



Illinois Power Generating Company  
1500 Eastport Plaza Drive  
Collinsville, IL 62234

August 7, 2023  
Illinois Environmental Protection Agency  
DWPC – Permits MC#15  
Attn: Part 845 Coal Combustion Residual Rule Submittal  
1021 North Grand Avenue East  
Springfield, IL 62794

**Re: Newton Power Plant Primary Ash Pond; IEPA ID # W0798070001-01**

Dear Mr. LeCrone:

In accordance with Title 35 of the Illinois Administrative Code (35 I.A.C.) Section (§) 845.610(b)(3)(D), Illinois Power Generating Company (IPGC) is submitting groundwater monitoring data for the Quarter 2 2023 sampling event at the Newton Power Plant Primary Ash Pond, identified by Illinois Environmental Protection Agency (IEPA) ID No. W0798070001-01. 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 compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine exceedances of the GWPS.

The date of this submittal is considered to be the date that exceedances of the GWPS 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 alternate source demonstration (ASD) will be evaluated for the detected exceedances of the GWPS and, if successfully completed, the ASD will be submitted to IEPA within 60 days of this transmittal.

Sincerely,

A handwritten signature in blue ink, appearing to read "Phil Morris", is written over a light blue horizontal line.

**Phil Morris, PE**  
**Senior Director, Environmental**

Enclosures

*Groundwater Monitoring Data and Detected Exceedances, Quarter 2 2023, Primary Ash Pond, Newton Power Plant, Newton, Illinois*

**35 I.A.C. § 845.610(B)(3)(D)  
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES  
QUARTER 2 2023  
PRIMARY ASH POND, NEWTON POWER PLANT, NEWTON, ILLINOIS**

August 7, 2023

Samples were collected between April 25 and April 28, 2023 and analyzed for the parameters listed in Title 35 of the Illinois Administrative Code (35 I.A.C) Section (§) 845.600(a), calcium, and turbidity. Final laboratory analytical data were received on June 8, 2023.

The monitoring well locations are included in **Figure 1. Attachment A** summarizes the groundwater elevation data for the Quarter 2 2023 sampling event. **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 2 2023 sampling event.

Statistical procedures used to evaluate groundwater results are provided in Appendix A of the Groundwater Monitoring Plan<sup>1</sup> provided in the operating permit application. In accordance with 35 I.A.C. § 845.610(b)(3)(B), the Quarter 2 2023 groundwater monitoring data were evaluated for statistically significant levels (SSLs) over background levels for the constituents listed in 35 I.A.C. § 845.600. **Attachment C** shows the statistically derived values compared to background levels.

In accordance with 35 I.A.C. § 845.610(b)(3)(C), the statistically derived values identified as Statistical Results in **Table 2** were compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine exceedances of the GWPS, as shown in **Table 2**. The date of this submittal is considered to be the date that the exceedances of the GPWS were detected.

As allowed in 35 I.A.C. § 845.650(e), an alternate source demonstration (ASD) will be evaluated for the detected exceedances of the GWPS and, if successfully completed, the ASD will be submitted to Illinois Environmental Protection Agency (IEPA) within 60 days of this transmittal.

**TABLES**

- Table 1            Field Parameters and Analytical Results - Quarter 2, 2023
- Table 2            Comparison of Statistical Results to GWPS - Quarter 2, 2023

**FIGURES**

- Figure 1           Monitoring Well Location Map

**ATTACHMENTS**

- Attachment A    Groundwater Elevation Data - Quarter 2, 2023
- Attachment B    Laboratory Reports and Field Data Sheets - Quarter 2, 2023
- Attachment C    Comparison of Statistical Results to Background - Quarter 2, 2023

<sup>1</sup> Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan. Primary Ash Pond. Newton Power Plant. Newton, Illinois. October 25, 2021.*

## **TABLES**

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

845 QUARTERLY REPORT  
NEWTON POWER PLANT  
PRIMARY ASH POND  
NEWTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
APW05	Background	E001	04/27/2023	Antimony, total	0.00043 U	mg/L
APW05	Background	E001	04/27/2023	Arsenic, total	0.0300	mg/L
APW05	Background	E001	04/27/2023	Barium, total	0.250	mg/L
APW05	Background	E001	04/27/2023	Beryllium, total	0.00059 U	mg/L
APW05	Background	E001	04/27/2023	Boron, total	0.0920	mg/L
APW05	Background	E001	04/27/2023	Cadmium, total	0.00074 U	mg/L
APW05	Background	E001	04/27/2023	Calcium, total	49.0	mg/L
APW05	Background	E001	04/27/2023	Chloride, total	46.0	mg/L
APW05	Background	E001	04/27/2023	Chromium, total	0.0037 J	mg/L
APW05	Background	E001	04/27/2023	Cobalt, total	0.00048 J	mg/L
APW05	Background	E001	04/27/2023	Dissolved Oxygen	18.0	mg/L
APW05	Background	E001	04/27/2023	Fluoride, total	0.498	mg/L
APW05	Background	E001	04/27/2023	Lead, total	0.00068 J	mg/L
APW05	Background	E001	04/27/2023	Lithium, total	0.0087 J	mg/L
APW05	Background	E001	04/27/2023	Mercury, total	0.00014 U	mg/L
APW05	Background	E001	04/27/2023	Molybdenum, total	0.00910	mg/L
APW05	Background	E001	04/27/2023	Oxidation Reduction Potential	-124	mV
APW05	Background	E001	04/27/2023	Radium 226 + Radium 228, total	0.841	pCi/L
APW05	Background	E001	04/27/2023	Selenium, total	0.00074 U	mg/L
APW05	Background	E001	04/27/2023	Specific Conductance @ 25C (field)	819	micromhos/cm
APW05	Background	E001	04/27/2023	Sulfate, total	0.97 J	mg/L
APW05	Background	E001	04/27/2023	Temperature	14.5	degrees C
APW05	Background	E001	04/27/2023	Thallium, total	0.00038 U	mg/L
APW05	Background	E001	04/27/2023	Total Dissolved Solids	560	mg/L
APW05	Background	E001	04/27/2023	Turbidity, field	40.1	NTU
APW05	Background	E001	04/27/2023	pH (field)	7.1	SU
APW06	Background	E001	04/26/2023	Antimony, total	0.00043 U	mg/L
APW06	Background	E001	04/26/2023	Arsenic, total	0.00920	mg/L
APW06	Background	E001	04/26/2023	Barium, total	0.240	mg/L
APW06	Background	E001	04/26/2023	Beryllium, total	0.00059 U	mg/L
APW06	Background	E001	04/26/2023	Boron, total	0.0870 J+	mg/L
APW06	Background	E001	04/26/2023	Cadmium, total	0.00074 U	mg/L
APW06	Background	E001	04/26/2023	Calcium, total	58.0	mg/L
APW06	Background	E001	04/26/2023	Chloride, total	26.0	mg/L
APW06	Background	E001	04/26/2023	Chromium, total	0.00790 J+	mg/L
APW06	Background	E001	04/26/2023	Cobalt, total	0.0011 J	mg/L
APW06	Background	E001	04/26/2023	Dissolved Oxygen	11.0	mg/L
APW06	Background	E001	04/26/2023	Fluoride, total	0.489	mg/L
APW06	Background	E001	04/26/2023	Lead, total	0.00170	mg/L
APW06	Background	E001	04/26/2023	Lithium, total	0.012 J	mg/L
APW06	Background	E001	04/26/2023	Mercury, total	0.00019 J	mg/L
APW06	Background	E001	04/26/2023	Molybdenum, total	0.00770	mg/L
APW06	Background	E001	04/26/2023	Oxidation Reduction Potential	-128	mV
APW06	Background	E001	04/26/2023	Radium 226 + Radium 228, total	1.20	pCi/L
APW06	Background	E001	04/26/2023	Selenium, total	0.00074 U	mg/L
APW06	Background	E001	04/26/2023	Specific Conductance @ 25C (field)	796	micromhos/cm



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

845 QUARTERLY REPORT  
 NEWTON POWER PLANT  
 PRIMARY ASH POND  
 NEWTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
APW06	Background	E001	04/26/2023	Sulfate, total	7.60	mg/L
APW06	Background	E001	04/26/2023	Temperature	17.6	degrees C
APW06	Background	E001	04/26/2023	Thallium, total	0.00038 U	mg/L
APW06	Background	E001	04/26/2023	Total Dissolved Solids	500 J+	mg/L
APW06	Background	E001	04/26/2023	Turbidity, field	471	NTU
APW06	Background	E001	04/26/2023	pH (field)	7.3	SU
APW02	Compliance	E001	04/27/2023	Antimony, total	0.00043 U	mg/L
APW02	Compliance	E001	04/27/2023	Arsenic, total	0.00140	mg/L
APW02	Compliance	E001	04/27/2023	Barium, total	0.0240	mg/L
APW02	Compliance	E001	04/27/2023	Beryllium, total	0.00059 U	mg/L
APW02	Compliance	E001	04/27/2023	Boron, total	0.120 J+	mg/L
APW02	Compliance	E001	04/27/2023	Cadmium, total	0.00074 U	mg/L
APW02	Compliance	E001	04/27/2023	Calcium, total	460	mg/L
APW02	Compliance	E001	04/27/2023	Chloride, total	110	mg/L
APW02	Compliance	E001	04/27/2023	Chromium, total	0.00400	mg/L
APW02	Compliance	E001	04/27/2023	Cobalt, total	0.0012 J	mg/L
APW02	Compliance	E001	04/27/2023	Dissolved Oxygen	1.20	mg/L
APW02	Compliance	E001	04/27/2023	Fluoride, total	0.172 J	mg/L
APW02	Compliance	E001	04/27/2023	Lead, total	0.00039 J	mg/L
APW02	Compliance	E001	04/27/2023	Lithium, total	0.0980	mg/L
APW02	Compliance	E001	04/27/2023	Mercury, total	0.00018 J	mg/L
APW02	Compliance	E001	04/27/2023	Molybdenum, total	0.00160	mg/L
APW02	Compliance	E001	04/27/2023	Oxidation Reduction Potential	80.8	mV
APW02	Compliance	E001	04/27/2023	Radium 226 + Radium 228, total	0.768	pCi/L
APW02	Compliance	E001	04/27/2023	Selenium, total	0.00074 U	mg/L
APW02	Compliance	E001	04/27/2023	Specific Conductance @ 25C (field)	5,217	micromhos/cm
APW02	Compliance	E001	04/27/2023	Sulfate, total	3,100	mg/L
APW02	Compliance	E001	04/27/2023	Temperature	15.6	degrees C
APW02	Compliance	E001	04/27/2023	Thallium, total	0.00038 U	mg/L
APW02	Compliance	E001	04/27/2023	Total Dissolved Solids	5,400	mg/L
APW02	Compliance	E001	04/27/2023	Turbidity, field	25.0	NTU
APW02	Compliance	E001	04/27/2023	pH (field)	6.7	SU
APW03	Compliance	E001	04/25/2023	Antimony, total	0.00043 U	mg/L
APW03	Compliance	E001	04/25/2023	Arsenic, total	0.00069 U	mg/L
APW03	Compliance	E001	04/25/2023	Barium, total	0.0780	mg/L
APW03	Compliance	E001	04/25/2023	Beryllium, total	0.00059 U	mg/L
APW03	Compliance	E001	04/25/2023	Boron, total	0.370	mg/L
APW03	Compliance	E001	04/25/2023	Cadmium, total	0.00074 U	mg/L
APW03	Compliance	E001	04/25/2023	Calcium, total	96.0	mg/L
APW03	Compliance	E001	04/25/2023	Chloride, total	6.90	mg/L
APW03	Compliance	E001	04/25/2023	Chromium, total	0.00720	mg/L
APW03	Compliance	E001	04/25/2023	Cobalt, total	0.00048 U	mg/L
APW03	Compliance	E001	04/25/2023	Dissolved Oxygen	2.20	mg/L
APW03	Compliance	E001	04/25/2023	Fluoride, total	0.04 U	mg/L
APW03	Compliance	E001	04/25/2023	Lead, total	0.00022 U	mg/L
APW03	Compliance	E001	04/25/2023	Lithium, total	0.01 J	mg/L

**TABLE 1.**  
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NEWTON POWER PLANT  
PRIMARY ASH POND  
NEWTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
APW03	Compliance	E001	04/25/2023	Mercury, total	0.00014 U	mg/L
APW03	Compliance	E001	04/25/2023	Molybdenum, total	0.0008 J	mg/L
APW03	Compliance	E001	04/25/2023	Oxidation Reduction Potential	141	mV
APW03	Compliance	E001	04/25/2023	Radium 226 + Radium 228, total	1.02	pCi/L
APW03	Compliance	E001	04/25/2023	Selenium, total	0.00074 U	mg/L
APW03	Compliance	E001	04/25/2023	Specific Conductance @ 25C (field)	925	micromhos/cm
APW03	Compliance	E001	04/25/2023	Sulfate, total	120	mg/L
APW03	Compliance	E001	04/25/2023	Temperature	17.0	degrees C
APW03	Compliance	E001	04/25/2023	Thallium, total	0.00038 U	mg/L
APW03	Compliance	E001	04/25/2023	Total Dissolved Solids	740	mg/L
APW03	Compliance	E001	04/25/2023	Turbidity, field	0 U	NTU
APW03	Compliance	E001	04/25/2023	pH (field)	7.0	SU
APW04	Compliance	E001	04/25/2023	Antimony, total	0.00043 U	mg/L
APW04	Compliance	E001	04/25/2023	Arsenic, total	0.00089 J	mg/L
APW04	Compliance	E001	04/25/2023	Barium, total	0.0220	mg/L
APW04	Compliance	E001	04/25/2023	Beryllium, total	0.00059 U	mg/L
APW04	Compliance	E001	04/25/2023	Boron, total	0.0240	mg/L
APW04	Compliance	E001	04/25/2023	Cadmium, total	0.00074 U	mg/L
APW04	Compliance	E001	04/25/2023	Calcium, total	210	mg/L
APW04	Compliance	E001	04/25/2023	Chloride, total	34.0	mg/L
APW04	Compliance	E001	04/25/2023	Chromium, total	0.0440	mg/L
APW04	Compliance	E001	04/25/2023	Cobalt, total	0.00081 J	mg/L
APW04	Compliance	E001	04/25/2023	Dissolved Oxygen	0.930	mg/L
APW04	Compliance	E001	04/25/2023	Fluoride, total	0.051 J	mg/L
APW04	Compliance	E001	04/25/2023	Lead, total	0.00063 J	mg/L
APW04	Compliance	E001	04/25/2023	Lithium, total	0.018 J	mg/L
APW04	Compliance	E001	04/25/2023	Mercury, total	0.00014 U	mg/L
APW04	Compliance	E001	04/25/2023	Molybdenum, total	0.00180	mg/L
APW04	Compliance	E001	04/25/2023	Oxidation Reduction Potential	171	mV
APW04	Compliance	E001	04/25/2023	Radium 226 + Radium 228, total	1.00	pCi/L
APW04	Compliance	E001	04/25/2023	Selenium, total	0.00074 U	mg/L
APW04	Compliance	E001	04/25/2023	Specific Conductance @ 25C (field)	1,830	micromhos/cm
APW04	Compliance	E001	04/25/2023	Sulfate, total	840	mg/L
APW04	Compliance	E001	04/25/2023	Temperature	11.8	degrees C
APW04	Compliance	E001	04/25/2023	Thallium, total	0.00038 U	mg/L
APW04	Compliance	E001	04/25/2023	Total Dissolved Solids	1,800	mg/L
APW04	Compliance	E001	04/25/2023	Turbidity, field	178	NTU
APW04	Compliance	E001	04/25/2023	pH (field)	6.9	SU
APW05S	Compliance	E001	04/26/2023	Antimony, total	0.00043 U	mg/L
APW05S	Compliance	E001	04/26/2023	Arsenic, total	0.00093 J	mg/L
APW05S	Compliance	E001	04/26/2023	Barium, total	0.0350	mg/L
APW05S	Compliance	E001	04/26/2023	Beryllium, total	0.00059 U	mg/L
APW05S	Compliance	E001	04/26/2023	Boron, total	0.0540 J+	mg/L
APW05S	Compliance	E001	04/26/2023	Cadmium, total	0.00074 U	mg/L
APW05S	Compliance	E001	04/26/2023	Calcium, total	390	mg/L
APW05S	Compliance	E001	04/26/2023	Chloride, total	200	mg/L

**TABLE 1.**  
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845 QUARTERLY REPORT  
 NEWTON POWER PLANT  
 PRIMARY ASH POND  
 NEWTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
APW05S	Compliance	E001	04/26/2023	Chromium, total	0.0031 J+	mg/L
APW05S	Compliance	E001	04/26/2023	Cobalt, total	0.00083 J	mg/L
APW05S	Compliance	E001	04/26/2023	Dissolved Oxygen	3.50	mg/L
APW05S	Compliance	E001	04/26/2023	Fluoride, total	0.365	mg/L
APW05S	Compliance	E001	04/26/2023	Lead, total	0.00022 J	mg/L
APW05S	Compliance	E001	04/26/2023	Lithium, total	0.0330	mg/L
APW05S	Compliance	E001	04/26/2023	Mercury, total	0.00014 U	mg/L
APW05S	Compliance	E001	04/26/2023	Molybdenum, total	0.00130	mg/L
APW05S	Compliance	E001	04/26/2023	Oxidation Reduction Potential	97.0	mV
APW05S	Compliance	E001	04/26/2023	Radium 226 + Radium 228, total	0.141	pCi/L
APW05S	Compliance	E001	04/26/2023	Selenium, total	0.00074 U	mg/L
APW05S	Compliance	E001	04/26/2023	Specific Conductance @ 25C (field)	3,930	micromhos/cm
APW05S	Compliance	E001	04/26/2023	Sulfate, total	2,100	mg/L
APW05S	Compliance	E001	04/26/2023	Temperature	16.4	degrees C
APW05S	Compliance	E001	04/26/2023	Thallium, total	0.00038 U	mg/L
APW05S	Compliance	E001	04/26/2023	Total Dissolved Solids	3,800 J+	mg/L
APW05S	Compliance	E001	04/26/2023	Turbidity, field	220	NTU
APW05S	Compliance	E001	04/26/2023	pH (field)	6.6	SU
APW07	Compliance	E001	04/27/2023	Antimony, total	0.00043 U	mg/L
APW07	Compliance	E001	04/27/2023	Arsenic, total	0.0180	mg/L
APW07	Compliance	E001	04/27/2023	Barium, total	0.510	mg/L
APW07	Compliance	E001	04/27/2023	Beryllium, total	0.00059 U	mg/L
APW07	Compliance	E001	04/27/2023	Boron, total	0.0850 J+	mg/L
APW07	Compliance	E001	04/27/2023	Cadmium, total	0.00074 U	mg/L
APW07	Compliance	E001	04/27/2023	Calcium, total	100	mg/L
APW07	Compliance	E001	04/27/2023	Chloride, total	63.0	mg/L
APW07	Compliance	E001	04/27/2023	Chromium, total	0.0170	mg/L
APW07	Compliance	E001	04/27/2023	Cobalt, total	0.00360	mg/L
APW07	Compliance	E001	04/27/2023	Dissolved Oxygen	0.510	mg/L
APW07	Compliance	E001	04/27/2023	Fluoride, total	0.409	mg/L
APW07	Compliance	E001	04/27/2023	Lead, total	0.00550	mg/L
APW07	Compliance	E001	04/27/2023	Lithium, total	0.0058 J	mg/L
APW07	Compliance	E001	04/27/2023	Mercury, total	0.00014 U	mg/L
APW07	Compliance	E001	04/27/2023	Molybdenum, total	0.00340	mg/L
APW07	Compliance	E001	04/27/2023	Oxidation Reduction Potential	-116	mV
APW07	Compliance	E001	04/27/2023	Radium 226 + Radium 228, total	2.09	pCi/L
APW07	Compliance	E001	04/27/2023	Selenium, total	0.00074 U	mg/L
APW07	Compliance	E001	04/27/2023	Specific Conductance @ 25C (field)	1,051	micromhos/cm
APW07	Compliance	E001	04/27/2023	Sulfate, total	14.0	mg/L
APW07	Compliance	E001	04/27/2023	Temperature	14.5	degrees C
APW07	Compliance	E001	04/27/2023	Thallium, total	0.00038 U	mg/L
APW07	Compliance	E001	04/27/2023	Total Dissolved Solids	590	mg/L
APW07	Compliance	E001	04/27/2023	Turbidity, field	621	NTU
APW07	Compliance	E001	04/27/2023	pH (field)	7.4	SU
APW08	Compliance	E001	04/26/2023	Antimony, total	0.00043 U	mg/L
APW08	Compliance	E001	04/26/2023	Arsenic, total	0.0260	mg/L

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

845 QUARTERLY REPORT  
 NEWTON POWER PLANT  
 PRIMARY ASH POND  
 NEWTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
APW08	Compliance	E001	04/26/2023	Barium, total	0.470	mg/L
APW08	Compliance	E001	04/26/2023	Beryllium, total	0.00059 U	mg/L
APW08	Compliance	E001	04/26/2023	Boron, total	0.0870 J+	mg/L
APW08	Compliance	E001	04/26/2023	Cadmium, total	0.00074 U	mg/L
APW08	Compliance	E001	04/26/2023	Calcium, total	110	mg/L
APW08	Compliance	E001	04/26/2023	Chloride, total	58.0	mg/L
APW08	Compliance	E001	04/26/2023	Chromium, total	0.00760 J+	mg/L
APW08	Compliance	E001	04/26/2023	Cobalt, total	0.00220	mg/L
APW08	Compliance	E001	04/26/2023	Dissolved Oxygen	1.70	mg/L
APW08	Compliance	E001	04/26/2023	Fluoride, total	0.404	mg/L
APW08	Compliance	E001	04/26/2023	Lead, total	0.00330	mg/L
APW08	Compliance	E001	04/26/2023	Lithium, total	0.0057 J	mg/L
APW08	Compliance	E001	04/26/2023	Mercury, total	0.00015 J	mg/L
APW08	Compliance	E001	04/26/2023	Molybdenum, total	0.00440	mg/L
APW08	Compliance	E001	04/26/2023	Oxidation Reduction Potential	-118	mV
APW08	Compliance	E001	04/26/2023	Radium 226 + Radium 228, total	0.941	pCi/L
APW08	Compliance	E001	04/26/2023	Selenium, total	0.00074 U	mg/L
APW08	Compliance	E001	04/26/2023	Specific Conductance @ 25C (field)	1,100	micromhos/cm
APW08	Compliance	E001	04/26/2023	Sulfate, total	48.0	mg/L
APW08	Compliance	E001	04/26/2023	Temperature	14.2	degrees C
APW08	Compliance	E001	04/26/2023	Thallium, total	0.00038 U	mg/L
APW08	Compliance	E001	04/26/2023	Total Dissolved Solids	640 J+	mg/L
APW08	Compliance	E001	04/26/2023	Turbidity, field	17.7	NTU
APW08	Compliance	E001	04/26/2023	pH (field)	7.5	SU
APW09	Compliance	E001	04/27/2023	Antimony, total	0.00043 U	mg/L
APW09	Compliance	E001	04/27/2023	Arsenic, total	0.0290	mg/L
APW09	Compliance	E001	04/27/2023	Barium, total	0.430	mg/L
APW09	Compliance	E001	04/27/2023	Beryllium, total	0.00059 U	mg/L
APW09	Compliance	E001	04/27/2023	Boron, total	0.0990 J+	mg/L
APW09	Compliance	E001	04/27/2023	Cadmium, total	0.00074 U	mg/L
APW09	Compliance	E001	04/27/2023	Calcium, total	76.0	mg/L
APW09	Compliance	E001	04/27/2023	Chloride, total	130	mg/L
APW09	Compliance	E001	04/27/2023	Chromium, total	0.00420	mg/L
APW09	Compliance	E001	04/27/2023	Cobalt, total	0.00068 J	mg/L
APW09	Compliance	E001	04/27/2023	Dissolved Oxygen	0.470	mg/L
APW09	Compliance	E001	04/27/2023	Fluoride, total	0.482	mg/L
APW09	Compliance	E001	04/27/2023	Lead, total	0.00130	mg/L
APW09	Compliance	E001	04/27/2023	Lithium, total	0.0072 J	mg/L
APW09	Compliance	E001	04/27/2023	Mercury, total	0.00014 U	mg/L
APW09	Compliance	E001	04/27/2023	Molybdenum, total	0.00390	mg/L
APW09	Compliance	E001	04/27/2023	Oxidation Reduction Potential	-137	mV
APW09	Compliance	E001	04/27/2023	Radium 226 + Radium 228, total	2.00	pCi/L
APW09	Compliance	E001	04/27/2023	Selenium, total	0.00074 U	mg/L
APW09	Compliance	E001	04/27/2023	Specific Conductance @ 25C (field)	1,356	micromhos/cm
APW09	Compliance	E001	04/27/2023	Sulfate, total	9.40	mg/L
APW09	Compliance	E001	04/27/2023	Temperature	16.5	degrees C

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

845 QUARTERLY REPORT  
 NEWTON POWER PLANT  
 PRIMARY ASH POND  
 NEWTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
APW09	Compliance	E001	04/27/2023	Thallium, total	0.00038 U	mg/L
APW09	Compliance	E001	04/27/2023	Total Dissolved Solids	840	mg/L
APW09	Compliance	E001	04/27/2023	Turbidity, field	117	NTU
APW09	Compliance	E001	04/27/2023	pH (field)	7.5	SU
APW10	Compliance	E001	04/27/2023	Antimony, total	0.00043 U	mg/L
APW10	Compliance	E001	04/27/2023	Arsenic, total	0.00780	mg/L
APW10	Compliance	E001	04/27/2023	Barium, total	0.0260	mg/L
APW10	Compliance	E001	04/27/2023	Beryllium, total	0.00059 U	mg/L
APW10	Compliance	E001	04/27/2023	Boron, total	0.0770 J+	mg/L
APW10	Compliance	E001	04/27/2023	Cadmium, total	0.00074 U	mg/L
APW10	Compliance	E001	04/27/2023	Calcium, total	140	mg/L
APW10	Compliance	E001	04/27/2023	Chloride, total	46.0	mg/L
APW10	Compliance	E001	04/27/2023	Chromium, total	0.0028 U	mg/L
APW10	Compliance	E001	04/27/2023	Cobalt, total	0.00048 U	mg/L
APW10	Compliance	E001	04/27/2023	Dissolved Oxygen	3.40	mg/L
APW10	Compliance	E001	04/27/2023	Fluoride, total	0.217 J	mg/L
APW10	Compliance	E001	04/27/2023	Lead, total	0.00022 U	mg/L
APW10	Compliance	E001	04/27/2023	Lithium, total	0.018 J	mg/L
APW10	Compliance	E001	04/27/2023	Mercury, total	0.00014 U	mg/L
APW10	Compliance	E001	04/27/2023	Molybdenum, total	0.00650	mg/L
APW10	Compliance	E001	04/27/2023	Oxidation Reduction Potential	77.5	mV
APW10	Compliance	E001	04/27/2023	Radium 226 + Radium 228, total	0.316	pCi/L
APW10	Compliance	E001	04/27/2023	Selenium, total	0.00074 U	mg/L
APW10	Compliance	E001	04/27/2023	Specific Conductance @ 25C (field)	1,461	micromhos/cm
APW10	Compliance	E001	04/27/2023	Sulfate, total	410	mg/L
APW10	Compliance	E001	04/27/2023	Temperature	15.1	degrees C
APW10	Compliance	E001	04/27/2023	Thallium, total	0.00038 U	mg/L
APW10	Compliance	E001	04/27/2023	Total Dissolved Solids	1,100	mg/L
APW10	Compliance	E001	04/27/2023	Turbidity, field	0 U	NTU
APW10	Compliance	E001	04/27/2023	pH (field)	7.4	SU
APW11	Compliance	E001	04/26/2023	Antimony, total	0.00043 U	mg/L
APW11	Compliance	E001	04/26/2023	Arsenic, total	0.00440	mg/L
APW11	Compliance	E001	04/26/2023	Barium, total	0.0430	mg/L
APW11	Compliance	E001	04/26/2023	Beryllium, total	0.00059 U	mg/L
APW11	Compliance	E001	04/26/2023	Boron, total	0.0640 J+	mg/L
APW11	Compliance	E001	04/26/2023	Cadmium, total	0.00074 U	mg/L
APW11	Compliance	E001	04/26/2023	Calcium, total	120	mg/L
APW11	Compliance	E001	04/26/2023	Chloride, total	26.0	mg/L
APW11	Compliance	E001	04/26/2023	Chromium, total	0.00700 J+	mg/L
APW11	Compliance	E001	04/26/2023	Cobalt, total	0.00210	mg/L
APW11	Compliance	E001	04/26/2023	Dissolved Oxygen	0.640	mg/L
APW11	Compliance	E001	04/26/2023	Fluoride, total	0.283	mg/L
APW11	Compliance	E001	04/26/2023	Lead, total	0.00630	mg/L
APW11	Compliance	E001	04/26/2023	Lithium, total	0.0200	mg/L
APW11	Compliance	E001	04/26/2023	Mercury, total	0.00014 J	mg/L
APW11	Compliance	E001	04/26/2023	Molybdenum, total	0.00430	mg/L



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

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 NEWTON POWER PLANT  
 PRIMARY ASH POND  
 NEWTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
APW11	Compliance	E001	04/26/2023	Oxidation Reduction Potential	-17.8	mV
APW11	Compliance	E001	04/26/2023	Radium 226 + Radium 228, total	2.17 J	pCi/L
APW11	Compliance	E001	04/26/2023	Selenium, total	0.00074 U	mg/L
APW11	Compliance	E001	04/26/2023	Specific Conductance @ 25C (field)	1,252	micromhos/cm
APW11	Compliance	E001	04/26/2023	Sulfate, total	260	mg/L
APW11	Compliance	E001	04/26/2023	Temperature	15.5	degrees C
APW11	Compliance	E001	04/26/2023	Thallium, total	0.00038 U	mg/L
APW11	Compliance	E001	04/26/2023	Total Dissolved Solids	920 J+	mg/L
APW11	Compliance	E001	04/26/2023	Turbidity, field	446	NTU
APW11	Compliance	E001	04/26/2023	pH (field)	7.2	SU
APW12	Compliance	E001	04/26/2023	Antimony, total	0.00043 U	mg/L
APW12	Compliance	E001	04/26/2023	Arsenic, total	0.00140	mg/L
APW12	Compliance	E001	04/26/2023	Barium, total	0.0280	mg/L
APW12	Compliance	E001	04/26/2023	Beryllium, total	0.00059 U	mg/L
APW12	Compliance	E001	04/26/2023	Boron, total	0.440	mg/L
APW12	Compliance	E001	04/26/2023	Cadmium, total	0.00074 U	mg/L
APW12	Compliance	E001	04/26/2023	Calcium, total	230	mg/L
APW12	Compliance	E001	04/26/2023	Chloride, total	23.0	mg/L
APW12	Compliance	E001	04/26/2023	Chromium, total	0.003 U	mg/L
APW12	Compliance	E001	04/26/2023	Cobalt, total	0.0012 J	mg/L
APW12	Compliance	E001	04/26/2023	Dissolved Oxygen	0.980	mg/L
APW12	Compliance	E001	04/26/2023	Fluoride, total	0.04 U	mg/L
APW12	Compliance	E001	04/26/2023	Lead, total	0.00022 U	mg/L
APW12	Compliance	E001	04/26/2023	Lithium, total	0.0240	mg/L
APW12	Compliance	E001	04/26/2023	Mercury, total	0.00014 U	mg/L
APW12	Compliance	E001	04/26/2023	Molybdenum, total	0.00074 U	mg/L
APW12	Compliance	E001	04/26/2023	Oxidation Reduction Potential	107	mV
APW12	Compliance	E001	04/26/2023	Radium 226 + Radium 228, total	0.0586	pCi/L
APW12	Compliance	E001	04/26/2023	Selenium, total	0.00074 U	mg/L
APW12	Compliance	E001	04/26/2023	Specific Conductance @ 25C (field)	1,831	micromhos/cm
APW12	Compliance	E001	04/26/2023	Sulfate, total	540	mg/L
APW12	Compliance	E001	04/26/2023	Temperature	14.6	degrees C
APW12	Compliance	E001	04/26/2023	Thallium, total	0.00038 U	mg/L
APW12	Compliance	E001	04/26/2023	Total Dissolved Solids	1,500 J+	mg/L
APW12	Compliance	E001	04/26/2023	Turbidity, field	0.520	NTU
APW12	Compliance	E001	04/26/2023	pH (field)	6.5	SU
APW13	Compliance	E001	04/27/2023	Antimony, total	0.00043 U	mg/L
APW13	Compliance	E001	04/27/2023	Arsenic, total	0.00400	mg/L
APW13	Compliance	E001	04/27/2023	Barium, total	0.0500	mg/L
APW13	Compliance	E001	04/27/2023	Beryllium, total	0.00059 U	mg/L
APW13	Compliance	E001	04/27/2023	Boron, total	0.110 J+	mg/L
APW13	Compliance	E001	04/27/2023	Cadmium, total	0.00074 U	mg/L
APW13	Compliance	E001	04/27/2023	Calcium, total	120	mg/L
APW13	Compliance	E001	04/27/2023	Chloride, total	51.0	mg/L
APW13	Compliance	E001	04/27/2023	Chromium, total	0.0028 U	mg/L
APW13	Compliance	E001	04/27/2023	Cobalt, total	0.00048 U	mg/L

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

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 NEWTON POWER PLANT  
 PRIMARY ASH POND  
 NEWTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
APW13	Compliance	E001	04/27/2023	Dissolved Oxygen	1.60	mg/L
APW13	Compliance	E001	04/27/2023	Fluoride, total	0.394	mg/L
APW13	Compliance	E001	04/27/2023	Lead, total	0.00022 U	mg/L
APW13	Compliance	E001	04/27/2023	Lithium, total	0.0210	mg/L
APW13	Compliance	E001	04/27/2023	Mercury, total	0.00014 U	mg/L
APW13	Compliance	E001	04/27/2023	Molybdenum, total	0.00670	mg/L
APW13	Compliance	E001	04/27/2023	Oxidation Reduction Potential	-25.3	mV
APW13	Compliance	E001	04/27/2023	Radium 226 + Radium 228, total	0.651	pCi/L
APW13	Compliance	E001	04/27/2023	Selenium, total	0.00074 U	mg/L
APW13	Compliance	E001	04/27/2023	Specific Conductance @ 25C (field)	1,360	micromhos/cm
APW13	Compliance	E001	04/27/2023	Sulfate, total	250	mg/L
APW13	Compliance	E001	04/27/2023	Temperature	14.3	degrees C
APW13	Compliance	E001	04/27/2023	Thallium, total	0.00038 U	mg/L
APW13	Compliance	E001	04/27/2023	Total Dissolved Solids	940	mg/L
APW13	Compliance	E001	04/27/2023	Turbidity, field	0 U	NTU
APW13	Compliance	E001	04/27/2023	pH (field)	7.3	SU
APW14	Compliance	E001	04/28/2023	Antimony, total	0.00043 U	mg/L
APW14	Compliance	E001	04/28/2023	Arsenic, total	0.00550	mg/L
APW14	Compliance	E001	04/28/2023	Barium, total	0.0650	mg/L
APW14	Compliance	E001	04/28/2023	Beryllium, total	0.00059 U	mg/L
APW14	Compliance	E001	04/28/2023	Boron, total	0.100 J+	mg/L
APW14	Compliance	E001	04/28/2023	Cadmium, total	0.00074 U	mg/L
APW14	Compliance	E001	04/28/2023	Calcium, total	130	mg/L
APW14	Compliance	E001	04/28/2023	Chloride, total	46.0	mg/L
APW14	Compliance	E001	04/28/2023	Chromium, total	0.0028 U	mg/L
APW14	Compliance	E001	04/28/2023	Cobalt, total	0.00048 U	mg/L
APW14	Compliance	E001	04/28/2023	Dissolved Oxygen	1.20	mg/L
APW14	Compliance	E001	04/28/2023	Fluoride, total	0.243 J	mg/L
APW14	Compliance	E001	04/28/2023	Lead, total	0.00022 U	mg/L
APW14	Compliance	E001	04/28/2023	Lithium, total	0.016 J	mg/L
APW14	Compliance	E001	04/28/2023	Mercury, total	0.00014 U	mg/L
APW14	Compliance	E001	04/28/2023	Molybdenum, total	0.00400	mg/L
APW14	Compliance	E001	04/28/2023	Oxidation Reduction Potential	-95.0	mV
APW14	Compliance	E001	04/28/2023	Radium 226 + Radium 228, total	0.381 J	pCi/L
APW14	Compliance	E001	04/28/2023	Selenium, total	0.00074 U	mg/L
APW14	Compliance	E001	04/28/2023	Specific Conductance @ 25C (field)	1,480	micromhos/cm
APW14	Compliance	E001	04/28/2023	Sulfate, total	380	mg/L
APW14	Compliance	E001	04/28/2023	Temperature	14.8	degrees C
APW14	Compliance	E001	04/28/2023	Thallium, total	0.00038 U	mg/L
APW14	Compliance	E001	04/28/2023	Total Dissolved Solids	980	mg/L
APW14	Compliance	E001	04/28/2023	Turbidity, field	8.81	NTU
APW14	Compliance	E001	04/28/2023	pH (field)	7.3	SU
APW15	Compliance	E001	04/26/2023	Antimony, total	0.00043 U	mg/L
APW15	Compliance	E001	04/26/2023	Arsenic, total	0.0210	mg/L
APW15	Compliance	E001	04/26/2023	Barium, total	0.530	mg/L
APW15	Compliance	E001	04/26/2023	Beryllium, total	0.00059 U	mg/L

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

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 NEWTON POWER PLANT  
 PRIMARY ASH POND  
 NEWTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
APW15	Compliance	E001	04/26/2023	Boron, total	0.130	mg/L
APW15	Compliance	E001	04/26/2023	Cadmium, total	0.00074 U	mg/L
APW15	Compliance	E001	04/26/2023	Calcium, total	91.0	mg/L
APW15	Compliance	E001	04/26/2023	Chloride, total	270	mg/L
APW15	Compliance	E001	04/26/2023	Chromium, total	0.00640 J+	mg/L
APW15	Compliance	E001	04/26/2023	Cobalt, total	0.0011 J	mg/L
APW15	Compliance	E001	04/26/2023	Dissolved Oxygen	0.320	mg/L
APW15	Compliance	E001	04/26/2023	Fluoride, total	0.402	mg/L
APW15	Compliance	E001	04/26/2023	Lead, total	0.00120	mg/L
APW15	Compliance	E001	04/26/2023	Lithium, total	0.0064 J	mg/L
APW15	Compliance	E001	04/26/2023	Mercury, total	0.00014 U	mg/L
APW15	Compliance	E001	04/26/2023	Molybdenum, total	0.00650	mg/L
APW15	Compliance	E001	04/26/2023	Oxidation Reduction Potential	-126	mV
APW15	Compliance	E001	04/26/2023	Radium 226 + Radium 228, total	1.97	pCi/L
APW15	Compliance	E001	04/26/2023	Selenium, total	0.00074 U	mg/L
APW15	Compliance	E001	04/26/2023	Specific Conductance @ 25C (field)	1,682	micromhos/cm
APW15	Compliance	E001	04/26/2023	Sulfate, total	0.4 J	mg/L
APW15	Compliance	E001	04/26/2023	Temperature	15.3	degrees C
APW15	Compliance	E001	04/26/2023	Thallium, total	0.00038 U	mg/L
APW15	Compliance	E001	04/26/2023	Total Dissolved Solids	1,100 J+	mg/L
APW15	Compliance	E001	04/26/2023	Turbidity, field	51.6	NTU
APW15	Compliance	E001	04/26/2023	pH (field)	7.2	SU
APW16	Compliance	E001	04/25/2023	Antimony, total	0.00043 U	mg/L
APW16	Compliance	E001	04/25/2023	Arsenic, total	0.0210	mg/L
APW16	Compliance	E001	04/25/2023	Barium, total	0.540	mg/L
APW16	Compliance	E001	04/25/2023	Beryllium, total	0.00059 U	mg/L
APW16	Compliance	E001	04/25/2023	Boron, total	0.130	mg/L
APW16	Compliance	E001	04/25/2023	Cadmium, total	0.00074 U	mg/L
APW16	Compliance	E001	04/25/2023	Calcium, total	96.0	mg/L
APW16	Compliance	E001	04/25/2023	Chloride, total	71.0	mg/L
APW16	Compliance	E001	04/25/2023	Chromium, total	0.0028 U	mg/L
APW16	Compliance	E001	04/25/2023	Cobalt, total	0.00048 U	mg/L
APW16	Compliance	E001	04/25/2023	Dissolved Oxygen	1.20	mg/L
APW16	Compliance	E001	04/25/2023	Fluoride, total	0.606	mg/L
APW16	Compliance	E001	04/25/2023	Lead, total	0.00036 J	mg/L
APW16	Compliance	E001	04/25/2023	Lithium, total	0.005 U	mg/L
APW16	Compliance	E001	04/25/2023	Mercury, total	0.00014 U	mg/L
APW16	Compliance	E001	04/25/2023	Molybdenum, total	0.00074 U	mg/L
APW16	Compliance	E001	04/25/2023	Oxidation Reduction Potential	-104	mV
APW16	Compliance	E001	04/25/2023	Radium 226 + Radium 228, total	2.05	pCi/L
APW16	Compliance	E001	04/25/2023	Selenium, total	0.00074 U	mg/L
APW16	Compliance	E001	04/25/2023	Specific Conductance @ 25C (field)	953	micromhos/cm
APW16	Compliance	E001	04/25/2023	Sulfate, total	0.65 J	mg/L
APW16	Compliance	E001	04/25/2023	Temperature	14.0	degrees C
APW16	Compliance	E001	04/25/2023	Thallium, total	0.00038 U	mg/L
APW16	Compliance	E001	04/25/2023	Total Dissolved Solids	800	mg/L



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

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 NEWTON POWER PLANT  
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 NEWTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
APW16	Compliance	E001	04/25/2023	Turbidity, field	0.210	NTU
APW16	Compliance	E001	04/25/2023	pH (field)	7.7	SU
APW17	Compliance	E001	04/25/2023	Antimony, total	0.00043 U	mg/L
APW17	Compliance	E001	04/25/2023	Arsenic, total	0.0200	mg/L
APW17	Compliance	E001	04/25/2023	Barium, total	0.550	mg/L
APW17	Compliance	E001	04/25/2023	Beryllium, total	0.00059 U	mg/L
APW17	Compliance	E001	04/25/2023	Boron, total	0.0830	mg/L
APW17	Compliance	E001	04/25/2023	Cadmium, total	0.00074 U	mg/L
APW17	Compliance	E001	04/25/2023	Calcium, total	110	mg/L
APW17	Compliance	E001	04/25/2023	Chloride, total	56.0	mg/L
APW17	Compliance	E001	04/25/2023	Chromium, total	0.0028 U	mg/L
APW17	Compliance	E001	04/25/2023	Cobalt, total	0.00048 U	mg/L
APW17	Compliance	E001	04/25/2023	Dissolved Oxygen	1.20	mg/L
APW17	Compliance	E001	04/25/2023	Fluoride, total	0.483	mg/L
APW17	Compliance	E001	04/25/2023	Lead, total	0.00022 U	mg/L
APW17	Compliance	E001	04/25/2023	Lithium, total	0.005 U	mg/L
APW17	Compliance	E001	04/25/2023	Mercury, total	0.00014 U	mg/L
APW17	Compliance	E001	04/25/2023	Molybdenum, total	0.00530	mg/L
APW17	Compliance	E001	04/25/2023	Oxidation Reduction Potential	-97.2	mV
APW17	Compliance	E001	04/25/2023	Radium 226 + Radium 228, total	1.42	pCi/L
APW17	Compliance	E001	04/25/2023	Selenium, total	0.00074 U	mg/L
APW17	Compliance	E001	04/25/2023	Specific Conductance @ 25C (field)	1,162	micromhos/cm
APW17	Compliance	E001	04/25/2023	Sulfate, total	52.0	mg/L
APW17	Compliance	E001	04/25/2023	Temperature	15.2	degrees C
APW17	Compliance	E001	04/25/2023	Thallium, total	0.00038 U	mg/L
APW17	Compliance	E001	04/25/2023	Total Dissolved Solids	700	mg/L
APW17	Compliance	E001	04/25/2023	Turbidity, field	3.82	NTU
APW17	Compliance	E001	04/25/2023	pH (field)	7.6	SU
APW18	Compliance	E001	04/25/2023	Antimony, total	0.00043 U	mg/L
APW18	Compliance	E001	04/25/2023	Arsenic, total	0.00270	mg/L
APW18	Compliance	E001	04/25/2023	Barium, total	0.350	mg/L
APW18	Compliance	E001	04/25/2023	Beryllium, total	0.00059 U	mg/L
APW18	Compliance	E001	04/25/2023	Boron, total	0.100	mg/L
APW18	Compliance	E001	04/25/2023	Cadmium, total	0.00074 U	mg/L
APW18	Compliance	E001	04/25/2023	Calcium, total	75.0	mg/L
APW18	Compliance	E001	04/25/2023	Chloride, total	24.0	mg/L
APW18	Compliance	E001	04/25/2023	Chromium, total	0.0028 U	mg/L
APW18	Compliance	E001	04/25/2023	Cobalt, total	0.00048 U	mg/L
APW18	Compliance	E001	04/25/2023	Dissolved Oxygen	1.00	mg/L
APW18	Compliance	E001	04/25/2023	Fluoride, total	0.518	mg/L
APW18	Compliance	E001	04/25/2023	Lead, total	0.00022 U	mg/L
APW18	Compliance	E001	04/25/2023	Lithium, total	0.0052 J	mg/L
APW18	Compliance	E001	04/25/2023	Mercury, total	0.00014 U	mg/L
APW18	Compliance	E001	04/25/2023	Molybdenum, total	0.00290	mg/L
APW18	Compliance	E001	04/25/2023	Oxidation Reduction Potential	-137	mV
APW18	Compliance	E001	04/25/2023	Radium 226 + Radium 228, total	1.33	pCi/L

