All ND - Last	0.001	0.00120
G64L	PMP	E008	Sulfate, total	mg/L	01/11/23 - 01/15/25	9	0	CI around mean	27.3	55.0
G64L	PMP	E008	Thallium, total	mg/L	05/15/23 - 01/15/25	8	100	All ND - Last	0.001	0.001
G64L	PMP	E008	Total Dissolved Solids	mg/L	05/21/21 - 01/15/25	16	0	CI around mean	555	483
G64S	UA	E008	Antimony, total	mg/L	12/04/15 - 01/09/25	16	94	CI around median	0.003	0.003
G64S	UA	E008	Arsenic, total	mg/L	12/04/15 - 01/09/25	16	20	CB around linear reg	0.0000672	0.00920
G64S	UA	E008	Barium, total	mg/L	12/04/15 - 01/09/25	16	0	CI around mean	0.162	0.280
G64S	UA	E008	Beryllium, total	mg/L	12/04/15 - 01/09/25	16	100	All ND - Last	0.001	0.001
G64S	UA	E008	Boron, total	mg/L	12/04/15 - 01/09/25	29	3	CI around geomean	0.0152	0.210
G64S	UA	E008	Cadmium, total	mg/L	12/04/15 - 01/09/25	16	100	All ND - Last	0.001	0.001
G64S	UA	E008	Chloride, total	mg/L	12/04/15 - 01/09/25	28	4	CB around T-S line	2.57	17.0
G64S	UA	E008	Chromium, total	mg/L	12/04/15 - 01/09/25	16	94	CI around median	0.004	0.00590
G64S	UA	E008	Cobalt, total	mg/L	12/04/15 - 01/09/25	16	100	All ND - Last	0.002	0.002
G64S	UA	E008	Fluoride, total	mg/L	12/04/15 - 01/09/25	30	23	CI around mean	0.287	0.498
G64S	UA	E008	Lead, total	mg/L	12/04/15 - 01/09/25	16	52	CB around T-S line	-0.00114	0.0150
G64S	UA	E008	Lithium, total	mg/L	12/04/15 - 01/09/25	16	100	All ND - Last	0.02	0.02
G64S	UA	E008	Mercury, total	mg/L	12/04/15 - 01/09/25	16	100	All ND - Last	0.0002	0.000980

ATTACHMENT C.
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G64S	UA	E008	Molybdenum, total	mg/L	12/04/15 - 01/09/25	16	12	CI around mean	0.0011	0.00230
G64S	UA	E008	pH (field)	SU	12/04/15 - 01/09/25	37	0	CI around median	6.8/7.0	6.6/7.4
G64S	UA	E008	Radium 226 + Radium 228, total	pCi/L	12/04/15 - 01/09/25	16	0	CI around mean	0.558	2.00
G64S	UA	E008	Selenium, total	mg/L	12/04/15 - 01/09/25	16	94	CI around median	0.001	0.00120
G64S	UA	E008	Sulfate, total	mg/L	12/04/15 - 01/09/25	28	0	CB around linear reg	20.7	55.0
G64S	UA	E008	Thallium, total	mg/L	12/04/15 - 01/09/25	16	100	All ND - Last	0.001	0.001
G64S	UA	E008	Total Dissolved Solids	mg/L	12/04/15 - 01/09/25	35	0	CI around median	420	483

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 1, 2025
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Notes:

Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value

Throughout this document, “exceedance” or “exceedances” is intended to refer only to potential exceedances of proposed applicable background statistics or Groundwater Protection Standards (GWPSs) as described in the proposed groundwater monitoring program which was submitted to the Illinois Environmental Protection Agency (IEPA) on October 25, 2021 as part of Illinois Power Resources Generating, LLC’s (IPRG’s) operating permit application for the GMF Pond. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and, therefore, IPRG has not identified any actual exceedances.

Events:

- E008 = Quarter 1, 2025 sampling event
- E008R = Quarter 1, 2025 resampling event

HSU = hydrostratigraphic unit:

- PMP = Potential Migration Pathway
- UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result

Statistical Calculation = method used to calculate the statistical result:

- All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown
- CB around T-S line = Confidence band around Thiel-Sen line
- CB around T-S line = Confidence band around Thiel-Sen line
- CB around linear reg = Confidence band around linear regression
- CI around geomean = Confidence interval around the geometric mean
- CI around mean = Confidence interval around the mean
- CI around median = Confidence interval around the median
- Most recent sample = Result for the most recently collected sample used due to insufficient data

Statistical Result = calculated in accordance with the Statistical Analysis Plan using constituent concentrations observed at each monitoring well during all sampling events within the specified date range

Statistical Result Code (if applicable):

- NR¹ = Parameter not analyzed.
- NS¹ = Well has been, or will be, abandoned; therefore, a sample was not collected.
- NS² = Well either needs or was undergoing maintenance; therefore, a sample was not collected.
- NS³ = The location was not accessible; therefore, a sample was not collected.
- NS⁴ = The location could not be found; therefore, a sample was not collected.
- NS⁵ = The location was damaged; therefore, a sample was not collected.
- NS⁶ = Sampling pump could not yield a sample.
- NS⁷ = Well was either dry or purged dry and did not recover sufficiently to yield adequate volume for a sample.
- NS⁸ = A sample was not collected.
- PM¹ = Parameter not analyzed as the well purged dry during sample collection and did not sufficiently recover to yield adequate sample volume for analysis.

For pH, the values presented are the lower / upper limits of the background determination