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

845 QUARTERLY REPORT  
 NEWTON POWER PLANT  
 PRIMARY ASH POND  
 NEWTON, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
APW18	Compliance	E001	04/25/2023	Selenium, total	0.00074 U	mg/L
APW18	Compliance	E001	04/25/2023	Specific Conductance @ 25C (field)	1,012	micromhos/cm
APW18	Compliance	E001	04/25/2023	Sulfate, total	52.0	mg/L
APW18	Compliance	E001	04/25/2023	Temperature	15.2	degrees C
APW18	Compliance	E001	04/25/2023	Thallium, total	0.00038 U	mg/L
APW18	Compliance	E001	04/25/2023	Total Dissolved Solids	660	mg/L
APW18	Compliance	E001	04/25/2023	Turbidity, field	5.01	NTU
APW18	Compliance	E001	04/25/2023	pH (field)	7.8	SU

**Notes:**

C = Celsius

cm = centimeter

mg/L = milligrams per liter

mV = millivolts

NTU = Nephelometric Turbidity Units

pCi/L = picocuries per liter

SU = Standard Units

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

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

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

**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023**  
 845 QUARTERLY REPORT  
 NEWTON POWER PLANT  
 PRIMARY ASH POND  
 NEWTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Exceedance Type
APW02	UD	E001	Antimony, total	mg/L	02/17/21 - 04/27/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
APW02	UD	E001	Arsenic, total	mg/L	02/17/21 - 04/27/23	10	70	CI around median	0.001	0.059	Background	No Exceedance
APW02	UD	E001	Barium, total	mg/L	02/17/21 - 04/27/23	10	0	CB around linear reg	0.00275	2	Standard	No Exceedance
APW02	UD	E001	Beryllium, total	mg/L	02/17/21 - 04/27/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
APW02	UD	E001	Boron, total	mg/L	02/17/21 - 04/27/23	10	0	CI around geomean	0.105	2	Standard	No Exceedance
APW02	UD	E001	Cadmium, total	mg/L	02/17/21 - 04/27/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
APW02	UD	E001	Chloride, total	mg/L	02/17/21 - 04/27/23	10	0	CI around mean	100	200	Standard	No Exceedance
APW02	UD	E001	Chromium, total	mg/L	02/17/21 - 04/27/23	10	90	Most recent sample	0.004	0.1	Standard	No Exceedance
APW02	UD	E001	Cobalt, total	mg/L	02/17/21 - 04/27/23	10	100	All ND - Last	0.002	0.006	Standard	No Exceedance
APW02	UD	E001	Fluoride, total	mg/L	02/17/21 - 04/27/23	10	100	All ND - Last	0.25	4	Standard	No Exceedance
APW02	UD	E001	Lead, total	mg/L	02/17/21 - 04/27/23	10	90	CI around median	0.001	0.0075	Standard	No Exceedance
APW02	UD	E001	Lithium, total	mg/L	02/17/21 - 04/27/23	10	0	CI around geomean	0.0888	0.04	Standard	Determined
APW02	UD	E001	Mercury, total	mg/L	02/17/21 - 04/27/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
APW02	UD	E001	Molybdenum, total	mg/L	02/17/21 - 04/27/23	9	67	CI around median	0.001	0.1	Standard	No Exceedance
APW02	UD	E001	Radium 226 + Radium 228, total	pCi/L	02/17/21 - 04/27/23	9	0	CI around mean	0.227	6.9	Background	No Exceedance
APW02	UD	E001	Selenium, total	mg/L	02/17/21 - 04/27/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
APW02	UD	E001	Sulfate, total	mg/L	02/17/21 - 04/27/23	10	0	CI around median	2,900	400	Standard	Determined
APW02	UD	E001	Thallium, total	mg/L	02/17/21 - 04/27/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
APW02	UD	E001	Total Dissolved Solids	mg/L	02/17/21 - 04/27/23	16	0	CB around linear reg	5,180	1,200	Standard	Determined
APW02	UD	E001	pH (field)	SU	02/17/21 - 04/27/23	16	0	CI around mean	6.6/6.8	6.4/9	Background/Standard	No Exceedance
APW03	UD	E001	Antimony, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
APW03	UD	E001	Arsenic, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.001	0.059	Background	No Exceedance
APW03	UD	E001	Barium, total	mg/L	02/18/21 - 04/25/23	10	0	CI around mean	0.0648	2	Standard	No Exceedance
APW03	UD	E001	Beryllium, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
APW03	UD	E001	Boron, total	mg/L	02/18/21 - 04/25/23	10	0	CI around geomean	0.377	2	Standard	No Exceedance
APW03	UD	E001	Cadmium, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
APW03	UD	E001	Chloride, total	mg/L	02/18/21 - 04/25/23	10	0	CI around mean	7.35	200	Standard	No Exceedance

**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023**  
845 QUARTERLY REPORT  
NEWTON POWER PLANT  
PRIMARY ASH POND  
NEWTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Exceedance Type
APW03	UD	E001	Chromium, total	mg/L	02/18/21 - 04/25/23	10	90	CI around median	0.004	0.1	Standard	No Exceedance
APW03	UD	E001	Cobalt, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.002	0.006	Standard	No Exceedance
APW03	UD	E001	Fluoride, total	mg/L	02/18/21 - 04/25/23	10	90	CI around median	0.25	4	Standard	No Exceedance
APW03	UD	E001	Lead, total	mg/L	02/18/21 - 04/25/23	10	90	CI around median	0.001	0.0075	Standard	No Exceedance
APW03	UD	E001	Lithium, total	mg/L	02/18/21 - 04/25/23	10	40	CI around median	0.02	0.04	Standard	No Exceedance
APW03	UD	E001	Mercury, total	mg/L	02/18/21 - 04/25/23	10	90	CI around median	0.0002	0.002	Standard	No Exceedance
APW03	UD	E001	Molybdenum, total	mg/L	02/18/21 - 04/25/23	9	11	CI around mean	0.000992	0.1	Standard	No Exceedance
APW03	UD	E001	Radium 226 + Radium 228, total	pCi/L	02/18/21 - 04/25/23	9	0	CI around mean	0.123	6.9	Background	No Exceedance
APW03	UD	E001	Selenium, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
APW03	UD	E001	Sulfate, total	mg/L	02/18/21 - 04/25/23	10	0	CI around mean	139	400	Standard	No Exceedance
APW03	UD	E001	Thallium, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
APW03	UD	E001	Total Dissolved Solids	mg/L	02/18/21 - 04/25/23	16	0	CI around mean	628	1,200	Standard	No Exceedance
APW03	UD	E001	pH (field)	SU	02/18/21 - 04/25/23	16	0	CI around mean	6.8/7.2	6.4/9	Background/Standard	No Exceedance
APW04	UD	E001	Antimony, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
APW04	UD	E001	Arsenic, total	mg/L	02/18/21 - 04/25/23	10	40	CI around geomean	0.000941	0.059	Background	No Exceedance
APW04	UD	E001	Barium, total	mg/L	02/18/21 - 04/25/23	10	0	CI around mean	0.0181	2	Standard	No Exceedance
APW04	UD	E001	Beryllium, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
APW04	UD	E001	Boron, total	mg/L	02/18/21 - 04/25/23	10	0	CI around median	0.024	2	Standard	No Exceedance
APW04	UD	E001	Cadmium, total	mg/L	02/18/21 - 04/25/23	10	90	CI around median	0.001	0.005	Standard	No Exceedance
APW04	UD	E001	Chloride, total	mg/L	02/18/21 - 04/25/23	10	0	CI around mean	29.3	200	Standard	No Exceedance
APW04	UD	E001	Chromium, total	mg/L	02/18/21 - 04/25/23	10	90	CI around median	0.004	0.1	Standard	No Exceedance
APW04	UD	E001	Cobalt, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.002	0.006	Standard	No Exceedance
APW04	UD	E001	Fluoride, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.25	4	Standard	No Exceedance
APW04	UD	E001	Lead, total	mg/L	02/18/21 - 04/25/23	10	60	CI around median	0.001	0.0075	Standard	No Exceedance
APW04	UD	E001	Lithium, total	mg/L	02/18/21 - 04/25/23	10	30	CI around median	0.02	0.04	Standard	No Exceedance
APW04	UD	E001	Mercury, total	mg/L	02/18/21 - 04/25/23	10	90	CI around median	0.0002	0.002	Standard	No Exceedance
APW04	UD	E001	Molybdenum, total	mg/L	02/18/21 - 04/25/23	9	89	CI around median	0.001	0.1	Standard	No Exceedance

**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023**  
 845 QUARTERLY REPORT  
 NEWTON POWER PLANT  
 PRIMARY ASH POND  
 NEWTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Exceedance Type
APW04	UD	E001	Radium 226 + Radium 228, total	pCi/L	02/18/21 - 04/25/23	9	0	CI around mean	0.0207	6.9	Background	No Exceedance
APW04	UD	E001	Selenium, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
APW04	UD	E001	Sulfate, total	mg/L	02/18/21 - 04/25/23	10	0	CI around mean	844	400	Standard	Determined
APW04	UD	E001	Thallium, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
APW04	UD	E001	Total Dissolved Solids	mg/L	02/18/21 - 04/25/23	16	0	CI around mean	1,710	1,200	Standard	Determined
APW04	UD	E001	pH (field)	SU	02/18/21 - 04/25/23	16	0	CB around linear reg	6.9/8.0	6.4/9	Background/Standard	No Exceedance
APW05S	UD	E001	Antimony, total	mg/L	02/17/21 - 04/26/23	9	100	All ND - Last	0.003	0.006	Standard	No Exceedance
APW05S	UD	E001	Arsenic, total	mg/L	02/17/21 - 04/26/23	9	33	CI around mean	0.00105	0.059	Background	No Exceedance
APW05S	UD	E001	Barium, total	mg/L	02/17/21 - 04/26/23	9	0	CI around median	0.048	2	Standard	No Exceedance
APW05S	UD	E001	Beryllium, total	mg/L	02/17/21 - 04/26/23	9	100	All ND - Last	0.001	0.004	Standard	No Exceedance
APW05S	UD	E001	Boron, total	mg/L	02/17/21 - 04/26/23	9	0	CI around median	0.04	2	Standard	No Exceedance
APW05S	UD	E001	Cadmium, total	mg/L	02/17/21 - 04/26/23	9	89	CI around median	0.001	0.005	Standard	No Exceedance
APW05S	UD	E001	Chloride, total	mg/L	02/17/21 - 04/26/23	9	0	CI around median	190	200	Standard	No Exceedance
APW05S	UD	E001	Chromium, total	mg/L	02/17/21 - 04/26/23	9	89	CI around median	0.004	0.1	Standard	No Exceedance
APW05S	UD	E001	Cobalt, total	mg/L	02/17/21 - 04/26/23	9	33	CI around geomean	0.00185	0.006	Standard	No Exceedance
APW05S	UD	E001	Fluoride, total	mg/L	02/17/21 - 04/26/23	9	0	CI around mean	0.349	4	Standard	No Exceedance
APW05S	UD	E001	Lead, total	mg/L	02/17/21 - 04/26/23	9	89	CI around median	0.001	0.0075	Standard	No Exceedance
APW05S	UD	E001	Lithium, total	mg/L	02/17/21 - 04/26/23	9	0	CI around geomean	0.0332	0.04	Standard	No Exceedance
APW05S	UD	E001	Mercury, total	mg/L	02/17/21 - 04/26/23	9	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
APW05S	UD	E001	Molybdenum, total	mg/L	02/17/21 - 04/26/23	8	0	CB around linear reg	-0.000835	0.1	Standard	No Exceedance
APW05S	UD	E001	Radium 226 + Radium 228, total	pCi/L	02/17/21 - 04/26/23	8	0	CI around geomean	0.128	6.9	Background	No Exceedance
APW05S	UD	E001	Selenium, total	mg/L	02/17/21 - 04/26/23	9	100	All ND - Last	0.001	0.05	Standard	No Exceedance
APW05S	UD	E001	Sulfate, total	mg/L	02/17/21 - 04/26/23	9	0	CI around median	640	400	Standard	Determined
APW05S	UD	E001	Thallium, total	mg/L	02/17/21 - 04/26/23	9	100	All ND - Last	0.001	0.002	Standard	No Exceedance
APW05S	UD	E001	Total Dissolved Solids	mg/L	02/17/21 - 04/26/23	9	0	CI around mean	3,450	1,200	Standard	Determined
APW05S	UD	E001	pH (field)	SU	02/17/21 - 04/26/23	9	0	CI around mean	6.7/7.0	6.4/9	Background/Standard	No Exceedance
APW07	UA	E001	Antimony, total	mg/L	12/15/15 - 04/27/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance

**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023**  
845 QUARTERLY REPORT  
NEWTON POWER PLANT  
PRIMARY ASH POND  
NEWTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Exceedance Type
APW07	UA	E001	Arsenic, total	mg/L	12/15/15 - 04/27/23	12	0	CB around linear reg	0.0127	0.059	Background	No Exceedance
APW07	UA	E001	Barium, total	mg/L	12/15/15 - 04/27/23	12	0	CB around linear reg	0.465	2	Standard	No Exceedance
APW07	UA	E001	Beryllium, total	mg/L	12/15/15 - 04/27/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
APW07	UA	E001	Boron, total	mg/L	12/15/15 - 04/27/23	22	0	CB around T-S line	0.0841	2	Standard	No Exceedance
APW07	UA	E001	Cadmium, total	mg/L	12/15/15 - 04/27/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
APW07	UA	E001	Chloride, total	mg/L	12/15/15 - 04/27/23	24	0	CB around T-S line	57.5	200	Standard	No Exceedance
APW07	UA	E001	Chromium, total	mg/L	12/15/15 - 04/27/23	12	75	CI around median	0.004	0.1	Standard	No Exceedance
APW07	UA	E001	Cobalt, total	mg/L	12/15/15 - 04/27/23	11	82	CI around median	0.002	0.006	Standard	No Exceedance
APW07	UA	E001	Fluoride, total	mg/L	12/15/15 - 04/27/23	22	4	CI around mean	0.36	4	Standard	No Exceedance
APW07	UA	E001	Lead, total	mg/L	12/15/15 - 04/27/23	12	58	CI around median	0.001	0.0075	Standard	No Exceedance
APW07	UA	E001	Lithium, total	mg/L	12/15/15 - 04/27/23	12	100	All ND - Last	0.02	0.04	Standard	No Exceedance
APW07	UA	E001	Mercury, total	mg/L	12/15/15 - 04/27/23	12	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
APW07	UA	E001	Molybdenum, total	mg/L	12/15/15 - 04/27/23	11	0	CB around linear reg	-0.00442	0.1	Standard	No Exceedance
APW07	UA	E001	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 04/27/23	12	0	CI around mean	1.31	6.9	Background	No Exceedance
APW07	UA	E001	Selenium, total	mg/L	12/15/15 - 04/27/23	12	100	All ND - Last	0.001	0.05	Standard	No Exceedance
APW07	UA	E001	Sulfate, total	mg/L	12/15/15 - 04/27/23	23	17	CB around T-S line	6.15	400	Standard	No Exceedance
APW07	UA	E001	Thallium, total	mg/L	12/15/15 - 04/27/23	11	100	All ND - Last	0.001	0.002	Standard	No Exceedance
APW07	UA	E001	Total Dissolved Solids	mg/L	12/15/15 - 04/27/23	22	0	CI around mean	486	1,200	Standard	No Exceedance
APW07	UA	E001	pH (field)	SU	12/15/15 - 04/27/23	24	0	CI around mean	7.1/7.3	6.4/9	Background/Standard	No Exceedance
APW08	UA	E001	Antimony, total	mg/L	12/15/15 - 04/26/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
APW08	UA	E001	Arsenic, total	mg/L	12/15/15 - 04/26/23	12	0	CB around linear reg	0.0188	0.059	Background	No Exceedance
APW08	UA	E001	Barium, total	mg/L	12/15/15 - 04/26/23	12	0	CB around linear reg	0.444	2	Standard	No Exceedance
APW08	UA	E001	Beryllium, total	mg/L	12/15/15 - 04/26/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
APW08	UA	E001	Boron, total	mg/L	12/15/15 - 04/26/23	22	0	CI around geomean	0.0816	2	Standard	No Exceedance
APW08	UA	E001	Cadmium, total	mg/L	12/15/15 - 04/26/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
APW08	UA	E001	Chloride, total	mg/L	12/15/15 - 04/26/23	24	0	CI around mean	54.7	200	Standard	No Exceedance
APW08	UA	E001	Chromium, total	mg/L	12/15/15 - 04/26/23	12	58	CI around median	0.004	0.1	Standard	No Exceedance



**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023**  
845 QUARTERLY REPORT  
NEWTON POWER PLANT  
PRIMARY ASH POND  
NEWTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Exceedance Type
APW08	UA	E001	Cobalt, total	mg/L	12/15/15 - 04/26/23	11	73	CI around median	0.002	0.006	Standard	No Exceedance
APW08	UA	E001	Fluoride, total	mg/L	12/15/15 - 04/26/23	22	9	CI around median	0.373	4	Standard	No Exceedance
APW08	UA	E001	Lead, total	mg/L	12/15/15 - 04/26/23	12	50	CI around median	0.001	0.0075	Standard	No Exceedance
APW08	UA	E001	Lithium, total	mg/L	12/15/15 - 04/26/23	12	67	CI around median	0.01	0.04	Standard	No Exceedance
APW08	UA	E001	Mercury, total	mg/L	12/15/15 - 04/26/23	12	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
APW08	UA	E001	Molybdenum, total	mg/L	12/15/15 - 04/26/23	11	0	CI around mean	0.00453	0.1	Standard	No Exceedance
APW08	UA	E001	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 04/26/23	12	0	CI around mean	1.03	6.9	Background	No Exceedance
APW08	UA	E001	Selenium, total	mg/L	12/15/15 - 04/26/23	12	92	CI around median	0.001	0.05	Standard	No Exceedance
APW08	UA	E001	Sulfate, total	mg/L	12/15/15 - 04/26/23	23	0	CB around linear reg	44	400	Standard	No Exceedance
APW08	UA	E001	Thallium, total	mg/L	12/15/15 - 04/26/23	11	100	All ND - Last	0.001	0.002	Standard	No Exceedance
APW08	UA	E001	Total Dissolved Solids	mg/L	12/15/15 - 04/26/23	22	0	CB around linear reg	592	1,200	Standard	No Exceedance
APW08	UA	E001	pH (field)	SU	12/15/15 - 04/26/23	25	0	CI around mean	7.2/7.4	6.4/9	Background/Standard	No Exceedance
APW09	UA	E001	Antimony, total	mg/L	12/15/15 - 04/27/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
APW09	UA	E001	Arsenic, total	mg/L	12/15/15 - 04/27/23	12	0	CB around linear reg	0.0223	0.059	Background	No Exceedance
APW09	UA	E001	Barium, total	mg/L	12/15/15 - 04/27/23	12	0	CI around mean	0.277	2	Standard	No Exceedance
APW09	UA	E001	Beryllium, total	mg/L	12/15/15 - 04/27/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
APW09	UA	E001	Boron, total	mg/L	12/15/15 - 04/27/23	22	0	CB around T-S line	0.0809	2	Standard	No Exceedance
APW09	UA	E001	Cadmium, total	mg/L	12/15/15 - 04/27/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
APW09	UA	E001	Chloride, total	mg/L	12/15/15 - 04/27/23	24	0	CI around median	95	200	Standard	No Exceedance
APW09	UA	E001	Chromium, total	mg/L	12/15/15 - 04/27/23	12	67	CB around T-S line	0.004	0.1	Standard	No Exceedance
APW09	UA	E001	Cobalt, total	mg/L	12/15/15 - 04/27/23	11	91	CI around median	0.002	0.006	Standard	No Exceedance
APW09	UA	E001	Fluoride, total	mg/L	12/15/15 - 04/27/23	22	4	CI around mean	0.438	4	Standard	No Exceedance
APW09	UA	E001	Lead, total	mg/L	12/15/15 - 04/27/23	12	50	CI around median	0.001	0.0075	Standard	No Exceedance
APW09	UA	E001	Lithium, total	mg/L	12/15/15 - 04/27/23	12	100	All ND - Last	0.02	0.04	Standard	No Exceedance
APW09	UA	E001	Mercury, total	mg/L	12/15/15 - 04/27/23	12	83	CI around median	0.0002	0.002	Standard	No Exceedance
APW09	UA	E001	Molybdenum, total	mg/L	12/15/15 - 04/27/23	11	0	CB around linear reg	-0.00854	0.1	Standard	No Exceedance
APW09	UA	E001	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 04/27/23	12	0	CI around geomean	0.828	6.9	Background	No Exceedance

**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023**  
845 QUARTERLY REPORT  
NEWTON POWER PLANT  
PRIMARY ASH POND  
NEWTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Exceedance Type
APW09	UA	E001	Selenium, total	mg/L	12/15/15 - 04/27/23	12	92	CI around median	0.001	0.05	Standard	No Exceedance
APW09	UA	E001	Sulfate, total	mg/L	12/15/15 - 04/27/23	23	9	CI around geomean	4	400	Standard	No Exceedance
APW09	UA	E001	Thallium, total	mg/L	12/15/15 - 04/27/23	11	100	All ND - Last	0.001	0.002	Standard	No Exceedance
APW09	UA	E001	Total Dissolved Solids	mg/L	12/15/15 - 04/27/23	23	0	CB around T-S line	734	1,200	Standard	No Exceedance
APW09	UA	E001	pH (field)	SU	12/15/15 - 04/27/23	24	0	CI around median	7.4/7.5	6.4/9	Background/Standard	No Exceedance
APW10	UA	E001	Antimony, total	mg/L	12/16/15 - 04/27/23	13	100	All ND - Last	0.003	0.006	Standard	No Exceedance
APW10	UA	E001	Arsenic, total	mg/L	12/16/15 - 04/27/23	14	0	CI around mean	0.0059	0.059	Background	No Exceedance
APW10	UA	E001	Barium, total	mg/L	12/16/15 - 04/27/23	14	0	CI around mean	0.0286	2	Standard	No Exceedance
APW10	UA	E001	Beryllium, total	mg/L	12/16/15 - 04/27/23	13	100	All ND - Last	0.001	0.004	Standard	No Exceedance
APW10	UA	E001	Boron, total	mg/L	12/16/15 - 04/27/23	24	0	CB around linear reg	0.0764	2	Standard	No Exceedance
APW10	UA	E001	Cadmium, total	mg/L	12/16/15 - 04/27/23	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
APW10	UA	E001	Chloride, total	mg/L	12/16/15 - 04/27/23	25	0	CI around mean	45.4	200	Standard	No Exceedance
APW10	UA	E001	Chromium, total	mg/L	12/16/15 - 04/27/23	14	100	All ND - Last	0.004	0.1	Standard	No Exceedance
APW10	UA	E001	Cobalt, total	mg/L	12/16/15 - 04/27/23	13	92	CI around median	0.002	0.006	Standard	No Exceedance
APW10	UA	E001	Fluoride, total	mg/L	12/16/15 - 04/27/23	24	21	CI around mean	0.298	4	Standard	No Exceedance
APW10	UA	E001	Lead, total	mg/L	12/16/15 - 04/27/23	14	86	CI around median	0.001	0.0075	Standard	No Exceedance
APW10	UA	E001	Lithium, total	mg/L	12/16/15 - 04/27/23	14	7	CB around linear reg	0.0132	0.04	Standard	No Exceedance
APW10	UA	E001	Mercury, total	mg/L	12/16/15 - 04/27/23	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
APW10	UA	E001	Molybdenum, total	mg/L	12/16/15 - 04/27/23	13	0	CB around linear reg	0.00524	0.1	Standard	No Exceedance
APW10	UA	E001	Radium 226 + Radium 228, total	pCi/L	12/16/15 - 04/27/23	14	0	CI around mean	0.442	6.9	Background	No Exceedance
APW10	UA	E001	Selenium, total	mg/L	12/16/15 - 04/27/23	14	100	All ND - Last	0.001	0.05	Standard	No Exceedance
APW10	UA	E001	Sulfate, total	mg/L	12/16/15 - 04/27/23	25	0	CI around median	410	400	Standard	Determined
APW10	UA	E001	Thallium, total	mg/L	12/16/15 - 04/27/23	13	100	All ND - Last	0.001	0.002	Standard	No Exceedance
APW10	UA	E001	Total Dissolved Solids	mg/L	12/16/15 - 04/27/23	26	0	CB around linear reg	1,030	1,200	Standard	No Exceedance
APW10	UA	E001	pH (field)	SU	12/16/15 - 04/27/23	27	0	CB around linear reg	7.2/7.5	6.4/9	Background/Standard	No Exceedance
APW11	UA	E001	Antimony, total	mg/L	02/18/21 - 04/26/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
APW11	UA	E001	Arsenic, total	mg/L	02/18/21 - 04/26/23	10	0	CI around mean	0.0015	0.059	Background	No Exceedance



**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023**  
 845 QUARTERLY REPORT  
 NEWTON POWER PLANT  
 PRIMARY ASH POND  
 NEWTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Exceedance Type
APW11	UA	E001	Barium, total	mg/L	02/18/21 - 04/26/23	10	0	CB around T-S line	-0.566	2	Standard	No Exceedance
APW11	UA	E001	Beryllium, total	mg/L	02/18/21 - 04/26/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
APW11	UA	E001	Boron, total	mg/L	02/18/21 - 04/26/23	10	0	CI around median	0.063	2	Standard	No Exceedance
APW11	UA	E001	Cadmium, total	mg/L	02/18/21 - 04/26/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
APW11	UA	E001	Chloride, total	mg/L	02/18/21 - 04/26/23	10	0	CI around median	26	200	Standard	No Exceedance
APW11	UA	E001	Chromium, total	mg/L	02/18/21 - 04/26/23	10	70	CI around median	0.004	0.1	Standard	No Exceedance
APW11	UA	E001	Cobalt, total	mg/L	02/18/21 - 04/26/23	10	70	CI around median	0.002	0.006	Standard	No Exceedance
APW11	UA	E001	Fluoride, total	mg/L	02/18/21 - 04/26/23	10	50	CI around geomean	0.245	4	Standard	No Exceedance
APW11	UA	E001	Lead, total	mg/L	02/18/21 - 04/26/23	10	60	CI around median	0.001	0.0075	Standard	No Exceedance
APW11	UA	E001	Lithium, total	mg/L	02/18/21 - 04/26/23	10	10	CI around mean	0.0175	0.04	Standard	No Exceedance
APW11	UA	E001	Mercury, total	mg/L	02/18/21 - 04/26/23	10	80	CI around median	0.0002	0.002	Standard	No Exceedance
APW11	UA	E001	Molybdenum, total	mg/L	02/18/21 - 04/26/23	9	0	CB around T-S line	-0.0661	0.1	Standard	No Exceedance
APW11	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/18/21 - 04/26/23	9	0	CI around mean	0.424	6.9	Background	No Exceedance
APW11	UA	E001	Selenium, total	mg/L	02/18/21 - 04/26/23	10	80	CI around median	0.001	0.05	Standard	No Exceedance
APW11	UA	E001	Sulfate, total	mg/L	02/18/21 - 04/26/23	10	0	CI around median	260	400	Standard	No Exceedance
APW11	UA	E001	Thallium, total	mg/L	02/18/21 - 04/26/23	10	90	CI around median	0.001	0.002	Standard	No Exceedance
APW11	UA	E001	Total Dissolved Solids	mg/L	02/18/21 - 04/26/23	10	0	CI around mean	809	1,200	Standard	No Exceedance
APW11	UA	E001	pH (field)	SU	02/18/21 - 04/26/23	10	0	CI around median	6.6/7.2	6.4/9	Background/Standard	No Exceedance
APW12	UD	E001	Antimony, total	mg/L	02/17/21 - 04/26/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
APW12	UD	E001	Arsenic, total	mg/L	02/17/21 - 04/26/23	10	0	CI around mean	0.00155	0.059	Background	No Exceedance
APW12	UD	E001	Barium, total	mg/L	02/17/21 - 04/26/23	10	0	CB around linear reg	0.0133	2	Standard	No Exceedance
APW12	UD	E001	Beryllium, total	mg/L	02/17/21 - 04/26/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
APW12	UD	E001	Boron, total	mg/L	02/17/21 - 04/26/23	10	0	CI around mean	0.18	2	Standard	No Exceedance
APW12	UD	E001	Cadmium, total	mg/L	02/17/21 - 04/26/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
APW12	UD	E001	Chloride, total	mg/L	02/17/21 - 04/26/23	10	0	CI around mean	21.3	200	Standard	No Exceedance
APW12	UD	E001	Chromium, total	mg/L	02/17/21 - 04/26/23	10	100	All ND - Last	0.004	0.1	Standard	No Exceedance
APW12	UD	E001	Cobalt, total	mg/L	02/17/21 - 04/26/23	10	20	CB around linear reg	-0.00198	0.006	Standard	No Exceedance

**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023**  
845 QUARTERLY REPORT  
NEWTON POWER PLANT  
PRIMARY ASH POND  
NEWTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Exceedance Type
APW12	UD	E001	Fluoride, total	mg/L	02/17/21 - 04/26/23	10	100	All ND - Last	0.25	4	Standard	No Exceedance
APW12	UD	E001	Lead, total	mg/L	02/17/21 - 04/26/23	10	90	CI around median	0.001	0.0075	Standard	No Exceedance
APW12	UD	E001	Lithium, total	mg/L	02/17/21 - 04/26/23	10	0	CI around geomean	0.0244	0.04	Standard	No Exceedance
APW12	UD	E001	Mercury, total	mg/L	02/17/21 - 04/26/23	10	90	CI around median	0.0002	0.002	Standard	No Exceedance
APW12	UD	E001	Molybdenum, total	mg/L	02/17/21 - 04/26/23	9	44	CI around geomean	0.000964	0.1	Standard	No Exceedance
APW12	UD	E001	Radium 226 + Radium 228, total	pCi/L	02/17/21 - 04/26/23	9	0	CI around geomean	0.14	6.9	Background	No Exceedance
APW12	UD	E001	Selenium, total	mg/L	02/17/21 - 04/26/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
APW12	UD	E001	Sulfate, total	mg/L	02/17/21 - 04/26/23	10	0	CI around mean	253	400	Standard	No Exceedance
APW12	UD	E001	Thallium, total	mg/L	02/17/21 - 04/26/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
APW12	UD	E001	Total Dissolved Solids	mg/L	02/17/21 - 04/26/23	10	0	CI around mean	1,160	1,200	Standard	No Exceedance
APW12	UD	E001	pH (field)	SU	02/17/21 - 04/26/23	10	0	CI around mean	6.2/6.6	6.4/9	Background/Standard	No Exceedance
APW13	UA	E001	Antimony, total	mg/L	02/22/21 - 04/27/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
APW13	UA	E001	Arsenic, total	mg/L	02/22/21 - 04/27/23	10	0	CI around mean	0.00314	0.059	Background	No Exceedance
APW13	UA	E001	Barium, total	mg/L	02/22/21 - 04/27/23	10	0	CI around mean	0.05	2	Standard	No Exceedance
APW13	UA	E001	Beryllium, total	mg/L	02/22/21 - 04/27/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
APW13	UA	E001	Boron, total	mg/L	02/22/21 - 04/27/23	10	0	CI around mean	0.105	2	Standard	No Exceedance
APW13	UA	E001	Cadmium, total	mg/L	02/22/21 - 04/27/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
APW13	UA	E001	Chloride, total	mg/L	02/22/21 - 04/27/23	10	0	CI around mean	46.2	200	Standard	No Exceedance
APW13	UA	E001	Chromium, total	mg/L	02/22/21 - 04/27/23	10	100	All ND - Last	0.004	0.1	Standard	No Exceedance
APW13	UA	E001	Cobalt, total	mg/L	02/22/21 - 04/27/23	10	100	All ND - Last	0.002	0.006	Standard	No Exceedance
APW13	UA	E001	Fluoride, total	mg/L	02/22/21 - 04/27/23	10	10	CI around mean	0.285	4	Standard	No Exceedance
APW13	UA	E001	Lead, total	mg/L	02/22/21 - 04/27/23	10	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
APW13	UA	E001	Lithium, total	mg/L	02/22/21 - 04/27/23	10	0	CI around mean	0.0262	0.04	Standard	No Exceedance
APW13	UA	E001	Mercury, total	mg/L	02/22/21 - 04/27/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
APW13	UA	E001	Molybdenum, total	mg/L	02/22/21 - 04/27/23	9	0	CB around linear reg	-0.00498	0.1	Standard	No Exceedance
APW13	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/22/21 - 04/27/23	9	0	CI around mean	0.245	6.9	Background	No Exceedance
APW13	UA	E001	Selenium, total	mg/L	02/22/21 - 04/27/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance

**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023**  
 845 QUARTERLY REPORT  
 NEWTON POWER PLANT  
 PRIMARY ASH POND  
 NEWTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Exceedance Type
APW13	UA	E001	Sulfate, total	mg/L	02/22/21 - 04/27/23	10	0	CI around mean	210	400	Standard	No Exceedance
APW13	UA	E001	Thallium, total	mg/L	02/22/21 - 04/27/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
APW13	UA	E001	Total Dissolved Solids	mg/L	02/22/21 - 04/27/23	10	0	CI around mean	801	1,200	Standard	No Exceedance
APW13	UA	E001	pH (field)	SU	02/22/21 - 04/27/23	10	0	CI around median	7.1/7.3	6.4/9	Background/Standard	No Exceedance
APW14	UA	E001	Antimony, total	mg/L	02/22/21 - 04/28/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
APW14	UA	E001	Arsenic, total	mg/L	02/22/21 - 04/28/23	10	0	CI around mean	0.00506	0.059	Background	No Exceedance
APW14	UA	E001	Barium, total	mg/L	02/22/21 - 04/28/23	10	0	CI around mean	0.0752	2	Standard	No Exceedance
APW14	UA	E001	Beryllium, total	mg/L	02/22/21 - 04/28/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
APW14	UA	E001	Boron, total	mg/L	02/22/21 - 04/28/23	10	0	CI around mean	0.0949	2	Standard	No Exceedance
APW14	UA	E001	Cadmium, total	mg/L	02/22/21 - 04/28/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
APW14	UA	E001	Chloride, total	mg/L	02/22/21 - 04/28/23	10	0	CI around mean	41.8	200	Standard	No Exceedance
APW14	UA	E001	Chromium, total	mg/L	02/22/21 - 04/28/23	10	90	CI around median	0.004	0.1	Standard	No Exceedance
APW14	UA	E001	Cobalt, total	mg/L	02/22/21 - 04/28/23	10	90	CI around median	0.002	0.006	Standard	No Exceedance
APW14	UA	E001	Fluoride, total	mg/L	02/22/21 - 04/28/23	10	30	CI around mean	0.266	4	Standard	No Exceedance
APW14	UA	E001	Lead, total	mg/L	02/22/21 - 04/28/23	10	70	CI around median	0.001	0.0075	Standard	No Exceedance
APW14	UA	E001	Lithium, total	mg/L	02/22/21 - 04/28/23	10	20	CB around linear reg	-0.00217	0.04	Standard	No Exceedance
APW14	UA	E001	Mercury, total	mg/L	02/22/21 - 04/28/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
APW14	UA	E001	Molybdenum, total	mg/L	02/22/21 - 04/28/23	9	0	CB around linear reg	-0.0066	0.1	Standard	No Exceedance
APW14	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/22/21 - 04/28/23	9	0	CI around mean	0.372	6.9	Background	No Exceedance
APW14	UA	E001	Selenium, total	mg/L	02/22/21 - 04/28/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
APW14	UA	E001	Sulfate, total	mg/L	02/22/21 - 04/28/23	10	0	CI around median	320	400	Standard	No Exceedance
APW14	UA	E001	Thallium, total	mg/L	02/22/21 - 04/28/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
APW14	UA	E001	Total Dissolved Solids	mg/L	02/22/21 - 04/28/23	10	0	CI around mean	892	1,200	Standard	No Exceedance
APW14	UA	E001	pH (field)	SU	02/22/21 - 04/28/23	10	0	CI around median	7.3/7.5	6.4/9	Background/Standard	No Exceedance
APW15	UA	E001	Antimony, total	mg/L	02/23/21 - 04/26/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
APW15	UA	E001	Arsenic, total	mg/L	02/23/21 - 04/26/23	10	0	CI around mean	0.0166	0.059	Background	No Exceedance
APW15	UA	E001	Barium, total	mg/L	02/23/21 - 04/26/23	10	0	CI around mean	0.559	2	Standard	No Exceedance

**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023**  
 845 QUARTERLY REPORT  
 NEWTON POWER PLANT  
 PRIMARY ASH POND  
 NEWTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Exceedance Type
APW15	UA	E001	Beryllium, total	mg/L	02/23/21 - 04/26/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
APW15	UA	E001	Boron, total	mg/L	02/23/21 - 04/26/23	10	0	CI around mean	0.128	2	Standard	No Exceedance
APW15	UA	E001	Cadmium, total	mg/L	02/23/21 - 04/26/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
APW15	UA	E001	Chloride, total	mg/L	02/23/21 - 04/26/23	10	0	CI around median	230	200	Standard	Determined
APW15	UA	E001	Chromium, total	mg/L	02/23/21 - 04/26/23	10	80	CI around median	0.004	0.1	Standard	No Exceedance
APW15	UA	E001	Cobalt, total	mg/L	02/23/21 - 04/26/23	10	80	CI around median	0.002	0.006	Standard	No Exceedance
APW15	UA	E001	Fluoride, total	mg/L	02/23/21 - 04/26/23	10	0	CI around geomean	0.6	4	Standard	No Exceedance
APW15	UA	E001	Lead, total	mg/L	02/23/21 - 04/26/23	10	50	CI around median	0.001	0.0075	Standard	No Exceedance
APW15	UA	E001	Lithium, total	mg/L	02/23/21 - 04/26/23	10	80	CI around median	0.02	0.04	Standard	No Exceedance
APW15	UA	E001	Mercury, total	mg/L	02/23/21 - 04/26/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
APW15	UA	E001	Molybdenum, total	mg/L	02/23/21 - 04/26/23	9	0	CI around mean	0.00846	0.1	Standard	No Exceedance
APW15	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/23/21 - 04/26/23	9	0	CI around mean	1.5	6.9	Background	No Exceedance
APW15	UA	E001	Selenium, total	mg/L	02/23/21 - 04/26/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
APW15	UA	E001	Sulfate, total	mg/L	02/23/21 - 04/26/23	10	100	All ND - Last	1	400	Standard	No Exceedance
APW15	UA	E001	Thallium, total	mg/L	02/23/21 - 04/26/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
APW15	UA	E001	Total Dissolved Solids	mg/L	02/23/21 - 04/26/23	10	0	CI around mean	1,020	1,200	Standard	No Exceedance
APW15	UA	E001	pH (field)	SU	02/23/21 - 04/26/23	10	0	CI around median	7.0/7.3	6.4/9	Background/Standard	No Exceedance
APW16	UA	E001	Antimony, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
APW16	UA	E001	Arsenic, total	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	0.00767	0.059	Background	No Exceedance
APW16	UA	E001	Barium, total	mg/L	02/23/21 - 04/25/23	10	0	CB around linear reg	0.434	2	Standard	No Exceedance
APW16	UA	E001	Beryllium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
APW16	UA	E001	Boron, total	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	0.128	2	Standard	No Exceedance
APW16	UA	E001	Cadmium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
APW16	UA	E001	Chloride, total	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	66.1	200	Standard	No Exceedance
APW16	UA	E001	Chromium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.004	0.1	Standard	No Exceedance
APW16	UA	E001	Cobalt, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.002	0.006	Standard	No Exceedance
APW16	UA	E001	Fluoride, total	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	0.605	4	Standard	No Exceedance

**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023**  
845 QUARTERLY REPORT  
NEWTON POWER PLANT  
PRIMARY ASH POND  
NEWTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Exceedance Type
APW16	UA	E001	Lead, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
APW16	UA	E001	Lithium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.02	0.04	Standard	No Exceedance
APW16	UA	E001	Mercury, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
APW16	UA	E001	Molybdenum, total	mg/L	02/23/21 - 04/25/23	9	44	CB around linear reg	-0.00408	0.1	Standard	No Exceedance
APW16	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/23/21 - 04/25/23	9	0	CI around geomean	1.22	6.9	Background	No Exceedance
APW16	UA	E001	Selenium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
APW16	UA	E001	Sulfate, total	mg/L	02/23/21 - 04/25/23	10	90	CI around median	1	400	Standard	No Exceedance
APW16	UA	E001	Thallium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
APW16	UA	E001	Total Dissolved Solids	mg/L	02/23/21 - 04/25/23	10	0	CI around median	690	1,200	Standard	No Exceedance
APW16	UA	E001	pH (field)	SU	02/23/21 - 04/25/23	10	0	CI around mean	7.2/7.6	6.4/9	Background/Standard	No Exceedance
APW17	UA	E001	Antimony, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
APW17	UA	E001	Arsenic, total	mg/L	02/23/21 - 04/25/23	10	0	CB around linear reg	0.0181	0.059	Background	No Exceedance
APW17	UA	E001	Barium, total	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	0.565	2	Standard	No Exceedance
APW17	UA	E001	Beryllium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
APW17	UA	E001	Boron, total	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	0.0839	2	Standard	No Exceedance
APW17	UA	E001	Cadmium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
APW17	UA	E001	Chloride, total	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	43.9	200	Standard	No Exceedance
APW17	UA	E001	Chromium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.004	0.1	Standard	No Exceedance
APW17	UA	E001	Cobalt, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.002	0.006	Standard	No Exceedance
APW17	UA	E001	Fluoride, total	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	0.394	4	Standard	No Exceedance
APW17	UA	E001	Lead, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
APW17	UA	E001	Lithium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.02	0.04	Standard	No Exceedance
APW17	UA	E001	Mercury, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
APW17	UA	E001	Molybdenum, total	mg/L	02/23/21 - 04/25/23	9	0	CI around median	0.0048	0.1	Standard	No Exceedance
APW17	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/23/21 - 04/25/23	9	0	CI around mean	0.644	6.9	Background	No Exceedance
APW17	UA	E001	Selenium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
APW17	UA	E001	Sulfate, total	mg/L	02/23/21 - 04/25/23	10	10	CI around mean	26.7	400	Standard	No Exceedance

**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023**  
845 QUARTERLY REPORT  
NEWTON POWER PLANT  
PRIMARY ASH POND  
NEWTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Exceedance Type
APW17	UA	E001	Thallium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
APW17	UA	E001	Total Dissolved Solids	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	631	1,200	Standard	No Exceedance
APW17	UA	E001	pH (field)	SU	02/23/21 - 04/25/23	10	0	CI around mean	7.3/7.6	6.4/9	Background/Standard	No Exceedance
APW18	UA	E001	Antimony, total	mg/L	02/23/21 - 04/25/23	10	90	CI around median	0.003	0.006	Standard	No Exceedance
APW18	UA	E001	Arsenic, total	mg/L	02/23/21 - 04/25/23	10	10	CI around mean	0.00144	0.059	Background	No Exceedance
APW18	UA	E001	Barium, total	mg/L	02/23/21 - 04/25/23	10	0	CI around median	0.33	2	Standard	No Exceedance
APW18	UA	E001	Beryllium, total	mg/L	02/23/21 - 04/25/23	10	90	CI around median	0.001	0.004	Standard	No Exceedance
APW18	UA	E001	Boron, total	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	0.103	2	Standard	No Exceedance
APW18	UA	E001	Cadmium, total	mg/L	02/23/21 - 04/25/23	10	90	CI around median	0.001	0.005	Standard	No Exceedance
APW18	UA	E001	Chloride, total	mg/L	02/23/21 - 04/25/23	10	0	CB around T-S line	-243	200	Standard	No Exceedance
APW18	UA	E001	Chromium, total	mg/L	02/23/21 - 04/25/23	10	70	CI around median	0.004	0.1	Standard	No Exceedance
APW18	UA	E001	Cobalt, total	mg/L	02/23/21 - 04/25/23	10	70	CI around median	0.002	0.006	Standard	No Exceedance
APW18	UA	E001	Fluoride, total	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	0.677	4	Standard	No Exceedance
APW18	UA	E001	Lead, total	mg/L	02/23/21 - 04/25/23	10	50	CB around linear reg	-0.00473	0.0075	Standard	No Exceedance
APW18	UA	E001	Lithium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.02	0.04	Standard	No Exceedance
APW18	UA	E001	Mercury, total	mg/L	02/23/21 - 04/25/23	10	90	CI around median	0.0002	0.002	Standard	No Exceedance
APW18	UA	E001	Molybdenum, total	mg/L	02/23/21 - 04/25/23	9	0	CB around linear reg	-0.0288	0.1	Standard	No Exceedance
APW18	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/23/21 - 04/25/23	9	0	CI around mean	1.38	6.9	Background	No Exceedance
APW18	UA	E001	Selenium, total	mg/L	02/23/21 - 04/25/23	10	90	CI around median	0.001	0.05	Standard	No Exceedance
APW18	UA	E001	Sulfate, total	mg/L	02/23/21 - 04/25/23	10	20	CI around geomean	1.82	400	Standard	No Exceedance
APW18	UA	E001	Thallium, total	mg/L	02/23/21 - 04/25/23	10	80	CI around median	0.001	0.002	Standard	No Exceedance
APW18	UA	E001	Total Dissolved Solids	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	508	1,200	Standard	No Exceedance
APW18	UA	E001	pH (field)	SU	02/23/21 - 04/25/23	10	0	CI around mean	7.5/7.8	6.4/9	Background/Standard	No Exceedance



**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023**

845 QUARTERLY REPORT  
NEWTON POWER PLANT  
PRIMARY ASH POND  
NEWTON, IL

**Notes:**

**Determined: An exceedance was determined upon without resampling**

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

UD = Upper Drift

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 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 Statistical Analysis Plan using constituent concentrations observed at monitoring well during all sampling events within the specified date range

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

GWPS = Groundwater Protection Standard

GWPS Source:

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

Background = background concentration (see cover page for additional information)

## FIGURES





- COMPLIANCE WELL
- BACKGROUND WELL
- STAFF GAUGE
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- PROPERTY BOUNDARY



**35 I.A.C. § 845 GROUNDWATER MONITORING WELL NETWORK**

**PRIMARY ASH POND**  
 NEWTON POWER PLANT  
 NEWTON, ILLINOIS

**FIGURE 1**

RAMBOLL AMERICAS  
 ENGINEERING SOLUTIONS, INC.





## **ATTACHMENTS**

**ATTACHMENT A  
GROUNDWATER ELEVATION DATA  
QUARTER 2 2023**

**ATTACHMENT A.**  
**GROUNDWATER ELEVATION DATA - QUARTER 2, 2023**

845 QUARTERLY REPORT  
 NEWTON POWER PLANT  
 PRIMARY ASH POND  
 NEWTON, IL

Well ID	Well Type	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
APW02	Compliance	04/24/2023	4.09	529.52
APW03	Compliance	04/24/2023	11.92	520.49
APW04	Compliance	04/24/2023	5.27	519.79
APW05	Background	04/24/2023	14.08	529.99
APW05S	Compliance	04/24/2023	11.78	532.16
APW06	Background	04/24/2023	19.17	526.90
APW07	Compliance	04/24/2023	46.18	492.19
APW08	Compliance	04/24/2023	36.99	490.80
APW09	Compliance	04/24/2023	26.55	504.97
APW10	Compliance	04/24/2023	17.60	506.65
APW11	Compliance	04/24/2023	24.26	514.37
APW12	Compliance	04/24/2023	14.59	531.70
APW13	Compliance	04/24/2023	32.00	505.99
APW14	Compliance	04/24/2023	20.89	505.40
APW15	Compliance	04/24/2023	21.51	503.18
APW16	Compliance	04/24/2023	40.22	490.96
APW17	Compliance	04/24/2023	41.16	491.36
APW18	Compliance	04/24/2023	51.91	491.36
XSG01	Water Level	04/24/2023	2.17	534.00
SG02	Water Level	04/24/2023	2.11	504.78

**Notes:**

BMP = below measuring point

NAVD88 = North American Vertical Datum of 1988

**ATTACHMENT B  
LABORATORY REPORTS AND FIELD DATA SHEETS  
QUARTER 2 2023**



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

June 07, 2023

Terry Hanratty  
Vistra - Newton  
Newton Energy Center 6725 N. 500th St  
Newton, IL 62448

Dear Terry Hanratty:

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](mailto:lisa.grant@pacelabs.com).

Sincerely,

A handwritten signature in cursive script that reads "Gail Schindler".

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

**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

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Work Order    GD04461

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



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Work Order GD04746

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





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Work Order    GD04839

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



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Work Order    GD04919

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

## ANALYTICAL RESULTS

**Sample:** GD04461-01  
**Name:** APW03  
**Matrix:** Ground Water - Grab

**Sampled:** 04/25/23 13:20  
**Received:** 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	6.9	mg/L		04/26/23 20:03	1	1.0	04/26/23 20:03	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		04/26/23 20:03	1	0.250	04/26/23 20:03	CRD	EPA 300.0 REV 2.1
Sulfate	120	mg/L		04/26/23 20:21	25	25	04/26/23 20:21	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	11.94	Feet		04/25/23 13:20	1		04/25/23 13:20	FIELD	Field*
Dissolved oxygen, Field	2.2	mg/L		04/25/23 13:20	1		04/25/23 13:20	FIELD	Field*
Oxidation Reduction Potential	141	mV		04/25/23 13:20	1	-500	04/25/23 13:20	FIELD	Field*
pH, Field Measured	7.01	pH Units		04/25/23 13:20	1		04/25/23 13:20	FIELD	Field*
Specific Conductance, Field Measured	925.0	umhos/cm		04/25/23 13:20	1		04/25/23 13:20	FIELD	Field*
Temperature, Field Measured	17.0	°C		04/25/23 13:20	1		04/25/23 13:20	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		04/25/23 13:20	1	0.00	04/25/23 13:20	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	390	mg/L		05/04/23 10:11	1	10	05/04/23 10:11	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/04/23 10:11	1	10	05/04/23 10:11	CPS	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	740	mg/L		04/28/23 14:40	1	26	04/28/23 16:47	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		05/03/23 09:07	5	3.0	05/04/23 09:27	JMW	EPA 6020A
Arsenic	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:27	JMW	EPA 6020A
Barium	78	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:27	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:27	JMW	EPA 6020A
Boron	370	ug/L		05/03/23 09:07	5	10	05/05/23 08:18	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:27	JMW	EPA 6020A
Calcium	96	mg/L		05/03/23 09:07	5	0.20	05/04/23 09:27	JMW	EPA 6020A
Chromium	7.2	ug/L		05/03/23 09:07	5	4.0	05/04/23 09:27	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/03/23 09:07	5	2.0	05/04/23 09:27	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:27	JMW	EPA 6020A
Magnesium	58	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:27	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/03/23 09:07	5	0.20	05/05/23 08:18	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:27	JMW	EPA 6020A
Potassium	0.31	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:27	JMW	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** GD04461-01  
**Name:** APW03  
**Matrix:** Ground Water - Grab

**Sampled:** 04/25/23 13:20  
**Received:** 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:27	JMW	EPA 6020A
Sodium	61	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:27	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:27	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/03/23 09:07	1	0.020	05/09/23 10:16	TJJ	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GD04461-02  
**Name:** APW04  
**Matrix:** Ground Water - Grab

**Sampled:** 04/25/23 16:42  
**Received:** 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	34	mg/L		04/26/23 20:57	10	10	04/26/23 20:57	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		04/26/23 20:39	1	0.250	04/26/23 20:39	CRD	EPA 300.0 REV 2.1
Sulfate	840	mg/L		04/26/23 21:51	100	100	04/26/23 21:51	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	5.1	Feet		04/25/23 16:42	1		04/25/23 16:42	FIELD	Field*
Dissolved oxygen, Field	0.93	mg/L		04/25/23 16:42	1		04/25/23 16:42	FIELD	Field*
Oxidation Reduction Potential	171	mV		04/25/23 16:42	1	-500	04/25/23 16:42	FIELD	Field*
pH, Field Measured	6.93	pH Units		04/25/23 16:42	1		04/25/23 16:42	FIELD	Field*
Specific Conductance, Field Measured	1830	umhos/cm		04/25/23 16:42	1		04/25/23 16:42	FIELD	Field*
Temperature, Field Measured	11.8	°C		04/25/23 16:42	1		04/25/23 16:42	FIELD	Field*
Turbidity, Field Measured	178	NTU		04/25/23 16:42	1	0.00	04/25/23 16:42	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	440	mg/L		05/04/23 10:11	1	10	05/04/23 10:11	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/04/23 10:11	1	10	05/04/23 10:11	CPS	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	1800	mg/L		04/28/23 14:40	1	26	04/28/23 16:47	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		05/03/23 09:07	5	3.0	05/04/23 09:31	JMW	EPA 6020A
Arsenic	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:31	JMW	EPA 6020A
Barium	22	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:31	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:31	JMW	EPA 6020A
Boron	24	ug/L		05/03/23 09:07	5	10	05/05/23 08:21	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:31	JMW	EPA 6020A
Calcium	210	mg/L		05/03/23 09:07	5	0.20	05/04/23 09:31	JMW	EPA 6020A
Chromium	44	ug/L		05/03/23 09:07	5	4.0	05/04/23 09:31	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/03/23 09:07	5	2.0	05/04/23 09:31	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:31	JMW	EPA 6020A
Magnesium	170	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:31	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/03/23 09:07	5	0.20	05/05/23 08:21	JMW	EPA 6020A
Molybdenum	1.8	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:31	JMW	EPA 6020A
Potassium	1.3	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:31	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GD04461-02  
**Name:** APW04  
**Matrix:** Ground Water - Grab

**Sampled:** 04/25/23 16:42  
**Received:** 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:31	JMW	EPA 6020A
Sodium	90	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:31	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:31	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/03/23 09:07	1	0.020	05/09/23 10:17	TJJ	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GD04461-03  
**Name:** APW16  
**Matrix:** Ground Water - Grab

**Sampled:** 04/25/23 13:26  
**Received:** 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	71	mg/L	Q4	04/26/23 23:03	10	10	04/26/23 23:03	CRD	EPA 300.0 REV 2.1
Fluoride	0.606	mg/L		04/26/23 22:09	1	0.250	04/26/23 22:09	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		04/26/23 22:09	1	1.0	04/26/23 22:09	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	40.15	Feet		04/25/23 13:26	1		04/25/23 13:26	FIELD	Field*
Dissolved oxygen, Field	1.2	mg/L		04/25/23 13:26	1		04/25/23 13:26	FIELD	Field*
Oxidation Reduction Potential	-104	mV		04/25/23 13:26	1	-500	04/25/23 13:26	FIELD	Field*
pH, Field Measured	7.65	pH Units		04/25/23 13:26	1		04/25/23 13:26	FIELD	Field*
Specific Conductance, Field Measured	953.0	umhos/cm		04/25/23 13:26	1		04/25/23 13:26	FIELD	Field*
Temperature, Field Measured	14.0	°C		04/25/23 13:26	1		04/25/23 13:26	FIELD	Field*
Turbidity, Field Measured	0.210	NTU		04/25/23 13:26	1	0.00	04/25/23 13:26	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	560	mg/L		05/04/23 10:11	1	10	05/04/23 10:11	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/04/23 10:11	1	10	05/04/23 10:11	CPS	SM 2320B 1997*
<b><u>Soluble General Chemistry - PIA</u></b>									
Solids - total dissolved solids (TDS)	800	mg/L		04/28/23 14:40	1	26	04/28/23 16:47	HRF	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		05/03/23 09:07	5	3.0	05/04/23 09:34	JMW	EPA 6020A
Arsenic	21	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:34	JMW	EPA 6020A
Barium	540	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:34	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:34	JMW	EPA 6020A
Boron	130	ug/L		05/03/23 09:07	5	10	05/05/23 08:24	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:34	JMW	EPA 6020A
Calcium	96	mg/L	Q4	05/03/23 09:07	5	0.20	05/04/23 09:34	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/03/23 09:07	5	4.0	05/04/23 09:34	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/03/23 09:07	5	2.0	05/04/23 09:34	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:34	JMW	EPA 6020A
Magnesium	44	mg/L	Q4	05/03/23 09:07	5	0.10	05/04/23 09:34	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/03/23 09:07	5	0.20	05/05/23 08:24	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:34	JMW	EPA 6020A
Potassium	1.8	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:34	JMW	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** GD04461-03  
**Name:** APW16  
**Matrix:** Ground Water - Grab

**Sampled:** 04/25/23 13:26  
**Received:** 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:34	JMW	EPA 6020A
Sodium	140	mg/L	Q4	05/03/23 09:07	5	0.10	05/04/23 09:34	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:34	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/03/23 09:07	1	0.020	05/09/23 10:19	TJJ	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GD04461-04  
**Name:** APW17  
**Matrix:** Ground Water - Grab

**Sampled:** 04/25/23 16:50  
**Received:** 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	56	mg/L		04/26/23 23:40	10	10	04/26/23 23:40	CRD	EPA 300.0 REV 2.1
Fluoride	0.483	mg/L		04/26/23 23:22	1	0.250	04/26/23 23:22	CRD	EPA 300.0 REV 2.1
Sulfate	52	mg/L		04/26/23 23:40	10	10	04/26/23 23:40	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	41.09	Feet		04/25/23 16:50	1		04/25/23 16:50	FIELD	Field*
Dissolved oxygen, Field	1.2	mg/L		04/25/23 16:50	1		04/25/23 16:50	FIELD	Field*
Oxidation Reduction Potential	-97.2	mV		04/25/23 16:50	1	-500	04/25/23 16:50	FIELD	Field*
pH, Field Measured	7.62	pH Units		04/25/23 16:50	1		04/25/23 16:50	FIELD	Field*
Specific Conductance, Field Measured	1162	umhos/cm		04/25/23 16:50	1		04/25/23 16:50	FIELD	Field*
Temperature, Field Measured	15.2	°C		04/25/23 16:50	1		04/25/23 16:50	FIELD	Field*
Turbidity, Field Measured	3.82	NTU		04/25/23 16:50	1	0.00	04/25/23 16:50	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	450	mg/L		05/04/23 10:11	1	10	05/04/23 10:11	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/04/23 10:11	1	10	05/04/23 10:11	CPS	SM 2320B 1997*
<b><u>Soluble General Chemistry - PIA</u></b>									
Solids - total dissolved solids (TDS)	700	mg/L		04/28/23 14:40	1	26	04/28/23 16:47	HRF	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		05/03/23 09:07	5	3.0	05/04/23 09:38	JMW	EPA 6020A
Arsenic	20	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:38	JMW	EPA 6020A
Barium	550	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:38	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:38	JMW	EPA 6020A
Boron	83	ug/L		05/03/23 09:07	5	10	05/05/23 08:27	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:38	JMW	EPA 6020A
Calcium	110	mg/L		05/03/23 09:07	5	0.20	05/04/23 09:38	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/03/23 09:07	5	4.0	05/04/23 09:38	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/03/23 09:07	5	2.0	05/04/23 09:38	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:38	JMW	EPA 6020A
Magnesium	47	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:38	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/03/23 09:07	5	0.20	05/05/23 08:27	JMW	EPA 6020A
Molybdenum	5.3	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:38	JMW	EPA 6020A
Potassium	1.6	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:38	JMW	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** GD04461-04  
**Name:** APW17  
**Matrix:** Ground Water - Grab

**Sampled:** 04/25/23 16:50  
**Received:** 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:38	JMW	EPA 6020A
Sodium	93	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:38	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:38	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/03/23 09:07	1	0.020	05/09/23 10:22	TJJ	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GD04461-05  
**Name:** APW18  
**Matrix:** Ground Water - Grab

**Sampled:** 04/25/23 15:03  
**Received:** 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	24	mg/L		04/27/23 00:16	10	10	04/27/23 00:16	CRD	EPA 300.0 REV 2.1
Fluoride	0.518	mg/L		04/26/23 23:58	1	0.250	04/26/23 23:58	CRD	EPA 300.0 REV 2.1
Sulfate	52	mg/L		04/27/23 00:16	10	10	04/27/23 00:16	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	51.63	Feet		04/25/23 15:03	1		04/25/23 15:03	FIELD	Field*
Dissolved oxygen, Field	1.0	mg/L		04/25/23 15:03	1		04/25/23 15:03	FIELD	Field*
Oxidation Reduction Potential	-137	mV		04/25/23 15:03	1	-500	04/25/23 15:03	FIELD	Field*
pH, Field Measured	7.78	pH Units		04/25/23 15:03	1		04/25/23 15:03	FIELD	Field*
Specific Conductance, Field Measured	1012	umhos/cm		04/25/23 15:03	1		04/25/23 15:03	FIELD	Field*
Temperature, Field Measured	15.2	°C		04/25/23 15:03	1		04/25/23 15:03	FIELD	Field*
Turbidity, Field Measured	5.01	NTU		04/25/23 15:03	1	0.00	04/25/23 15:03	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	440	mg/L		05/04/23 10:11	1	10	05/04/23 10:11	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/04/23 10:11	1	10	05/04/23 10:11	CPS	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	660	mg/L		04/28/23 14:40	1	26	04/28/23 16:47	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		05/03/23 09:07	5	3.0	05/04/23 09:42	JMW	EPA 6020A
Arsenic	2.7	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:42	JMW	EPA 6020A
Barium	350	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:42	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:42	JMW	EPA 6020A
Boron	100	ug/L		05/03/23 09:07	5	10	05/05/23 08:30	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:42	JMW	EPA 6020A
Calcium	75	mg/L		05/03/23 09:07	5	0.20	05/04/23 09:42	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/03/23 09:07	5	4.0	05/04/23 09:42	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/03/23 09:07	5	2.0	05/04/23 09:42	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:42	JMW	EPA 6020A
Magnesium	40	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:42	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/03/23 09:07	5	0.20	05/05/23 08:30	JMW	EPA 6020A
Molybdenum	2.9	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:42	JMW	EPA 6020A
Potassium	2.6	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:42	JMW	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** GD04461-05  
**Name:** APW18  
**Matrix:** Ground Water - Grab

**Sampled:** 04/25/23 15:03  
**Received:** 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:42	JMW	EPA 6020A
Sodium	110	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:42	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:42	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/03/23 09:07	1	0.020	05/09/23 10:23	TJJ	EPA 6010B

**Sample:** GD04461-27  
**Name:** XSG01  
**Matrix:** Ground Water

**Sampled:** 04/24/23 17:16  
**Received:** 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Field - PIA**

Depth, From Measuring Point	5.34	Feet		04/24/23 17:16	1		04/24/23 17:16	FIELD	Field*
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**Sample:** GD04461-28  
**Name:** SG02  
**Matrix:** Ground Water

**Sampled:** 04/24/23 14:44  
**Received:** 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Field - PIA**

Depth, From Measuring Point	2.11	Feet		04/24/23 14:44	1		04/24/23 14:44	FIELD	Field*
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## ANALYTICAL RESULTS

**Sample:** GD04746-02  
**Name:** APW05S  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 17:40  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	200	mg/L		04/29/23 21:22	100	100	04/29/23 21:22	CRD	EPA 300.0 REV 2.1
Sulfate	2100	mg/L		04/27/23 21:31	250	250	04/27/23 21:31	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	9.46	Feet		04/26/23 17:40	1		04/26/23 17:40	FIELD	Field*
Dissolved oxygen, Field	3.5	mg/L		04/26/23 17:40	1		04/26/23 17:40	FIELD	Field*
Oxidation Reduction Potential	97.0	mV		04/26/23 17:40	1	-500	04/26/23 17:40	FIELD	Field*
pH, Field Measured	6.60	pH Units		04/26/23 17:40	1		04/26/23 17:40	FIELD	Field*
Specific Conductance, Field Measured	3930	umhos/cm		04/26/23 17:40	1		04/26/23 17:40	FIELD	Field*
Temperature, Field Measured	16.4	°C		04/26/23 17:40	1		04/26/23 17:40	FIELD	Field*
Turbidity, Field Measured	220	NTU		04/26/23 17:40	1	0.00	04/26/23 17:40	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	520	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
Fluoride	0.365	mg/L		05/05/23 16:50	1	0.250	05/05/23 16:50	TTH	SM 4500F C 1997
<b><u>Soluble General Chemistry - PIA</u></b>									
Solids - total dissolved solids (TDS)	3800	mg/L		05/01/23 11:30	1	26	05/01/23 15:30	HRF	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		05/04/23 09:03	5	3.0	05/09/23 07:20	JMW	EPA 6020A
Arsenic	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/10/23 07:33	JMW	EPA 6020A
Barium	35	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:20	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:20	JMW	EPA 6020A
Boron	54	ug/L		05/04/23 09:03	5	10	05/09/23 07:20	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:20	JMW	EPA 6020A
Calcium	390	mg/L	Q4	05/04/23 09:03	5	0.20	05/09/23 07:20	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/04/23 09:03	5	4.0	05/09/23 07:20	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/04/23 09:03	5	2.0	05/09/23 07:20	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:20	JMW	EPA 6020A
Magnesium	300	mg/L	Q4	05/04/23 09:03	5	0.10	05/09/23 07:20	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/04/23 09:03	5	0.20	05/09/23 07:58	JMW	EPA 6020A
Molybdenum	1.3	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:20	JMW	EPA 6020A
Potassium	1.8	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:20	JMW	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** GD04746-02  
**Name:** APW05S  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 17:40  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:20	JMW	EPA 6020A
Sodium	260	mg/L	Q4	05/04/23 09:03	5	0.10	05/09/23 07:20	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:20	JMW	EPA 6020A
Lithium	0.033	mg/L		05/04/23 09:03	1	0.020	05/09/23 10:31	TJJ	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GD04746-03  
**Name:** APW06  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 16:00  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	26	mg/L		04/27/23 22:07	10	10	04/27/23 22:07	CRD	EPA 300.0 REV 2.1
Fluoride	0.489	mg/L		04/27/23 21:49	1	0.250	04/27/23 21:49	CRD	EPA 300.0 REV 2.1
Sulfate	7.6	mg/L		04/27/23 21:49	1	1.0	04/27/23 21:49	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	19.33	Feet		04/26/23 16:00	1		04/26/23 16:00	FIELD	Field*
Dissolved oxygen, Field	11	mg/L		04/26/23 16:00	1		04/26/23 16:00	FIELD	Field*
Oxidation Reduction Potential	-128	mV		04/26/23 16:00	1	-500	04/26/23 16:00	FIELD	Field*
pH, Field Measured	7.35	pH Units		04/26/23 16:00	1		04/26/23 16:00	FIELD	Field*
Specific Conductance, Field Measured	796.0	umhos/cm		04/26/23 16:00	1		04/26/23 16:00	FIELD	Field*
Temperature, Field Measured	17.6	°C		04/26/23 16:00	1		04/26/23 16:00	FIELD	Field*
Turbidity, Field Measured	471	NTU		04/26/23 16:00	1	0.00	04/26/23 16:00	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	380	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	500	mg/L		05/01/23 11:30	1	26	05/01/23 15:30	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		05/04/23 09:03	5	3.0	05/09/23 07:24	JMW	EPA 6020A
Arsenic	9.2	ug/L		05/04/23 09:03	5	1.0	05/10/23 07:42	JMW	EPA 6020A
Barium	240	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:24	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:24	JMW	EPA 6020A
Boron	87	ug/L		05/04/23 09:03	5	10	05/09/23 07:24	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:24	JMW	EPA 6020A
Calcium	58	mg/L		05/04/23 09:03	5	0.20	05/09/23 07:24	JMW	EPA 6020A
Chromium	7.9	ug/L		05/04/23 09:03	5	4.0	05/09/23 07:24	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/04/23 09:03	5	2.0	05/09/23 07:24	JMW	EPA 6020A
Lead	1.7	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:24	JMW	EPA 6020A
Magnesium	27	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:24	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/04/23 09:03	5	0.20	05/09/23 07:24	JMW	EPA 6020A
Molybdenum	7.7	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:24	JMW	EPA 6020A
Potassium	1.5	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:24	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GD04746-03  
**Name:** APW06  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 16:00  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:24	JMW	EPA 6020A
Sodium	120	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:24	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:24	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/04/23 09:03	1	0.020	05/09/23 10:34	TJJ	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GD04746-04  
**Name:** APW08  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 12:11  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	58	mg/L		04/27/23 22:43	10	10	04/27/23 22:43	CRD	EPA 300.0 REV 2.1
Fluoride	0.404	mg/L		04/27/23 22:25	1	0.250	04/27/23 22:25	CRD	EPA 300.0 REV 2.1
Sulfate	48	mg/L		04/27/23 22:43	10	10	04/27/23 22:43	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	37.56	Feet		04/26/23 12:11	1		04/26/23 12:11	FIELD	Field*
Dissolved oxygen, Field	1.7	mg/L		04/26/23 12:11	1		04/26/23 12:11	FIELD	Field*
Oxidation Reduction Potential	-118	mV		04/26/23 12:11	1	-500	04/26/23 12:11	FIELD	Field*
pH, Field Measured	7.52	pH Units		04/26/23 12:11	1		04/26/23 12:11	FIELD	Field*
Specific Conductance, Field Measured	1100	umhos/cm		04/26/23 12:11	1		04/26/23 12:11	FIELD	Field*
Temperature, Field Measured	14.2	°C		04/26/23 12:11	1		04/26/23 12:11	FIELD	Field*
Turbidity, Field Measured	17.7	NTU		04/26/23 12:11	1	0.00	04/26/23 12:11	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	410	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
<b><u>Soluble General Chemistry - PIA</u></b>									
Solids - total dissolved solids (TDS)	640	mg/L		05/01/23 11:30	1	26	05/01/23 15:30	HRF	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		05/04/23 09:03	5	3.0	05/09/23 07:27	JMW	EPA 6020A
Arsenic	26	ug/L		05/04/23 09:03	5	1.0	05/10/23 07:45	JMW	EPA 6020A
Barium	470	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:27	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:27	JMW	EPA 6020A
Boron	87	ug/L		05/04/23 09:03	5	10	05/09/23 07:27	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:27	JMW	EPA 6020A
Calcium	110	mg/L		05/04/23 09:03	5	0.20	05/09/23 07:27	JMW	EPA 6020A
Chromium	7.6	ug/L		05/04/23 09:03	5	4.0	05/09/23 07:27	JMW	EPA 6020A
Cobalt	2.2	ug/L		05/04/23 09:03	5	2.0	05/09/23 07:27	JMW	EPA 6020A
Lead	3.3	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:27	JMW	EPA 6020A
Magnesium	45	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:27	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/04/23 09:03	5	0.20	05/09/23 07:27	JMW	EPA 6020A
Molybdenum	4.4	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:27	JMW	EPA 6020A
Potassium	2.0	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:27	JMW	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** GD04746-04  
**Name:** APW08  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 12:11  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:27	JMW	EPA 6020A
Sodium	91	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:27	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:27	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/04/23 09:03	1	0.020	05/09/23 10:35	TJJ	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GD04746-05  
**Name:** APW11  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 15:43  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	26	mg/L		04/27/23 23:19	5	5.0	04/27/23 23:19	CRD	EPA 300.0 REV 2.1
Fluoride	0.283	mg/L		04/27/23 23:01	1	0.250	04/27/23 23:01	CRD	EPA 300.0 REV 2.1
Sulfate	260	mg/L		04/27/23 23:37	50	50	04/27/23 23:37	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	24.27	Feet		04/26/23 15:43	1		04/26/23 15:43	FIELD	Field*
Dissolved oxygen, Field	0.64	mg/L		04/26/23 15:43	1		04/26/23 15:43	FIELD	Field*
Oxidation Reduction Potential	-17.8	mV		04/26/23 15:43	1	-500	04/26/23 15:43	FIELD	Field*
pH, Field Measured	7.15	pH Units		04/26/23 15:43	1		04/26/23 15:43	FIELD	Field*
Specific Conductance, Field Measured	1252	umhos/cm		04/26/23 15:43	1		04/26/23 15:43	FIELD	Field*
Temperature, Field Measured	15.5	°C		04/26/23 15:43	1		04/26/23 15:43	FIELD	Field*
Turbidity, Field Measured	446	NTU		04/26/23 15:43	1	0.00	04/26/23 15:43	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	350	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
<b><u>Soluble General Chemistry - PIA</u></b>									
Solids - total dissolved solids (TDS)	920	mg/L		05/01/23 11:30	1	26	05/01/23 15:30	HRF	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		05/04/23 09:03	5	3.0	05/09/23 07:31	JMW	EPA 6020A
Arsenic	4.4	ug/L		05/04/23 09:03	5	1.0	05/10/23 07:48	JMW	EPA 6020A
Barium	43	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:31	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:31	JMW	EPA 6020A
Boron	64	ug/L		05/04/23 09:03	5	10	05/09/23 07:31	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:31	JMW	EPA 6020A
Calcium	120	mg/L		05/04/23 09:03	5	0.20	05/09/23 07:31	JMW	EPA 6020A
Chromium	7.0	ug/L		05/04/23 09:03	5	4.0	05/09/23 07:31	JMW	EPA 6020A
Cobalt	2.1	ug/L		05/04/23 09:03	5	2.0	05/09/23 07:31	JMW	EPA 6020A
Lead	6.3	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:31	JMW	EPA 6020A
Magnesium	57	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:31	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/04/23 09:03	5	0.20	05/09/23 07:31	JMW	EPA 6020A
Molybdenum	4.3	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:31	JMW	EPA 6020A
Potassium	1.9	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:31	JMW	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** GD04746-05  
**Name:** APW11  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 15:43  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:31	JMW	EPA 6020A
Sodium	93	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:31	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:31	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/04/23 09:03	1	0.020	05/09/23 10:36	TJJ	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GD04746-06  
**Name:** APW12  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 13:56  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	23	mg/L		04/28/23 00:13	5	5.0	04/28/23 00:13	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		04/28/23 00:13	1	0.250	04/28/23 00:13	CRD	EPA 300.0 REV 2.1
Sulfate	540	mg/L		04/29/23 21:58	100	100	04/29/23 21:58	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	14.56	Feet		04/26/23 13:56	1		04/26/23 13:56	FIELD	Field*
Dissolved oxygen, Field	0.98	mg/L		04/26/23 13:56	1		04/26/23 13:56	FIELD	Field*
Oxidation Reduction Potential	107	mV		04/26/23 13:56	1	-500	04/26/23 13:56	FIELD	Field*
pH, Field Measured	6.52	pH Units		04/26/23 13:56	1		04/26/23 13:56	FIELD	Field*
Specific Conductance, Field Measured	1831	umhos/cm		04/26/23 13:56	1		04/26/23 13:56	FIELD	Field*
Temperature, Field Measured	14.6	°C		04/26/23 13:56	1		04/26/23 13:56	FIELD	Field*
Turbidity, Field Measured	0.520	NTU		04/26/23 13:56	1	0.00	04/26/23 13:56	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	520	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
<b><u>Soluble General Chemistry - PIA</u></b>									
Solids - total dissolved solids (TDS)	1500	mg/L		05/01/23 11:30	1	26	05/01/23 15:30	HRF	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		05/04/23 09:03	5	3.0	05/09/23 07:35	JMW	EPA 6020A
Arsenic	1.4	ug/L		05/04/23 09:03	5	1.0	05/10/23 07:50	JMW	EPA 6020A
Barium	28	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:35	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:35	JMW	EPA 6020A
Boron	440	ug/L		05/04/23 09:03	5	10	05/09/23 07:35	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:35	JMW	EPA 6020A
Calcium	230	mg/L		05/04/23 09:03	5	0.20	05/09/23 07:35	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/04/23 09:03	5	4.0	05/09/23 07:35	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/04/23 09:03	5	2.0	05/09/23 07:35	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:35	JMW	EPA 6020A
Magnesium	110	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:35	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/04/23 09:03	5	0.20	05/09/23 07:35	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:35	JMW	EPA 6020A
Potassium	0.94	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:35	JMW	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** GD04746-06  
**Name:** APW12  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 13:56  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:35	JMW	EPA 6020A
Sodium	120	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:35	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:35	JMW	EPA 6020A
Lithium	0.024	mg/L		05/04/23 09:03	1	0.020	05/09/23 10:38	TJJ	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GD04746-07  
**Name:** APW15  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 17:23  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	270	mg/L		04/29/23 22:34	50	50	04/29/23 22:34	CRD	EPA 300.0 REV 2.1
Fluoride	0.402	mg/L		04/28/23 01:27	1	0.250	04/28/23 01:27	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		04/28/23 01:27	1	1.0	04/28/23 01:27	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	21.43	Feet		04/26/23 17:23	1		04/26/23 17:23	FIELD	Field*
Dissolved oxygen, Field	0.32	mg/L		04/26/23 17:23	1		04/26/23 17:23	FIELD	Field*
Oxidation Reduction Potential	-126	mV		04/26/23 17:23	1	-500	04/26/23 17:23	FIELD	Field*
pH, Field Measured	7.25	pH Units		04/26/23 17:23	1		04/26/23 17:23	FIELD	Field*
Specific Conductance, Field Measured	1682	umhos/cm		04/26/23 17:23	1		04/26/23 17:23	FIELD	Field*
Temperature, Field Measured	15.3	°C		04/26/23 17:23	1		04/26/23 17:23	FIELD	Field*
Turbidity, Field Measured	51.6	NTU		04/26/23 17:23	1	0.00	04/26/23 17:23	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	590	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
<b><u>Soluble General Chemistry - PIA</u></b>									
Solids - total dissolved solids (TDS)	1100	mg/L		05/01/23 11:30	1	26	05/01/23 15:30	HRF	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		05/04/23 09:03	5	3.0	05/09/23 07:39	JMW	EPA 6020A
Arsenic	21	ug/L		05/04/23 09:03	5	1.0	05/10/23 07:53	JMW	EPA 6020A
Barium	530	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:39	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:39	JMW	EPA 6020A
Boron	130	ug/L		05/04/23 09:03	5	10	05/09/23 07:39	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:39	JMW	EPA 6020A
Calcium	91	mg/L		05/04/23 09:03	5	0.20	05/09/23 07:39	JMW	EPA 6020A
Chromium	6.4	ug/L		05/04/23 09:03	5	4.0	05/09/23 07:39	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/04/23 09:03	5	2.0	05/09/23 07:39	JMW	EPA 6020A
Lead	1.2	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:39	JMW	EPA 6020A
Magnesium	38	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:39	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/04/23 09:03	5	0.20	05/09/23 07:39	JMW	EPA 6020A
Molybdenum	6.5	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:39	JMW	EPA 6020A
Potassium	3.0	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:39	JMW	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** GD04746-07  
**Name:** APW15  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 17:23  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:39	JMW	EPA 6020A
Sodium	290	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:39	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:39	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/04/23 09:03	1	0.020	05/09/23 10:39	TJJ	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GD04839-03  
**Name:** APW02  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 12:17  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	110	mg/L		04/28/23 19:45	25	25	04/28/23 19:45	CRD	EPA 300.0 REV 2.1
Sulfate	3100	mg/L		04/28/23 20:03	500	500	04/28/23 20:03	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	3.72	Feet		04/27/23 12:17	1		04/27/23 12:17	FIELD	Field*
Dissolved oxygen, Field	1.2	mg/L		04/27/23 12:17	1		04/27/23 12:17	FIELD	Field*
Oxidation Reduction Potential	80.8	mV		04/27/23 12:17	1	-500	04/27/23 12:17	FIELD	Field*
pH, Field Measured	6.71	pH Units		04/27/23 12:17	1		04/27/23 12:17	FIELD	Field*
Specific Conductance, Field Measured	5217	umhos/cm		04/27/23 12:17	1		04/27/23 12:17	FIELD	Field*
Temperature, Field Measured	15.6	°C		04/27/23 12:17	1		04/27/23 12:17	FIELD	Field*
Turbidity, Field Measured	25.0	NTU		04/27/23 12:17	1	0.00	04/27/23 12:17	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	640	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/05/23 16:47	1	0.250	05/05/23 16:47	TTH	SM 4500F C 1997
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	5400	mg/L		05/02/23 12:44	1	26	05/03/23 11:06	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		05/08/23 09:07	5	3.0	05/09/23 12:38	JMW	EPA 6020A
Arsenic	1.4	ug/L		05/08/23 09:07	5	1.0	05/10/23 09:18	JMW	EPA 6020A
Barium	24	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:38	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 09:54	JMW	EPA 6020A
Boron	120	ug/L		05/08/23 09:07	5	10	05/09/23 09:54	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:38	JMW	EPA 6020A
Calcium	460	mg/L		05/08/23 09:07	5	0.20	05/09/23 09:54	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/08/23 09:07	5	4.0	05/09/23 09:54	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/08/23 09:07	5	2.0	05/09/23 09:54	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 09:54	JMW	EPA 6020A
Magnesium	430	mg/L		05/08/23 09:07	5	0.10	05/09/23 09:54	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/08/23 09:07	5	0.20	05/09/23 12:38	JMW	EPA 6020A
Molybdenum	1.6	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:38	JMW	EPA 6020A
Potassium	5.8	mg/L		05/08/23 09:07	5	0.10	05/09/23 09:54	JMW	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** GD04839-03  
**Name:** APW02  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 12:17  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 09:54	JMW	EPA 6020A
Sodium	360	mg/L		05/08/23 09:07	5	0.10	05/09/23 09:54	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 09:54	JMW	EPA 6020A
Lithium	0.098	mg/L		05/08/23 09:07	1	0.020	05/09/23 10:47	TJJ	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GD04839-04  
**Name:** APW05  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 12:40  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	46	mg/L	Q4	04/28/23 17:02	10	10	04/28/23 17:02	CRD	EPA 300.0 REV 2.1
Fluoride	0.498	mg/L		04/28/23 16:08	1	0.250	04/28/23 16:08	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		04/28/23 16:08	1	1.0	04/28/23 16:08	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	14.01	Feet		04/27/23 12:40	1		04/27/23 12:40	FIELD	Field*
Dissolved oxygen, Field	18	mg/L		04/27/23 12:40	1		04/27/23 12:40	FIELD	Field*
Oxidation Reduction Potential	-124	mV		04/27/23 12:40	1	-500	04/27/23 12:40	FIELD	Field*
pH, Field Measured	7.10	pH Units		04/27/23 12:40	1		04/27/23 12:40	FIELD	Field*
Specific Conductance, Field Measured	819.0	umhos/cm		04/27/23 12:40	1		04/27/23 12:40	FIELD	Field*
Temperature, Field Measured	14.5	°C		04/27/23 12:40	1		04/27/23 12:40	FIELD	Field*
Turbidity, Field Measured	40.1	NTU		04/27/23 12:40	1	0.00	04/27/23 12:40	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	480	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	560	mg/L		05/02/23 12:44	1	26	05/03/23 11:06	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		05/08/23 09:07	5	3.0	05/09/23 12:42	JMW	EPA 6020A
Arsenic	30	ug/L		05/08/23 09:07	5	1.0	05/10/23 09:21	JMW	EPA 6020A
Barium	250	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:42	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 09:58	JMW	EPA 6020A
Boron	92	ug/L		05/08/23 09:07	5	10	05/09/23 09:58	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:42	JMW	EPA 6020A
Calcium	49	mg/L		05/08/23 09:07	5	0.20	05/09/23 09:58	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/08/23 09:07	5	4.0	05/09/23 09:58	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/08/23 09:07	5	2.0	05/09/23 09:58	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 09:58	JMW	EPA 6020A
Magnesium	26	mg/L		05/08/23 09:07	5	0.10	05/09/23 09:58	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/08/23 09:07	5	0.20	05/09/23 12:42	JMW	EPA 6020A
Molybdenum	9.1	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:42	JMW	EPA 6020A
Potassium	1.4	mg/L		05/08/23 09:07	5	0.10	05/09/23 09:58	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GD04839-04  
**Name:** APW05  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 12:40  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 09:58	JMW	EPA 6020A
Sodium	130	mg/L		05/08/23 09:07	5	0.10	05/09/23 09:58	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 09:58	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/08/23 09:07	1	0.020	05/09/23 10:48	TJJ	EPA 6010B

### ANALYTICAL RESULTS

**Sample:** GD04839-05  
**Name:** APW07  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 10:35  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	63	mg/L		04/28/23 17:38	10	10	04/28/23 17:38	CRD	EPA 300.0 REV 2.1
Fluoride	0.409	mg/L		04/28/23 17:20	1	0.250	04/28/23 17:20	CRD	EPA 300.0 REV 2.1
Sulfate	14	mg/L		04/28/23 17:38	10	10	04/28/23 17:38	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	46.59	Feet		04/27/23 10:35	1		04/27/23 10:35	FIELD	Field*
Dissolved oxygen, Field	0.51	mg/L		04/27/23 10:35	1		04/27/23 10:35	FIELD	Field*
Oxidation Reduction Potential	-116	mV		04/27/23 10:35	1	-500	04/27/23 10:35	FIELD	Field*
pH, Field Measured	7.39	pH Units		04/27/23 10:35	1		04/27/23 10:35	FIELD	Field*
Specific Conductance, Field Measured	1051	umhos/cm		04/27/23 10:35	1		04/27/23 10:35	FIELD	Field*
Temperature, Field Measured	14.5	°C		04/27/23 10:35	1		04/27/23 10:35	FIELD	Field*
Turbidity, Field Measured	621	NTU		04/27/23 10:35	1	0.00	04/27/23 10:35	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	500	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	590	mg/L		05/02/23 12:44	1	26	05/03/23 11:06	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		05/08/23 09:07	5	3.0	05/09/23 12:46	JMW	EPA 6020A
Arsenic	18	ug/L		05/08/23 09:07	5	1.0	05/10/23 09:24	JMW	EPA 6020A
Barium	510	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:46	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:02	JMW	EPA 6020A
Boron	85	ug/L		05/08/23 09:07	5	10	05/09/23 10:02	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:46	JMW	EPA 6020A
Calcium	100	mg/L		05/08/23 09:07	5	0.20	05/09/23 10:02	JMW	EPA 6020A
Chromium	17	ug/L		05/08/23 09:07	5	4.0	05/09/23 10:02	JMW	EPA 6020A
Cobalt	3.6	ug/L		05/08/23 09:07	5	2.0	05/09/23 10:02	JMW	EPA 6020A
Lead	5.5	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:02	JMW	EPA 6020A
Magnesium	40	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:02	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/08/23 09:07	5	0.20	05/09/23 12:46	JMW	EPA 6020A
Molybdenum	3.4	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:46	JMW	EPA 6020A
Potassium	2.5	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:02	JMW	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** GD04839-05  
**Name:** APW07  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 10:35  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:02	JMW	EPA 6020A
Sodium	93	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:02	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:02	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/08/23 09:07	1	0.020	05/09/23 10:49	TJJ	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GD04839-06  
**Name:** APW09  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 14:05  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	130	mg/L		04/28/23 19:09	25	25	04/28/23 19:09	CRD	EPA 300.0 REV 2.1
Fluoride	0.482	mg/L		04/28/23 17:57	1	0.250	04/28/23 17:57	CRD	EPA 300.0 REV 2.1
Sulfate	9.4	mg/L		04/28/23 18:51	5	5.0	04/28/23 18:51	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	26.56	Feet		04/27/23 14:05	1		04/27/23 14:05	FIELD	Field*
Dissolved oxygen, Field	0.47	mg/L		04/27/23 14:05	1		04/27/23 14:05	FIELD	Field*
Oxidation Reduction Potential	-137	mV		04/27/23 14:05	1	-500	04/27/23 14:05	FIELD	Field*
pH, Field Measured	7.53	pH Units		04/27/23 14:05	1		04/27/23 14:05	FIELD	Field*
Specific Conductance, Field Measured	1356	umhos/cm		04/27/23 14:05	1		04/27/23 14:05	FIELD	Field*
Temperature, Field Measured	16.5	°C		04/27/23 14:05	1		04/27/23 14:05	FIELD	Field*
Turbidity, Field Measured	117	NTU		04/27/23 14:05	1	0.00	04/27/23 14:05	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	600	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	840	mg/L		05/02/23 12:44	1	26	05/03/23 11:06	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		05/08/23 09:07	5	3.0	05/09/23 12:50	JMW	EPA 6020A
Arsenic	29	ug/L		05/08/23 09:07	5	1.0	05/10/23 09:27	JMW	EPA 6020A
Barium	430	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:50	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:06	JMW	EPA 6020A
Boron	99	ug/L		05/08/23 09:07	5	10	05/09/23 10:06	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:50	JMW	EPA 6020A
Calcium	76	mg/L		05/08/23 09:07	5	0.20	05/09/23 10:06	JMW	EPA 6020A
Chromium	4.2	ug/L		05/08/23 09:07	5	4.0	05/09/23 10:06	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/08/23 09:07	5	2.0	05/09/23 10:06	JMW	EPA 6020A
Lead	1.3	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:06	JMW	EPA 6020A
Magnesium	38	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:06	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/08/23 09:07	5	0.20	05/09/23 12:50	JMW	EPA 6020A
Molybdenum	3.9	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:50	JMW	EPA 6020A
Potassium	1.7	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:06	JMW	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** GD04839-06  
**Name:** APW09  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 14:05  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:06	JMW	EPA 6020A
Sodium	190	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:06	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:06	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/08/23 09:07	1	0.020	05/09/23 10:50	TJJ	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GD04839-07  
**Name:** APW10  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 15:47  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	46	mg/L		04/29/23 13:25	10	10	04/29/23 13:25	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		04/29/23 13:07	1	0.250	04/29/23 13:07	CRD	EPA 300.0 REV 2.1
Sulfate	410	mg/L		04/29/23 13:43	100	100	04/29/23 13:43	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	17.53	Feet		04/27/23 15:47	1		04/27/23 15:47	FIELD	Field*
Dissolved oxygen, Field	3.4	mg/L		04/27/23 15:47	1		04/27/23 15:47	FIELD	Field*
Oxidation Reduction Potential	77.5	mV		04/27/23 15:47	1	-500	04/27/23 15:47	FIELD	Field*
pH, Field Measured	7.36	pH Units		04/27/23 15:47	1		04/27/23 15:47	FIELD	Field*
Specific Conductance, Field Measured	1461	umhos/cm		04/27/23 15:47	1		04/27/23 15:47	FIELD	Field*
Temperature, Field Measured	15.1	°C		04/27/23 15:47	1		04/27/23 15:47	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		04/27/23 15:47	1	0.00	04/27/23 15:47	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	420	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	1100	mg/L		05/02/23 12:44	1	26	05/03/23 11:06	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		05/08/23 09:07	5	3.0	05/09/23 13:09	JMW	EPA 6020A
Arsenic	7.8	ug/L		05/08/23 09:07	5	1.0	05/10/23 09:30	JMW	EPA 6020A
Barium	26	ug/L		05/08/23 09:07	5	1.0	05/09/23 13:09	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:10	JMW	EPA 6020A
Boron	77	ug/L		05/08/23 09:07	5	10	05/09/23 10:10	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 13:09	JMW	EPA 6020A
Calcium	140	mg/L		05/08/23 09:07	5	0.20	05/09/23 10:10	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/08/23 09:07	5	4.0	05/09/23 10:10	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/08/23 09:07	5	2.0	05/09/23 10:10	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:10	JMW	EPA 6020A
Magnesium	68	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:10	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/08/23 09:07	5	0.20	05/09/23 13:09	JMW	EPA 6020A
Molybdenum	6.5	ug/L		05/08/23 09:07	5	1.0	05/09/23 13:09	JMW	EPA 6020A
Potassium	1.5	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:10	JMW	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** GD04839-07  
**Name:** APW10  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 15:47  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:10	JMW	EPA 6020A
Sodium	120	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:10	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:10	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/08/23 09:07	1	0.020	05/09/23 10:52	TJJ	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GD04839-08  
**Name:** APW13  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 17:16  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	51	mg/L		04/28/23 20:39	10	10	04/28/23 20:39	CRD	EPA 300.0 REV 2.1
Fluoride	0.394	mg/L		04/28/23 20:21	1	0.250	04/28/23 20:21	CRD	EPA 300.0 REV 2.1
Sulfate	250	mg/L		04/28/23 20:57	100	100	04/28/23 20:57	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	32.05	Feet		04/27/23 17:16	1		04/27/23 17:16	FIELD	Field*
Dissolved oxygen, Field	1.6	mg/L		04/27/23 17:16	1		04/27/23 17:16	FIELD	Field*
Oxidation Reduction Potential	-25.3	mV		04/27/23 17:16	1	-500	04/27/23 17:16	FIELD	Field*
pH, Field Measured	7.26	pH Units		04/27/23 17:16	1		04/27/23 17:16	FIELD	Field*
Specific Conductance, Field Measured	1360	umhos/cm		04/27/23 17:16	1		04/27/23 17:16	FIELD	Field*
Temperature, Field Measured	14.3	°C		04/27/23 17:16	1		04/27/23 17:16	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		04/27/23 17:16	1	0.00	04/27/23 17:16	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	490	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	940	mg/L		05/02/23 12:44	1	26	05/03/23 11:06	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		05/08/23 09:07	5	3.0	05/09/23 13:13	JMW	EPA 6020A
Arsenic	4.0	ug/L		05/08/23 09:07	5	1.0	05/10/23 09:33	JMW	EPA 6020A
Barium	50	ug/L		05/08/23 09:07	5	1.0	05/09/23 13:13	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:13	JMW	EPA 6020A
Boron	110	ug/L		05/08/23 09:07	5	10	05/09/23 10:13	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 13:13	JMW	EPA 6020A
Calcium	120	mg/L		05/08/23 09:07	5	0.20	05/09/23 10:13	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/08/23 09:07	5	4.0	05/09/23 10:13	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/08/23 09:07	5	2.0	05/09/23 10:13	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:13	JMW	EPA 6020A
Magnesium	61	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:13	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/08/23 09:07	5	0.20	05/09/23 13:13	JMW	EPA 6020A
Molybdenum	6.7	ug/L		05/08/23 09:07	5	1.0	05/09/23 13:13	JMW	EPA 6020A
Potassium	1.8	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:13	JMW	EPA 6020A



## ANALYTICAL RESULTS

**Sample:** GD04839-08  
**Name:** APW13  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 17:16

**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:13	JMW	EPA 6020A
Sodium	120	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:13	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:13	JMW	EPA 6020A
Lithium	0.021	mg/L		05/08/23 09:07	1	0.020	05/09/23 10:53	TJJ	EPA 6010B

**ANALYTICAL RESULTS**

**Sample:** GD04839-18  
**Name:** XPW01  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 14:07  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	8.1	mg/L		04/29/23 11:36	5	5.0	04/29/23 11:36	CRD	EPA 300.0 REV 2.1
Fluoride	5.34	mg/L		04/29/23 11:36	5	1.25	04/29/23 11:36	CRD	EPA 300.0 REV 2.1
Sulfate	2900	mg/L		05/04/23 21:21	1000	1000	05/04/23 21:21	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	11.06	Feet		04/27/23 14:07	1		04/27/23 14:07	FIELD	Field*
Dissolved oxygen, Field	4.3	mg/L		04/27/23 14:07	1		04/27/23 14:07	FIELD	Field*
Oxidation Reduction Potential	-379	mV		04/27/23 14:07	1	-500	04/27/23 14:07	FIELD	Field*
pH, Field Measured	12.2	pH Units		04/27/23 14:07	1		04/27/23 14:07	FIELD	Field*
Specific Conductance, Field Measured	10500	umhos/cm		04/27/23 14:07	1		04/27/23 14:07	FIELD	Field*
Temperature, Field Measured	18.4	°C		04/27/23 14:07	1		04/27/23 14:07	FIELD	Field*
Turbidity, Field Measured	>1000:	NTU		04/27/23 14:07	1	0.00	04/27/23 14:07	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	< 10	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	700	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	6900	mg/L		05/02/23 12:44	1	26	05/03/23 11:06	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Boron	14000	ug/L		05/08/23 09:07	100	200	05/09/23 12:33	JMW	EPA 6020A
Calcium	36	mg/L		05/08/23 09:07	5	0.20	05/09/23 10:25	JMW	EPA 6020A
Magnesium	8.7	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:25	JMW	EPA 6020A
Potassium	47	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:25	JMW	EPA 6020A
Sodium	2400	mg/L		05/08/23 09:07	100	2.0	05/09/23 12:33	JMW	EPA 6020A

### ANALYTICAL RESULTS

**Sample:** GD04839-19  
**Name:** XPW02  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 15:29  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	8.8	mg/L		04/29/23 12:12	1	1.0	04/29/23 12:12	CRD	EPA 300.0 REV 2.1
Fluoride	0.536	mg/L		04/29/23 12:12	1	0.250	04/29/23 12:12	CRD	EPA 300.0 REV 2.1
Sulfate	150	mg/L		04/29/23 12:48	25	25	04/29/23 12:48	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	7.39	Feet		04/27/23 15:29	1		04/27/23 15:29	FIELD	Field*
Dissolved oxygen, Field	4.8	mg/L		04/27/23 15:29	1		04/27/23 15:29	FIELD	Field*
Oxidation Reduction Potential	-237	mV		04/27/23 15:29	1	-500	04/27/23 15:29	FIELD	Field*
pH, Field Measured	9.58	pH Units		04/27/23 15:29	1		04/27/23 15:29	FIELD	Field*
Specific Conductance, Field Measured	400.0	umhos/cm		04/27/23 15:29	1		04/27/23 15:29	FIELD	Field*
Temperature, Field Measured	17.6	°C		04/27/23 15:29	1		04/27/23 15:29	FIELD	Field*
Turbidity, Field Measured	39.1	NTU		04/27/23 15:29	1	0.00	04/27/23 15:29	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	12	mg/L	M	05/08/23 16:02	1	10	05/08/23 16:02	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	35	mg/L		05/08/23 16:02	1	10	05/08/23 16:02	CPS	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	290	mg/L		05/02/23 12:44	1	26	05/03/23 11:06	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Boron	2300	ug/L		05/08/23 09:07	5	10	05/09/23 13:28	JMW	EPA 6020A
Calcium	23	mg/L		05/08/23 09:07	5	0.20	05/09/23 13:28	JMW	EPA 6020A
Magnesium	0.19	mg/L		05/08/23 09:07	5	0.10	05/09/23 13:28	JMW	EPA 6020A
Potassium	14	mg/L		05/08/23 09:07	5	0.10	05/09/23 13:28	JMW	EPA 6020A
Sodium	64	mg/L		05/08/23 09:07	5	0.10	05/09/23 13:28	JMW	EPA 6020A

## ANALYTICAL RESULTS

**Sample:** GD04839-20  
**Name:** XPW03  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 17:00  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	9.7	mg/L		04/29/23 15:49	5	5.0	04/29/23 15:49	CRD	EPA 300.0 REV 2.1
Fluoride	1.03	mg/L		04/29/23 15:31	1	0.250	04/29/23 15:31	CRD	EPA 300.0 REV 2.1
Sulfate	120	mg/L		04/29/23 16:07	25	25	04/29/23 16:07	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	10.81	Feet		04/27/23 17:00	1		04/27/23 17:00	FIELD	Field*
Dissolved oxygen, Field	0.70	mg/L		04/27/23 17:00	1		04/27/23 17:00	FIELD	Field*
Oxidation Reduction Potential	-273	mV		04/27/23 17:00	1	-500	04/27/23 17:00	FIELD	Field*
pH, Field Measured	11.5	pH Units		04/27/23 17:00	1		04/27/23 17:00	FIELD	Field*
Specific Conductance, Field Measured	1430	umhos/cm		04/27/23 17:00	1		04/27/23 17:00	FIELD	Field*
Temperature, Field Measured	17.1	°C		04/27/23 17:00	1		04/27/23 17:00	FIELD	Field*
Turbidity, Field Measured	119	NTU		04/27/23 17:00	1	0.00	04/27/23 17:00	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	< 10	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	200	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
<b><u>Soluble General Chemistry - PIA</u></b>									
Solids - total dissolved solids (TDS)	620	mg/L		05/02/23 12:44	1	26	05/03/23 11:06	HRF	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Boron	1800	ug/L		05/08/23 09:07	5	10	05/09/23 13:32	JMW	EPA 6020A
Calcium	26	mg/L		05/08/23 09:07	5	0.20	05/09/23 13:32	JMW	EPA 6020A
Magnesium	0.69	mg/L		05/08/23 09:07	5	0.10	05/09/23 13:32	JMW	EPA 6020A
Potassium	18	mg/L		05/08/23 09:07	5	0.10	05/09/23 13:32	JMW	EPA 6020A
Sodium	190	mg/L		05/08/23 09:07	5	0.10	05/09/23 13:32	JMW	EPA 6020A

## ANALYTICAL RESULTS

**Sample:** GD04919-02  
**Name:** XPW04  
**Matrix:** Ground Water - Grab

**Sampled:** 04/28/23 10:23  
**Received:** 04/28/23 16:12

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	59	mg/L		04/29/23 17:45	10	10	04/29/23 17:45	CRD	EPA 300.0 REV 2.1
Sulfate	9500	mg/L		04/29/23 18:03	1000	1000	04/29/23 18:03	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	12.49	Feet		04/28/23 10:23	1		04/28/23 10:23	FIELD	Field*
Dissolved oxygen, Field	1.8	mg/L		04/28/23 10:23	1		04/28/23 10:23	FIELD	Field*
Oxidation Reduction Potential	-255	mV		04/28/23 10:23	1	-500	04/28/23 10:23	FIELD	Field*
pH, Field Measured	11.6	pH Units		04/28/23 10:23	1		04/28/23 10:23	FIELD	Field*
Specific Conductance, Field Measured	11900	umhos/cm		04/28/23 10:23	1		04/28/23 10:23	FIELD	Field*
Temperature, Field Measured	16.2	°C		04/28/23 10:23	1		04/28/23 10:23	FIELD	Field*
Turbidity, Field Measured	75.5	NTU		04/28/23 10:23	1	0.00	04/28/23 10:23	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	< 10	mg/L		05/09/23 10:18	1	10	05/09/23 10:18	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	220	mg/L		05/09/23 10:18	1	10	05/09/23 10:18	CPS	SM 2320B 1997*
Fluoride	0.985	mg/L		05/05/23 17:00	1	0.250	05/05/23 17:00	TTH	SM 4500F C 1997
<b><u>Soluble General Chemistry - PIA</u></b>									
Solids - total dissolved solids (TDS)	14000	mg/L	H	05/05/23 17:14	1	51	05/08/23 10:59	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Boron	4000	ug/L		05/08/23 09:07	5	10	05/09/23 13:40	JMW	EPA 6020A
Calcium	100	mg/L		05/08/23 09:07	5	0.20	05/09/23 13:40	JMW	EPA 6020A
Magnesium	0.50	mg/L		05/08/23 09:07	5	0.10	05/09/23 13:40	JMW	EPA 6020A
Potassium	89	mg/L		05/08/23 09:07	5	0.10	05/09/23 13:40	JMW	EPA 6020A
Sodium	4700	mg/L		05/08/23 09:07	100	2.0	05/09/23 14:32	JMW	EPA 6020A

## ANALYTICAL RESULTS

**Sample:** GD04919-03  
**Name:** APW14  
**Matrix:** Ground Water - Grab

**Sampled:** 04/28/23 11:29  
**Received:** 04/28/23 16:12

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	46	mg/L		04/29/23 18:39	10	10	04/29/23 18:39	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		04/29/23 18:21	1	0.250	04/29/23 18:21	CRD	EPA 300.0 REV 2.1
Sulfate	380	mg/L		04/29/23 18:57	50	50	04/29/23 18:57	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	20.72	Feet		04/28/23 11:29	1		04/28/23 11:29	FIELD	Field*
Dissolved oxygen, Field	1.2	mg/L		04/28/23 11:29	1		04/28/23 11:29	FIELD	Field*
Oxidation Reduction Potential	-95.0	mV		04/28/23 11:29	1	-500	04/28/23 11:29	FIELD	Field*
pH, Field Measured	7.34	pH Units		04/28/23 11:29	1		04/28/23 11:29	FIELD	Field*
Specific Conductance, Field Measured	1480	umhos/cm		04/28/23 11:29	1		04/28/23 11:29	FIELD	Field*
Temperature, Field Measured	14.8	°C		04/28/23 11:29	1		04/28/23 11:29	FIELD	Field*
Turbidity, Field Measured	8.81	NTU		04/28/23 11:29	1	0.00	04/28/23 11:29	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	460	mg/L		05/09/23 10:18	1	10	05/09/23 10:18	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/09/23 10:18	1	10	05/09/23 10:18	CPS	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	980	mg/L		05/03/23 12:09	1	26	05/03/23 15:21	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		05/08/23 09:07	5	3.0	05/09/23 14:10	JMW	EPA 6020A
Arsenic	5.5	ug/L		05/08/23 09:07	5	1.0	05/10/23 09:51	JMW	EPA 6020A
Barium	65	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:10	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:10	JMW	EPA 6020A
Boron	100	ug/L		05/08/23 09:07	5	10	05/09/23 14:10	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:10	JMW	EPA 6020A
Calcium	130	mg/L		05/08/23 09:07	5	0.20	05/09/23 14:10	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/08/23 09:07	5	4.0	05/09/23 14:10	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/08/23 09:07	5	2.0	05/09/23 14:10	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:10	JMW	EPA 6020A
Magnesium	66	mg/L		05/08/23 09:07	5	0.10	05/09/23 14:10	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/08/23 09:07	5	0.20	05/09/23 14:10	JMW	EPA 6020A
Molybdenum	4.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:10	JMW	EPA 6020A
Potassium	1.6	mg/L		05/08/23 09:07	5	0.10	05/09/23 14:10	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GD04919-03  
**Name:** APW14  
**Matrix:** Ground Water - Grab

**Sampled:** 04/28/23 11:29  
**Received:** 04/28/23 16:12

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:10	JMW	EPA 6020A
Sodium	130	mg/L		05/08/23 09:07	5	0.10	05/09/23 14:10	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:10	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/08/23 09:07	1	0.020	05/09/23 10:54	TJJ	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GD04919-04  
**Name:** APW14 DUP  
**Matrix:** Ground Water - Grab

**Sampled:** 04/28/23 11:29  
**Received:** 04/28/23 16:12

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	48	mg/L	Q4	04/29/23 20:45	10	10	04/29/23 20:45	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		04/29/23 19:15	1	0.250	04/29/23 19:15	CRD	EPA 300.0 REV 2.1
Sulfate	370	mg/L	Q4	04/29/23 21:03	50	50	04/29/23 21:03	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	20.72	Feet		04/28/23 11:29	1		04/28/23 11:29	FIELD	Field*
Dissolved oxygen, Field	1.2	mg/L		04/28/23 11:29	1		04/28/23 11:29	FIELD	Field*
Oxidation Reduction Potential	-95.0	mV		04/28/23 11:29	1	-500	04/28/23 11:29	FIELD	Field*
pH, Field Measured	7.34	pH Units		04/28/23 11:29	1		04/28/23 11:29	FIELD	Field*
Specific Conductance, Field Measured	1480	umhos/cm		04/28/23 11:29	1		04/28/23 11:29	FIELD	Field*
Temperature, Field Measured	14.8	°C		04/28/23 11:29	1		04/28/23 11:29	FIELD	Field*
Turbidity, Field Measured	8.81	NTU		04/28/23 11:29	1	0.00	04/28/23 11:29	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	450	mg/L		05/09/23 10:18	1	10	05/09/23 10:18	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/09/23 10:18	1	10	05/09/23 10:18	CPS	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	1000	mg/L		05/03/23 12:09	1	26	05/03/23 15:21	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		05/08/23 09:07	5	3.0	05/09/23 14:13	JMW	EPA 6020A
Arsenic	5.6	ug/L		05/08/23 09:07	5	1.0	05/10/23 09:54	JMW	EPA 6020A
Barium	64	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:13	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:13	JMW	EPA 6020A
Boron	100	ug/L		05/08/23 09:07	5	10	05/09/23 14:13	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:13	JMW	EPA 6020A
Calcium	130	mg/L		05/08/23 09:07	5	0.20	05/09/23 14:13	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/08/23 09:07	5	4.0	05/09/23 14:13	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/08/23 09:07	5	2.0	05/09/23 14:13	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:13	JMW	EPA 6020A
Magnesium	65	mg/L		05/08/23 09:07	5	0.10	05/09/23 14:13	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/08/23 09:07	5	0.20	05/09/23 14:13	JMW	EPA 6020A
Molybdenum	3.9	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:13	JMW	EPA 6020A
Potassium	1.6	mg/L		05/08/23 09:07	5	0.10	05/09/23 14:13	JMW	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** GD04919-04  
**Name:** APW14 DUP  
**Matrix:** Ground Water - Grab

**Sampled:** 04/28/23 11:29  
**Received:** 04/28/23 16:12

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:13	JMW	EPA 6020A
Sodium	130	mg/L		05/08/23 09:07	5	0.10	05/09/23 14:13	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:13	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/08/23 09:07	1	0.020	05/09/23 11:10	TJJ	EPA 6010B

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>Batch B331846 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Matrix Spike (B331846-MS2)</b>	<b>Sample: GD04461-03</b>			Prepared & Analyzed: 04/26/23					
Chloride	1.0E9	mg/L	Q4	1.500	71	NR	80-120		
Fluoride	2.19	mg/L		1.500	0.606	106	80-120		
Sulfate	2.25	mg/L		1.500	0.650	107	80-120		
<b>Matrix Spike Dup (B331846-MSD2)</b>	<b>Sample: GD04461-03</b>			Prepared & Analyzed: 04/26/23					
Chloride	1.0E9	mg/L	Q4	1.500	71	NR	80-120	0	20
Fluoride	2.18	mg/L		1.500	0.606	105	80-120	0.2	20
Sulfate	2.25	mg/L		1.500	0.650	106	80-120	0.08	20
<b><u>Batch B331995 - No Prep - SM 2540C</u></b>									
<b>Blank (B331995-BLK1)</b>				Prepared & Analyzed: 04/28/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B331995-BS1)</b>				Prepared & Analyzed: 04/28/23					
Solids - total dissolved solids (TDS)	963	mg/L		1000		96	84.9-109		
<b>Duplicate (B331995-DUP1)</b>	<b>Sample: GD04461-03</b>			Prepared & Analyzed: 04/28/23					
Solids - total dissolved solids (TDS)	795	mg/L			795			0	5
<b><u>Batch B332031 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Matrix Spike (B332031-MS1)</b>	<b>Sample: GD04839-04</b>			Prepared & Analyzed: 04/28/23					
Fluoride	2.01	mg/L		1.500	0.498	101	80-120		
Sulfate	2.58	mg/L		1.500	0.975	107	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	46	NR	80-120		
<b>Matrix Spike Dup (B332031-MSD1)</b>	<b>Sample: GD04839-04</b>			Prepared & Analyzed: 04/28/23					
Fluoride	2.02	mg/L		1.500	0.498	101	80-120	0.6	20
Sulfate	2.58	mg/L		1.500	0.975	107	80-120	0.1	20
Chloride	1.0E9	mg/L	Q4	1.500	46	NR	80-120	0	20
<b><u>Batch B332081 - No Prep - SM 2540C</u></b>									
<b>Blank (B332081-BLK1)</b>				Prepared & Analyzed: 05/01/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B332081-BS1)</b>				Prepared & Analyzed: 05/01/23					
Solids - total dissolved solids (TDS)	947	mg/L		1000		95	84.9-109		
<b>Duplicate (B332081-DUP2)</b>	<b>Sample: GD04746-02</b>			Prepared & Analyzed: 05/01/23					
Solids - total dissolved solids (TDS)	3720	mg/L			3800			2	5
<b><u>Batch B332085 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Matrix Spike (B332085-MS1)</b>	<b>Sample: GD04919-04</b>			Prepared & Analyzed: 04/29/23					
Sulfate	1.00E9	mg/L	Q4	1.500	370	NR	80-120		
Fluoride	1.70	mg/L		1.500	0.247	97	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	48	NR	80-120		
<b>Matrix Spike Dup (B332085-MSD1)</b>	<b>Sample: GD04919-04</b>			Prepared & Analyzed: 04/29/23					
Fluoride	1.73	mg/L		1.500	0.247	99	80-120	2	20
Sulfate	1.00E9	mg/L	Q4	1.500	370	NR	80-120	0	20
Chloride	1.0E9	mg/L	Q4	1.500	48	NR	80-120	0	20
<b><u>Batch B332218 - No Prep - SM 2540C</u></b>									

### QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Blank (B332218-BLK1)</b>				Prepared: 05/02/23 Analyzed: 05/03/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B332218-BS1)</b>				Prepared: 05/02/23 Analyzed: 05/03/23					
Solids - total dissolved solids (TDS)	1000	mg/L		1000		100	84.9-109		
<b><u>Batch B332309 - SW 3015 - EPA 6010B</u></b>									
<b>Blank (B332309-BLK1)</b>				Prepared: 05/03/23 Analyzed: 05/09/23					
Lithium	< 0.020	mg/L							
<b>LCS (B332309-BS1)</b>				Prepared: 05/03/23 Analyzed: 05/09/23					
Lithium	0.565	mg/L		0.5556		102	80-120		
<b>Matrix Spike (B332309-MS1)</b>				Sample: GD04461-03		Prepared: 05/03/23 Analyzed: 05/09/23			
Lithium	0.561	mg/L		0.5556	ND	101	75-125		
<b>Matrix Spike Dup (B332309-MSD1)</b>				Sample: GD04461-03		Prepared: 05/03/23 Analyzed: 05/09/23			
Lithium	0.543	mg/L		0.5556	ND	98	75-125	3	20
<b><u>Batch B332309 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B332309-BLK1)</b>				Prepared: 05/03/23 Analyzed: 05/04/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
<b>LCS (B332309-BS1)</b>				Prepared: 05/03/23 Analyzed: 05/04/23					
Antimony	539	ug/L		555.6		97	80-120		
Arsenic	538	ug/L		555.6		97	80-120		
Barium	540	ug/L		555.6		97	80-120		
Beryllium	557	ug/L		555.6		100	80-120		
Boron	568	ug/L		555.6		102	80-120		
Cadmium	529	ug/L		555.6		95	80-120		
Calcium	5.40	mg/L		5.556		97	80-120		
Chromium	582	ug/L		555.6		105	80-120		
Cobalt	576	ug/L		555.6		104	80-120		
Lead	557	ug/L		555.6		100	80-120		
Magnesium	5.64	mg/L		5.556		102	80-120		
Mercury	55.7	ug/L		55.56		100	80-120		
Molybdenum	527	ug/L		555.6		95	80-120		

**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>LCS (B332309-BS1)</b>				Prepared: 05/03/23 Analyzed: 05/04/23					
Potassium	5.54	mg/L		5.556		100	80-120		
Selenium	549	ug/L		555.6		99	80-120		
Sodium	5.54	mg/L		5.556		100	80-120		
Thallium	585	ug/L		555.6		105	80-120		
<b>Matrix Spike (B332309-MS1)</b>				Sample: GD04461-03		Prepared: 05/03/23 Analyzed: 05/04/23			
Antimony	530	ug/L		555.6	ND	95	75-125		
Arsenic	548	ug/L		555.6	21.0	95	75-125		
Barium	1070	ug/L		555.6	541	95	75-125		
Beryllium	550	ug/L		555.6	ND	99	75-125		
Boron	691	ug/L		555.6	129	101	75-125		
Cadmium	522	ug/L		555.6	ND	94	75-125		
Calcium	98.1	mg/L	Q4	5.556	96.3	32	75-125		
Chromium	562	ug/L		555.6	ND	101	75-125		
Cobalt	552	ug/L		555.6	ND	99	75-125		
Lead	531	ug/L		555.6	0.356	95	75-125		
Magnesium	47.9	mg/L	Q4	5.556	44.3	65	75-125		
Mercury	57.8	ug/L		55.56	ND	104	75-125		
Molybdenum	533	ug/L		555.6	ND	96	75-125		
Potassium	7.16	mg/L		5.556	1.80	97	75-125		
Selenium	543	ug/L		555.6	ND	98	75-125		
Sodium	144	mg/L	Q4	5.556	143	10	75-125		
Thallium	561	ug/L		555.6	ND	101	75-125		
<b>Matrix Spike Dup (B332309-MSD1)</b>				Sample: GD04461-03		Prepared: 05/03/23 Analyzed: 05/04/23			
Antimony	534	ug/L		555.6	ND	96	75-125	0.8	20
Arsenic	560	ug/L		555.6	21.0	97	75-125	2	20
Barium	1070	ug/L		555.6	541	96	75-125	0.2	20
Beryllium	561	ug/L		555.6	ND	101	75-125	2	20
Boron	707	ug/L		555.6	129	104	75-125	2	20
Cadmium	532	ug/L		555.6	ND	96	75-125	2	20
Calcium	100	mg/L	Q4	5.556	96.3	72	75-125	2	20
Chromium	575	ug/L		555.6	ND	103	75-125	2	20
Cobalt	566	ug/L		555.6	ND	102	75-125	2	20
Lead	536	ug/L		555.6	0.356	96	75-125	1	20
Magnesium	49.1	mg/L	Q4	5.556	44.3	87	75-125	2	20
Mercury	59.4	ug/L		55.56	ND	107	75-125	3	20
Molybdenum	542	ug/L		555.6	ND	98	75-125	2	20
Potassium	7.32	mg/L		5.556	1.80	99	75-125	2	20
Selenium	552	ug/L		555.6	ND	99	75-125	2	20
Sodium	147	mg/L	Q4	5.556	143	66	75-125	2	20
Thallium	565	ug/L		555.6	ND	102	75-125	0.8	20
<b>Batch B332343 - No Prep - SM 2540C</b>									
<b>Blank (B332343-BLK1)</b>				Prepared & Analyzed: 05/03/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B332343-BS1)</b>				Prepared & Analyzed: 05/03/23					
Solids - total dissolved solids (TDS)	950	mg/L		1000		95	84.9-109		

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>Batch B332419 - SW 3015 - EPA 6010B</u></b>									
<b>Blank (B332419-BLK1)</b>				Prepared: 05/04/23 Analyzed: 05/09/23					
Lithium	< 0.020	mg/L							
<b>LCS (B332419-BS1)</b>				Prepared: 05/04/23 Analyzed: 05/09/23					
Lithium	0.564	mg/L		0.5556		102	80-120		
<b>Matrix Spike (B332419-MS1)</b>				Sample: GD04746-02		Prepared: 05/04/23 Analyzed: 05/09/23			
Lithium	0.572	mg/L		0.5556	0.0326	97	75-125		
<b>Matrix Spike Dup (B332419-MSD1)</b>				Sample: GD04746-02		Prepared: 05/04/23 Analyzed: 05/09/23			
Lithium	0.575	mg/L		0.5556	0.0326	98	75-125	0.5	20
<b><u>Batch B332419 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B332419-BLK1)</b>				Prepared: 05/04/23 Analyzed: 05/09/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
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							
<b>LCS (B332419-BS1)</b>				Prepared: 05/04/23 Analyzed: 05/09/23					
Antimony	546	ug/L		555.6		98	80-120		
Arsenic	608	ug/L		555.6		109	80-120		
Barium	548	ug/L		555.6		99	80-120		
Beryllium	549	ug/L		555.6		99	80-120		
Boron	548	ug/L		555.6		99	80-120		
Cadmium	547	ug/L		555.6		99	80-120		
Calcium	5.47	mg/L		5.556		98	80-120		
Chromium	578	ug/L		555.6		104	80-120		
Cobalt	558	ug/L		555.6		100	80-120		
Lead	555	ug/L		555.6		100	80-120		
Magnesium	5.53	mg/L		5.556		100	80-120		
Mercury	56.5	ug/L		55.56		102	80-120		
Molybdenum	532	ug/L		555.6		96	80-120		
Potassium	5.57	mg/L		5.556		100	80-120		
Selenium	562	ug/L		555.6		101	80-120		
Sodium	5.52	mg/L		5.556		99	80-120		
Thallium	550	ug/L		555.6		99	80-120		



### QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Matrix Spike (B332419-MS1)</b>		<b>Sample: GD04746-02</b>		Prepared: 05/04/23 Analyzed: 05/09/23					
Antimony	523	ug/L		555.6	ND	94	75-125		
Arsenic	593	ug/L		555.6	0.933	107	75-125		
Barium	548	ug/L		555.6	34.8	92	75-125		
Beryllium	515	ug/L		555.6	ND	93	75-125		
Boron	577	ug/L		555.6	53.5	94	75-125		
Cadmium	518	ug/L		555.6	ND	93	75-125		
Calcium	379	mg/L	Q4	5.556	389	NR	75-125		
Chromium	538	ug/L		555.6	3.12	96	75-125		
Cobalt	518	ug/L		555.6	0.828	93	75-125		
Lead	509	ug/L		555.6	0.222	92	75-125		
Magnesium	285	mg/L	Q4	5.556	298	NR	75-125		
Mercury	56.8	ug/L		55.56	ND	102	75-125		
Molybdenum	527	ug/L		555.6	1.26	95	75-125		
Potassium	7.02	mg/L		5.556	1.83	94	75-125		
Selenium	544	ug/L		555.6	ND	98	75-125		
Sodium	248	mg/L	Q4	5.556	259	NR	75-125		
Thallium	509	ug/L		555.6	ND	92	75-125		
<b>Matrix Spike Dup (B332419-MSD1)</b>		<b>Sample: GD04746-02</b>		Prepared: 05/04/23 Analyzed: 05/09/23					
Antimony	522	ug/L		555.6	ND	94	75-125	0.2	20
Arsenic	592	ug/L		555.6	0.933	106	75-125	0.2	20
Barium	552	ug/L		555.6	34.8	93	75-125	0.6	20
Beryllium	523	ug/L		555.6	ND	94	75-125	2	20
Boron	586	ug/L		555.6	53.5	96	75-125	2	20
Cadmium	525	ug/L		555.6	ND	94	75-125	1	20
Calcium	385	mg/L	Q4	5.556	389	NR	75-125	2	20
Chromium	546	ug/L		555.6	3.12	98	75-125	1	20
Cobalt	530	ug/L		555.6	0.828	95	75-125	2	20
Lead	517	ug/L		555.6	0.222	93	75-125	1	20
Magnesium	290	mg/L	Q4	5.556	298	NR	75-125	2	20
Mercury	57.0	ug/L		55.56	ND	103	75-125	0.5	20
Molybdenum	534	ug/L		555.6	1.26	96	75-125	1	20
Potassium	7.12	mg/L		5.556	1.83	95	75-125	1	20
Selenium	554	ug/L		555.6	ND	100	75-125	2	20
Sodium	254	mg/L	Q4	5.556	259	NR	75-125	2	20
Thallium	517	ug/L		555.6	ND	93	75-125	2	20
<b><u>Batch B332511 - No Prep - SM 2320B 1997</u></b>									
<b>Blank (B332511-BLK1)</b>		Prepared & Analyzed: 05/04/23							
Alkalinity - carbonate as CaCO3	2.50	mg/L							
Alkalinity - bicarbonate as CaCO3	2.50	mg/L							
<b>Blank (B332511-BLK2)</b>		Prepared & Analyzed: 05/04/23							
Alkalinity - bicarbonate as CaCO3	2.50	mg/L							
Alkalinity - carbonate as CaCO3	2.50	mg/L							
<b>Duplicate (B332511-DUP1)</b>		<b>Sample: GD04461-03</b>		Prepared & Analyzed: 05/04/23					
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	600	mg/L			562			6	10
<b>Duplicate (B332511-DUP2)</b>		<b>Sample: GD04461-03</b>		Prepared & Analyzed: 05/04/23					

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Duplicate (B332511-DUP2)</b>				Sample: GD04461-03		Prepared & Analyzed: 05/04/23			
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	575	mg/L			562			2	10
<b><u>Batch B332653 - No Prep - SM 4500F C 1997</u></b>									
<b>Matrix Spike (B332653-MS2)</b>				Sample: GD04746-02		Prepared & Analyzed: 05/05/23			
Fluoride	1.38	mg/L		1.000	0.365	102	80-120		
<b>Matrix Spike Dup (B332653-MSD2)</b>				Sample: GD04746-02		Prepared & Analyzed: 05/05/23			
Fluoride	1.36	mg/L		1.000	0.365	99	80-120	2	20
<b><u>Batch B332659 - No Prep - SM 2320B 1997</u></b>									
<b>Duplicate (B332659-DUP3)</b>				Sample: GD04746-02		Prepared & Analyzed: 05/05/23			
Alkalinity - bicarbonate as CaCO3	525	mg/L			525			0	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
<b><u>Batch B332663 - No Prep - SM 2540C</u></b>									
<b>Blank (B332663-BLK1)</b>				Prepared: 05/05/23 Analyzed: 05/08/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B332663-BS1)</b>				Prepared: 05/05/23 Analyzed: 05/08/23					
Solids - total dissolved solids (TDS)	1010	mg/L		1000		101	84.9-109		
<b><u>Batch B332692 - SW 3015 - EPA 6010B</u></b>									
<b>Blank (B332692-BLK1)</b>				Prepared: 05/08/23 Analyzed: 05/09/23					
Lithium	< 0.020	mg/L							
<b>LCS (B332692-BS1)</b>				Prepared: 05/08/23 Analyzed: 05/09/23					
Lithium	0.558	mg/L		0.5556		100	80-120		
<b><u>Batch B332692 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B332692-BLK1)</b>				Prepared: 05/08/23 Analyzed: 05/09/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
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							
<b>LCS (B332692-BS1)</b>				Prepared: 05/08/23 Analyzed: 05/09/23					
Antimony	512	ug/L		555.6		92	80-120		



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>LCS (B332692-BS1)</b>				Prepared: 05/08/23 Analyzed: 05/10/23					
Arsenic	595	ug/L		555.6		107	80-120		
Barium	527	ug/L		555.6		95	80-120		
Beryllium	534	ug/L		555.6		96	80-120		
Boron	531	ug/L		555.6		96	80-120		
Cadmium	525	ug/L		555.6		95	80-120		
Calcium	5.13	mg/L		5.556		92	80-120		
Chromium	545	ug/L		555.6		98	80-120		
Cobalt	542	ug/L		555.6		98	80-120		
Lead	523	ug/L		555.6		94	80-120		
Magnesium	5.36	mg/L		5.556		96	80-120		
Mercury	49.7	ug/L		55.56		89	80-120		
Molybdenum	510	ug/L		555.6		92	80-120		
Potassium	5.37	mg/L		5.556		97	80-120		
Selenium	535	ug/L		555.6		96	80-120		
Sodium	5.38	mg/L		5.556		97	80-120		
Thallium	520	ug/L		555.6		94	80-120		

**Batch B332796 - No Prep - SM 2320B 1997**

Duplicate (B332796-DUP2)	Sample: GD04839-07	Prepared & Analyzed: 05/08/23							
Alkalinity - carbonate as CaCO3	< 10	mg/L				ND			10
Alkalinity - bicarbonate as CaCO3	438	mg/L				425		3	10

**Batch B332797 - No Prep - SM 2320B 1997**

Duplicate (B332797-DUP1)	Sample: GD04839-19	Prepared & Analyzed: 05/08/23							
Alkalinity - bicarbonate as CaCO3	10.0	mg/L	M			12.5		22	10
Alkalinity - carbonate as CaCO3	35.0	mg/L				35.0		0	10

## NOTES

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

\* Not a TNI accredited analyte

### Certifications

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

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279  
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

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

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

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

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

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

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

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

USEPA DMR-QA Program

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

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

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

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

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

### Qualifiers

- H Test performed after the expiration of the appropriate regulatory/advisory maximum allowable hold time.
- M Analyte failed to meet the required acceptance criteria for duplicate analysis.
- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.



Certified by: Gail Schindler, Project Manager







GDO4461  
Vmw 4-26-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**

**Required Client Information:**  
 Company: **Vistra Corp**  
 Address: **13498 E. 900th St**  
 Email To: **Brian.Voelker@VistraCorp.com**  
 Phone: (217) 753-8911 Fax: \_\_\_\_\_  
 Requested Due Date/TAT: **10 day**

**Section B**

**Required Project Information:**  
 Report To: **Brian Voelker**  
 Copy To: **Jason Stuckey**  
 Purchase Order No.: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Project Number: **2285**

**Section C**

**Invoice Information:**  
 Attention: **Jason Stuckey**  
 Company Name: **Vistra Corp**  
 Address: **see Section A**  
 Quote Reference: \_\_\_\_\_  
 Project Manager: \_\_\_\_\_  
 Profile #: \_\_\_\_\_

**REGULATORY AGENCY**  
 NPDES **GROUND WATER** DRINKING WATER  
 UST RCRA OTHER  
 Site Location **IL**  
 STATE: \_\_\_\_\_

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.
								Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501		
1	NEW_G114																							
2	NEW_G114&D			4/25/23	1804		2	X	X															
3	NEW_G115 DTW																							
4	NEW_G116																							
5	NEW_G117 DTW																							
6	NEW_G118																							
7	NEW_G119 DTW																							
8	NEW_G120 DTW																							
9	NEW_G125																							
10	NEW_G128																							
11	NEW_G130																							
12	NEW_G133																							
13	NEW_G136																							
14	NEW_G139																							
15	NEW_G141																							
16	NEW_G201			4/25/23	1527		4	X	X	X														

**ADDITIONAL COMMENTS** **RELINQUISHED BY / AFFILIATION** **DATE** **TIME** **ACCEPTED BY / AFFILIATION** **DATE** **TIME** **SAMPLE CONDITIONS**

**NEW-23Q2 Rev 0** *[Signature]* **4/26/23** **0706** *[Signature]* **4-26-23** **1020**

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: *Arvon Amberson*  
 SIGNATURE of SAMPLER: *[Signature]* **DATE Signed (MM/DD/YY):** **04/25/23**

Temp in °C: **1.5**  
 Received on Ice (Y/N): **Y**  
 Custody Sealed Cooler (Y/N): **N**  
 Samples Intact (Y/N): **Y**

EMS 5-3-23



GDO4461  
 Vmw 4-26-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**  
 Required Client Information:

Company: **Vistra Corp**  
 Address: **13498 E. 900th St**  
 Email To: **Brian.Voelken@VistraCorp.com**  
 Phone: **(217) 753-8911** Fax:  
 Requested Due Date/TAT: **10 day**

**Section B**  
 Required Project Information:

Report To: **Brian Voelker**  
 Copy To: **Jason Stuckey**  
 Purchase Order No.:  
 Project Name:  
 Project Number: **2285**

**Section C**  
 Invoice Information:

Attention: **Jason Stuckey**  
 Company Name: **Vistra Corp**  
 Address: **see Section A**  
 Quote Reference:  
 Project Manager:  
 Profile #:

**REGULATORY AGENCY**  
 NPDES GROUND WATER DRINKING WATER --  
 UST RCRA OTHER  
 Site Location: **IL**  
 STATE:

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	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.	
							Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501			NEW_SUP_000
1	05/06/23 NEW_G202 Duplicate		4/25/23	1208		8	X	X	X	X														
2	NEW_G217#S																							
3	NEW_G221																							
4	NEW_G225																							
5	NEW_G230																							
6	NEW_G231																							
7	NEW_G232																							
8	NEW_G233																							
9	NEW_G234		4/25/23	1542		11	X	X	X	X														
10	NEW_L1R_leachate																							
11	NEW_L201_leachate DTW																							
12	NEW_L202_leachate DTW																							
13	NEW_L203_leachate DTW																							
14	NEW_L204_leachate DTW																							
15	NEW_L205_leachate DTW																							
16	NEW_L301_leachate																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NEW-23Q2 Rev 0	<i>[Signature]</i>	4/26/23	0706	<i>[Signature]</i>	4-26-23	1020	15	Y	N	Y
	<i>[Signature]</i>	4-26-23	1330	Venus Wagner	4-26-23	1330				

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: *Aaron Pemberton*  
 SIGNATURE of SAMPLER: *[Signature]* DATE Signed (MM/DD/YY): **04/25/23**

Temp in °C: **15**  
 Received on Ice (Y/N): **Y**  
 Custody Sealed Cooler (Y/N): **N**  
 Samples Intact (Y/N): **Y**

EMS 5-3-23



G-004461  
vmm 4-26-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

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

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED 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.
						Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501		
1	NEW_LREP_leachate																					
2	NEW_MW34&D																					
3	NEW_MW35&D																					
4	NEW_MW43&D																					
5	NEW_MW46&D																					
6	NEW_R201		4/25/23	1424	4	X	X	X	X													
7	NEW_R202		4/25/23	1311	2	X	X	X	X													
8	NEW_R217&D				3 no																	
9	NEW_R219				4/25																	
10	NEW_T101	EB-01	4/25/23	17:15	9																	
11	NEW_T102																					
12	NEW_XPW01_pore																					
13	NEW_XPW02_pore																					
14	NEW_XPW03_pore																					
15	NEW_XPW04_pore																					
16	NEW_XSG01	DRW																				

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
NEW-23Q2 Rev 0		<i>[Signature]</i>		4/26/23	0706	<i>[Signature]</i>		4-26-23	1020	1.5	Y	N	Y
		<i>[Signature]</i>		4-26-23	1330	<i>[Signature]</i>		4-26-23	1330				
SAMPLER NAME AND SIGNATURE										Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:													
SIGNATURE of SAMPLER: <i>[Signature]</i>													
										DATE Signed (MM/DD/YY): 04/25/23			

### CHAIN-OF-CUSTODY / Analytical Request Document

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

6D04746 gda

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: 1 of 6	
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>			
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>			
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>		<b>REGULATORY AGENCY</b>	
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:		NPDES <b>GROUND WATER</b> DRINKING WATER	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:		UST RCRA OTHER	
				Profile #:		Site Location	
						STATE: <b>IL</b>	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)	Project No. / Lab I.D.
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501		
1	NEW_A213																								
2	NEW_A214																								
3	NEW_A215				4/26/23	1640		9	X	X	X	X													
4	NEW_APW02																								
5	NEW_APW03																								
6	NEW_APW04																								
7	NEW_APW05S				4/26/23	1740		11	X	X	X														
8	NEW_APW05#S																								
9	NEW_APW06				4/26/23	1600		11	X	X	X														
10	NEW_APW07																								
11	NEW_APW08				4/26/23	1211		11	X	X	X														
12	NEW_APW09																								
13	NEW_APW10																								
14	NEW_APW11				4/26/23	1543		11	X	X	X														
15	NEW_APW12				4/26/23	1356		11	X	X	X														
16	NEW_APW13																								

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
NEW-23Q2 Rev 0		<i>Joseph R. Red</i>		4/27/23	713	<i>James David</i>		4-27	1030	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		<i>MMMA</i>		4-27	1426	<i>gromey</i>		4/27/23	14:20	0.7	Y	N	Y

SAMPLER NAME AND SIGNATURE		DATE Signed (MM/DD/YYYY):
PRINT Name of SAMPLER:	James David	
SIGNATURE of SAMPLER:	<i>James David</i>	4/26/23



### CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**  
 Required Client Information:

Company: **Vistra Corp**  
 Address: **13498 E. 900th St**  
 Email To: **Brian.Voelker@VistraCorp.com**  
 Phone: (217) 753-8911 Fax:  
 Requested Due Date/TAT: **10 day**

**Section B**  
 Required Project Information:

Report To: **Brian Voelker**  
 Copy To: **Jason Stuckey**  
 Purchase Order No.:  
 Project Name:  
 Project Number: **2285**

**Section C**  
 Invoice Information:

Attention: **Jason Stuckey**  
 Company Name: **Vistra Corp**  
 Address: **see Section A**  
 Quote Reference:  
 Project Manager:  
 Profile #:

**REGULATORY AGENCY**  
 NPDES **GROUND WATER** DRINKING WATER  
 UST RCRA OTHER  
 Site Location  
 STATE: **IL**

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ Y/N ↑	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)	Project No./ Lab I.D.	
		MATRIX	CODE			DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501			NEW_SUP_000
1	NEW_G114																										
2	NEW_G114&D																										
3	NEW_G115 DTW																										
4	NEW_G116																										
5	NEW_G117 DTW																										
6	NEW_G118																										
7	NEW_G119 DTW																										
8	NEW_G120 DTW																										
9	NEW_G125																										
10	NEW_G128 + dup of 4-27-23					4/26/23	1500		12	X	X	X	X														
11	NEW_G130																										
12	NEW_G133					4/26/23	1609		6	X	X	X	X														
13	NEW_G136					4/26/23	1702		4	X	X	X	X														
14	NEW_G139																										
15	NEW_G141																										
16	NEW_G201																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS							
<b>NEW-23Q2 Rev 0</b>	<i>Joseph A. Reel</i>	4/27/23	1030	<i>mmj</i>	4-27	1030	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)				
	<i>MMW</i>	4-27	1420	<i>groat</i>	4/27/23	14:20	0.7	Y	2	Y				

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: **James David**  
 SIGNATURE of SAMPLER: *James David*  
 DATE Signed (MM/DD/YYYY): **7/26/23**

### CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**  
Required Client Information:

Company: **Vistra Corp**  
Address: **13498 E. 900th St**  
Email To: **Brian.Voelker@VistraCorp.com**  
Phone: (217) 753-8911 Fax:  
Requested Due Date/TAT: **10 day**

**Section B**  
Required Project Information:

Report To: **Brian Voelker**  
Copy To: **Jason Stuckey**  
Purchase Order No.:  
Project Name:  
Project Number: **2285**

**Section C**

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

**REGULATORY AGENCY**  
NPDES **GROUND WATER** DRINKING WATER  
UST RCRA OTHER  
Site Location  
STATE: **IL**

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)	Project No./ Lab I.D.	
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501			NEW_SUP_000
1	NEW_G202																									
2	NEW_G217#S				4/26/23	1303		9	X	X	X	X														
3	NEW_G221																									
4	NEW_G225																									
5	NEW_G230				4/26/23	1151		9	X	X	X	X														
6	NEW_G231				4/26/23	1310		9	X	X	X	X														
7	NEW_G232				4/26/23	1416		9	X	X	X	X														
8	NEW_G233				4/26/23	1526		9	X	X	X	X														
9	NEW_G234																									
10	NEW_L1R_leachate																									
11	NEW_L201_leachate		DTW																							
12	NEW_L202_leachate		DTW																							
13	NEW_L203_leachate		DTW																							
14	NEW_L204_leachate		DTW																							
15	NEW_L205_leachate		DTW																							
16	NEW_L301_leachate																									

ADDITIONAL COMMENTS  
**NEW-23Q2 Rev 0**

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<i>James R David</i>	4/27/23	1030	<i>MMW</i>	4-27	1030	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
<i>MMW</i>	4-27	1420	<i>grain</i>	4/27/23	14:20	0.7	Y	N	Y
SAMPLER NAME AND SIGNATURE									
PRINT Name of SAMPLER: <i>James David</i>									
SIGNATURE of SAMPLER: <i>James David</i>						DATE Signed (MM/DD/YY):	4/26/23		



### CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**  
Required Client Information:

Company: **Visira Corp**  
 Address: **13498 E. 900th St**  
 Email To: **Brian.Voelker@VisiraCorp.com**  
 Phone: (217) 753-8911 Fax:  
 Requested Due Date/TAT: **10 day**

**Section B**  
Required Project Information:

Report To: **Brian Voelker**  
 Copy To: **Jason Stuckey**  
 Purchase Order No.:  
 Project Name:  
 Project Number: **2285**

**Section C**  
Invoice Information:

Attention: **Jason Stuckey**  
 Company Name: **Visira Corp**  
 Address: **see Section A**  
 Quote Reference:  
 Project Manager:  
 Profile #:

**REGULATORY AGENCY**  
 NPDES **GROUND WATER** DRINKING WATER  
 UST RCRA OTHER  
 Site Location  
 STATE: **IL**

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ Y/N	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)	Project No./ Lab I.D.	
		MATRIX	CODE			DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501			NEW_SUP_000
		DRINKING WATER	DW																								
1	NEW_LREP_leachate																										
2	NEW_MW34&D																										
3	NEW_MW35&D																										
4	NEW_MW43&D																										
5	NEW_MW46&D																										
6	NEW_R201																										
7	NEW_R202																										
8	NEW_R217&D					7/26/23	1143		9	XX	XX	XX															
9	NEW_R219																										
10	NEW_T101																										
11	NEW_T102																										
12	NEW_XPW01_pore																										
13	NEW_XPW02_pore																										
14	NEW_XPW03_pore																										
15	NEW_XPW04_pore																										
16	NEW_XSG01 - DTW																										
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																	
NEW-23Q2 Rev 0		<i>James David</i>		4/27/23	1030	<i>grace</i>		4-27	1030	0.7 Y N Y																	
		<i>mm</i>		4-27	1420	<i>grace</i>		4/27/23	1420	Temp in °C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)																	
						SIGNATURE of SAMPLER: <i>James David</i>		DATE Signed (MM/DD/YYYY): 7/26/23																			

### CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**  
 Required Client Information:

**Section B**  
 Required Project Information:

**Section C**  
 Invoice Information:

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

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
Site Location	IL	
STATE:		

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ Y/N	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)	Project No./ Lab I.D.		
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501			NEW_SUP_000	
1	NEW_YSG02																										
2	NEW_YSW_S101				4/26/23	1803		9	X	X	X																
3	NEW_YSW_S102				4/26/23	1743		9	X	X	X																
4	4/16/23 EB-02				4/26/23	1630																					
5																											
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							
NEW-23Q2 Rev 0	<i>James David</i>	4/27/23	1030	<i>gracej...</i>	4-27	1030	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)				
		4-27	1420		4/27/23	14:20	5	Y	N	Y				

SAMPLER NAME AND SIGNATURE		DATE Signed (MM/DD/YYYY):
PRINT Name of SAMPLER:	<i>James David</i>	4/26/23
SIGNATURE of SAMPLER:	<i>James David</i>	

*Courier*

6004839  
 gdf

### CHAIN-OF-CUSTODY / Analytical Request Document

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

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

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)	Project No./ Lab I.D.		
				DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501			NEW_SUP_000	
																										WT
1	NEW_A213		WT G	4/27/23	1209	9	X	X	X	X																
2	NEW_A214		WT G	4/27/23	1432	9	X	X	X	X																
3	NEW_A215																									
4	NEW_APW02		WT G	4/27/23	1217	11	X	X	X																	
5	NEW_APW03																									
6	NEW_APW04																									
7	NEW_APW05		WT G	4/27/23	1240	11	X	X	X																	
8	NEW_APW05#S																									
9	NEW_APW06																									
10	NEW_APW07		WT G	4/27/23	1035	11	X	X	X																	
11	NEW_APW08																									
12	NEW_APW09		WT G	4/27/23	1405	11	X	X	X																	
13	NEW_APW10		WT G	4/27/23	1547	11	X	X	X																	
14	NEW_APW11																									
15	NEW_APW12																									
16	NEW_APW13		WT G	4/27/23	1716	11	X	X	X																	

ADDITIONAL COMMENTS  
**NEW-23Q2 Rev 0**

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<i>[Signature]</i>	4/28/23	0705	<i>[Signature]</i>	4/28/23	0705	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
<i>[Signature]</i>	4/28/23	1245	<i>[Signature]</i>	4/28/23	1245	5.0	Y	N	Y
SAMPLER NAME AND SIGNATURE									
PRINT Name of SAMPLER:									
SIGNATURE of SAMPLER:									
DATE Signed (MM/DD/YY):									





### CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**

Required Client Information:  
 Company: **Vistra Corp**  
 Address: **13498 E. 900th St**  
 Email To: **Brian.Voelker@VistraCorp.com**  
 Phone: (217) 753-8911 Fax:  
 Requested Due Date/TAT: **10 day**

**Section B**

Required Project Information:  
 Report To: **Brian Voelker**  
 Copy To: **Jason Stuckey**  
 Purchase Order No.:  
 Project Name:  
 Project Number: **2285**

**Section C**

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

**REGULATORY AGENCY**  
 NPDES GROUND WATER DRINKING WATER  
 UST RCRA OTHER  
 Site Location: **IL**  
 STATE:

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)	Project No./ Lab I.D.		
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501			NEW_SUP_000	
1	NEW_G114																										
2	NEW_G114&D																										
3	NEW_G115 DTW																										
4	NEW_G116																										
5	NEW_G117 DTW																										
6	NEW_G118																										
7	NEW_G119 DTW																										
8	NEW_G120 DTW																										
9	NEW_G125 + Dup		WT 6		4/27/23	1639		8	X	X	X																
10	NEW_G128																										
11	NEW_G130		WT 6		4/27/23	1020		6	X	X	X																
12	NEW_G133																										
13	NEW_G136																										
14	NEW_G139																										
15	NEW_G141		WT 6		4/27/23	1511		4	X	X	X																
16	NEW_G201																										

ADDITIONAL COMMENTS <b>NEW-23Q2 Rev 0</b>	RELINQUISHED BY / AFFILIATION <i>[Signature]</i>	DATE 4/28/23	TIME 0705	ACCEPTED BY / AFFILIATION <i>[Signature]</i>	DATE 4/28/23	TIME 0705	SAMPLE CONDITIONS			
	<i>[Signature]</i>	4/28/23	1245	<i>[Signature]</i>	4/28/23	12:45	Temp in °C 5	Received on Ice (Y/N) Y	Custody Sealed Cooler (Y/N) Y	Samples Intact (Y/N) Y
SAMPLER NAME AND SIGNATURE										
PRINT Name of SAMPLER: <i>Jason Amberlon</i>										
SIGNATURE of SAMPLER: <i>[Signature]</i>							DATE Signed (MM/DD/YY): 04/27/23			

APP 4/27/23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**

Required Client Information:

Company: **Vistra Corp**  
 Address: **13498 E. 900th St**  
 Email To: **Brian.Voelker@VistraCorp.com**  
 Phone: (217) 753-8911 Fax:  
 Requested Due Date/TAT: **10 day**

**Section B**

Required Project Information:

Report To: **Brian Voelker**  
 Copy To: **Jason Stuckey**  
 Purchase Order No.:  
 Project Name:  
 Project Number: **2285**

**Section C**

Invoice Information:

Attention: **Jason Stuckey**  
 Company Name: **Vistra Corp**  
 Address: **see Section A**  
 Quote Reference:  
 Project Manager:  
 Profile #:

**REGULATORY AGENCY**

NPDES    GROUND WATER    DRINKING WATER  
 UST    RCRA    OTHER

Site Location: **IL**  
 STATE:

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX    CODE DRINKING WATER    DW WATER    WT WASTE WATER    WW PRODUCT    P SOIL/SOLID    SL OIL    OL WIPE    WP AIR    AR OTHER    OT TISSUE    TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ Y/N ↓	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)	Project No./ Lab I.D.	
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501			NEW_SUP_000
1	NEW_G202																									
2	NEW_G217#S																									
3	NEW_G221		WT G	H	4/27/23	10 27		9	X	X	X	X														
4	NEW_G225		WT G	H	4/27/23	13 35		9	X	X	X	X														
5	NEW_G230																									
6	NEW_G231																									
7	NEW_G232																									
8	NEW_G233																									
9	NEW_G234																									
10	NEW_L1R_leachate		WT G	H	4/27/23	13 09		9	X	X																
11	NEW_L201_leachate	DTW																								
12	NEW_L202_leachate	DTW																								
13	NEW_L203_leachate	DTW																								
14	NEW_L204_leachate	DTW																								
15	NEW_L205_leachate	DTW																								
16	NEW_L301_leachate																									

ADDITIONAL COMMENTS <b>NEW-23Q2 Rev 0</b>	RELINQUISHED BY / AFFILIATION <i>[Signature]</i>	DATE 4/28/23	TIME 0705	ACCEPTED BY / AFFILIATION <i>[Signature]</i>	DATE 4/28/23	TIME 0705	SAMPLE CONDITIONS				
		4/28/23	1245	<i>[Signature]</i>	4/28/23	12:45	Temp in °C 6	Received on Ice (Y/N) Y	Custody Sealed Cooler (Y/N) Y	Samples Intact (Y/N) Y	
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER: <i>[Signature]</i>							DATE Signed (MM/DD/YY): 04/27/23				

### CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**

Required Client Information:  
 Company: **Vistra Corp**  
 Address: **13498 E. 900th St**  
 Email To: **Brian.Voelker@VistraCorp.com**  
 Phone: (217) 753-8911 Fax:  
 Requested Due Date/TAT: **10 day**

**Section B**

Required Project Information:  
 Report To: **Brian Voelker**  
 Copy To: **Jason Stuckey**  
 Purchase Order No.:  
 Project Name:  
 Project Number: **2285**

**Section C**

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

**REGULATORY AGENCY**  
 NPDES **GROUND WATER** DRINKING WATER  
 UST RCRA OTHER  
 Site Location  
 STATE: **IL**

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test Y/N	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)	Project No./ Lab I.D.	
		MATRIX	CODE			DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501			NEW_SUP_000
		DRINKING WATER	DW																								
1	NEW_LREP_leachate																										
2	NEW_MW34&D																										
3	NEW_MW35&D																										
4	NEW_MW43&D																										
5	NEW_MW46&D																										
6	NEW_R201																										
7	NEW_R202																										
8	NEW_R217&D																										
9	NEW_R219																										
10	NEW_T101																										
11	NEW_T102			WT G		4/27/23	1604		9	X	X	X															
12	NEW_XPW01_pore			WT G		4/27/23	1407		10	X	X	X															
13	NEW_XPW02_pore			WT G		4/27/23	1529		10	X	X	X															
14	NEW_XPW03_pore			WT G		4/27/23	1700		10	X	X	X															
15	NEW_XPW04_pore			WT G		4/27/23	1435		10	X	X	X															
16	NEW_XSG01 - DTW			WT G		4/27/23																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<b>NEW-23Q2 Rev 0</b>	<i>[Signature]</i>	4/28/23	0705	<i>[Signature]</i>	4/28/23	0705	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	<i>[Signature]</i>	4/28/23	1245	<i>[Signature]</i>	4/28/23	12:45	5°	Y	Y	Y

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: *[Signature]*  
 SIGNATURE of SAMPLER: *[Signature]*  
 DATE Signed (MM/DD/YY): **04/27/23**

### CHAIN-OF-CUSTODY / Analytical Request Document

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

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

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No./ Lab I.D.	
							Preservatives												
							Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Analysis Test ↓	Y/N			
1	NEW_LREP_leachate																		
2	NEW_MW34&D																		
3	NEW_MW35&D																		
4	NEW_MW43&D																		
5	NEW_MW46&D																		
6	NEW_R201																		
7	NEW_R202																		
8	NEW_R217&D																		
9	NEW_R219		28, 9/26/23	1134		9													
10	NEW_T101		WTG 4/28/23																
11	NEW_T102																		
12	NEW_XPW01_pore																		
13	NEW_XPW02_pore																		
14	NEW_XPW03_pore																		
15	NEW_XPW04_pore		WTG 4/28/23	1023		10													
16	NEW_XSG01 - DTW																		

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	
<b>NEW-23Q2 Rev 0</b>		<i>Joe R Reed</i>		4/28/23		<i>Jason Stuckey</i>		4/28/23	12:12	Temp in °C: <b>7</b> Received on Ice (Y/N): <b>Y</b> Custody Sealed Cooler (Y/N): <b>Y</b> Samples Intact (Y/N): <b>Y</b>	

SAMPLER NAME AND SIGNATURE		DATE Signed (MM/DD/YY):
PRINT Name of SAMPLER: <b>Joe Reed</b>		
SIGNATURE of SAMPLER: <i>Joe Reed</i>		4/28/23





### CHAIN-OF-CUSTODY / Analytical Request Document

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

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

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
Site Location	IL	
STATE:		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No./ Lab I.D.							
								Preservatives																		
								Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Analysis Test ↓	NEW_257_501			NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	
1	NEW_G114																									
2	NEW_G114&D																									
3	NEW_G115 DTW																									
4	NEW_G116			4/28/23	1010		4																			
5	NEW_G117 DTW																									
6	NEW_G118 + DUP			4/28/23	1004		4																			
7	NEW_G119 DTW																									
8	NEW_G120 DTW																									
9	NEW_G125																									
10	NEW_G128																									
11	NEW_G130																									
12	NEW_G133																									
13	NEW_G136																									
14	NEW_G139 + DUP			4/28/23	1128		8																			
15	NEW_G141																									
16	NEW_G201 EB-04			4/28/23	1200		2																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q2 Rev 0	Joe Reed	4/28/23	16:12	gracy	4/28/23	16:12	4.4 Y 2 Y

SAMPLER NAME AND SIGNATURE	DATE Signed (MM/DD/YY)	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Joe Reed	4/28/23	4.4	Y	2	Y
SIGNATURE of SAMPLER: Joe Reed	4/28/23				

SAR-3: DEWATERING MEASUREMENTS  
Plant: PRIMARY ASH POND  
Event: NEWTON

Well	Unique ID	Date	Time	Depth to Water, ft bmp		Transducer			Initials	Notes
				Manual	Transducer	Serial No.	Batt %	DL		
A207	NEW A207	4/24/23	1541	X	36.00	NA	NA	NA	JMO	
A213	NEW A213		1544	X	18.63				KL	
A214	NEW A214		1531	X	40.90				KL	
A215	NEW A215		1527	X	44.03				KL	
G06D	NEW G006&D		1459	X	28.92				JMD	
G104	NEW G104		1804	X	4.51				JMD	
G104D	NEW G104&D		1810	X	50.37				JMD	
G104S	NEW G104#S		1806	X	4.68				JMD	TD = 89.31
G105	NEW G105		1833	X	7.10				JMD	TD = 26.04
G106	NEW G106		1857	X	20.37				JMD	TD = 26.20
G109	NEW G109		1647	X	5.11				AP	
G111	NEW G111		1815	X	5.97				JMD	TD = 24.97
G112	NEW G112		1823	X	4.38				JMD	TD = 22.75
G113	NEW G113		1708	X	17.09				JMD	TD = 24.62
G114	NEW G114		1723	X	13.45				JMD	TD = 33.33
G114D	NEW G114&D		1556	X	42.69				JR	
G115	NEW G115		1612	X	4.04				JR	
G116	NEW G116		1933	X	6.00				JMD	No Lock, no pump
G117	NEW G117		1845	X	7.08				JMD	TD = 21.90
G118	NEW G118		1608	X	6.32				JMD	TD = 22.59
G119	NEW G119		1654	X	4.10				JMD	TD = 23.85
G120	NEW G120		1632	X	7.33				JMD	TD = 23.38
G125	NEW G125		1457	X	2.84	JMD 4/24			KL	
G128	NEW G128		<del>1511</del> 1511	X	<del>19.75</del> 3.96				JMD	
G130	NEW G130		1704	X	4.34				JMD	TD = 22.69
G133	NEW G133		1658	X	8.84				JMD	TD = 27.32
G136	NEW G136		1643	X	6.69				JMD	TD = 22.20
G139	NEW G139		1639	X	6.15				JMD	TD = 23.05
G141	NEW G141		1515	X	10.99				JMD	TD = 25.16
G201	NEW G201		1742	X	17.50				JMD	
G202	NEW G202		1828	X	47.84				JMD	



SAR-3: Dept of Groundwater Measurements  
Plant: NEWTON POWER PLANT  
Event: PRIMARY ASH POND  
NEWTON

Well	Unique ID	Date	Time	Depth to Water, ft bmp		Transducer			Initials	Notes
				Manual	Transducer	Serial No.	Batt %	DL		
G203	NEW G203	4/24/23	1536	X	41.39	NA	NA	NA	JR	No lock
G208	NEW G208		1534	X	24.02				JMD	
G217S	NEW G217#S		1439	X	6.20				KL	
G218	NEW G218		1839	X	19.78				JMD	
G220	NEW G220		1525	X	17.03				JMD	
G221	NEW G221		1521	X	21.34				JMD	
G222	NEW G222		1518	X	15.13				JMD	
G223	NEW G223		1515	X	33.13				KL	Well has incorrect sign, says G233
G224	NEW G224		1503	X	42.56				KL	
G225	NEW G225		1511	X	7.27				JMD	TD= 24.99
G230	NEW G230		1500	X	47.99				JR	
G231	NEW G231		1504	X	47.36				JR	
G232	NEW G232		1509	X	45.73				JR	
G233	NEW G233		1516	X	41.67				JR	
G234	NEW G234		1532	X	43.18				JR	
G48MG	NEW G048MG		1826	X	18.99				JR	TD= 80.07
L1R	NEW L1R leachate		1716	X	52.80				KL	
L201	NEW L201 leachate		1720	X	13.30				KL	Dry
L202	NEW L202 leachate		1643	X	15.30				KL	Dry
L203	NEW L203 leachate		1650	X	9.60				KL	Dry
L204	NEW L204 leachate		1709	X	15.42				KL	
L205	NEW L205 leachate		1701	X	0.97				KL	
L301	NEW L301 leachate		NA	X	NA				JMD	No depth to measure
L302	NEW L302 leachate		NA	X	NA				JMD	Not a well
M25-1	NEW M25-1		1556	X	2.15				KL	
M25-2	NEW M25-2		1557	X	1.42				KL	
M25-3	NEW M25-3		1558	X	1.63				KL	
M25-4	NEW M25-4		1559	X	2.43				KL	
M25-5	NEW M25-5		1601	X	5.67				KL	
M25-6	NEW M25-6		1602	X	12.28				KL	
M25-7	NEW M25-7		1602	X	18.52				KL	

SAR-3: DEPTH TO GW MEASUREMENTS  
Plant: NEW TOWN POWER PLANT  
Event: PRIMARY ASH POND  
NEW TOWN

Well	Unique ID	Date	Time	Depth to Water, ft bmp		Transducer			Initials	Notes
				Manual	Transducer	Serial No.	Batt %	DL		
M26-1	NEW M26-1	4/24/23	1806	X	2.80	NA	NA	NA	KL	
M26-2	NEW M26-2		1807	X	23.02				KL	
M26-3	NEW M26-3		1808	X	23.19				KL	
M26-4	NEW M26-4		1809	X	NA				KL	
M26-5	NEW M26-5		1810	X	1.22				KL	Obstruction in well at depth 1.17'
M26-6	NEW M26-6		1811	X	1.21				KL	
M26-7	NEW M26-7		1812	X	40.76				KL	
MW31S	NEW MW31#S		19:35	X	6.00				JMD	TD = 18.69
MW33S	NEW MW33#S		1600	X	8.32				AP	TD = 29.59
MW34D	NEW MW34&D		1655	X	14.85				AP	TD = 58.73, unable to close casing
MW35D	NEW MW35&D		1438	X	26.24				AP	TD = 53.73
MW35S	NEW MW35#S		1737	X	2.99				JMD	TD = 16.28
MW36S	NEW MW36#S		1623	X	3.35				AP	TD = 15.49
MW43D	NEW MW43&D		1812	X	5.73				AP	TD = 40.80
MW46D	NEW MW46&D		1619	X	16.82				JR	
MW48S	NEW MW48#S		1833	X	3.52				JR	13.49 = TD
R201	NEW R201		1445	X	47.56				JR	
R202	NEW R202		1912	X	47.55				JR	
R216	NEW R216		1455	X	43.33				KL	
R217D	NEW R217&D		1444	X	19.15				KL	
R219	NEW R219		1528	X	20.08				JMD	
T101	NEW T101		1700	X	5.84				JR	
T102	NEW T102		1712	X	6.00				JR	
APW02	NEW APW02				X	21521987				
APW03	NEW APW03				X	21521988				
APW04	NEW APW04				X	21503517				
APW05	NEW APW05				X	21615053				
APW05S	NEW APW05#S				X	21503536				
APW06	NEW APW06				X	21615054				
APW07	NEW APW07				X	21615033				
APW08	NEW APW08				X	21615032				

SAR-3: Depth to Groundwater Measurements  
Plant: NEWTON POWER PLANT  
Event: PRIMARY ASH POND  
NEWTON

Well	Unique ID	Date	Time	Depth to Water, ft bmp		Transducer			Initials	Notes
				Manual	Transducer	Serial No.	Batt %	DL		
APW09	NEW_APW09				X	21522025	NA	NA		
APW10	NEW_APW10				X	21558058				
APW11	NEW_APW11				X	21558059				
APW12	NEW_APW12				X	21503535				
APW13	NEW_APW13				X	21522024				
APW14	NEW_APW14				X	21522035				
APW15	NEW_APW15				X	21522034				
APW16	NEW_APW16				X	21522033				
APW17	NEW_APW17				X	21522023				
APW18	NEW_APW18				X	21522026				
SG02	NEW_YSG02	4/24/23	1444	2.11	X	TBD			AP	
XPW01	NEW_XPW01_pore				X	21503518				
XPW02	NEW_XPW02_pore				X	21522010				
XPW03	NEW_XPW03_pore				X	21503520				
XPW04	NEW_XPW04_pore				X	21503519				
XSG01	NEW_XSG01	4/24/23	1716	534	X	TBD			AP	Staff gauge says 534

MW31D	4/24/23	1936	8.64							
MW32S		1545	4.93							TD = 43.20
MW32D		1536	15.55							TD = 22.20
MW33D		1557	12.30							TD = 63.12
MW34S		1659	3.58							TD = 51.71
MW36D		1618	7.52							TD = 18.66
MW43S		1812	4.79							TD = 35.07
MW46S		1623	4.28							TD = 16.54
MW48D		1831	4.98							TD = 41.54

Lake Levels

4/25/23 11:02	2.15'
4/26/23 8:11	2.19'
4/27/23 17:00	2.20'
4/28/23 7:58	2.17'
5/1/23 15:36	2.05'

6108 - well removed Jan 2023

**NEWTON**

WELL/SAMPLE POINT APW02

Purge Method: Submersible pump

Date: 4/27/23 Start Time: 1056 Finish/Sample Time: 1217

Well Depth (Bottom) From MP: 24.03 ft Min. Purge Volume: 2 Gal (L)

Depth to Water From MP: 3.72 ft Total Purge Volume: 4 Gal (L)

Total Drawdown: 3.11 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1118	6.83	100	6.72	5213.3	15.55	80.6	1.23	24.51
2	1120	6.83	100	6.72	5216.1	15.58	80.7	1.23	23.97
3	1121	6.83	100	6.71	5217.2	15.62	80.8	1.23	25.04
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatroll 600

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	P 2.5L HNO3
1	P 1000 mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
3	AV 40ml H2SO4
1	P 1000 mL
0.165	Soluble Iron +2
	ppm

Comments APW02 next to APW07. HOBO connect SAs 21615523 and 21615614  
F DTW = 6.83

Sampler's Signature: \_\_\_\_\_

**Newton**

WELL/SAMPLE POINT APW03

Purge Method: non deaerated pump

Date: 4/25/23 Start Time: 1145 Finish/Sample Time: 1320

Well Depth (Bottom) From MP: 23.47 ft Min. Purge Volume: 2 Gal

Depth to Water From MP: 11.94 ft Total Purge Volume: 2 Gal

Total Drawdown: 0.65 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1223	11.34	100	7.02	925	16.94	141	2.50	0.0
2	1224	11.39	100	7.01	925	16.91	140	2.45	0.0
3	1225	11.41	100	7.01	925	16.97	140	2.32	0.0
4	1226	11.47	100	7.01	925	16.97	141	2.25	0.0
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, 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) 1000ml
1	2.5L

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
3	A V 40ml H2SO4

Comments 0.106 ppm Soluble iron +2 Final DTW 12.5A PL  
Transducer S/N - 21615524

Sampler's Signature: [Signature] For Joe Reed

**NEWTON**

WELL/SAMPLE POINT APW04

Purge Method: submersible pump

Date: 4/25/23 Start Time: 1450 Finish/Sample Time: 1642

Well Depth (Bottom) From MP: 22.23 ft Min. Purge Volume: 2 Gal

Depth to Water From MP: 5.10 ft Total Purge Volume: 2.1 Gal / L

Total Drawdown: 6.21 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	1528	9.16	100	6.93	1830	11.79	172	0.93	203
2	1529	9.17	100	6.93	1830	11.79	172	0.93	204
3	1530	9.18	100	6.93	1830	11.79	171	0.93	178
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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, <del>25</del> mL) 1000m
1	2.5 L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, <del>500</del> mL) 1000mL
3	TOC

Comments s/n 21615483 0.155 ppm soluble iron +2

Sampler's Signature: Joseph R Raed

End DTW 11.31

**Newton**

WELL/SAMPLE POINT APW 055 (WR) Purge Method: Bladder pump/low flow  
 Date: 4/27/23 Start Time: 1110A JR Finish/Sample Time: 1240

Well Depth (Bottom) From MP: NM ft pump Min. Purge Volume: 2 Gal/L  
 Depth to Water From MP: 14.01 ft Total Purge Volume: 2.3 Gal/L  
 End DTW 14.05 ft  
 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	1149	14.05	100	7.06	824	14.55	-120	17.70	30.0
2	1150	14.05	100	7.08	822	14.50	-122	17.78	36.0
3	1151	14.05	100	7.10	819	14.51	-124	17.70	40.1
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

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

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 250mL) <u>1000mL</u>
3	<u>TOC 40mL</u>

Comments S/n - 216 29308 Dis. Iron<sup>+2</sup> = 1.151 ppm

Sampler's Signature: Joseph R Reed



**NEWTON**

WELL/SAMPLE POINT

APW05S UA

Purge Method:

Submersible pump

Date: 4/26/23 Start Time: 1633 Finish/Sample Time: 1740

Well Depth (Bottom) From MP: 23.24 ft Min. Purge Volume: 2 Gal / L

Depth to Water From MP: 9.46 ft Total Purge Volume: 2.3 Gal / L

End DTW 10.23

Total Drawdown: 0.77 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	1655	10.17	100	6.64	3940	1635	101	3.61	225
2	56	10.17	100	6.62	3940	1636	100	3.58	230
3	57	10.17	100	6.60	3930	1635	97	3.53	220
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horibo

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	<input checked="" type="checkbox"/>	
Casing locked/secure	<input checked="" type="checkbox"/>	
Well cap fits securely.	<input checked="" type="checkbox"/>	
Good seal/drainage	<input checked="" type="checkbox"/>	
Well has weep holes	<input checked="" type="checkbox"/>	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, 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)
1	<u>2.5L HNO<sub>3</sub></u>

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, <del>500mL</del> <u>1000mL</u> )
3	<u>TOC 40mL</u>

Comments

S/N - 21615502

Dissolved Iron<sup>+2</sup> = 0.259 ppm

Sampler's Signature:

Joseph R Reed



**NEWTON**

WELL/SAMPLE POINT APW06

Purge Method: Submersible pump

Date: 4/26/23 Start Time: 1443 Finish/Sample Time: 1600

Well Depth (Bottom) From MP: 75.75 ft Min. Purge Volume: 2 Gal  L

Depth to Water From MP: 19.33 ft Total Purge Volume: 2.3 Gal / L

End DTW 19.45

Total Drawdown: 0.12 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1510	19.45	100	7.36	795	17.55	-126	10.71	400
2	1511	19.45	100	7.35	797	17.55	-128	10.70	436
3	1512	19.45	100	7.35	796	17.55	-128	10.71	471
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
<u>3</u>	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
<u>1</u>	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1</u>	General (P, <del>500</del> mL) <u>1000 mL</u>
<u>1</u>	<u>2.5 L HNO3</u>

Filtered	
Qty	Bottles
<u>1</u>	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1</u>	General (P, <del>500</del> mL) <u>1000 mL</u>
<u>3</u>	<u>40 mL TOC</u>

Comments Dissolved Iron<sup>2+</sup> = 0.904 ppm  
S/N - 216 29309

Sampler's Signature: Joseph R Reed

**Newton**

WELL/SAMPLE POINT APW07

Purge Method: Submersible pump

Date: 4/27/23 Start Time: 0919 Finish/Sample Time: 1035

Well Depth (Bottom) From MP: 85.77 ft Min. Purge Volume: 2 Gal

Depth to Water From MP: 46.59 ft Total Purge Volume: 7 Gal

Total Drawdown: 0.00 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	0946	46.59	100	7.39	1050.9	14.41	-117.0	0.47	625.73
2	0947	46.59	100	7.40	1051.9	14.46	-117.0	0.48	648.42
3	0949	46.59	100	7.39	1050.7	14.50	-115.6	0.51	620.77
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Australl 600

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	P 2.5L HNO3
1	P 1000 mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
3	AV 40mL H2SO4
1	P 1000 mL
1,103	Soluble Iron <sup>+2</sup>

Comments HOB0 connect SN 21629296

Dedicated pump wasn't working properly. It discharges all the water in the tubing and then air.

Pulled pump and used portable pump.

Sampler's Signature: [Signature]

**NEWTON**

WELL/SAMPLE POINT APW08

Purge Method: Dedicated pump

Date: 4/26/23 Start Time: 1048 Finish/Sample Time: 1211

Well Depth (Bottom) From MP: NM ft Min. Purge Volume: 2.4 Gal (L)

Depth to Water From MP: 37.56 ft Total Purge Volume: 2.4 Gal (L)

Total Drawdown: 0.00 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1110	37.56	100	7.52	1105.4	14.24	-118.1	1.63	14.80
2	1111	37.56	100	7.53	1115.9	14.27	-117.2	1.67	16.76
3	1113	37.56	100	7.52	1100.0	14.23	-118.0	1.66	14.73
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aqua-tron 600

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	P 1000 mL
1	P 2.5L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
3	AV 40mL H2SO4
1	P 1000 mL
2.641	Soluble Iron +2
	ppm

Comments HORO correct SN 21629295

Sampler's Signature: [Signature]

**Newton**

WELL/SAMPLE POINT APW09

Purge Method: Submersible pump

Date: 4/27/23 Start Time: 1240 Finish/Sample Time: 1405

Well Depth (Bottom) From MP: 57.97 ft Min. Purge Volume: 2 Gal

Depth to Water From MP: 26.56 ft Total Purge Volume: 6 Gal

Total Drawdown: 0.00 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1304	26.56	100	7.53	1357.2	16.47	-134.6	0.53	93.33
2	1306	26.56	100	7.53	1357.4	16.51	-134.0	0.50	100.42
3	1307	26.56	100	7.53	1356.5	16.54	-137.0	0.47	116.74
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatroll 600

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	P 25L HNO3
1	P 1000 mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
3	AV 40 ml H2SO4
1	P 1000 mL
2.279	Soluble Iron <sup>+2</sup>

ppm

Comments APW09 next to APW03. HOBConnect SN's 21615616 and 21615524  
Decontaminated pump isn't pumping water at all. Pulled pump and used portable pump

Sampler's Signature: [Signature]

**NEWTON**

WELL/SAMPLE POINT APW10

Purge Method: Dedicated pump

Date: 7/27/23 Start Time: 1420 Finish/Sample Time: 1547

Well Depth (Bottom) From MP: 48.55 ft Min. Purge Volume: 2 Gal

Depth to Water From MP: 17.53 ft Total Purge Volume: 2.3 Gal

Total Drawdown: 0.11 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1442	17.59	100	7.36	1463.9	15.14	77.4	3.38	0.00
2	1443	17.59	100	7.36	1466.9	15.17	77.5	3.37	0.00
3	1445	17.59	100	7.36	1461.2	15.13	77.5	3.39	0.00
4	<del>.....</del>								
5	<del>.....</del>								
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatroll 600

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	P 2.5L HNO3
1	P 1000 mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
3	AV 40 mL H2SO4
1	P 1000 mL
0.025	Soluble Iron <sup>+2</sup>
	ppm

Comments APW10 next to APW04. HOB0 connect SNs 21615483 and 21615555  
Top 3 feet of pump tubing is folded in well. Needs to be cut off and reattached to wellhead adapter.  
Folded tubing has caused holes and leaks.

Sampler's Signature: [Signature]

FDPW = 17.64'



**NEWTON**

WELL/SAMPLE POINT APW11

Purge Method: Dedicated pump

Date: 4/26/23 Start Time: 1406 Finish/Sample Time: 1543

Well Depth (Bottom) From MP: NM ft Min. Purge Volume: 2 Gal (L)

Depth to Water From MP: 24.27 ft Total Purge Volume: 2.3 Gal (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	1432	24.32	100	7.14	1253.8	15.52	-13.8	0.67	471.71
2	1433	24.32	100	7.14	1252.4	15.56	-15.5	0.66	456.53
3	1435	24.32	100	7.15	1252.5	15.51	-17.8	0.64	445.59
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatroll 600

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	P 1000mL
1	P 2.5L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
3	AV 40mL H2SO4
1	P 1000mL
0.921	Soluble Iron <sup>+2</sup>
	ppm

Comments H0130 connect SN 21615556  
Final DTU = 24.36

Sampler's Signature: [Signature]

**NEWTON**

WELL/SAMPLE POINT APW12

Purge Method: Dedicated pump

Date: 4/26/23 Start Time: 1229 Finish/Sample Time: 1356

Well Depth (Bottom) From MP: NM ft Min. Purge Volume: 2 Gal  L

Depth to Water From MP: 14.56 ft Total Purge Volume: 2.3 Gal  L

Total Drawdown: 0.02 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1252	14.58	100	6.51	1817.1	14.64	107.5	1.04	0.02
2	1253	14.58	100	6.52	1817.1	14.66	108.7	1.02	0.62
3	1255	14.58	100	6.52	1831.4	14.65	107.4	0.98	0.52
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatech 600

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	P 1000 mL
1	P 2.5L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
3	AV 40mL H2SO4
1	P 1000 mL
0.107 ppm	Soluble Iron +2

Comments <sup>2nd 4/26</sup> HOB0 connect SN 521615501

Sampler's Signature: [Signature]

**NEWTON**

WELL/SAMPLE POINT APW13

Purge Method: Dedicated pump

Date: 4/27/23 Start Time: 1554 Finish/Sample Time: 1716

Well Depth (Bottom) From MP: NM ft Min. Purge Volume: 2 Gal (L)

Depth to Water From MP: 32.05 ft Total Purge Volume: 2.3 Gal (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	1616	32.15	100	7.26	1376.7	14.29	-22.8	1.58	0.00
2	1617	32.15	100	7.26	1377.2	14.33	-24.1	1.61	0.00
3	1619	32.15	100	7.26	1360.1	14.28	-25.3	1.63	0.00
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatroll 600

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	P 2.5L HNO3
1	P 1000 mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
3	AV 40 mL H2SO4
1	P 1000 mL
1.316	Soluble Iron <sup>2+</sup>

ppm

Comments HOBconnect SN 21615615

Sampler's Signature: [Signature]



**NEWTON**

WELL/SAMPLE POINT APW14

Purge Method: Dedicated pump

Date: 4/28/23 Start Time: 0908 Finish/Sample Time: 1129 <sup>JND 4/28</sup>

Well Depth (Bottom) From MP: NM ft Min. Purge Volume: 2 Gal (L)

Depth to Water From MP: 20.72 ft Total Purge Volume: 2.4 Gal (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	0930	20.76	100	7.35	1481.3	14.87	-93.3	1.28	12.43
2	0931	20.76	100	7.34	1473.8	14.85	-94.0	1.25	6.05
3	0933	20.76	100	7.34	1480.5	14.84	-95.0	1.22	8.81
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatroll 600

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3 + 3 dup	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1 + 1 dup	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1 + 1 dup	P 2.5 L HNO3
1 + 1 dup	P 1000 mL

Filtered	
Qty	Bottles
1 + 1 dup	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
3 + 3 dup	AV 40 mL H2SO4
1 + 1 dup	P 1000 mL
3.827 ppm	Soluble Iron <sup>++</sup>

Comments HORO connect SN 21C15626

Field dup

FDTU: 20.80

Sampler's Signature: [Signature]



**NEWTON**

WELL/SAMPLE POINT APW16

Purge Method: Dedicated pump

Date: 4/25/23 Start Time: 1108 Finish/Sample Time: 1326

Well Depth (Bottom) From MP: NM ft Min. Purge Volume: 2 Gal

Depth to Water From MP: 40.15 ft Total Purge Volume: 2 Gal

Total Drawdown: 0.00 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1137	40.15	100	7.64	947.82	14.10	-100.7	1.24	0.78
2	1138	40.15	100	7.65	949.58	14.04	-102.3	1.21	0.02
3	1140	40.15	100	7.65	953.00	14.04	-103.5	1.20	0.21
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatroll 600

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
6	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
2	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
2	General (P, 250 mL) 1000 mL
1	P 2.5L HNO3
1	P 1000 mL HNO3

Filtered	
Qty	Bottles
2	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
6	AV 40 mL H2SO4
2	P 1000 mL
2,271	Soluble Iron <sup>+2</sup>
	ppm

Comments HOB0 correct SN 21615624  
MS/MSD

Sampler's Signature: [Signature]



**NEWTON**

WELL/SAMPLE POINT APW17

Purge Method: Dedicated Pump

Date: 4/25/23 Start Time: 1527 Finish/Sample Time: 1650

Well Depth (Bottom) From MP: NM ft Min. Purge Volume: 2.2 Gal (L)

Depth to Water From MP: 41.09 ft Total Purge Volume: 2.2 Gal (L)

Total Drawdown: 0.00 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1552	41.09	100	7.62	1161.9	15.13	-95.4	1.24	3.04
2	1553	41.09	100	7.62	1161.8	15.14	-96.3	1.22	2.84
3	1555	41.09	100	7.62	1162.3	15.17	-97.2	1.20	3.82
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatroll 600

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	P 2.5 L HNO3
1	P 1000 mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
3	AV 40mL H2SO4
1	P 1000 mL
1.933	Soluble Iron $\mu$ g
	ppm

Comments APW17 next to APW02. HoBoconnect SAs 21615523 and 21615614

Sampler's Signature: [Signature]



**NEWTON**

WELL/SAMPLE POINT APW18

Purge Method: Dedicated pump

Date: 4/25/23 Start Time: 1340 Finish/Sample Time: 1503

Well Depth (Bottom) From MP: NM ft Min. Purge Volume: 2 Gal

Depth to Water From MP: 51.63 ft Total Purge Volume: 2 Gal

Total Drawdown: 0.00 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1405	51.63	100	7.77	1019.1	15.20	-134.0	1.10	10.57
2	1406	51.63	100	7.77	1015.5	15.17	-135.3	1.07	6.27
3	1408	51.63	100	7.78	1012.4	15.18	-136.7	1.05	5.01
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatroll 600

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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, 250 mL)
1	P 2.5L HNO3
1	P 1000 mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
3	AV 40mL H2SO4
1	P 1000 mL
1.328	Soluble Iron +2
	ppm

Comments HOB0 contact SN 21615617

Sampler's Signature: *[Signature]*

**NEWTON**

WELL/SAMPLE POINT XPW01

Purge Method: Bladder Pump / low flow

Date: 4/27/23 Start Time: 1300 Finish/Sample Time: 1407

Well Depth (Bottom) From MP: 17.47 ft Min. Purge Volume: 2 Gal

Depth to Water From MP: 11.06 ft Total Purge Volume: 2.3 Gal

End DTW 11.07  
 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	1326	11.07	100	12.20	10500	18.54	-378	4.43	>1000
2	1327	11.07	100	12.20	10500	18.40	-378	4.36	>1000
3	1328	11.07	100	12.19	10500	18.38	-379	4.27	>1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
<u>3</u>	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
<u>1</u>	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1</u>	General (P, <del>250</del> <u>1000</u> mL)

Filtered	
Qty	Bottles
<u>1</u>	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1</u>	General (P, <del>500</del> <u>1000</u> mL)
<u>3</u>	TOC 40mL

Comments s/n - 21615484 Dis. Iron<sup>+2</sup> = 0.508 ppm

Sampler's Signature: Joseph R Reed

**NEWTON**

WELL/SAMPLE POINT XPW02

Purge Method: Bladder pump / low flow

Date: 4/27/23 Start Time: 1413 Finish/Sample Time: 1529

Well Depth (Bottom) From MP: 16.49 ft Min. Purge Volume: 2 Gal (L)

Depth to Water From MP: 7.39 ft Total Purge Volume: 2.3 Gal (L)

End DTW 7.39  
 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	1443	7.45	100	9.59	400	17.55	-236	4.86	40.8
2	1444	7.45	100	9.58	400	17.56	-235	4.80	43.1
3	1445	7.45	100	9.58	400	17.56	-237	4.80	39.1
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

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

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 500mL) <u>1000mL</u>
3	TAC 40mL

Comments S/n - 21615544 Dis. Iron<sup>+2</sup> = 0.163 ppm

Sampler's Signature: Joseph R Reed

**NEWTON**

WELL/SAMPLE POINT XPW03

Purge Method: Bladder pump/low flow

Date: 4/27/23 Start Time: 1546 Finish/Sample Time: 1700

Well Depth (Bottom) From MP: 20.43 ft Min. Purge Volume: 2.0 Gal/L

Depth to Water From MP: 10.81 ft Total Purge Volume: 2.3 Gal/L

End DTW 10.81 ft  
 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	1620	10.81	100	11.51	1440	17.16	-272	0.69	146
2	1621	10.81	100	11.51	1440	17.13	-272	0.72	132
3	1622	10.81	100	11.51	1430	17.09	-273	0.70	119
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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) <u>1000 mL</u>

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 250mL) <u>1000 mL</u>
3	TOC 49 mL

Comments S/N 21615486 Dis. Iron<sup>+2</sup> = 0.127 ppm

Sampler's Signature: Joseph R Paul



**NEWTON**

WELL/SAMPLE POINT XPW04

Purge Method: Bladder Pump/Low Flow

Date: 4/28/23 Start Time: 9:18 Finish/Sample Time: 10:23

Well Depth (Bottom) From MP: 20.40 ft Min. Purge Volume: 2.0 Gal (L)

Depth to Water From MP: 12.49 ft Total Purge Volume: 2.3 Gal (L)

End DTW 12.50

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	939	12.50	100	11.59	11900	12.2	-246	1.99	88.4
2	940	12.50	100	11.59	11900	16.19	-251	1.85	75.0
3	941	12.50	100	11.59	11900	16.20	-255	1.78	75.5
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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, 500 mL) <u>1000 mL</u>

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 500 mL) <u>1000 mL</u>
3	TOC 40mL

Comments S/N - 21615485 Dis. Iron<sup>2+</sup> = 0.367 ppm

Sampler's Signature: Joseph R Reed

## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>JD</b>	Location: <b>Vistra Newton</b>
Weather: <b>43-62°F p. cloudy wind W 5-10 mph</b>	Environment: <b>grass, dirt rock roads</b>

Multiparameter Water Meter	Make: <b>Aquatroll</b>	Model: <b>600</b>	Serial Number: <b>762215</b>
Water Level Meter	Make: <b>Heron</b>	Model: <b>Dipper-T</b>	Serial Number: <b>3717-T</b>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.11</b>	s.u.	±0.1 s.u.	<b>Fail</b>	<b>Yes</b>	<b>4.06</b>	MSI	L344-09	12/14/2023
pH 7.00a	<b>6.86</b>	s.u.	±0.1 s.u.	<b>Fail</b>	<b>Yes</b>	<b>7.06</b>	MSI	L343-07	12/9/2023
pH 10.00a	<b>9.89</b>	s.u.	±0.1 s.u.	<b>Fail</b>	<b>Yes</b>	<b>10.08</b>	MSI	M082-04	3/25/2024
SC Zero (DI)	<b>12.13</b>	µS/cm	0<25 µS/cm	<b>Pass</b>	<b>No</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>2023.0</b>	µS/cm	±5%	<b>Pass</b>	<b>No</b>	<b>NA</b>	Geotech	2GE1442	May-23
ORP	<b>244.3</b>	mV	±15 mV	<b>Pass</b>	<b>No</b>	<b>NA</b>	InSitu	2G1762	Jun-23
DO (Zero pt)	<b>0.03</b>	mg/L	±0.1	<b>Pass</b>	<b>No</b>	<b>NA</b>	Macron	#000228049	8/26/2025
DO (Saturated)	<b>90.87</b>	%	97-100%	<b>Fail</b>	<b>Yes</b>	<b>99.73</b>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>0.00</b>	NTU	<2 NTU	<b>Pass</b>	<b>No</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:					
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	<b>4.08</b>	s.u.	±0.15 s.u.	<b>Pass</b>	<b>NA</b>	Geotech	2GC243	Mar-24		
pH 7.00b	<b>7.07</b>	s.u.	±0.15 s.u.	<b>Pass</b>	<b>NA</b>	Geotech	2GC931	Mar-24		
pH 10.00b	<b>10.07</b>	s.u.	±0.15 s.u.	<b>Pass</b>	<b>NA</b>	Geotech	2GE820	May-24		
SC 1000	<b>965.05</b>	µS/cm	±5%	<b>Pass</b>	<b>NA</b>	Ricca	4205H64	May-24		


Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a	<b>4.07</b>	s.u.	±0.1 s.u.	<b>Pass</b>	<b>No</b>	<b>NA</b>	MSI	L315-04	11/22/2023	
pH 7.00a	<b>7.07</b>	s.u.	±0.1 s.u.	<b>Pass</b>	<b>No</b>	<b>NA</b>	MSI	L172-33	6/23/2023	
pH 10.00a	<b>10.10</b>	s.u.	±0.1 s.u.	<b>Pass</b>	<b>No</b>	<b>NA</b>	MSI	L354-22	1/5/2024	
SC 1000	<b>969.37</b>	µS/cm	±5%	<b>Pass</b>	<b>No</b>	<b>NA</b>	Ricca	2108D48	Jul-23	
DO (Zero pt)	<b>0.07</b>	mg/L	±0.1 mg/L	<b>Pass</b>	<b>No</b>	<b>NA</b>	Macron	#000228049	8/26/2025	
Turbidity (DI)	<b>0.00</b>	NTU	<2 NTU	<b>Pass</b>	<b>No</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)	

Approx. every 4 hrs, unless only one well

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

Comments:

Signature: 	Date: <b>4/25/23</b>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Kyle Lane</b>				Location: <b>Newton Power</b>					
Weather: <b>46° to 65° cloudy</b>				Environment: <b>Dry</b>					
Multiparameter Water Meter		Make: <b>Horiba</b>	Model: <b>V-5000</b>	Serial Number: <b>VL9KJ9HR</b>					
Water Level Meter		Make: <b>Huron</b>	Model: <b>Water + a.c.</b>	Serial Number: <b>19 FF211192HB</b>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.01</b>	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	<b>8.97</b>	s.u.	±0.1 s.u.	P	NA	NA	MSI	L343-07	12/9/2023
pH 10.00a	<b>10.01</b>	s.u.	±0.1 s.u.	P	NA	NA	MSI	M082-04	3/25/2024
SC Zero (DI)	<b>25.00</b>	µS/cm	0<25 µS/cm	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>19.99</b>	µS/cm	±5%	P	NA	NA	Geotech	2GE1442	May-23
ORP	<b>123.8</b>	mV	±15 mV	P	NA	NA	InSitu	2G1762	Jun-23
DO (Zero pt)	<b>0.00</b>	mg/L	±0.1	P	NA	NA	Macron	#000228049	8/26/2025
DO (Saturated)	<b>9.48</b>	%	97-100%	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>0.84</b>	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

### ICV (Initial Calibration Verification)

Time: **10:21**

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<b>4.00</b>	s.u.	±0.15 s.u.	P	NA	Geotech	2GC243	Mar-24
pH 7.00b	<b>7.00</b>	s.u.	±0.15 s.u.	P	NA	Geotech	2GC931	Mar-24
pH 10.00b	<b>10.01</b>	s.u.	±0.15 s.u.	P	NA	Geotech	2GE820	May-24
SC 1000	<b>97.8</b>	µS/cm	±5%	P	NA	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

### CCV (Continued Calibration Verification):

Time: **NA**

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

Approx. every 4 hrs, unless only one well

### CCV (Continued Calibration Verification):

Time: **17:45**

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<b>4.07</b>	s.u.	±0.1 s.u.	P	NA	NA	MSI	L315-04	11/22/2023
7.00a	<b>6.94</b>	s.u.	±0.1 s.u.	P	NA	NA	MSI	L172-33	6/23/2023
10.00a	<b>9.97</b>	s.u.	±0.1 s.u.	P	NA	NA	MSI	L354-22	1/5/2024
SC 1000	<b>10.6</b>	µS/cm	±5%	P	NA	NA	Ricca	2108D48	Jul-23
DO (Zero pt)	<b>0.00</b>	mg/L	±0.1 mg/L	P	NA	NA	Macron	#000228049	8/26/2025
Turbidity (DI)	<b>1.8</b>	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <b>[Signature]</b>	Date: <b>4-25-23</b>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed			Location:	Newton Power Station				
Weather:	40-65° Mostly sunny winds 5-10 mph			Environment:	Grassy, gravel road				
Multiparameter Water Meter	Make:	Horiba	Model:	U-5000	Serial Number:	U4U1FVTF			
Water Level Meter	Make:	Herin	Model:	DipperT	Serial Number:	19FF2202131ML			
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	Y		MSI	L344-09	12/14/2023
pH 7.00a	7.04	s.u.	±0.1 s.u.	P	Y		MSI	L343-07	12/9/2023
pH 10.00a	10.05	s.u.	±0.1 s.u.	P	Y		MSI	M082-04	3/25/2024
SC Zero (DI)	8	µS/cm	0<25 µS/cm	P	Y		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2050	µS/cm	±5%	P	Y		Geotech	2GE1442	May-23
ORP	244	mV	±15 mV	P	Y		InSitu	2G1762	Jun-23
DO (Zero pt)	0.05	mg/L	±0.1	P	Y		Macron	#000228049	8/26/2025
DO (Saturated)	97.8	%	97-100%	P	Y		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	Y		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

### ICV (Initial Calibration Verification)

Time: 1010

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.07	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC243	Mar-24
pH 7.00b	7.07	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC931	Mar-24
pH 10.00b	9.95	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE820	May-24
SC 1000	1010	µS/cm	±5%	P	N/A	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

### CCV (Continued Calibration Verification):

Time: 1815

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.05	s.u.	±0.1 s.u.	P	N		MSI	L315-04	11/22/2023
pH 7.00a	7.04	s.u.	±0.1 s.u.	P	N		MSI	L172-33	6/23/2023
pH 10.00a	10.06	s.u.	±0.1 s.u.	P	N		MSI	L354-22	1/5/2024
SC 1000	1010	µS/cm	±5%	P	N		Ricca	2108D48	Jul-23
DO (Zero pt)	0.05	mg/L	±0.1 mg/L	P	N		Macron	#000228049	8/26/2025
Turbidity (DI)	0.5	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

### CCV (Continued Calibration Verification):

Time:

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

Comments:

Signature: Joseph R Reed		Date: 4/25/23
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Amor Pemberton</i>				Location: <i>Newton</i>					
Weather: <i>45°-63° C cloudy with SE 3 mph</i>				Environment: <i>grass, dirt, woods</i>					
Multiparameter Water Meter		Make: <i>AT</i>	Model: <i>600</i>	Serial Number: <i>762 193</i>					
Water Level Meter		Make: <i>Heron</i>	Model: <i>Dipper</i>	Serial Number: <i>115F2209305ML</i>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.09</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	L344-09	12/14/2023
pH 7.00a	<i>7.08</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	L343-07	12/9/2023
pH 10.00a	<i>10.06</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	M082-04	3/25/2024
SC Zero (DI)	<i>21.07</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2044.7</i>	µS/cm	±5%	<i>P</i>	<i>NO</i>	<i>N/A</i>	Geotech	2GE1442	May-23
ORP	<i>236.9</i>	mV	±15 mV	<i>P</i>	<i>NO</i>	<i>N/A</i>	InSitu	2G1762	Jun-23
DO (Zero pt)	<i>0.02</i>	mg/L	±0.1	<i>P</i>	<i>NO</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>83.74</i>	%	97-100%	<i>P</i>	<i>YES</i>	<i>+100 100</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>2.72</i>	NTU	<2 NTU	<i>P</i>	<i>YES</i>	<i>0.00</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well *App 4/25/23*

ICV (Initial Calibration Verification)							Time: <i>0915</i>		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>4.09</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GC243	Mar-24	
pH 7.00b	<i>6.93</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GC931	Mar-24	
pH 10.00b	<i>10.01</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GE820	May-24	
SC 1000	<i>196.44</i>	µS/cm	±5%	<i>P</i>	<i>N/A</i>	Ricca	4205H64	May-24	


Approx. every 4 hrs, unless only one well *242 @ 15c*

CCV (Continued Calibration Verification):							Time: <i>1831</i>		
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.08</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	L315-04	11/22/2023
pH 7.00a	<i>7.08</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	L172-33	6/23/2023
pH 10.00a	<i>10.07</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	L354-22	1/5/2024
SC 1000	<i>182.4</i>	µS/cm	±5%	<i>P</i>	<i>NO</i>	<i>N/A</i>	Ricca	2108D48	Jul-23
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>NO</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>1.51</i>	NTU	<2 NTU	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments:

Signature: 	Date: <i>4/25/2023</i>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>JD</b>				Location: <i>Vista Newton</i>					
Weather: <i>42-62°F sunny wind NW 5mph</i>				Environment: <i>grassy</i>					
Multiparameter Water Meter		Make: <i>Aquatroll</i>	Model: <i>606</i>	Serial Number: <i>762215</i>					
Water Level Meter		Make: <i>Heron</i>	Model: <i>Dipper-T</i>	Serial Number: <i>3717-T</i>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>3.98</i>	s.u.	±0.1 s.u.	<i>pass</i>	<i>No</i>	<i>NA</i>	MSI	L344-09	12/14/2023
pH 7.00a	<i>7.06</i>	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	<i>10.07</i>	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	<i>14.62</i>	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>1937.2</i>	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	<i>252.0</i>	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	<i>0.05</i>	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	<i>98.13</i>	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.00</i>	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)						Time: <i>0916</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>4.67</i>	s.u.	±0.15 s.u.	<i>pass</i>	<i>NA</i>	Geotech	2GC243	Mar-24	
pH 7.00b	<i>6.97</i>	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24	
pH 10.00b	<i>9.92</i>	s.u.	±0.15 s.u.			Geotech	2GE820	May-24	
SC 1000	<i>981.01</i>	µS/cm	±5%			Ricca	4205H64	May-24	
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):						Time: <i>1740</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.08</i>	s.u.	±0.1 s.u.	<i>pass</i>	<i>No</i>	<i>NA</i>	MSI	L315-04	11/22/2023
pH 7.00a	<i>7.07</i>	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	<i>10.07</i>	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	<i>955.42</i>	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.00</i>	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Comments:									
Signature: <i>James P. ...</i>						Date: <i>4/26/23</i>			

## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Aaron Pemberton</i>				Location: <i>Newton</i>					
Weather: <i>52°-63°L Sunny Wind NE 8mph</i>				Environment: <i>Grass, dirt</i>					
Multiparameter Water Meter		Make: <i>A7</i>	Model: <i>600</i>	Serial Number: <i>762193</i>					
Water Level Meter		Make: <i>Heron</i>	Model: <i>D:MP-7</i>	Serial Number: <i>11882209305ML</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.	P	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	<i>7.04</i>	s.u.	±0.1 s.u.	P	I	I	MSI	L343-07	12/9/2023
pH 10.00a	<i>10.01</i>	s.u.	±0.1 s.u.	P	I	I	MSI	M082-04	3/25/2024
SC Zero (DI)	<i>3.93</i>	µS/cm	0<25 µS/cm	I	I	I	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2025.1</i>	µS/cm	±5%	I	I	I	Geotech	2GE1442	May-23
ORP	<i>240.0</i>	mV	±15 mV	I	I	I	InSitu	2G1762	Jun-23
DO (Zero pt)	<i>0.08</i>	mg/L	±0.1	I	I	I	Macron	#000228049	8/26/2025
DO (Saturated)	<i>07.64</i>	%	97-100%	I	I	I	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>1.15</i>	NTU	<2 NTU	I	I	I	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

*236 @ 20°C*

ICV (Initial Calibration Verification)					Time: <i>0952</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.	P	N/A		Geotech	2GC243	Mar-24
pH 7.00b	<i>6.89</i>	s.u.	±0.15 s.u.	I	I		Geotech	2GC931	Mar-24
pH 10.00b	<i>10.00</i>	s.u.	±0.15 s.u.	I	I		Geotech	2GE820	May-24
SC 1000	<i>288.6</i>	µS/cm	±5%	I	I		Ricca	4205H64	May-24


Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <i>1720</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.	P	NO	N/A	MSI	L315-04	11/22/2023
pH 7.00a	<i>7.02</i>	s.u.	±0.1 s.u.	P	I	I	MSI	L172-33	6/23/2023
pH 10.00a	<i>10.05</i>	s.u.	±0.1 s.u.	P	I	I	MSI	L354-22	1/5/2024
SC 1000	<i>299.72</i>	µS/cm	±5%	P	I	I	Ricca	2108D48	Jul-23
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1 mg/L	P	I	I	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>1.03</i>	NTU	<2 NTU	P	I	I	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments:

Signature: 	Date: <i>4/26/2023</i>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Kyle Lane</b>				Location: <b>Newton Power</b>					
Weather: <b>41° to 63° sunny cloudy</b>				Environment: <b>Dry</b>					
Multiparameter Water Meter		Make: <b>HORIBA</b>	Model: <b>V-5000</b>	Serial Number: <b>Y19KJ9Ha</b>					
Water Level Meter		Make: <b>Heron</b>	Model: <b>Water Tafe</b>	Serial Number: <b>19FF211192 H0</b>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.00</b>	s.u.	±0.1 s.u.	<b>P</b>	<b>N/A</b>	<b>N/A</b>	MSI	L344-09	12/14/2023
pH 7.00a	<b>6.81</b>	s.u.	±0.1 s.u.	<b>F</b>	<b>7.00</b>	<b>7.00</b>	MSI	L343-07	12/9/2023
pH 10.00a	<b>10.89</b>	s.u.	±0.1 s.u.	<b>P</b>	<b>N/A</b>	<b>N/A</b>	MSI	M082-04	3/25/2024
SC Zero (DI)	<b>13.00</b>	µS/cm	0<25 µS/cm	<b>P</b>	<b>N/A</b>	<b>N/A</b>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>17.90</b>	µS/cm	±5%	<b>F</b>	<b>4.5</b>	<b>2.00</b>	Geotech	2GE1442	May-23
ORP	<b>243</b>	mV	±15 mV	<b>P</b>	<b>N/A</b>	<b>N/A</b>	InSitu	2G1762	Jun-23
DO (Zero pt)	<b>0.05</b>	mg/L	±0.1	<b>P</b>	<b>N/A</b>	<b>N/A</b>	Macron	#000228049	8/26/2025
DO (Saturated)	<b>97.46</b>	%	97-100%	<b>P</b>	<b>N/A</b>	<b>N/A</b>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>1.90</b>	NTU	<2 NTU	<b>P</b>	<b>N/A</b>	<b>N/A</b>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <b>10:04</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<b>3.95</b>	s.u.	±0.15 s.u.	<b>P</b>	<b>N/A</b>	Geotech	2GC243	Mar-24	
pH 7.00b	<b>7.00</b>	s.u.	±0.15 s.u.	<b>P</b>	<b>N/A</b>	Geotech	2GC931	Mar-24	
pH 10.00b	<b>10.13</b>	s.u.	±0.15 s.u.	<b>P</b>	<b>N/A</b>	Geotech	2GE820	May-24	
SC 1000	<b>9.90</b>	µS/cm	±5%	<b>P</b>	<b>N/A</b>	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

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

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <b>18:48</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<b>4.08</b>	s.u.	±0.1 s.u.	<b>P</b>	<b>N/A</b>	<b>N/A</b>	MSI	L315-04	11/22/2023
7.00a	<b>7.05</b>	s.u.	±0.1 s.u.	<b>P</b>	<b>N/A</b>	<b>N/A</b>	MSI	L172-33	6/23/2023
10.00a	<b>10.05</b>	s.u.	±0.1 s.u.	<b>P</b>	<b>N/A</b>	<b>N/A</b>	MSI	L354-22	1/5/2024
SC 1000	<b>10.40</b>	µS/cm	±5%	<b>P</b>	<b>N/A</b>	<b>N/A</b>	Ricca	2108D48	Jul-23
DO (Zero pt)	<b>0.07</b>	mg/L	±0.1 mg/L	<b>P</b>	<b>N/A</b>	<b>N/A</b>	Macron	#000228049	8/26/2025
Turbidity (DI)	<b>1.40</b>	NTU	<2 NTU	<b>P</b>	<b>N/A</b>	<b>N/A</b>	Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <b>Kyle Lane</b>	Date: <b>4-26-2023</b>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Joe Reed</u>			Location: <u>Newton Power</u>		
Weather: <u>54-63° sunny w 4-7mph</u>			Environment: <u>Dusty road/grass</u>		
Multiparameter Water Meter	Make: <u>Horiba</u>	Model: <u>U5000</u>	Serial Number: <u>U4U1FVTF</u>		
Water Level Meter	Make: <u>Heron</u>	Model: <u>Dipper-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>3.99</u>	s.u.	±0.1 s.u.	P	Y	*	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.07</u>	s.u.	±0.1 s.u.	P	Y		MSI	L343-07	12/9/2023
pH 10.00a	<u>9.99</u>	s.u.	±0.1 s.u.	P	Y		MSI	M082-04	3/25/2024
SC Zero (DI)	<u>5</u>	µS/cm	0<25 µS/cm	P	Y		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2010</u>	µS/cm	±5%	P	Y		Geotech	2GE1442	May-23
ORP	<u>235</u>	mV	±15 mV	P	Y		InSitu	2G1762	Jun-23
DO (Zero pt)	<u>0.04</u>	mg/L	±0.1	P	Y		Macron	#000228049	8/26/2025
DO (Saturated)	<u>99.1</u>	%	97-100%	P	Y		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.40</u>	NTU	<2 NTU	P	Y		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

### ICV (Initial Calibration Verification)

Time: 1236

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>4.00</u>	s.u.	±0.15 s.u.	P	Y	Geotech	2GC243	Mar-24
pH 7.00b	<u>6.95</u>	s.u.	±0.15 s.u.	P	Y	Geotech	2GC931	Mar-24
pH 10.00b	<u>9.97</u>	s.u.	±0.15 s.u.	P	Y	Geotech	2GE820	May-24
SC 1000	<u>1030</u>	µS/cm	±5%	P	Y	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

### CCV (Continued Calibration Verification):

Time: 1858

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.	P	Y	*	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.05</u>	s.u.	±0.1 s.u.	P	Y		MSI	L172-33	6/23/2023
pH 10.00a	<u>10.03</u>	s.u.	±0.1 s.u.	P	Y		MSI	L354-22	1/5/2024
SC 1000	<u>1010</u>	µS/cm	±5%	P	Y		Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.05</u>	mg/L	±0.1 mg/L	P	Y		Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.6</u>	NTU	<2 NTU	P	Y		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

### CCV (Continued Calibration Verification):

Time:

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

Comments:

Signature:		Date:	<u>4/26/23</u>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Aaron Rembertson</i>		Location: <i>Newton</i>	
Weather: <i>6:00 PM cloudy wind NE 7 mph</i>		Environment: <i>grass, dirt, woods</i>	
Multiparameter Water Meter	Make: <i>AT</i>	Model: <i>600</i>	Serial Number: <i>762193</i>
Water Level Meter	Make: <i>Heron</i>	Model: <i>Dipper T</i>	Serial Number: <i>11FF2209305ML</i>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.04</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	L344-09	12/14/2023
pH 7.00a	<i>7.02</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>I</i>	<i>I</i>	MSI	L343-07	12/9/2023
pH 10.00a	<i>10.06</i>	s.u.	±0.1 s.u.	<i>I</i>	<i>I</i>	<i>I</i>	MSI	M082-04	3/25/2024
SC Zero (DI)	<i>3.52</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>2022.2</i>	µS/cm	±5%	<i>I</i>	<i>I</i>	<i>I</i>	Geotech	2GE1442	May-23
ORP	<i>239</i>	mV	±15 mV	<i>I</i>	<i>I</i>	<i>I</i>	InSitu	2G1762	Jun-23
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1	<i>I</i>	<i>I</i>	<i>I</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>98.72</i>	%	97-100%	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.00</i>	NTU	<2 NTU	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <i>0903</i>	<i>242 @ 15°C</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>N/A</i>	Geotech	2GC243	Mar-24		
pH 7.00b	<i>6.89</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>I</i>	Geotech	2GC931	Mar-24		
pH 10.00b	<i>10.04</i>	s.u.	±0.15 s.u.	<i>I</i>	<i>I</i>	Geotech	2GE820	May-24		
SC 1000	<i>994.75</i>	µS/cm	±5%	<i>I</i>	<i>I</i>	Ricca	4205H64	May-24		

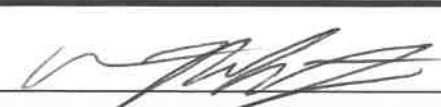
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <i>1200</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.08</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	L315-04	11/22/2023
pH 7.00a	<i>7.06</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>I</i>	<i>I</i>	MSI	L172-33	6/23/2023
pH 10.00a	<i>10.03</i>	s.u.	±0.1 s.u.	<i>I</i>	<i>I</i>	<i>I</i>	MSI	L354-22	1/5/2024
SC 1000	<i>995.1</i>	µS/cm	±5%	<i>I</i>	<i>I</i>	<i>I</i>	Ricca	2108D48	Jul-23
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1 mg/L	<i>I</i>	<i>I</i>	<i>I</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.00</i>	NTU	<2 NTU	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments:

Signature: 	Date: <i>4/27/2023</i>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Joe Reed</b>		Location: <b>Newton</b>	
Weather: <b>50-69° part cloudy wind 5 mph</b>		Environment: <b>Dusty grassy</b>	
Multiparameter Water Meter	Make: <b>Horiba</b>	Model: <b>U-5000</b>	Serial Number: <b>U4U1FVTF</b>
Water Level Meter	Make: <b>Heron</b>	Model: <b>Dipper</b>	Serial Number: <b>19FF211192HB</b>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.00</b>	s.u.	±0.1 s.u.	P	Y	/	MSI	L344-09	12/14/2023
pH 7.00a	<b>6.99</b>	s.u.	±0.1 s.u.	P	Y		MSI	L343-07	12/9/2023
pH 10.00a	<b>10.00</b>	s.u.	±0.1 s.u.	P	Y		MSI	M082-04	3/25/2024
SC Zero (DI)	<b>0.5</b>	µS/cm	0<25 µS/cm	P	Y		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>2010</b>	µS/cm	±5%	P	Y		Geotech	2GE1442	May-23
ORP	<b>234</b>	mV	±15 mV	P	Y		InSitu	2G1762	Jun-23
DO (Zero pt)	<b>0.05</b>	mg/L	±0.1	P	Y		Macron	#000228049	8/26/2025
DO (Saturated)	<b>98.1</b>	%	97-100%	P	Y		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>0.0</b>	NTU	<2 NTU	P	Y		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time:		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<b>4.00</b>	s.u.	±0.15 s.u.	P	Y	Geotech	2GC243	Mar-24
pH 7.00b	<b>7.01</b>	s.u.	±0.15 s.u.	P	Y	Geotech	2GC931	Mar-24
pH 10.00b	<b>10.02</b>	s.u.	±0.15 s.u.	P	Y	Geotech	2GE820	May-24
SC 1000	<b>1010</b>	µS/cm	±5%	P	Y	Ricca	4205H64	May-24


Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.02</b>	s.u.	±0.1 s.u.	P	Y	/	MSI	L315-04	11/22/2023
pH 7.00a	<b>7.01</b>	s.u.	±0.1 s.u.	P	Y		MSI	L172-33	6/23/2023
pH 10.00a	<b>10.00</b>	s.u.	±0.1 s.u.	P	Y		MSI	L354-22	1/5/2024
SC 1000	<b>1020</b>	µS/cm	±5%	P	Y		Ricca	2108D48	Jul-23
DO (Zero pt)	<b>0.05</b>	mg/L	±0.1 mg/L	P	Y		Macron	#000228049	8/26/2025
Turbidity (DI)	<b>0.0</b>	NTU	<2 NTU	P	Y		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments:

Signature:		Date:	<b>4/27/23</b>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: JD Location: Vista Newton

Weather: 40-69°F wind NE Smp Environment: grassy, rock road

Multiparameter Water Meter Make: Aquatroll Model: 600 Serial Number: 762215

Water Level Meter Make: Hera Model: Dip-T Serial Number: 3717-T

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>Pass</u>	<u>No</u>	<u>NA</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.01</u>	s.u.	±0.1 s.u.	<u>Pass</u>	<u>No</u>	<u>NA</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.01</u>	s.u.	±0.1 s.u.	<u>Pass</u>	<u>No</u>	<u>NA</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>7.25</u>	µS/cm	0<25 µS/cm	<u>Pass</u>	<u>No</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>1914.8</u>	µS/cm	±5%	<u>Pass</u>	<u>No</u>	<u>NA</u>	Geotech	2GE1442	May-23
ORP	<u>255.8</u>	mV	±15 mV	<u>Pass</u>	<u>No</u>	<u>NA</u>	InSitu	2G1762	Jun-23
DO (Zero pt)	<u>0.07</u>	mg/L	±0.1	<u>Pass</u>	<u>No</u>	<u>NA</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>97.49</u>	%	97-100%	<u>Pass</u>	<u>No</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.00</u>	NTU	<2 NTU	<u>Pass</u>	<u>No</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) Time: 0849

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>4.10</u>	s.u.	±0.15 s.u.	<u>Pass</u>	<u>NA</u>	Geotech	2GC243	Mar-24
pH 7.00b	<u>6.92</u>	s.u.	±0.15 s.u.	<u>Pass</u>	<u>NA</u>	Geotech	2GC931	Mar-24
pH 10.00b	<u>9.94</u>	s.u.	±0.15 s.u.	<u>Pass</u>	<u>NA</u>	Geotech	2GE820	May-24
SC 1000	<u>962.41</u>	µS/cm	±5%	<u>Pass</u>	<u>NA</u>	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time: 1739

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.05</u>	s.u.	±0.1 s.u.	<u>Pass</u>	<u>No</u>	<u>NA</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.06</u>	s.u.	±0.1 s.u.	<u>Pass</u>	<u>No</u>	<u>NA</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>10.05</u>	s.u.	±0.1 s.u.	<u>Pass</u>	<u>No</u>	<u>NA</u>	MSI	L354-22	1/5/2024
SC 1000	<u>965.34</u>	µS/cm	±5%	<u>Pass</u>	<u>No</u>	<u>NA</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.06</u>	mg/L	±0.1 mg/L	<u>Pass</u>	<u>No</u>	<u>NA</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.00</u>	NTU	<2 NTU	<u>Pass</u>	<u>No</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time:           

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

Comments:

Signature: [Signature] Date: 4/27/23

## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Kyle Lane</b>				Location: <b>Newton Power</b>			
Weather: <b>45° to 70° Sunny</b>				Environment: <b>Dry</b>			
Multiparameter Water Meter		Make: <b>Horiba</b>	Model: <b>U-5000</b>	Serial Number: <b>YL9KJPHa</b>			
Water Level Meter		Make: <b>Heron</b>	Model: <b>Water tape</b>	Serial Number: <b>11FF2209305 Mil</b>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.00</b>	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	<b>7.00</b>	s.u.	±0.1 s.u.	P	NA	NA	MSI	L343-07	12/9/2023
pH 10.00a	<b>10.01</b>	s.u.	±0.1 s.u.	P	NA	NA	MSI	M082-04	3/25/2024
SC Zero (DI)	<b>12.14</b>	µS/cm	0<25 µS/cm	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>1978</b>	µS/cm	±5%	P	NA	NA	Geotech	2GE1442	May-23
ORP	<b>246</b>	mV	±15 mV	P	NA	NA	InSitu	2G1762	Jun-23
DO (Zero pt)	<b>0.06</b>	mg/L	±0.1	P	NA	NA	Macron	#000228049	8/26/2025
DO (Saturated)	<b>9.2</b>	%	97-100%	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>1.30</b>	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)

97.49

Approx. every 4 hrs, unless only one well

<b>ICV (Initial Calibration Verification)</b>						Time: <b>08:47</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<b>4.01</b>	s.u.	±0.15 s.u.	P	NA	Geotech	2GC243	Mar-24	
pH 7.00b	<b>7.98</b>	s.u.	±0.15 s.u.	P	NA	Geotech	2GC931	Mar-24	
pH 10.00b	<b>9.91</b>	s.u.	±0.15 s.u.	P	NA	Geotech	2GE820	May-24	
SC 1000	<b>968</b>	µS/cm	±5%	P	NA	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

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

Approx. every 4 hrs, unless only one well

<b>CCV (Continued Calibration Verification):</b>						Time: <b>12:34</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<b>4.05</b>	s.u.	±0.1 s.u.	P	NA	NA	MSI	L315-04	11/22/2023
7.00a	<b>7.02</b>	s.u.	±0.1 s.u.	P	NA	NA	MSI	L172-33	6/23/2023
10.00a	<b>10.07</b>	s.u.	±0.1 s.u.	P	NA	NA	MSI	L354-22	1/5/2024
SC 1000	<b>1020</b>	µS/cm	±5%	P	NA	NA	Ricca	2108D48	Jul-23
DO (Zero pt)	<b>0.00</b>	mg/L	±0.1 mg/L	P	NA	NA	Macron	#000228049	8/26/2025
Turbidity (DI)	<b>1.10</b>	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <b>[Signature]</b>	Date: <b>4-27-23</b>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: Kyle Lane Location: Newton Power

Weather: 56° to 70° SUNNY Environment: Wet

Multiparameter Water Meter Make: HORIBA Model: U-5000 Serial Number: YL 9K59HA

Water Level Meter Make: Heron Model: Water tape Serial Number: 19FF220131ML

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.35</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>Y</u>	<u>4.00</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>6.96</u>	s.u.	±0.1 s.u.	<u>A</u>	<u>NA</u>	<u>NA</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.00</u>	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	<u>20.10</u>	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>1,970</u>	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	<u>23</u>	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	<u>0.00</u>	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	<u>98.00</u>	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>1.60</u>	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	<u>3.98</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>	Geotech	2GC243	Mar-24		
pH 7.00b	<u>6.87</u>	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24		
pH 10.00b	<u>9.96</u>	s.u.	±0.15 s.u.			Geotech	2GE820	May-24		
SC 1000	<u>960</u>	µS/cm	±5%			Ricca	4205H64	May-24		

Approx. every 4 hrs, unless only one well

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

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.		
4.00a	<u>4.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L315-04	11/22/2023		
7.00a	<u>6.98</u>	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023		
10.00a	<u>9.92</u>	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024		
SC 1000	<u>1,000</u>	µS/cm	±5%				Ricca	2108D48	Jul-23		
DO (Zero pt)	<u>0.00</u>	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025		
Turbidity (DI)	<u>1.30</u>	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)		

Comments:

Signature: [Signature] Date: 4-28-23

## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Aaron Pemberton</b>			Location: <b>Newton</b>		
Weather: <b>55°-61° Sunny wind N mph</b>			Environment: <b>grass, gravel, air</b>		
Multiparameter Water Meter	Make: <b>AT</b>	Model: <b>600</b>	Serial Number: <b>762193</b>		
Water Level Meter	Make: <b>Heron</b>	Model: <b>Dipper T</b>	Serial Number: <b>11FF2209305ML</b>		

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.07</b>	s.u.	±0.1 s.u.	P	NO	NA	MSI	L344-09	12/14/2023
pH 7.00a	<b>7.06</b>	s.u.	±0.1 s.u.	P			MSI	L343-07	12/9/2023
pH 10.00a	<b>10.02</b>	s.u.	±0.1 s.u.	P			MSI	M082-04	3/25/2024
SC Zero (DI)	<b>26.21</b>	µS/cm	0<25 µS/cm	P			Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>2024.1</b>	µS/cm	±5%	P			Geotech	2GE1442	May-23
ORP	<b>237.1</b>	mV	±15 mV	P			InSitu	2G1762	Jun-23
DO (Zero pt)	<b>0.09</b>	mg/L	±0.1	P			Macron	#000228049	8/26/2025
DO (Saturated)	<b>9.84</b>	%	97-100%	P			Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>1.03</b>	NTU	<2 NTU	P			Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <b>0829</b>		<b>242 @ 15°</b>		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<b>4.04</b>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC243	Mar-24	
pH 7.00b	<b>6.97</b>	s.u.	±0.15 s.u.	P		Geotech	2GC931	Mar-24	
pH 10.00b	<b>9.98</b>	s.u.	±0.15 s.u.	P		Geotech	2GE820	May-24	
SC 1000	<b>0.897A</b>	µS/cm	±5%	P		Ricca	4205H64	May-24	


Approx. every 4 hrs, unless only one well

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

Approx. every 4 hrs, unless only one well

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

Comments:

Signature:		Date:	<b>4/28/2023</b>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>JD</b>			Location: <b>Vista Newton</b>						
Weather: <b>52-70°F p. sunny wind NE 10mph</b>			Environment: <b>grassy</b>						
Multiparameter Water Meter	Make: <b>Aquatrail</b>	Model: <b>600</b>	Serial Number: <b>762215</b>						
Water Level Meter	Make: <b>Heron</b>	Model: <b>D:APP-T</b>	Serial Number: <b>3717-T</b>						
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.07</b>	s.u.	±0.1 s.u.	<b>pass</b>	<b>No</b>	<b>NA</b>	MSI	L344-09	12/14/2023
pH 7.00a	<b>7.05</b>	s.u.	±0.1 s.u.	<b>pass</b>	<b>No</b>	<b>NA</b>	MSI	L343-07	12/9/2023
pH 10.00a	<b>10.02</b>	s.u.	±0.1 s.u.	<b>pass</b>	<b>No</b>	<b>NA</b>	MSI	M082-04	3/25/2024
SC Zero (DI)	<b>17.34</b>	µS/cm	0<25 µS/cm	<b>pass</b>	<b>No</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>1982.7</b>	µS/cm	±5%	<b>pass</b>	<b>No</b>	<b>NA</b>	Geotech	2GE1442	May-23
ORP	<b>250.9</b>	mV	±15 mV	<b>pass</b>	<b>No</b>	<b>NA</b>	InSitu	2G1762	Jun-23
DO (Zero pt)	<b>0.06</b>	mg/L	±0.1	<b>pass</b>	<b>No</b>	<b>NA</b>	Macron	#000228049	8/26/2025
DO (Saturated)	<b>99.48</b>	%	97-100%	<b>pass</b>	<b>No</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>0.00</b>	NTU	<2 NTU	<b>pass</b>	<b>No</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:					
					<b>0845</b>					
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	<b>4.10</b>	s.u.	±0.15 s.u.	<b>pass</b>	<b>NA</b>	Geotech	2GC243	Mar-24		
pH 7.00b	<b>6.89</b>	s.u.	±0.15 s.u.	<b>pass</b>	<b>NA</b>	Geotech	2GC931	Mar-24		
pH 10.00b	<b>9.92</b>	s.u.	±0.15 s.u.	<b>pass</b>	<b>NA</b>	Geotech	2GE820	May-24		
SC 1000	<b>954.22</b>	µS/cm	±5%	<b>pass</b>	<b>NA</b>	Ricca	4205H64	May-24		


Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:					
					<b>1200</b>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a	<b>4.09</b>	s.u.	±0.1 s.u.	<b>pass</b>	<b>No</b>	<b>NA</b>	MSI	L315-04	11/22/2023	
pH 7.00a	<b>7.05</b>	s.u.	±0.1 s.u.	<b>pass</b>	<b>No</b>	<b>NA</b>	MSI	L172-33	6/23/2023	
pH 10.00a	<b>10.03</b>	s.u.	±0.1 s.u.	<b>pass</b>	<b>No</b>	<b>NA</b>	MSI	L354-22	1/5/2024	
SC 1000	<b>769.19</b>	µS/cm	±5%	<b>pass</b>	<b>No</b>	<b>NA</b>	Ricca	2108D48	Jul-23	
DO (Zero pt)	<b>0.07</b>	mg/L	±0.1 mg/L	<b>pass</b>	<b>No</b>	<b>NA</b>	Macron	#000228049	8/26/2025	
Turbidity (DI)	<b>0.00</b>	NTU	<2 NTU	<b>pass</b>	<b>No</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)	

Approx. every 4 hrs, unless only one well

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

Comments:

Signature: 	Date: <b>4/28/23</b>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Joe Reed</b>			Location: <b>Newton Power</b>		
Weather: <b>56-74 part cloudy wind 10mph</b>			Environment: <b>grassy</b>		
Multiparameter Water Meter	Make: <b>Hanna</b>	Model: <b>D-5200</b>	Serial Number: <b>D4U1EVTF</b>		
Water Level Meter	Make: <b>Hanna</b>	Model: <b>Dipnet</b>	Serial Number: <b>RFF 2202 131M2</b>		

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	6.99	s.u.	±0.1 s.u.	I	I		MSI	L343-07	12/9/2023
pH 10.00a	10.00	s.u.	±0.1 s.u.	I	I		MSI	M082-04	3/25/2024
SC Zero (DI)	10	µS/cm	0<25 µS/cm	I	I		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2010	µS/cm	±5%	I	I		Geotech	2GE1442	May-23
ORP	240	mV	±15 mV	I	I		InSitu	2G1762	Jun-23
DO (Zero pt)	0.05	mg/L	±0.1	I	I		Macron	#000228049	8/26/2025
DO (Saturated)	99.3	%	97-100%	I	I		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	I	I		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

### ICV (Initial Calibration Verification)

Time: **830**

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.02	s.u.	±0.15 s.u.	P	N	Geotech	2GC243	Mar-24
pH 7.00b	6.99	s.u.	±0.15 s.u.	I	I	Geotech	2GC931	Mar-24
pH 10.00b	9.99	s.u.	±0.15 s.u.	I	I	Geotech	2GE820	May-24
SC 1000	1010	µS/cm	±5%	I	I	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

### CCV (Continued Calibration Verification):

Time: **1217**

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	±0.1 s.u.	P	N		MSI	L315-04	11/22/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.	I	I		MSI	L172-33	6/23/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.	I	I		MSI	L354-22	1/5/2024
SC 1000	1020	µS/cm	±5%	I	I		Ricca	2108D48	Jul-23
DO (Zero pt)	0.05	mg/L	±0.1 mg/L	I	I		Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	I	I		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

### CCV (Continued Calibration Verification):

Time:

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

Comments:

Signature:	<b>Joseph R Reed</b>	Date:	<b>4/28/23</b>
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**Pace Analytical Services, LLC**  
2231 W. Altorfer Drive  
Peoria, IL 61615  
(800)752-6651

June 08, 2023

Terry Hanratty  
Vistra - Newton  
Newton Energy Center 6725 N. 500th St  
Newton, IL 62448

Dear Terry Hanratty:

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](mailto:lisa.grant@pacelabs.com).

Sincerely,

A handwritten signature in cursive script that reads "Gail Schindler".

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

**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

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Work Order    GD04486

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



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Work Order    GD04770

---

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



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Work Order    GD04853

---

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



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Work Order    GD04926

---

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

**ANALYTICAL RESULTS**

**Sample:** GD04486-01  
**Name:** APW03  
**Matrix:** Ground Water - Grab

**Sampled:** 04/25/23 13:20  
**Received:** 04/26/23 13:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.02	pCi/L			1	0.598	05/19/23 14:32		904.0 903.0

**Sample:** GD04486-02  
**Name:** APW04  
**Matrix:** Ground Water - Grab

**Sampled:** 04/25/23 16:42  
**Received:** 04/26/23 13:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1	pCi/L			1	0.518	05/19/23 14:32		904.0 903.0

**Sample:** GD04486-03  
**Name:** APW16  
**Matrix:** Ground Water - Grab

**Sampled:** 04/25/23 13:26  
**Received:** 04/26/23 13:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	2.05	pCi/L			1	0.472	05/19/23 14:32		904.0 903.0

**Sample:** GD04486-04  
**Name:** APW17  
**Matrix:** Ground Water - Grab

**Sampled:** 04/25/23 16:50  
**Received:** 04/26/23 13:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.42	pCi/L			1	0.493	05/19/23 14:32		904.0 903.0

**ANALYTICAL RESULTS**

**Sample:** GD04486-05  
**Name:** APW18  
**Matrix:** Ground Water - Grab

**Sampled:** 04/25/23 15:03  
**Received:** 04/26/23 13:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.33	pCi/L			1	0.476	05/19/23 14:32		904.0 903.0

**Sample:** GD04486-06  
**Name:** EB-01  
**Matrix:** Ground Water - Grab

**Sampled:** 04/25/23 17:15  
**Received:** 04/26/23 13:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.426 J	pCi/L			1	0.652	05/19/23 14:32		904.0 903.0

**Sample:** GD04770-01  
**Name:** APW05S  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 17:40  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.141 U	pCi/L			1	0.784	05/31/23 08:55		904.0 903.0

**Sample:** GD04770-02  
**Name:** APW06  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 16:00  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.2	pCi/L			1	0.686	05/31/23 08:55		904.0 903.0



**ANALYTICAL RESULTS**

**Sample:** GD04770-03  
**Name:** APW08  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 12:11  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.941	pCi/L			1	0.628	05/31/23 08:55		904.0 903.0

**Sample:** GD04770-04  
**Name:** APW11  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 15:43  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	2.17	pCi/L			1	0.566	05/31/23 08:55		904.0 903.0

**Sample:** GD04770-05  
**Name:** APW12  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 13:56  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.0586 U	pCi/L			1	0.697	05/31/23 08:55		904.0 903.0

**Sample:** GD04770-06  
**Name:** APW15  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 17:23  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.97	pCi/L			1	0.696	05/31/23 08:55		904.0 903.0

**ANALYTICAL RESULTS**

**Sample:** GD04770-07  
**Name:** EB-02  
**Matrix:** Ground Water - Equipment Blank

**Sampled:** 04/26/23 16:30  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.142 U	pCi/L			1	0.528	05/31/23 08:55		904.0 903.0

**Sample:** GD04853-01  
**Name:** APW02  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 12:17  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.768	pCi/L			1	0.551	05/19/23 14:32		904.0 903.0

**Sample:** GD04853-02  
**Name:** APW05  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 12:40  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.841	pCi/L			1	0.471	05/19/23 14:32		904.0 903.0

**Sample:** GD04853-03  
**Name:** APW07  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 10:35  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	2.09	pCi/L			1	0.546	05/19/23 14:32		904.0 903.0

**ANALYTICAL RESULTS**

**Sample:** GD04853-04  
**Name:** APW09  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 14:05  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	2	pCi/L			1	0.449	05/19/23 14:32		904.0 903.0

**Sample:** GD04853-05  
**Name:** APW10  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 15:47  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.316 J	pCi/L			1	0.562	05/19/23 14:32		904.0 903.0

**Sample:** GD04853-06  
**Name:** APW13  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 17:16  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.651	pCi/L			1	0.485	05/19/23 14:32		904.0 903.0

**Sample:** GD04853-07  
**Name:** EB-03  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 14:35  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.418 J	pCi/L			1	0.513	05/19/23 14:32		904.0 903.0

**ANALYTICAL RESULTS**

**Sample:** GD04926-01  
**Name:** APW14  
**Alias:** NEW\_811\_502

**Sampled:** 04/28/23 11:29  
**Received:** 04/28/23 16:12  
**Matrix:** Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.381 J	pCi/L			1	0.465	05/24/23 00:32		904.0 903.0

**Sample:** GD04926-02  
**Name:** APW14 DUP  
**Alias:** NEW\_811\_502

**Sampled:** 04/28/23 11:29  
**Received:** 04/28/23 16:12  
**Matrix:** Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.71	pCi/L			1	0.584	05/31/23 08:55		904.0 903.0



### QC SAMPLE RESULTS

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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: Gail Schindler, Project Manager



# ANALYTICAL REPORT

June 01, 2023

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

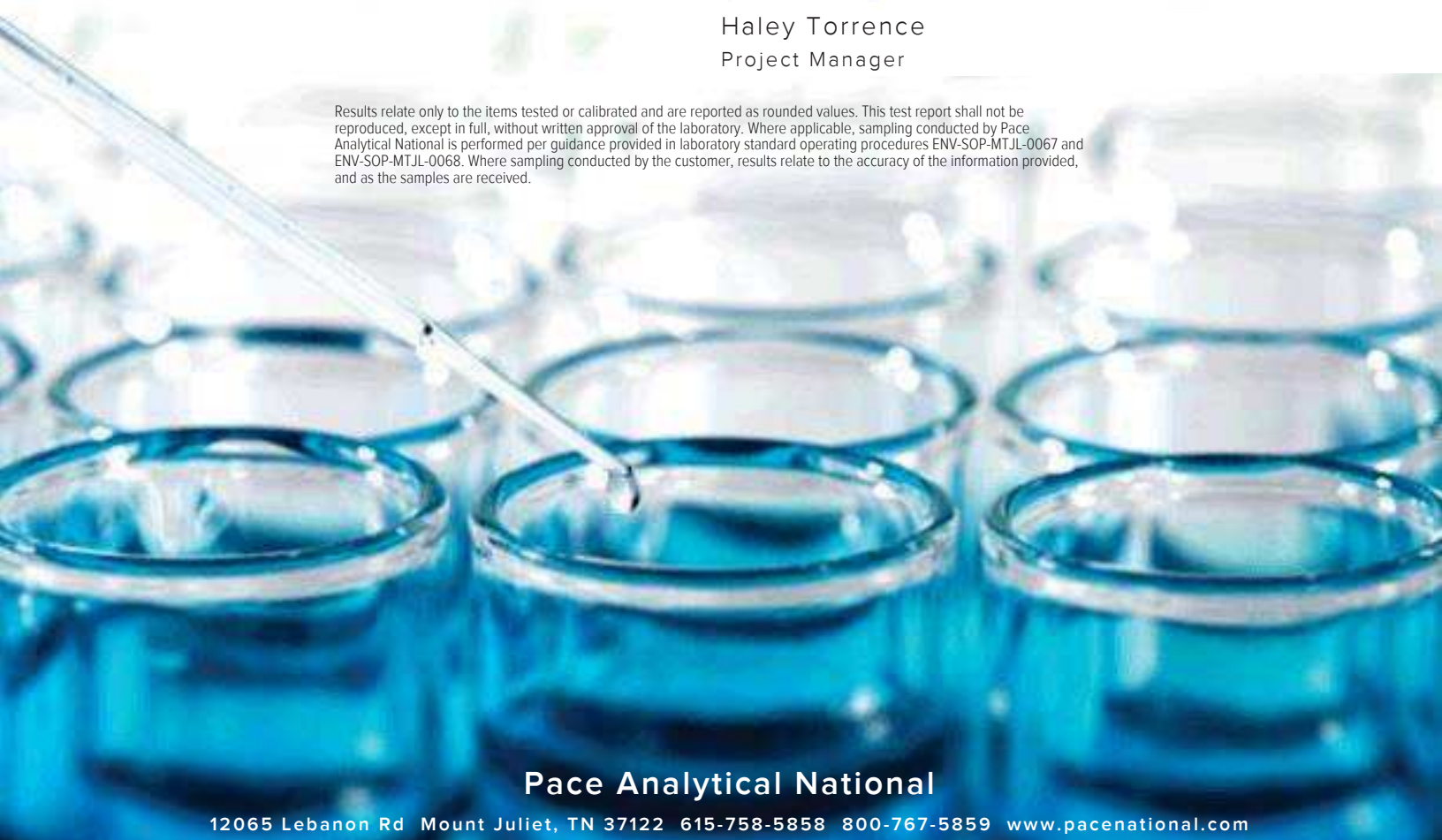
## Pace IR - Peoria, IL

Sample Delivery Group: L1611854  
Samples Received: 05/03/2023  
Project Number: GD04486  
Description: Vistra-Newton  
Site: 001  
Report To: Gail Schindler  
2231 W. Altorfer Drive  
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence  
Project Manager

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



**Pace Analytical National**

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

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Collected by  
 Collected date/time  
 Received date/time

APW03 L1611854-01 Non-Potable Water

04/25/23 13:20  
 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	RRE	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RRE	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

Collected by  
 Collected date/time  
 Received date/time

APW04 L1611854-02 Non-Potable Water

04/25/23 16:42  
 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

Collected by  
 Collected date/time  
 Received date/time

APW16 L1611854-03 Non-Potable Water

04/25/23 13:26  
 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

7 Gl

8 Al

9 Sc

Collected by  
 Collected date/time  
 Received date/time

APW17 L1611854-04 Non-Potable Water

04/25/23 16:50  
 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

APW18 L1611854-05 Non-Potable Water

04/25/23 15:03  
 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

EB-01 L1611854-06 Non-Potable Water

04/25/23 17:15  
 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	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.



Haley Torrence  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.267	J	0.241	0.432	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Barium	109			30.0-143	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Yttrium	90.0			30.0-136	05/19/2023 14:32	<a href="#">WG2061003</a>

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

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.02		0.551	0.598	05/19/2023 14:32	<a href="#">WG2058951</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.754		0.496	0.414	05/18/2023 18:05	<a href="#">WG2058951</a>
(T) Barium-133	39.3			30.0-143	05/18/2023 18:05	<a href="#">WG2058951</a>

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.543		0.253	0.444	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Barium	109			30.0-143	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Yttrium	112			30.0-136	05/19/2023 14:32	<a href="#">WG2061003</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.00		0.379	0.518	05/19/2023 14:32	<a href="#">WG2058951</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.462		0.282	0.266	05/18/2023 18:05	<a href="#">WG2058951</a>
(T) Barium-133	95.1			30.0-143	05/18/2023 18:05	<a href="#">WG2058951</a>

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.28		0.264	0.442	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Barium	118			30.0-143	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Yttrium	105			30.0-136	05/19/2023 14:32	<a href="#">WG2061003</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.05		0.408	0.472	05/19/2023 14:32	<a href="#">WG2058951</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.774		0.311	0.166	05/18/2023 18:05	<a href="#">WG2058951</a>
(T) Barium-133	91.0			30.0-143	05/18/2023 18:05	<a href="#">WG2058951</a>

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

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.696		0.244	0.423	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Barium	110			30.0-143	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Yttrium	100			30.0-136	05/19/2023 14:32	<a href="#">WG2061003</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.42		0.417	0.493	05/19/2023 14:32	<a href="#">WG2058951</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.725		0.338	0.254	05/18/2023 18:05	<a href="#">WG2058951</a>
(T) Barium-133	87.1			30.0-143	05/18/2023 18:05	<a href="#">WG2058951</a>

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

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.515		0.238	0.417	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Barium	108			30.0-143	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Yttrium	94.8			30.0-136	05/19/2023 14:32	<a href="#">WG2061003</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.33		0.413	0.476	05/19/2023 14:32	<a href="#">WG2058951</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.819		0.338	0.230	05/18/2023 18:05	<a href="#">WG2058951</a>
(T) Barium-133	118			30.0-143	05/18/2023 18:05	<a href="#">WG2058951</a>

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

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.653	<u>U</u>	0.262	0.500	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Barium	105			30.0-143	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Yttrium	114			30.0-136	05/19/2023 14:32	<a href="#">WG2061003</a>

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

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.426	<u>J</u>	0.434	0.652	05/19/2023 14:32	<a href="#">WG2058951</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.426		0.346	0.419	05/18/2023 18:05	<a href="#">WG2058951</a>
(T) Barium-133	89.5			30.0-143	05/18/2023 18:05	<a href="#">WG2058951</a>



# QUALITY CONTROL SUMMARY

[L1611854-01,02,03,04,05,06](#)

## Method Blank (MB)

(MB) R3929806-1 05/19/23 14:32

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-228	-0.357	<u>U</u>	0.173	0.324
(T) Barium	108		108	
(T) Yttrium	101		101	

## L1611854-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1611854-01 05/19/23 14:32 • (DUP) R3929806-5 05/19/23 14:32

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-228	0.267	0.241	0.432	-0.527	0.396	0.432	1	200	1.71	<u>U</u>	20	3
(T) Barium	109			114	114							
(T) Yttrium	90.0			116	116							

## Laboratory Control Sample (LCS)

(LCS) R3929806-2 05/19/23 14:32

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-228	5.00	4.97	99.4	80.0-120	
(T) Barium			116		
(T) Yttrium			112		

## L1606733-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1606733-01 05/19/23 14:32 • (MS) R3929806-3 05/19/23 14:32 • (MSD) R3929806-4 05/19/23 14:32

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-228	10.0	0.855	10.4	10.0	95.1	91.7	1	70.0-130			3.34		20
(T) Barium		121			120	116							
(T) Yttrium		108			111	98.4							

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3927911-5 05/18/23 18:22

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	-0.0127	<u>U</u>	0.0290	0.0632
(T) Barium-133	74.5		74.5	

L1611860-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1611860-01 05/18/23 18:05 • (DUP) R3927911-4 05/18/23 18:05

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-226	0.688	0.371	0.320	0.0912	0.205	0.320	1	153	1.41	<u>U</u>	20	3
(T) Barium-133	85.0			87.1	87.1							

Laboratory Control Sample (LCS)

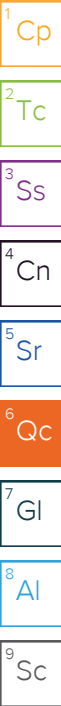
(LCS) R3927911-1 05/18/23 18:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	5.13	102	80.0-120	
(T) Barium-133			77.2		

L1611860-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1611860-07 05/18/23 18:05 • (MS) R3927911-2 05/18/23 18:05 • (MSD) R3927911-3 05/18/23 18:05

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.0721	19.7	19.7	98.2	97.9	1	75.0-125			0.305		20
(T) Barium-133		79.2			84.7	72.7							



Guide to Reading and Understanding Your Laboratory Report

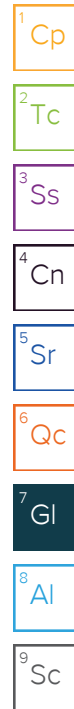
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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 &amp; 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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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 <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.

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



A133

Internal Transfer Chain of Custody

State of Origin: IL  
 Cert. Needed:  YES  NO



GD04486 Workorder Name: VISTRA - NEWTON Owner Received Date: 4/26/2023 Results Required By: 5/15/2023

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

Subcontract To: Pace Analytical - Mt Juliet  
 12065 Lebanon Rd  
 Mt Juliet TN 37122

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers				Radium 226	Radium 228	LAB USE ONLY
1	APW03	GRAB	4/25/2023 13:20	GD04486-01	GW					X	X	Uld/854 -01
2	APW04	GRAB	4/25/2023 16:42	GD04486-02	GW					X	X	-02
3	APW16	GRAB	4/25/2023 13:26	GD04486-03	GW					X	X	-03
4	APW17	GRAB	4/25/2023 16:50	GD04486-04	GW					X	X	-04
5	APW18	GRAB	4/25/2023 15:03	GD04486-05	GW					X	X	-05
6	EB-01	GRAB	4/25/2023 17:15	GD04486-06	DI					X	X	-06

Transfers	Date/Time	Received By	Date/Time	Comments
1	3/14/2023 14:31	Camden Bennett	5-2-23 14:42	Needs 226, 228 and combined Include QC summary and add 10 day TAT
2		Handy Polubna	5/3/23 09:00	
3				

Cooler Temperature on Receipt \_\_\_\_\_ °C Custody Seal Y or N Received on Ice Y or N Sample Intact Y or N

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.  
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

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Sample Receipt Checklist

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

17.7 ± 0.17.7 NS ALG  
 63195997 8519





Ship to :  
 Pace Analytical Services, LLC

12065 Lebanon Rd  
 Mt Juliet TN 37122  
 (615)758-5858

INTER LABORATORY WORK ORDER # GDO04486  
 (To be complete by sending lab)

Sending Project No:	GDO04486
Receiving Project No:	
Check Box for Consolidated Invoice:	<input type="checkbox"/>
Date Prepared:	5/2/2023
REQUESTED COMPLETION DATE:	5/15/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	VISTRA - NEWTON
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

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

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226		6		6	\$100.00	\$600.00
Radium 228		6		6	\$100.00	\$600.00
		1		1		\$0.00
<b>TOTAL</b>						<b>\$1,200.00</b>

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary & edd

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	Client Services Dept.
radiological	38	\$1,200.00	\$960.00	\$240.00
		<b>TOTAL</b>	<b>\$960.00</b>	<b>\$240.00</b>

\* Custom Revenue Allocation

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region:  Yes  No

CONFIRMATION OF WORK COMPLETED

Date Completed: \_\_\_\_\_ Receiving Project Manager: \_\_\_\_\_

Original sent to the receiving lab - Copy kept at the sending lab.  
 When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to incorporate as needed.



# ANALYTICAL REPORT

June 06, 2023

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

## Pace IR - Peoria, IL

Sample Delivery Group: L1611866  
Samples Received: 05/03/2023  
Project Number: GD04770  
Description: Vistra-Newton  
Site: 001  
Report To: Gail Schindler  
2231 W. Altorfer Drive  
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence  
Project Manager

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

**Pace Analytical National**

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

146 of 206

ACCOUNT:  
Pace IR - Peoria, IL

PROJECT:  
GD04770

SDG:  
L1611866

DATE/TIME:  
06/06/23 11:08

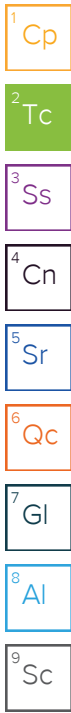
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<b>Sr: Sample Results</b>	<b>6</b>
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<b>APW06 L1611866-02</b>	<b>7</b>
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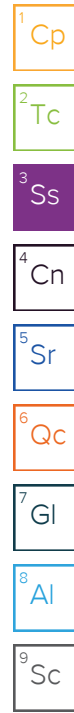


APW05S L1611866-01 Non-Potable Water

Collected by  
 Collected date/time  
 Received date/time

04/26/23 17:40 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058953	1	05/22/23 11:11	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058953	1	05/22/23 11:11	05/24/23 13:18	RGT	Mt. Juliet, TN



APW06 L1611866-02 Non-Potable Water

Collected by  
 Collected date/time  
 Received date/time

04/26/23 16:00 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058953	1	05/22/23 11:11	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058953	1	05/22/23 11:11	05/24/23 13:18	RRE	Mt. Juliet, TN

APW08 L1611866-03 Non-Potable Water

Collected by  
 Collected date/time  
 Received date/time

04/26/23 12:11 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058953	1	05/22/23 11:11	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058953	1	05/22/23 11:11	05/24/23 13:18	RGT	Mt. Juliet, TN

APW11 L1611866-04 Non-Potable Water

Collected by  
 Collected date/time  
 Received date/time

04/26/23 15:43 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058953	1	05/22/23 11:11	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058953	1	05/22/23 11:11	05/24/23 13:18	RGT	Mt. Juliet, TN

APW12 L1611866-05 Non-Potable Water

Collected by  
 Collected date/time  
 Received date/time

04/26/23 13:56 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058953	1	05/22/23 11:11	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058953	1	05/22/23 11:11	05/24/23 13:18	RGT	Mt. Juliet, TN

APW15 L1611866-06 Non-Potable Water

Collected by  
 Collected date/time  
 Received date/time

04/26/23 17:23 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058953	1	05/22/23 11:11	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058953	1	05/22/23 11:11	05/24/23 13:18	RGT	Mt. Juliet, TN

# SAMPLE SUMMARY

Collected by  
 Collected date/time  
 Received date/time

EB-02 L1611866-07 Non-Potable Water

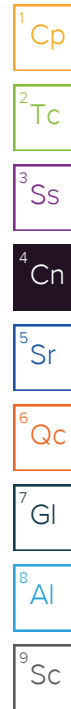
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058953	1	05/22/23 11:11	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058953	1	05/22/23 11:11	05/24/23 13:18	RGT	Mt. Juliet, TN

- <sup>1</sup>Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Sr
- <sup>6</sup>Qc
- <sup>7</sup>Gl
- <sup>8</sup>Al
- <sup>9</sup>Sc

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.



Haley Torrence  
Project Manager



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-1.07	<u>U</u>	0.400	0.755	05/31/2023 08:55	<a href="#">WG2061735</a>
(T) Barium	80.2			30.0-143	05/31/2023 08:55	<a href="#">WG2061735</a>
(T) Yttrium	88.7			30.0-136	05/31/2023 08:55	<a href="#">WG2061735</a>

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

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.141	<u>U</u>	0.430	0.784	05/31/2023 08:55	<a href="#">WG2058953</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.141	<u>J</u>	0.159	0.210	05/24/2023 13:18	<a href="#">WG2058953</a>
(T) Barium-133	101			30.0-143	05/24/2023 13:18	<a href="#">WG2058953</a>

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.574	J	0.336	0.595	05/31/2023 08:55	<a href="#">WG2061735</a>
(T) Barium	78.6			30.0-143	05/31/2023 08:55	<a href="#">WG2061735</a>
(T) Yttrium	127			30.0-136	05/31/2023 08:55	<a href="#">WG2061735</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.20		0.487	0.686	05/31/2023 08:55	<a href="#">WG2058953</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.621		0.353	0.342	05/24/2023 13:18	<a href="#">WG2058953</a>
(T) Barium-133	96.0			30.0-143	05/24/2023 13:18	<a href="#">WG2058953</a>

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

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.337	J	0.293	0.524	05/31/2023 08:55	<a href="#">WG2061735</a>
(T) Barium	93.7			30.0-143	05/31/2023 08:55	<a href="#">WG2061735</a>
(T) Yttrium	88.5			30.0-136	05/31/2023 08:55	<a href="#">WG2061735</a>

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

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.941		0.456	0.628	05/31/2023 08:55	<a href="#">WG2058953</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.604		0.349	0.346	05/24/2023 13:18	<a href="#">WG2058953</a>
(T) Barium-133	84.4			30.0-143	05/24/2023 13:18	<a href="#">WG2058953</a>

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.64		0.303	0.496	05/31/2023 08:55	<a href="#">WG2061735</a>
(T) Barium	78.2			30.0-143	05/31/2023 08:55	<a href="#">WG2061735</a>
(T) Yttrium	95.5			30.0-136	05/31/2023 08:55	<a href="#">WG2061735</a>

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

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.17		0.424	0.566	05/31/2023 08:55	<a href="#">WG2058953</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.530		0.296	0.273	05/24/2023 13:18	<a href="#">WG2058953</a>
(T) Barium-133	101			30.0-143	05/24/2023 13:18	<a href="#">WG2058953</a>

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-1.05	<u>U</u>	0.345	0.659	05/31/2023 08:55	<a href="#">WG2061735</a>
(T) Barium	85.3			30.0-143	05/31/2023 08:55	<a href="#">WG2061735</a>
(T) Yttrium	127			30.0-136	05/31/2023 08:55	<a href="#">WG2061735</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0586	<u>U</u>	0.369	0.697	05/31/2023 08:55	<a href="#">WG2058953</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0586	<u>U</u>	0.131	0.226	05/24/2023 13:18	<a href="#">WG2058953</a>
(T) Barium-133	97.0			30.0-143	05/24/2023 13:18	<a href="#">WG2058953</a>

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



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.38		0.390	0.665	05/31/2023 08:55	<a href="#">WG2061735</a>
(T) Barium	78.6			30.0-143	05/31/2023 08:55	<a href="#">WG2061735</a>
(T) Yttrium	83.7			30.0-136	05/31/2023 08:55	<a href="#">WG2061735</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.97		0.488	0.696	05/31/2023 08:55	<a href="#">WG2058953</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.586		0.294	0.207	05/24/2023 13:18	<a href="#">WG2058953</a>
(T) Barium-133	98.0			30.0-143	05/24/2023 13:18	<a href="#">WG2058953</a>

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

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.0858	<u>U</u>	0.272	0.502	05/31/2023 08:55	<a href="#">WG2061735</a>
(T) Barium	82.0			30.0-143	05/31/2023 08:55	<a href="#">WG2061735</a>
(T) Yttrium	139	<u>C1</u>		30.0-136	05/31/2023 08:55	<a href="#">WG2061735</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.142	<u>U</u>	0.306	0.528	05/31/2023 08:55	<a href="#">WG2058953</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.142	<u>J</u>	0.140	0.163	05/24/2023 13:18	<a href="#">WG2058953</a>
(T) Barium-133	100			30.0-143	05/24/2023 13:18	<a href="#">WG2058953</a>

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

# QUALITY CONTROL SUMMARY

[L1611866-01,02,03,04,05,06,07](#)

## Method Blank (MB)

(MB) R3932968-2 05/31/23 08:55

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.510		0.175	0.303
<i>(T) Barium</i>	80.6		80.6	
<i>(T) Yttrium</i>	117		117	

## L1611866-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1611866-05 05/31/23 08:55 • (DUP) R3932968-5 05/31/23 08:55

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	-1.05	0.345	0.659	-1.23	0.448	0.659	1	0.000	0.313	<u>U</u>	20	3
<i>(T) Barium</i>	85.3			81.0	81.0							
<i>(T) Yttrium</i>	127			143	143					<u>C1</u>		

## Laboratory Control Sample (LCS)

(LCS) R3932968-1 05/26/23 09:50

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.89	118	80.0-120	
<i>(T) Barium</i>			94.2		
<i>(T) Yttrium</i>			74.8		

## L1607413-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1607413-01 05/31/23 08:55 • (MS) R3932968-3 05/31/23 08:55 • (MSD) R3932968-4 05/31/23 08:55

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	4.03	11.0	11.8	69.2	77.2	1	70.0-130	<u>J6</u>		7.05		20
<i>(T) Barium</i>		80.5			88.9	84.4							
<i>(T) Yttrium</i>		87.6			117	116							

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

# QUALITY CONTROL SUMMARY

[L1611866-01,02,03,04,05,06,07](#)

## Method Blank (MB)

(MB) R3929001-1 05/24/23 00:32

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	-0.0131	<u>U</u>	0.0300	0.0654
(T) Barium-133	72.0		72.0	

## L1611866-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1611866-07 05/24/23 13:18 • (DUP) R3929001-5 05/24/23 13:18

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-226	0.142	0.140	0.163	0.130	0.254	0.163	1	8.91	0.0417	<u>U</u>	20	3
(T) Barium-133	100			83.2	83.2							

## Laboratory Control Sample (LCS)

(LCS) R3929001-2 05/24/23 13:18

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	5.10	102	80.0-120	
(T) Barium-133			94.0		

## L1611864-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1611864-01 05/24/23 00:32 • (MS) R3929001-3 05/24/23 13:18 • (MSD) R3929001-4 05/24/23 13:18

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.153	19.5	18.2	96.6	90.2	1	75.0-125			6.74		20
(T) Barium-133		99.5			97.5	94.4							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gf

8 Al

9 Sc

Guide to Reading and Understanding Your Laboratory Report

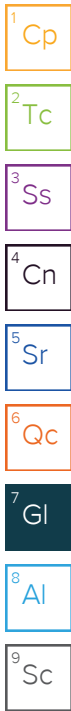
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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
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.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
U	Below Detectable Limits: Indicates that the analyte was not detected.



# ACCREDITATIONS & LOCATIONS

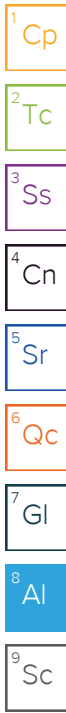
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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 <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.











Ship to :  
 Pace Analytical Services, LLC

12065 Lebbnon Rd

Mt Juliet TN 37122

(615)758-5858

INTER LABORATORY WORK ORDER # GDO04770  
 (To be complete by sending lab)

Sending Project No: GDO04770

Receiving Project No:

Check Box for Consolidated Invoice:

Date Prepared: 5/2/2023

REQUESTED COMPLETION DATE: 5/15/2023

*Handwritten signature/initials*

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	VISTRA - NEWTON
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

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

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226		7		7	\$100.00	\$700.00
Radium 228		7		7	\$100.00	\$700.00
		1		1		\$0.00
<b>TOTAL</b>						<b>\$1,400.00</b>

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary & edd

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	Client Services Dept.
Radiological	38	\$1,400.00	\$1,120.00	\$280.00
* Custom Revenue Allocation		TOTAL	\$1,120.00	\$280.00

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region:  Yes  No

CONFIRMATION OF WORK COMPLETED

Date Completed: \_\_\_\_\_ Receiving Project Manager: \_\_\_\_\_

Original sent to the receiving lab - Copy kept at the sending lab.  
 When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.





# ANALYTICAL REPORT

May 26, 2023

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

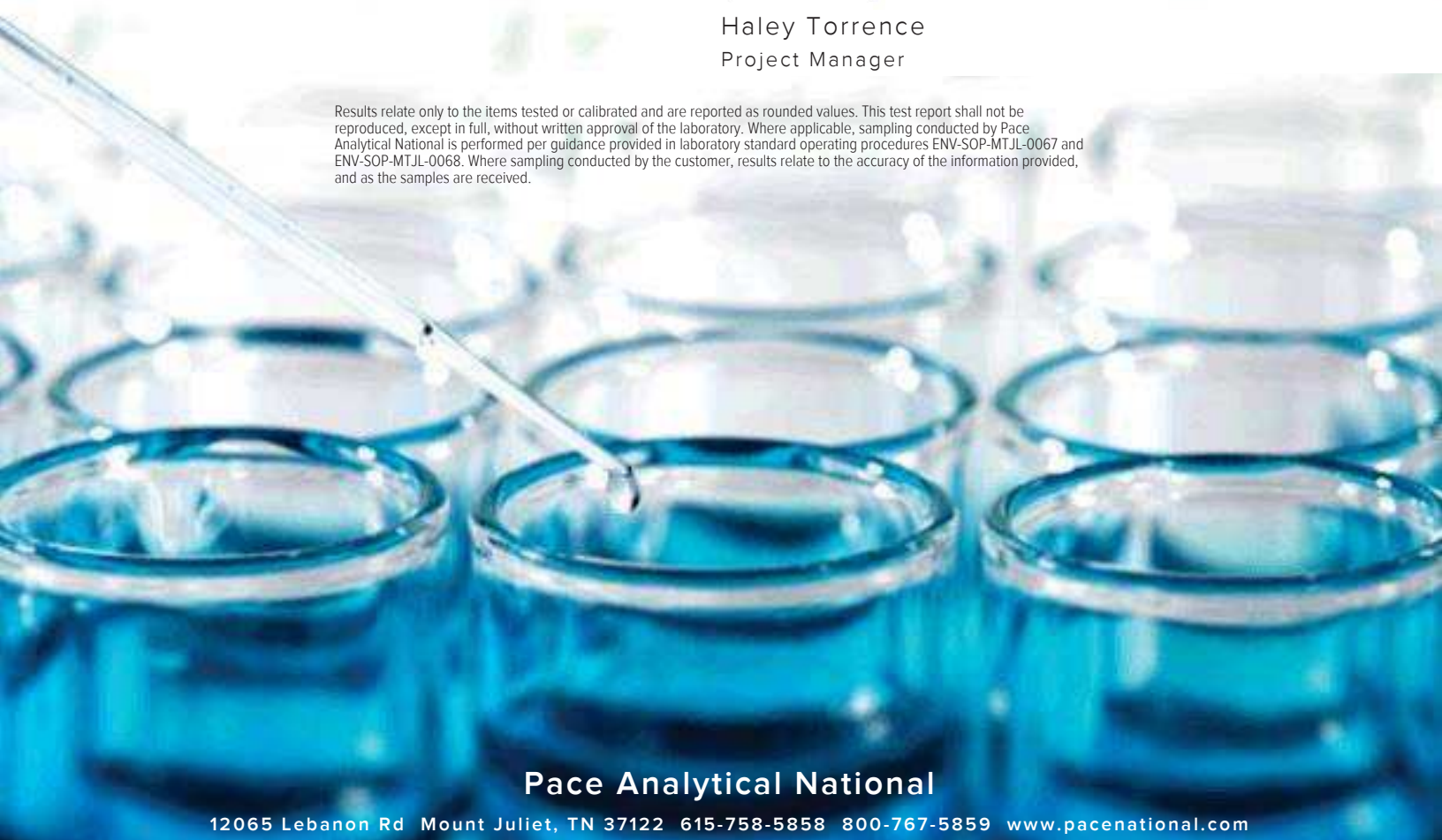
## Pace IR - Peoria, IL

Sample Delivery Group: L1611860  
Samples Received: 05/03/2023  
Project Number: GD04853  
Description: Vistra-Newton  
Site: 001  
Report To: Gail Schindler  
2231 W. Altorfer Drive  
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence  
Project Manager

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



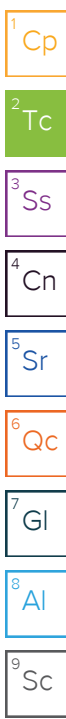
**Pace Analytical National**

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

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APW02 L1611860-01 Non-Potable Water

Collected by  
 Collected date/time  
 Received date/time

04/27/23 12:17  
 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

APW05 L1611860-02 Non-Potable Water

Collected by  
 Collected date/time  
 Received date/time

04/27/23 12:40  
 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

APW07 L1611860-03 Non-Potable Water

Collected by  
 Collected date/time  
 Received date/time

04/27/23 10:35  
 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

APW09 L1611860-04 Non-Potable Water

Collected by  
 Collected date/time  
 Received date/time

04/27/23 14:05  
 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

APW10 L1611860-05 Non-Potable Water

Collected by  
 Collected date/time  
 Received date/time

04/27/23 15:47  
 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

APW13 L1611860-06 Non-Potable Water

Collected by  
 Collected date/time  
 Received date/time

04/27/23 17:16  
 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

# SAMPLE SUMMARY

Collected by  
 Collected date/time  
 Received date/time

EB-03 L1611860-07 Non-Potable Water

04/27/23 14:35  
 05/03/23 09:00

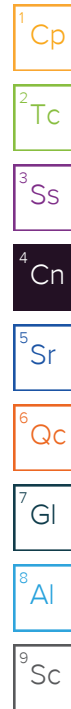
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

- <sup>1</sup>Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Sr
- <sup>6</sup>Qc
- <sup>7</sup>Gl
- <sup>8</sup>Al
- <sup>9</sup>Sc

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.



Haley Torrence  
Project Manager



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.0802	<u>U</u>	0.245	0.448	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Barium	106			30.0-143	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Yttrium	127			30.0-136	05/19/2023 14:32	<a href="#">WG2061003</a>

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

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.768		0.445	0.551	05/19/2023 14:32	<a href="#">WG2058951</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.688		0.371	0.320	05/18/2023 18:05	<a href="#">WG2058951</a>
(T) Barium-133	85.0			30.0-143	05/18/2023 18:05	<a href="#">WG2058951</a>

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.606		0.211	0.365	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Barium	118			30.0-143	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Yttrium	114			30.0-136	05/19/2023 14:32	<a href="#">WG2061003</a>

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

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.841		0.314	0.471	05/19/2023 14:32	<a href="#">WG2058951</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.236	J	0.233	0.298	05/18/2023 18:05	<a href="#">WG2058951</a>
(T) Barium-133	99.0			30.0-143	05/18/2023 18:05	<a href="#">WG2058951</a>



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.07		0.274	0.467	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Barium	110			30.0-143	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Yttrium	109			30.0-136	05/19/2023 14:32	<a href="#">WG2061003</a>

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

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.09		0.488	0.546	05/19/2023 14:32	<a href="#">WG2058951</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.02		0.404	0.282	05/18/2023 18:05	<a href="#">WG2058951</a>
(T) Barium-133	91.3			30.0-143	05/18/2023 18:05	<a href="#">WG2058951</a>

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.920		0.237	0.402	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Barium	125			30.0-143	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Yttrium	119			30.0-136	05/19/2023 14:32	<a href="#">WG2061003</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.00		0.465	0.449	05/19/2023 14:32	<a href="#">WG2058951</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.08		0.400	0.199	05/18/2023 18:05	<a href="#">WG2058951</a>
(T) Barium-133	96.8			30.0-143	05/18/2023 18:05	<a href="#">WG2058951</a>

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

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.384	<u>U</u>	0.250	0.469	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Barium	108			30.0-143	05/19/2023 14:32	<a href="#">WG2061003</a>
(T) Yttrium	107			30.0-136	05/19/2023 14:32	<a href="#">WG2061003</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.316	<u>J</u>	0.360	0.562	05/19/2023 14:32	<a href="#">WG2058951</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.316		0.259	0.310	05/18/2023 18:05	<a href="#">WG2058951</a>
(T) Barium-133	92.1			30.0-143	05/18/2023 18:05	<a href="#">WG2058951</a>

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.413	J	0.242	0.430	05/19/2023 14:32	WG2061003
(T) Barium	95.4			30.0-143	05/19/2023 14:32	WG2061003
(T) Yttrium	111			30.0-136	05/19/2023 14:32	WG2061003

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.651		0.314	0.485	05/19/2023 14:32	WG2058951

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.238		0.200	0.225	05/18/2023 18:05	WG2058951
(T) Barium-133	83.9			30.0-143	05/18/2023 18:05	WG2058951

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

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.346	J	0.218	0.389	05/19/2023 14:32	WG2061003
(T) Barium	116			30.0-143	05/19/2023 14:32	WG2061003
(T) Yttrium	113			30.0-136	05/19/2023 14:32	WG2061003

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.418	J	0.292	0.513	05/19/2023 14:32	WG2058951

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0721	U	0.195	0.334	05/18/2023 18:05	WG2058951
(T) Barium-133	79.2			30.0-143	05/18/2023 18:05	WG2058951

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

# QUALITY CONTROL SUMMARY

[L1611860-01,02,03,04,05,06,07](#)

## Method Blank (MB)

(MB) R3929806-1 05/19/23 14:32

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-228	-0.357	<u>U</u>	0.173	0.324
(T) Barium	108		108	
(T) Yttrium	101		101	

## L1611854-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1611854-01 05/19/23 14:32 • (DUP) R3929806-5 05/19/23 14:32

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-228	0.267	0.241	0.432	-0.527	0.396	0.432	1	200	1.71	<u>U</u>	20	3
(T) Barium	109			114	114							
(T) Yttrium	90.0			116	116							

## Laboratory Control Sample (LCS)

(LCS) R3929806-2 05/19/23 14:32

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-228	5.00	4.97	99.4	80.0-120	
(T) Barium			116		
(T) Yttrium			112		

## L1606733-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1606733-01 05/19/23 14:32 • (MS) R3929806-3 05/19/23 14:32 • (MSD) R3929806-4 05/19/23 14:32

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-228	10.0	0.855	10.4	10.0	95.1	91.7	1	70.0-130			3.34		20
(T) Barium		121			120	116							
(T) Yttrium		108			111	98.4							

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3927911-5 05/18/23 18:22

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	-0.0127	<u>U</u>	0.0290	0.0632
(T) Barium-133	74.5		74.5	

L1611860-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1611860-01 05/18/23 18:05 • (DUP) R3927911-4 05/18/23 18:05

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-226	0.688	0.371	0.320	0.0912	0.205	0.320	1	153	1.41	<u>U</u>	20	3
(T) Barium-133	85.0			87.1	87.1							

Laboratory Control Sample (LCS)

(LCS) R3927911-1 05/18/23 18:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	5.13	102	80.0-120	
(T) Barium-133			77.2		

L1611860-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1611860-07 05/18/23 18:05 • (MS) R3927911-2 05/18/23 18:05 • (MSD) R3927911-3 05/18/23 18:05

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.0721	19.7	19.7	98.2	97.9	1	75.0-125			0.305		20
(T) Barium-133		79.2			84.7	72.7							

- 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.

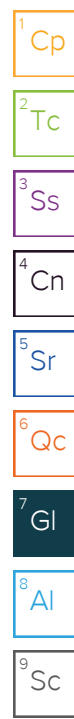
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. 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 &amp; 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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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 <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.

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





416/1860



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

(615)758-5858

INTER\_LABORATORY WORK ORDER # GD4853

(To be complete by sending lab)

Sending Project No:	GD4853
Receiving Project No:	
Check Box for Consolidated Invoice:	<input type="checkbox"/>
Date Prepared:	5/2/2023
REQUESTED COMPLETION DATE:	5/15/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	VISTRA - NEWTON
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

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

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226		7		7	\$100.00	\$700.00
Radium 228		7		7	\$100.00	\$700.00
		1		1		\$0.00
<b>TOTAL</b>						\$1,400.00

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary & edd

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$1,400.00	\$1,120.00	\$280.00
		TOTAL	\$1,120.00	\$280.00

\* Custom Revenue Allocation

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region:  Yes  No

CONFIRMATION OF WORK COMPLETED

Date Completed: \_\_\_\_\_ Receiving Project Manager: \_\_\_\_\_

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

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



# ANALYTICAL REPORT

June 06, 2023

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

## Pace IR - Peoria, IL

Sample Delivery Group: L1611864  
Samples Received: 05/03/2023  
Project Number: GD04926  
Description: Vistra-Newton  
Site: 001  
Report To: Gail Schindler  
2231 W. Altorfer Drive  
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence  
Project Manager

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

**Pace Analytical National**

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

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<b>Al: Accreditations &amp; Locations</b>	<b>11</b>	<b><sup>8</sup>Al</b>
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# SAMPLE SUMMARY

## APW14 L1611864-01 Non-Potable Water

Collected by  
 Collected date/time 04/28/23 11:29  
 Received date/time 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058953	1	05/22/23 11:11	05/24/23 00:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058953	1	05/22/23 11:11	05/24/23 00:32	RGT	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

## APW14 DUP L1611864-02 Non-Potable Water

Collected by  
 Collected date/time 04/28/23 11:29  
 Received date/time 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058953	1	05/22/23 11:11	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058953	1	05/22/23 11:11	05/24/23 00:32	RGT	Mt. Juliet, TN

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

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.



Haley Torrence  
Project Manager

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

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.228	J	0.217	0.391	05/19/2023 14:32	WG2061003
(T) Barium	109			30.0-143	05/19/2023 14:32	WG2061003
(T) Yttrium	108			30.0-136	05/19/2023 14:32	WG2061003

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.381	J	0.285	0.465	05/24/2023 00:32	WG2058953

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.153	J	0.184	0.252	05/24/2023 00:32	WG2058953
(T) Barium-133	99.5			30.0-143	05/24/2023 00:32	WG2058953

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



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.28		0.291	0.489	05/31/2023 08:55	<a href="#">WG2061735</a>
(T) Barium	77.9			30.0-143	05/31/2023 08:55	<a href="#">WG2061735</a>
(T) Yttrium	123			30.0-136	05/31/2023 08:55	<a href="#">WG2061735</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.71		0.417	0.584	05/31/2023 08:55	<a href="#">WG2058953</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.433		0.299	0.319	05/24/2023 00:32	<a href="#">WG2058953</a>
(T) Barium-133	96.7			30.0-143	05/24/2023 00:32	<a href="#">WG2058953</a>

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

# QUALITY CONTROL SUMMARY

L1611864-01

## Method Blank (MB)

(MB) R3929806-1 05/19/23 14:32

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-228	-0.357	<u>U</u>	0.173	0.324
(T) Barium	108		108	
(T) Yttrium	101		101	

## L1611854-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1611854-01 05/19/23 14:32 • (DUP) R3929806-5 05/19/23 14:32

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-228	0.267	0.241	0.432	-0.527	0.396	0.432	1	200	1.71	<u>U</u>	20	3
(T) Barium	109			114	114							
(T) Yttrium	90.0			116	116							

## Laboratory Control Sample (LCS)

(LCS) R3929806-2 05/19/23 14:32

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-228	5.00	4.97	99.4	80.0-120	
(T) Barium			116		
(T) Yttrium			112		

## L1606733-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1606733-01 05/19/23 14:32 • (MS) R3929806-3 05/19/23 14:32 • (MSD) R3929806-4 05/19/23 14:32

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-228	10.0	0.855	10.4	10.0	95.1	91.7	1	70.0-130			3.34		20
(T) Barium		121			120	116							
(T) Yttrium		108			111	98.4							

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

[L1611864-02](#)

Method Blank (MB)

(MB) R3932968-2 05/31/23 08:55

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.510		0.175	0.303
(T) Barium	80.6		80.6	
(T) Yttrium	117		117	

L1611866-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1611866-05 05/31/23 08:55 • (DUP) R3932968-5 05/31/23 08:55

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	-1.05	0.345	0.659	-1.23	0.448	0.659	1	0.000	0.313	<u>U</u>	20	3
(T) Barium	85.3			81.0	81.0							
(T) Yttrium	127			143	143					<u>C1</u>		

Laboratory Control Sample (LCS)

(LCS) R3932968-1 05/26/23 09:50

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.89	118	80.0-120	
(T) Barium			94.2		
(T) Yttrium			74.8		

L1607413-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1607413-01 05/31/23 08:55 • (MS) R3932968-3 05/31/23 08:55 • (MSD) R3932968-4 05/31/23 08:55

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	4.03	11.0	11.8	69.2	77.2	1	70.0-130	<u>J6</u>		7.05		20
(T) Barium		80.5			88.9	84.4							
(T) Yttrium		87.6			117	116							

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

Method Blank (MB)

(MB) R3929001-1 05/24/23 00:32

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	-0.0131	<u>U</u>	0.0300	0.0654
(T) Barium-133	72.0		72.0	

L1611866-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1611866-07 05/24/23 13:18 • (DUP) R3929001-5 05/24/23 13:18

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-226	0.142	0.140	0.163	0.130	0.254	0.163	1	8.91	0.0417	<u>U</u>	20	3
(T) Barium-133	100			83.2	83.2							

Laboratory Control Sample (LCS)

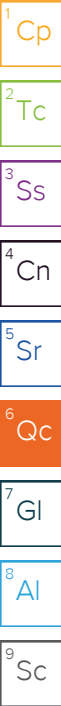
(LCS) R3929001-2 05/24/23 13:18

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	5.10	102	80.0-120	
(T) Barium-133			94.0		

L1611864-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1611864-01 05/24/23 00:32 • (MS) R3929001-3 05/24/23 13:18 • (MSD) R3929001-4 05/24/23 13:18

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.153	19.5	18.2	96.6	90.2	1	75.0-125			6.74		20
(T) Barium-133		99.5			97.5	94.4							



Guide to Reading and Understanding Your Laboratory Report

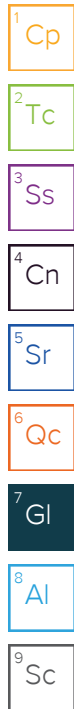
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

Qualifier	Description
C1	Tracer recovery limits have been exceeded; values are outside upper control limits.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
U	Below Detectable Limits: Indicates that the analyte was not detected.



# ACCREDITATIONS & LOCATIONS

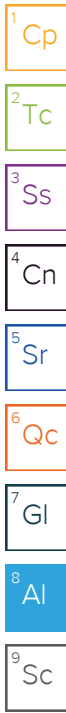
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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 <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.









L16/1864



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

(615)758-5858

INTER\_LABORATORY WORK ORDER # GD04926

(To be complete by sending lab)

Sending Project No:	GD04926
Receiving Project No:	
Check Box for Consolidated Invoice:	<input type="checkbox"/>
Date Prepared:	5/2/2023
REQUESTED COMPLETION DATE:	5/15/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	VISTRA - NEWTON
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

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

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226		2		2	\$100.00	\$200.00
Radium 228		2		2	\$100.00	\$200.00
		1		1		\$0.00
<b>TOTAL</b>						<b>\$400.00</b>

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary & edd

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$400.00	\$320.00	\$80.00
* Custom Revenue Allocation		TOTAL	\$320.00	\$80.00

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region:  Yes  No

CONFIRMATION OF WORK COMPLETED

Date Completed: \_\_\_\_\_ Receiving Project Manager: \_\_\_\_\_

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

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



G-1504486  
Vmw 4-26-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

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

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	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.		
							Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501			NEW_SUP_000	
1	NEW_APW14																								
2	NEW_APW15																								
3	NEW_APW16		4/25/23	1326		22	X	X	X																
4	NEW_APW17		4/25/23	1650		11	X	X	X																
5	NEW_APW18		4/25/23	1503		11	X	X	X																
6	NEW_G104		4/25/23	1652		8	X	X	X	X															
7	NEW_G104#S DTW																								
8	NEW_G104&D																								
9	NEW_G105																								
10	NEW_G106		4/25/23	1131		4	X	X	X	X															
11	9/9/16/23 NEW_G108 EB-01		4/25/23	1715																					
12	NEW_G109 DTW																								
13	NEW_G110 DTW																								
14	NEW_G111 DTW																								
15	NEW_G112 DTW																								
16	NEW_G113 DTW																								

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
NEW-23Q2 Rev 0		<i>[Signature]</i>		4/26/23	0706	<i>[Signature]</i>		4-26-23	1020	1.5	Y	N	Y
		<i>[Signature]</i>		4-26-23	1330.	<i>[Signature]</i>		4-26-23	1330				

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Aaron Robertson</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	04/25/2023		



### CHAIN-OF-CUSTODY / Analytical Request Document

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

6D04746 gda

**Section A**

Required Client Information:  
 Company: **Vistra Corp**  
 Address: **13498 E. 900th St**  
 Email To: **Brian.Voelker@VistraCorp.com**  
 Phone: (217) 753-8911 Fax:  
 Requested Due Date/TAT: **10 day**

**Section B**

Required Project Information:  
 Report To: **Brian Voelker**  
 Copy To: **Jason Stuckey**  
 Purchase Order No.:  
 Project Name:  
 Project Number: **2285**

**Section C**

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

Page: **1** of **6**

**REGULATORY AGENCY**  
 NPDES **GROUND WATER** DRINKING WATER  
 UST RCRA OTHER  
 Site Location  
 STATE: **IL**

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	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.	
							Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other									
1	NEW_A213																							
2	NEW_A214																							
3	NEW_A215		4/26/23	1640		9	X	X	X	X														
4	NEW_APW02																							
5	NEW_APW03																							
6	NEW_APW04																							
7	NEW_APW05S	95	4/26/23	1740		11	X	X	X															
8	NEW_APW05#S	427-23																						
9	NEW_APW06		4/26/23	1600		11	X	X	X															
10	NEW_APW07																							
11	NEW_APW08		4/26/23	1211		11	X	X	X															
12	NEW_APW09																							
13	NEW_APW10																							
14	NEW_APW11		4/26/23	1543		11	X	X	X															
15	NEW_APW12		4/26/23	1356		11	X	X	X															
16	NEW_APW13																							

ADDITIONAL COMMENTS: **NEW-23Q2 Rev 0**

RELINQUISHED BY / AFFILIATION: *Joseph R. Red* DATE: **4/27/23** TIME: **713**

ACCEPTED BY / AFFILIATION: *James David* DATE: **4-27** TIME: **1430**

DATE: **4-27** TIME: **1426**

SAMPLER NAME AND SIGNATURE: *James David*

PRINT Name of SAMPLER: **James David**

SIGNATURE of SAMPLER: *James David*

DATE Signed (MM/DD/YYYY): **4/26/23**

Temp in °C: **0.7**

Received on Ice (Y/N): **Y**

Custody Sealed Cooler (Y/N): **N**

Samples Intact (Y/N): **Y**



### CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**  
 Required Client Information:

**Section B**  
 Required Project Information:

**Section C**  
 Invoice Information:

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

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
Site Location	IL	
STATE:		

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ Y/N	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)	Project No./ Lab I.D.
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501		
1	NEW_YSG02																								
2	NEW_YSW_S101					4/26/23	1803	9	X	X	X														
3	NEW_YSW_S102					4/26/23	1743	9	X	X	X														
4	4/26/23 EB-02					4/26/23	1630																		
5																									
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				
NEW-23Q2 Rev 0	<i>James David</i>	4/27/23	1030	<i>gracey</i>	4-27	1030	5	Y	N	Y	
	<i>mmr</i>	4-27	1420	<i>gracey</i>	4/27/23	14:20	0	Y	N	Y	

SAMPLER NAME AND SIGNATURE		DATE Signed (MM/DD/YY): 4/26/23
PRINT Name of SAMPLER: James David	SIGNATURE of SAMPLER: <i>James David</i>	
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)
		Samples Intact (Y/N)

*Courier*

### CHAIN-OF-CUSTODY / Analytical Request Document

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

GDO4853-07  
gef

**Section A**

**Required Client Information:**  
 Company: **Vistra Corp**  
 Address: **13498 E. 900th St**  
 Email To: **Brian.Voelker@VistraCorp.com**  
 Phone: **(217) 753-8911** Fax:  
 Requested Due Date/TAT: **10 day**

**Section B**

**Required Project Information:**  
 Report To: **Erian Voelker**  
 Copy To: **Jason Stuckey**  
 Purchase Order No.:  
 Project Name:  
 Project Number: **2285**

**Section C**

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

Page: **1** of **6**

**REGULATORY AGENCY**  
 NPDES **GROUND WATER** DRINKING WATER  
 UST RCRA OTHER  
 Site Location  
 STATE: **IL**

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	Requested Analysis Filtered (Y/N)						Residual Chlorine (Y/N)	Project No./ Lab I.D.		
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other		NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501			NEW_SUP_000	
1	NEW_A213		WT	G	4/27/23	1209	9	X	X	X	X	X															
2	NEW_A214		WT	G	4/27/23	1432	9	X	X	X	X	X															
3	NEW_A215																										
4	NEW_APW02		WT	G	4/27/23	1217	11	X	X	X																	
5	NEW_APW03																										
6	NEW_APW04																										
7	NEW_APW05		WT	G	4/27/23	1240	11	X	X	X																	
8	NEW_APW05#S																										
9	NEW_APW06																										
10	NEW_APW07		WT	G	4/27/23	1035	11	X	X	X																	
11	NEW_APW08																										
12	NEW_APW09		WT	G	4/27/23	1405	11	X	X	X																	
13	NEW_APW10		WT	G	4/27/23	1547	11	X	X	X																	
14	NEW_APW11																										
15	NEW_APW12																										
16	NEW_APW13		WT	G	4/27/23	1716	11	X	X	X																	

**ADDITIONAL COMMENTS**  
NEW-23Q2 Rev 0

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<i>[Signature]</i>	4/28/23	0705	<i>[Signature]</i>	4/28/23	1245	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
<i>[Signature]</i>	4/28/23	1245	<i>[Signature]</i>	4/28/23	12:45	5.0	Y	Y	Y

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: **Aaron Remberlon**  
 SIGNATURE of SAMPLER: *[Signature]*  
 DATE Signed (MM/DD/YYYY): **04/27/2023**



### CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**

Required Client Information:  
 Company: **Vistra Corp**  
 Address: **13498 E. 900th St**  
 Email To: **Brian.Voelker@VistraCorp.com**  
 Phone: (217) 753-8911 Fax:  
 Requested Due Date/TAT: **10 day**

**Section B**

Required Project Information:  
 Report To: **Brian Voelker**  
 Copy To: **Jason Stuckey**  
 Purchase Order No.:  
 Project Name:  
 Project Number: **2285**

**Section C**

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

**REGULATORY AGENCY**  
 NPDES **GROUND WATER** DRINKING WATER  
 UST RCRA OTHER  
 Site Location **IL**  
 STATE:

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / . - ) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test Y/N	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)	Project No./ Lab I.D.	
		MATRIX	CODE			DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501			NEW_SUP_000
1	NEW_LREP_leachate																										
2	NEW_MW34&D																										
3	NEW_MW35&D																										
4	NEW_MW43&D																										
5	NEW_MW46&D																										
6	NEW_R201																										
7	NEW_R202																										
8	NEW_R217&D																										
9	NEW_R219																										
10	NEW_T101			WT G		4/27/23	1604		9	X	X	X															
11	NEW_T102																										
12	NEW_XPW01_pore			WT G		4/27/23	1407		10	X	X	X															
13	NEW_XPW02_pore			WT G		4/27/23	1520		10	X	X	X															
14	NEW_XPW03_pore			WT G		4/27/23	1700		10	X	X	X															
15	NEW_XPW04_pore	EB-03		WT G		4/27/23	1435		10	X	X	X															
16	NEW_XSG01 - DTW																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
<b>NEW-23Q2 Rev 0</b>	<i>[Signature]</i>	4/28/23	0705	<i>[Signature]</i>	4/28/23	0705	5.0	Y	N	Y	Y
	<i>[Signature]</i>	4/28/23	1245	<i>[Signature]</i>	4/28/23	12:45					

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: *Baron Amador*  
 SIGNATURE of SAMPLER: *[Signature]*  
 DATE Signed (MM/DD/YY): **04/27/23**

Temp in °C: **5.0**  
 Received on Ice (Y/N): **Y**  
 Custody Sealed Cooler (Y/N): **N**  
 Samples intact (Y/N): **Y**

6D04926  
 gjf

### CHAIN-OF-CUSTODY / Analytical Request Document

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

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

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
Site Location	IL	
STATE:		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	DATE	TIME	# OF CONTAINERS	SAMPLE TEMP AT COLLECTION	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No./ Lab I.D.								
								Preservatives																			
								Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Analysis Test ↓	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000				
1	NEW_APW14 + dup			4/28/23	1129	22																					
2	NEW_APW15																										
3	NEW_APW16																										
4	NEW_APW17																										
5	NEW_APW18																										
6	NEW_G104																										
7	NEW_G104#S DTW																										
8	NEW_G104&D																										
9	NEW_G105																										
10	NEW_G106																										
11	NEW_G108																										
12	NEW_G109 DTW																										
13	NEW_G110 DTW																										
14	NEW_G111 DTW																										
15	NEW_G112 DTW																										
16	NEW_G113 DTW																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
NEW-23Q2 Rev 0	<i>Joseph R Reed</i>	4/28/23	1612	<i>Jason Stuckey</i>	4/28/23	1612	H	J	R

SAMPLER NAME AND SIGNATURE		DATE Signed (MM/DD/YY):	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:					
	<i>Joseph R Reed</i>	4/28/23				

SAR-3: Dep NEWTON POWER PLANT  
Plant: PRIMARY ASH POND  
Event: NEWTON, IL

Well	Unique ID	Date	Time	Depth to Water, ft bmp		Transducer			Initials	Notes
				Manual	Transducer	Serial No.	Batt %	DL		
A207	NEW A207	4/24/23	1541	X	36.00	NA	NA	NA	JMD	
A213	NEW A213		1544	X	18.63				KL	
A214	NEW A214		1531	X	40.90				KL	
A215	NEW A215		1527	X	44.03				KL	
G06D	NEW G006&D		1459	X	28.92				JMD	
G104	NEW G104		1804	X	4.51				JMD	
G104D	NEW G104&D		1810	X	50.37				JMD	TD = 89.31
G104S	NEW G104#S		1806	X	4.68				JMD	TD = 26.04
G105	NEW G105		1833	X	7.10				JMD	TD = 26.20
G106	NEW G106		1857	X	20.37				AP	
G109	NEW G109		1647	X	5.11				JMD	TD = 24.97
G111	NEW G111		1815	X	5.97				JMD	TD = 22.75
G112	NEW G112		1823	X	4.38				JMD	TD = 24.62
G113	NEW G113		1908	X	17.09				JMD	TD = 33.33
G114	NEW G114		1723	X	13.45				JR	
G114D	NEW G114&D		1556	X	42.69				JR	
G115	NEW G115		1612	X	4.04				JR	No Lock, no pump
G116	NEW G116		1933	X	6.00				JMD	
G117	NEW G117		1845	X	7.08				JMD	TD = 21.90
G118	NEW G118		1608	X	6.32				JMD	TD = 22.59
G119	NEW G119		1654	X	4.10				JMD	TD = 23.85
G120	NEW G120		1632	X	7.33				JMD	TD = 23.38
G125	NEW G125		1457	X	2.84	JMD 4/24			KL	
G128	NEW G128		<del>1531</del> 1511	X	<del>19.75</del> 3.96				JMD	
G130	NEW G130		1707	X	4.34				JMD	TD = 22.69
G133	NEW G133		1658	X	8.84				JMD	TD = 27.32
G136	NEW G136		1643	X	6.69				JMD	TD = 22.20
G139	NEW G139		1639	X	6.15				JMD	TD = 23.05
G141	NEW G141		1515	X	10.99				JMD	TD = 25.16
G201	NEW G201		1742	X	17.50				JMD	
G202	NEW G202		1828	X	47.84				JMD	

SAR-3: Dep NEWTON POWER PLANT  
Plant: PRIMARY ASH POND  
Event: NEWTON

Well	Unique ID	Date	Time	Depth to Water, ft bmp		Transducer			Initials	Notes
				Manual	Transducer	Serial No.	Batt %	DL		
G203	NEW_G203	4/24/23	1536	X	41.39	NA	NA	NA	JR	No lock
G208	NEW_G208		1534	X	24.02				JMD	
G217S	NEW_G217#S		1439	X	6.20				KL	
G218	NEW_G218		1839	X	19.78				JMD	
G220	NEW_G220		1525	X	17.03				JMD	
G221	NEW_G221		1521	X	21.34				JMD	
G222	NEW_G222		1518	X	15.13				JMD	
G223	NEW_G223		1515	X	33.13				KL	Well has incorrect sign, says G233
G224	NEW_G224		1503	X	42.56				KL	
G225	NEW_G225		1511	X	7.27				JMD	TD = 24.99
G230	NEW_G230		1500	X	47.99				JR	
G231	NEW_G231		1504	X	47.36				JR	
G232	NEW_G232		1509	X	45.73				JR	
G233	NEW_G233		1516	X	41.67				JR	
G234	NEW_G234		1532	X	43.18				JR	
G48MG	NEW_G048MG		1826	X	18.99				JR	TD = 80.07
L1R	NEW_L1R_leachate		1716	X	52.80				KL	
L201	NEW_L201_leachate		1720	X	13.30				KL	Dry
L202	NEW_L202_leachate		1643	X	15.30				KL	Dry
L203	NEW_L203_leachate		1650	X	9.60				KL	Dry
L204	NEW_L204_leachate		1709	X	15.42				KL	
L205	NEW_L205_leachate		1701	X	0.97				KL	
L301	NEW_L301_leachate		NA	X	NA				JMD	No depth to measure
L302	NEW_L302_leachate		NA	X	NA				JMD	Not a well
M25-1	NEW_M25-1		1556	X	2.15				KL	
M25-2	NEW_M25-2		1557	X	1.42				KL	
M25-3	NEW_M25-3		1558	X	1.63				KL	
M25-4	NEW_M25-4		1559	X	2.43				KL	
M25-5	NEW_M25-5		1601	X	5.67				KL	
M25-6	NEW_M25-6		1602	X	12.28				KL	
M25-7	NEW_M25-7		1602	X	18.52				KL	

SAR-3: Dep NEWTON POWER PLANT  
Plant: NEWIARY ASH POND  
Event: NEW POND

Well	Unique ID	Date	Time	Depth to Water, ft bmp		Transducer			Initials	Notes
				Manual	Transducer	Serial No.	Batt %	DL		
M26-1	NEW_M26-1	4/24/23	1806	X	2.80	NA	NA	NA	KL	
M26-2	NEW_M26-2		1807	X	23.02				KL	
M26-3	NEW_M26-3		1808	X	23.19				KL	
M26-4	NEW_M26-4		1809	X	NA				KL	
M26-5	NEW_M26-5		1810	X	1.22				KL	Obstruction in well at depth 1.17'
M26-6	NEW_M26-6		1811	X	1.21				KL	
M26-7	NEW_M26-7		1812	X	40.76				KL	
MW31S	NEW_MW31#S		19:35	X	6.00				JMD	TD = 18.69
MW33S	NEW_MW33#S		1600	X	8.32				AP	TD = 29.59
MW34D	NEW_MW34&D		1655	X	14.85				AP	TD = 58.73, unable to close casing
MW35D	NEW_MW35&D		1438	X	26.24				AP	TD = 53.73
MW35S	NEW_MW35#S		1737	X	2.99				JMD	TD = 16.28
MW36S	NEW_MW36#S		1623	X	3.35				AP	TD = 15.49
MW43D	NEW_MW43&D		1812	X	5.73				AP	TD = 40.80
MW46D	NEW_MW46&D		1619	X	16.82				JR	
MW48S	NEW_MW48#S		1833	X	3.52				JR	13.49 = TD
R201	NEW_R201		1445	X	47.56				JR	
R202	NEW_R202		1912	X	47.55					
R216	NEW_R216		1455	X	43.33				KL	
R217D	NEW_R217&D		1444	X	19.15				KL	
R219	NEW_R219		1528	X	20.08				JMD	
T101	NEW_T101		1700	X	5.84				JR	
T102	NEW_T102		1712	X	6.00				JR	
APW02	NEW_APW02				X	21521987				
APW03	NEW_APW03				X	21521988				
APW04	NEW_APW04				X	21503517				
APW05	NEW_APW05				X	21615053				
APW05S	NEW_APW05#S				X	21503536				
APW06	NEW_APW06				X	21615054				
APW07	NEW_APW07				X	21615033				
APW08	NEW_APW08				X	21615032				

SAR-3: NEWTON POWER PLANT Measurements  
Plant: PRIMARY ASH POND  
Event: NEWTON, R

Well	Unique ID	Date	Time	Depth to Water, ft bmp		Transducer			Initials	Notes
				Manual	Transducer	Serial No.	Batt %	DL		
APW09	NEW APW09				X	21522025	NA	NA		
APW10	NEW APW10				X	21558058				
APW11	NEW APW11				X	21558059				
APW12	NEW APW12				X	21503535				
APW13	NEW APW13				X	21522024				
APW14	NEW APW14				X	21522035				
APW15	NEW APW15				X	21522034				
APW16	NEW APW16				X	21522033				
APW17	NEW APW17				X	21522023				
APW18	NEW APW18				X	21522026				
SG02	NEW YSG02	4/24/23	1444	2.11	X	TBD			AP	
XPW01	NEW XPW01 pore				X	21503518				
XPW02	NEW XPW02 pore				X	21522010				
XPW03	NEW XPW03 pore				X	21503520				
XPW04	NEW XPW04 pore				X	21503519				
XSG01	NEW XSG01	4/24/23	1716	534	X	TBD			AP	Staff gauge says 534

MW31D	4/24/23	1936	8.64
MW32S		1545	4.93
MW32D		1536	15.55
MW33D		1557	12.30
MW34S		1659	3.58
MW36D		1618	7.52
MW43S		1812	4.79
MW46S		1623	4.28
MW48D		1831	4.98

TD = 43.20  
TD = 22.20  
TD = 63.12  
TD = 51.71  
TD = 18.66  
TD = 35.07  
TD = 16.54  
  
TD = 41.54

Lake Levels

4/25/23	11:02	2.15'
4/26/23	8:11	2.19'
4/27/23	17:00	2.20'
4/28/23	7:58	2.17'
8/1/23	15:36	2.05'

Q-108 - well removed Jan 2023

**ATTACHMENT C  
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND  
QUARTER 2 2023**



**ATTACHMENT C.**  
**COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023**  
845 QUARTERLY REPORT  
NEWTON POWER PLANT  
PRIMARY ASH POND  
NEWTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
APW02	UD	E001	Antimony, total	mg/L	02/17/21 - 04/27/23	10	100	All ND - Last	0.003	0.003
APW02	UD	E001	Arsenic, total	mg/L	02/17/21 - 04/27/23	10	70	CI around median	0.001	0.059
APW02	UD	E001	Barium, total	mg/L	02/17/21 - 04/27/23	10	0	CB around linear reg	0.00275	0.3
APW02	UD	E001	Beryllium, total	mg/L	02/17/21 - 04/27/23	10	100	All ND - Last	0.001	0.001
APW02	UD	E001	Boron, total	mg/L	02/17/21 - 04/27/23	10	0	CI around geomean	0.105	0.26
APW02	UD	E001	Cadmium, total	mg/L	02/17/21 - 04/27/23	10	100	All ND - Last	0.001	0.001
APW02	UD	E001	Chloride, total	mg/L	02/17/21 - 04/27/23	10	0	CI around mean	100	52
APW02	UD	E001	Chromium, total	mg/L	02/17/21 - 04/27/23	10	90	Most recent sample	0.004	0.011
APW02	UD	E001	Cobalt, total	mg/L	02/17/21 - 04/27/23	10	100	All ND - Last	0.002	0.0043
APW02	UD	E001	Fluoride, total	mg/L	02/17/21 - 04/27/23	10	100	All ND - Last	0.25	0.633
APW02	UD	E001	Lead, total	mg/L	02/17/21 - 04/27/23	10	90	CI around median	0.001	0.0074
APW02	UD	E001	Lithium, total	mg/L	02/17/21 - 04/27/23	10	0	CI around geomean	0.0888	0.03
APW02	UD	E001	Mercury, total	mg/L	02/17/21 - 04/27/23	10	100	All ND - Last	0.0002	0.0002
APW02	UD	E001	Molybdenum, total	mg/L	02/17/21 - 04/27/23	9	67	CI around median	0.001	0.018
APW02	UD	E001	Radium 226 + Radium 228, total	pCi/L	02/17/21 - 04/27/23	9	0	CI around mean	0.227	6.9
APW02	UD	E001	Selenium, total	mg/L	02/17/21 - 04/27/23	10	100	All ND - Last	0.001	0.001
APW02	UD	E001	Sulfate, total	mg/L	02/17/21 - 04/27/23	10	0	CI around median	2,900	35.84
APW02	UD	E001	Thallium, total	mg/L	02/17/21 - 04/27/23	10	100	All ND - Last	0.001	0.001
APW02	UD	E001	Total Dissolved Solids	mg/L	02/17/21 - 04/27/23	16	0	CB around linear reg	5,180	628
APW02	UD	E001	pH (field)	SU	02/17/21 - 04/27/23	16	0	CI around mean	6.6/6.8	6.4/7.8
APW03	UD	E001	Antimony, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.003	0.003
APW03	UD	E001	Arsenic, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.001	0.059
APW03	UD	E001	Barium, total	mg/L	02/18/21 - 04/25/23	10	0	CI around mean	0.0648	0.3
APW03	UD	E001	Beryllium, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.001	0.001
APW03	UD	E001	Boron, total	mg/L	02/18/21 - 04/25/23	10	0	CI around geomean	0.377	0.26
APW03	UD	E001	Cadmium, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.001	0.001
APW03	UD	E001	Chloride, total	mg/L	02/18/21 - 04/25/23	10	0	CI around mean	7.35	52

**ATTACHMENT C.**  
**COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023**  
845 QUARTERLY REPORT  
NEWTON POWER PLANT  
PRIMARY ASH POND  
NEWTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
APW03	UD	E001	Chromium, total	mg/L	02/18/21 - 04/25/23	10	90	CI around median	0.004	0.011
APW03	UD	E001	Cobalt, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.002	0.0043
APW03	UD	E001	Fluoride, total	mg/L	02/18/21 - 04/25/23	10	90	CI around median	0.25	0.633
APW03	UD	E001	Lead, total	mg/L	02/18/21 - 04/25/23	10	90	CI around median	0.001	0.0074
APW03	UD	E001	Lithium, total	mg/L	02/18/21 - 04/25/23	10	40	CI around median	0.02	0.03
APW03	UD	E001	Mercury, total	mg/L	02/18/21 - 04/25/23	10	90	CI around median	0.0002	0.0002
APW03	UD	E001	Molybdenum, total	mg/L	02/18/21 - 04/25/23	9	11	CI around mean	0.000992	0.018
APW03	UD	E001	Radium 226 + Radium 228, total	pCi/L	02/18/21 - 04/25/23	9	0	CI around mean	0.123	6.9
APW03	UD	E001	Selenium, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.001	0.001
APW03	UD	E001	Sulfate, total	mg/L	02/18/21 - 04/25/23	10	0	CI around mean	139	35.84
APW03	UD	E001	Thallium, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.001	0.001
APW03	UD	E001	Total Dissolved Solids	mg/L	02/18/21 - 04/25/23	16	0	CI around mean	628	628
APW03	UD	E001	pH (field)	SU	02/18/21 - 04/25/23	16	0	CI around mean	6.8/7.2	6.4/7.8
APW04	UD	E001	Antimony, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.003	0.003
APW04	UD	E001	Arsenic, total	mg/L	02/18/21 - 04/25/23	10	40	CI around geomean	0.000941	0.059
APW04	UD	E001	Barium, total	mg/L	02/18/21 - 04/25/23	10	0	CI around mean	0.0181	0.3
APW04	UD	E001	Beryllium, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.001	0.001
APW04	UD	E001	Boron, total	mg/L	02/18/21 - 04/25/23	10	0	CI around median	0.024	0.26
APW04	UD	E001	Cadmium, total	mg/L	02/18/21 - 04/25/23	10	90	CI around median	0.001	0.001
APW04	UD	E001	Chloride, total	mg/L	02/18/21 - 04/25/23	10	0	CI around mean	29.3	52
APW04	UD	E001	Chromium, total	mg/L	02/18/21 - 04/25/23	10	90	CI around median	0.004	0.011
APW04	UD	E001	Cobalt, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.002	0.0043
APW04	UD	E001	Fluoride, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.25	0.633
APW04	UD	E001	Lead, total	mg/L	02/18/21 - 04/25/23	10	60	CI around median	0.001	0.0074
APW04	UD	E001	Lithium, total	mg/L	02/18/21 - 04/25/23	10	30	CI around median	0.02	0.03
APW04	UD	E001	Mercury, total	mg/L	02/18/21 - 04/25/23	10	90	CI around median	0.0002	0.0002
APW04	UD	E001	Molybdenum, total	mg/L	02/18/21 - 04/25/23	9	89	CI around median	0.001	0.018

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
APW04	UD	E001	Radium 226 + Radium 228, total	pCi/L	02/18/21 - 04/25/23	9	0	CI around mean	0.0207	6.9
APW04	UD	E001	Selenium, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.001	0.001
APW04	UD	E001	Sulfate, total	mg/L	02/18/21 - 04/25/23	10	0	CI around mean	844	35.84
APW04	UD	E001	Thallium, total	mg/L	02/18/21 - 04/25/23	10	100	All ND - Last	0.001	0.001
APW04	UD	E001	Total Dissolved Solids	mg/L	02/18/21 - 04/25/23	16	0	CI around mean	1,710	628
APW04	UD	E001	pH (field)	SU	02/18/21 - 04/25/23	16	0	CB around linear reg	6.9/8.0	6.4/7.8
APW05S	UD	E001	Antimony, total	mg/L	02/17/21 - 04/26/23	9	100	All ND - Last	0.003	0.003
APW05S	UD	E001	Arsenic, total	mg/L	02/17/21 - 04/26/23	9	33	CI around mean	0.00105	0.059
APW05S	UD	E001	Barium, total	mg/L	02/17/21 - 04/26/23	9	0	CI around median	0.048	0.3
APW05S	UD	E001	Beryllium, total	mg/L	02/17/21 - 04/26/23	9	100	All ND - Last	0.001	0.001
APW05S	UD	E001	Boron, total	mg/L	02/17/21 - 04/26/23	9	0	CI around median	0.04	0.26
APW05S	UD	E001	Cadmium, total	mg/L	02/17/21 - 04/26/23	9	89	CI around median	0.001	0.001
APW05S	UD	E001	Chloride, total	mg/L	02/17/21 - 04/26/23	9	0	CI around median	190	52
APW05S	UD	E001	Chromium, total	mg/L	02/17/21 - 04/26/23	9	89	CI around median	0.004	0.011
APW05S	UD	E001	Cobalt, total	mg/L	02/17/21 - 04/26/23	9	33	CI around geomean	0.00185	0.0043
APW05S	UD	E001	Fluoride, total	mg/L	02/17/21 - 04/26/23	9	0	CI around mean	0.349	0.633
APW05S	UD	E001	Lead, total	mg/L	02/17/21 - 04/26/23	9	89	CI around median	0.001	0.0074
APW05S	UD	E001	Lithium, total	mg/L	02/17/21 - 04/26/23	9	0	CI around geomean	0.0332	0.03
APW05S	UD	E001	Mercury, total	mg/L	02/17/21 - 04/26/23	9	100	All ND - Last	0.0002	0.0002
APW05S	UD	E001	Molybdenum, total	mg/L	02/17/21 - 04/26/23	8	0	CB around linear reg	-0.000835	0.018
APW05S	UD	E001	Radium 226 + Radium 228, total	pCi/L	02/17/21 - 04/26/23	8	0	CI around geomean	0.128	6.9
APW05S	UD	E001	Selenium, total	mg/L	02/17/21 - 04/26/23	9	100	All ND - Last	0.001	0.001
APW05S	UD	E001	Sulfate, total	mg/L	02/17/21 - 04/26/23	9	0	CI around median	640	35.84
APW05S	UD	E001	Thallium, total	mg/L	02/17/21 - 04/26/23	9	100	All ND - Last	0.001	0.001
APW05S	UD	E001	Total Dissolved Solids	mg/L	02/17/21 - 04/26/23	9	0	CI around mean	3,450	628
APW05S	UD	E001	pH (field)	SU	02/17/21 - 04/26/23	9	0	CI around mean	6.7/7.0	6.4/7.8
APW07	UA	E001	Antimony, total	mg/L	12/15/15 - 04/27/23	11	100	All ND - Last	0.003	0.003

**ATTACHMENT C.**  
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
APW07	UA	E001	Arsenic, total	mg/L	12/15/15 - 04/27/23	12	0	CB around linear reg	0.0127	0.059
APW07	UA	E001	Barium, total	mg/L	12/15/15 - 04/27/23	12	0	CB around linear reg	0.465	0.3
APW07	UA	E001	Beryllium, total	mg/L	12/15/15 - 04/27/23	11	100	All ND - Last	0.001	0.001
APW07	UA	E001	Boron, total	mg/L	12/15/15 - 04/27/23	22	0	CB around T-S line	0.0841	0.26
APW07	UA	E001	Cadmium, total	mg/L	12/15/15 - 04/27/23	11	100	All ND - Last	0.001	0.001
APW07	UA	E001	Chloride, total	mg/L	12/15/15 - 04/27/23	24	0	CB around T-S line	57.5	52
APW07	UA	E001	Chromium, total	mg/L	12/15/15 - 04/27/23	12	75	CI around median	0.004	0.011
APW07	UA	E001	Cobalt, total	mg/L	12/15/15 - 04/27/23	11	82	CI around median	0.002	0.0043
APW07	UA	E001	Fluoride, total	mg/L	12/15/15 - 04/27/23	22	4	CI around mean	0.36	0.633
APW07	UA	E001	Lead, total	mg/L	12/15/15 - 04/27/23	12	58	CI around median	0.001	0.0074
APW07	UA	E001	Lithium, total	mg/L	12/15/15 - 04/27/23	12	100	All ND - Last	0.02	0.03
APW07	UA	E001	Mercury, total	mg/L	12/15/15 - 04/27/23	12	100	All ND - Last	0.0002	0.0002
APW07	UA	E001	Molybdenum, total	mg/L	12/15/15 - 04/27/23	11	0	CB around linear reg	-0.00442	0.018
APW07	UA	E001	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 04/27/23	12	0	CI around mean	1.31	6.9
APW07	UA	E001	Selenium, total	mg/L	12/15/15 - 04/27/23	12	100	All ND - Last	0.001	0.001
APW07	UA	E001	Sulfate, total	mg/L	12/15/15 - 04/27/23	23	17	CB around T-S line	6.15	35.84
APW07	UA	E001	Thallium, total	mg/L	12/15/15 - 04/27/23	11	100	All ND - Last	0.001	0.001
APW07	UA	E001	Total Dissolved Solids	mg/L	12/15/15 - 04/27/23	22	0	CI around mean	486	628
APW07	UA	E001	pH (field)	SU	12/15/15 - 04/27/23	24	0	CI around mean	7.1/7.3	6.4/7.8
APW08	UA	E001	Antimony, total	mg/L	12/15/15 - 04/26/23	11	100	All ND - Last	0.003	0.003
APW08	UA	E001	Arsenic, total	mg/L	12/15/15 - 04/26/23	12	0	CB around linear reg	0.0188	0.059
APW08	UA	E001	Barium, total	mg/L	12/15/15 - 04/26/23	12	0	CB around linear reg	0.444	0.3
APW08	UA	E001	Beryllium, total	mg/L	12/15/15 - 04/26/23	11	100	All ND - Last	0.001	0.001
APW08	UA	E001	Boron, total	mg/L	12/15/15 - 04/26/23	22	0	CI around geomean	0.0816	0.26
APW08	UA	E001	Cadmium, total	mg/L	12/15/15 - 04/26/23	11	100	All ND - Last	0.001	0.001
APW08	UA	E001	Chloride, total	mg/L	12/15/15 - 04/26/23	24	0	CI around mean	54.7	52
APW08	UA	E001	Chromium, total	mg/L	12/15/15 - 04/26/23	12	58	CI around median	0.004	0.011

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
APW08	UA	E001	Cobalt, total	mg/L	12/15/15 - 04/26/23	11	73	CI around median	0.002	0.0043
APW08	UA	E001	Fluoride, total	mg/L	12/15/15 - 04/26/23	22	9	CI around median	0.373	0.633
APW08	UA	E001	Lead, total	mg/L	12/15/15 - 04/26/23	12	50	CI around median	0.001	0.0074
APW08	UA	E001	Lithium, total	mg/L	12/15/15 - 04/26/23	12	67	CI around median	0.01	0.03
APW08	UA	E001	Mercury, total	mg/L	12/15/15 - 04/26/23	12	100	All ND - Last	0.0002	0.0002
APW08	UA	E001	Molybdenum, total	mg/L	12/15/15 - 04/26/23	11	0	CI around mean	0.00453	0.018
APW08	UA	E001	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 04/26/23	12	0	CI around mean	1.03	6.9
APW08	UA	E001	Selenium, total	mg/L	12/15/15 - 04/26/23	12	92	CI around median	0.001	0.001
APW08	UA	E001	Sulfate, total	mg/L	12/15/15 - 04/26/23	23	0	CB around linear reg	44	35.84
APW08	UA	E001	Thallium, total	mg/L	12/15/15 - 04/26/23	11	100	All ND - Last	0.001	0.001
APW08	UA	E001	Total Dissolved Solids	mg/L	12/15/15 - 04/26/23	22	0	CB around linear reg	592	628
APW08	UA	E001	pH (field)	SU	12/15/15 - 04/26/23	25	0	CI around mean	7.2/7.4	6.4/7.8
APW09	UA	E001	Antimony, total	mg/L	12/15/15 - 04/27/23	11	100	All ND - Last	0.003	0.003
APW09	UA	E001	Arsenic, total	mg/L	12/15/15 - 04/27/23	12	0	CB around linear reg	0.0223	0.059
APW09	UA	E001	Barium, total	mg/L	12/15/15 - 04/27/23	12	0	CI around mean	0.277	0.3
APW09	UA	E001	Beryllium, total	mg/L	12/15/15 - 04/27/23	11	100	All ND - Last	0.001	0.001
APW09	UA	E001	Boron, total	mg/L	12/15/15 - 04/27/23	22	0	CB around T-S line	0.0809	0.26
APW09	UA	E001	Cadmium, total	mg/L	12/15/15 - 04/27/23	11	100	All ND - Last	0.001	0.001
APW09	UA	E001	Chloride, total	mg/L	12/15/15 - 04/27/23	24	0	CI around median	95	52
APW09	UA	E001	Chromium, total	mg/L	12/15/15 - 04/27/23	12	67	CB around T-S line	0.004	0.011
APW09	UA	E001	Cobalt, total	mg/L	12/15/15 - 04/27/23	11	91	CI around median	0.002	0.0043
APW09	UA	E001	Fluoride, total	mg/L	12/15/15 - 04/27/23	22	4	CI around mean	0.438	0.633
APW09	UA	E001	Lead, total	mg/L	12/15/15 - 04/27/23	12	50	CI around median	0.001	0.0074
APW09	UA	E001	Lithium, total	mg/L	12/15/15 - 04/27/23	12	100	All ND - Last	0.02	0.03
APW09	UA	E001	Mercury, total	mg/L	12/15/15 - 04/27/23	12	83	CI around median	0.0002	0.0002
APW09	UA	E001	Molybdenum, total	mg/L	12/15/15 - 04/27/23	11	0	CB around linear reg	-0.00854	0.018
APW09	UA	E001	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 04/27/23	12	0	CI around geomean	0.828	6.9

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
APW09	UA	E001	Selenium, total	mg/L	12/15/15 - 04/27/23	12	92	CI around median	0.001	0.001
APW09	UA	E001	Sulfate, total	mg/L	12/15/15 - 04/27/23	23	9	CI around geomean	4	35.84
APW09	UA	E001	Thallium, total	mg/L	12/15/15 - 04/27/23	11	100	All ND - Last	0.001	0.001
APW09	UA	E001	Total Dissolved Solids	mg/L	12/15/15 - 04/27/23	23	0	CB around T-S line	734	628
APW09	UA	E001	pH (field)	SU	12/15/15 - 04/27/23	24	0	CI around median	7.4/7.5	6.4/7.8
APW10	UA	E001	Antimony, total	mg/L	12/16/15 - 04/27/23	13	100	All ND - Last	0.003	0.003
APW10	UA	E001	Arsenic, total	mg/L	12/16/15 - 04/27/23	14	0	CI around mean	0.0059	0.059
APW10	UA	E001	Barium, total	mg/L	12/16/15 - 04/27/23	14	0	CI around mean	0.0286	0.3
APW10	UA	E001	Beryllium, total	mg/L	12/16/15 - 04/27/23	13	100	All ND - Last	0.001	0.001
APW10	UA	E001	Boron, total	mg/L	12/16/15 - 04/27/23	24	0	CB around linear reg	0.0764	0.26
APW10	UA	E001	Cadmium, total	mg/L	12/16/15 - 04/27/23	13	100	All ND - Last	0.001	0.001
APW10	UA	E001	Chloride, total	mg/L	12/16/15 - 04/27/23	25	0	CI around mean	45.4	52
APW10	UA	E001	Chromium, total	mg/L	12/16/15 - 04/27/23	14	100	All ND - Last	0.004	0.011
APW10	UA	E001	Cobalt, total	mg/L	12/16/15 - 04/27/23	13	92	CI around median	0.002	0.0043
APW10	UA	E001	Fluoride, total	mg/L	12/16/15 - 04/27/23	24	21	CI around mean	0.298	0.633
APW10	UA	E001	Lead, total	mg/L	12/16/15 - 04/27/23	14	86	CI around median	0.001	0.0074
APW10	UA	E001	Lithium, total	mg/L	12/16/15 - 04/27/23	14	7	CB around linear reg	0.0132	0.03
APW10	UA	E001	Mercury, total	mg/L	12/16/15 - 04/27/23	14	100	All ND - Last	0.0002	0.0002
APW10	UA	E001	Molybdenum, total	mg/L	12/16/15 - 04/27/23	13	0	CB around linear reg	0.00524	0.018
APW10	UA	E001	Radium 226 + Radium 228, total	pCi/L	12/16/15 - 04/27/23	14	0	CI around mean	0.442	6.9
APW10	UA	E001	Selenium, total	mg/L	12/16/15 - 04/27/23	14	100	All ND - Last	0.001	0.001
APW10	UA	E001	Sulfate, total	mg/L	12/16/15 - 04/27/23	25	0	CI around median	410	35.84
APW10	UA	E001	Thallium, total	mg/L	12/16/15 - 04/27/23	13	100	All ND - Last	0.001	0.001
APW10	UA	E001	Total Dissolved Solids	mg/L	12/16/15 - 04/27/23	26	0	CB around linear reg	1,030	628
APW10	UA	E001	pH (field)	SU	12/16/15 - 04/27/23	27	0	CB around linear reg	7.2/7.5	6.4/7.8
APW11	UA	E001	Antimony, total	mg/L	02/18/21 - 04/26/23	10	100	All ND - Last	0.003	0.003
APW11	UA	E001	Arsenic, total	mg/L	02/18/21 - 04/26/23	10	0	CI around mean	0.0015	0.059



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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
APW11	UA	E001	Barium, total	mg/L	02/18/21 - 04/26/23	10	0	CB around T-S line	-0.566	0.3
APW11	UA	E001	Beryllium, total	mg/L	02/18/21 - 04/26/23	10	100	All ND - Last	0.001	0.001
APW11	UA	E001	Boron, total	mg/L	02/18/21 - 04/26/23	10	0	CI around median	0.063	0.26
APW11	UA	E001	Cadmium, total	mg/L	02/18/21 - 04/26/23	10	100	All ND - Last	0.001	0.001
APW11	UA	E001	Chloride, total	mg/L	02/18/21 - 04/26/23	10	0	CI around median	26	52
APW11	UA	E001	Chromium, total	mg/L	02/18/21 - 04/26/23	10	70	CI around median	0.004	0.011
APW11	UA	E001	Cobalt, total	mg/L	02/18/21 - 04/26/23	10	70	CI around median	0.002	0.0043
APW11	UA	E001	Fluoride, total	mg/L	02/18/21 - 04/26/23	10	50	CI around geomean	0.245	0.633
APW11	UA	E001	Lead, total	mg/L	02/18/21 - 04/26/23	10	60	CI around median	0.001	0.0074
APW11	UA	E001	Lithium, total	mg/L	02/18/21 - 04/26/23	10	10	CI around mean	0.0175	0.03
APW11	UA	E001	Mercury, total	mg/L	02/18/21 - 04/26/23	10	80	CI around median	0.0002	0.0002
APW11	UA	E001	Molybdenum, total	mg/L	02/18/21 - 04/26/23	9	0	CB around T-S line	-0.0661	0.018
APW11	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/18/21 - 04/26/23	9	0	CI around mean	0.424	6.9
APW11	UA	E001	Selenium, total	mg/L	02/18/21 - 04/26/23	10	80	CI around median	0.001	0.001
APW11	UA	E001	Sulfate, total	mg/L	02/18/21 - 04/26/23	10	0	CI around median	260	35.84
APW11	UA	E001	Thallium, total	mg/L	02/18/21 - 04/26/23	10	90	CI around median	0.001	0.001
APW11	UA	E001	Total Dissolved Solids	mg/L	02/18/21 - 04/26/23	10	0	CI around mean	809	628
APW11	UA	E001	pH (field)	SU	02/18/21 - 04/26/23	10	0	CI around median	6.6/7.2	6.4/7.8
APW12	UD	E001	Antimony, total	mg/L	02/17/21 - 04/26/23	10	100	All ND - Last	0.003	0.003
APW12	UD	E001	Arsenic, total	mg/L	02/17/21 - 04/26/23	10	0	CI around mean	0.00155	0.059
APW12	UD	E001	Barium, total	mg/L	02/17/21 - 04/26/23	10	0	CB around linear reg	0.0133	0.3
APW12	UD	E001	Beryllium, total	mg/L	02/17/21 - 04/26/23	10	100	All ND - Last	0.001	0.001
APW12	UD	E001	Boron, total	mg/L	02/17/21 - 04/26/23	10	0	CI around mean	0.18	0.26
APW12	UD	E001	Cadmium, total	mg/L	02/17/21 - 04/26/23	10	100	All ND - Last	0.001	0.001
APW12	UD	E001	Chloride, total	mg/L	02/17/21 - 04/26/23	10	0	CI around mean	21.3	52
APW12	UD	E001	Chromium, total	mg/L	02/17/21 - 04/26/23	10	100	All ND - Last	0.004	0.011
APW12	UD	E001	Cobalt, total	mg/L	02/17/21 - 04/26/23	10	20	CB around linear reg	-0.00198	0.0043



**ATTACHMENT C.**  
**COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023**  
845 QUARTERLY REPORT  
NEWTON POWER PLANT  
PRIMARY ASH POND  
NEWTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
APW12	UD	E001	Fluoride, total	mg/L	02/17/21 - 04/26/23	10	100	All ND - Last	0.25	0.633
APW12	UD	E001	Lead, total	mg/L	02/17/21 - 04/26/23	10	90	CI around median	0.001	0.0074
APW12	UD	E001	Lithium, total	mg/L	02/17/21 - 04/26/23	10	0	CI around geomean	0.0244	0.03
APW12	UD	E001	Mercury, total	mg/L	02/17/21 - 04/26/23	10	90	CI around median	0.0002	0.0002
APW12	UD	E001	Molybdenum, total	mg/L	02/17/21 - 04/26/23	9	44	CI around geomean	0.000964	0.018
APW12	UD	E001	Radium 226 + Radium 228, total	pCi/L	02/17/21 - 04/26/23	9	0	CI around geomean	0.14	6.9
APW12	UD	E001	Selenium, total	mg/L	02/17/21 - 04/26/23	10	100	All ND - Last	0.001	0.001
APW12	UD	E001	Sulfate, total	mg/L	02/17/21 - 04/26/23	10	0	CI around mean	253	35.84
APW12	UD	E001	Thallium, total	mg/L	02/17/21 - 04/26/23	10	100	All ND - Last	0.001	0.001
APW12	UD	E001	Total Dissolved Solids	mg/L	02/17/21 - 04/26/23	10	0	CI around mean	1,160	628
APW12	UD	E001	pH (field)	SU	02/17/21 - 04/26/23	10	0	CI around mean	6.2/6.6	6.4/7.8
APW13	UA	E001	Antimony, total	mg/L	02/22/21 - 04/27/23	10	100	All ND - Last	0.003	0.003
APW13	UA	E001	Arsenic, total	mg/L	02/22/21 - 04/27/23	10	0	CI around mean	0.00314	0.059
APW13	UA	E001	Barium, total	mg/L	02/22/21 - 04/27/23	10	0	CI around mean	0.05	0.3
APW13	UA	E001	Beryllium, total	mg/L	02/22/21 - 04/27/23	10	100	All ND - Last	0.001	0.001
APW13	UA	E001	Boron, total	mg/L	02/22/21 - 04/27/23	10	0	CI around mean	0.105	0.26
APW13	UA	E001	Cadmium, total	mg/L	02/22/21 - 04/27/23	10	100	All ND - Last	0.001	0.001
APW13	UA	E001	Chloride, total	mg/L	02/22/21 - 04/27/23	10	0	CI around mean	46.2	52
APW13	UA	E001	Chromium, total	mg/L	02/22/21 - 04/27/23	10	100	All ND - Last	0.004	0.011
APW13	UA	E001	Cobalt, total	mg/L	02/22/21 - 04/27/23	10	100	All ND - Last	0.002	0.0043
APW13	UA	E001	Fluoride, total	mg/L	02/22/21 - 04/27/23	10	10	CI around mean	0.285	0.633
APW13	UA	E001	Lead, total	mg/L	02/22/21 - 04/27/23	10	100	All ND - Last	0.001	0.0074
APW13	UA	E001	Lithium, total	mg/L	02/22/21 - 04/27/23	10	0	CI around mean	0.0262	0.03
APW13	UA	E001	Mercury, total	mg/L	02/22/21 - 04/27/23	10	100	All ND - Last	0.0002	0.0002
APW13	UA	E001	Molybdenum, total	mg/L	02/22/21 - 04/27/23	9	0	CB around linear reg	-0.00498	0.018
APW13	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/22/21 - 04/27/23	9	0	CI around mean	0.245	6.9
APW13	UA	E001	Selenium, total	mg/L	02/22/21 - 04/27/23	10	100	All ND - Last	0.001	0.001

**ATTACHMENT C.**  
**COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023**  
845 QUARTERLY REPORT  
NEWTON POWER PLANT  
PRIMARY ASH POND  
NEWTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
APW13	UA	E001	Sulfate, total	mg/L	02/22/21 - 04/27/23	10	0	CI around mean	210	35.84
APW13	UA	E001	Thallium, total	mg/L	02/22/21 - 04/27/23	10	100	All ND - Last	0.001	0.001
APW13	UA	E001	Total Dissolved Solids	mg/L	02/22/21 - 04/27/23	10	0	CI around mean	801	628
APW13	UA	E001	pH (field)	SU	02/22/21 - 04/27/23	10	0	CI around median	7.1/7.3	6.4/7.8
APW14	UA	E001	Antimony, total	mg/L	02/22/21 - 04/28/23	10	100	All ND - Last	0.003	0.003
APW14	UA	E001	Arsenic, total	mg/L	02/22/21 - 04/28/23	10	0	CI around mean	0.00506	0.059
APW14	UA	E001	Barium, total	mg/L	02/22/21 - 04/28/23	10	0	CI around mean	0.0752	0.3
APW14	UA	E001	Beryllium, total	mg/L	02/22/21 - 04/28/23	10	100	All ND - Last	0.001	0.001
APW14	UA	E001	Boron, total	mg/L	02/22/21 - 04/28/23	10	0	CI around mean	0.0949	0.26
APW14	UA	E001	Cadmium, total	mg/L	02/22/21 - 04/28/23	10	100	All ND - Last	0.001	0.001
APW14	UA	E001	Chloride, total	mg/L	02/22/21 - 04/28/23	10	0	CI around mean	41.8	52
APW14	UA	E001	Chromium, total	mg/L	02/22/21 - 04/28/23	10	90	CI around median	0.004	0.011
APW14	UA	E001	Cobalt, total	mg/L	02/22/21 - 04/28/23	10	90	CI around median	0.002	0.0043
APW14	UA	E001	Fluoride, total	mg/L	02/22/21 - 04/28/23	10	30	CI around mean	0.266	0.633
APW14	UA	E001	Lead, total	mg/L	02/22/21 - 04/28/23	10	70	CI around median	0.001	0.0074
APW14	UA	E001	Lithium, total	mg/L	02/22/21 - 04/28/23	10	20	CB around linear reg	-0.00217	0.03
APW14	UA	E001	Mercury, total	mg/L	02/22/21 - 04/28/23	10	100	All ND - Last	0.0002	0.0002
APW14	UA	E001	Molybdenum, total	mg/L	02/22/21 - 04/28/23	9	0	CB around linear reg	-0.0066	0.018
APW14	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/22/21 - 04/28/23	9	0	CI around mean	0.372	6.9
APW14	UA	E001	Selenium, total	mg/L	02/22/21 - 04/28/23	10	100	All ND - Last	0.001	0.001
APW14	UA	E001	Sulfate, total	mg/L	02/22/21 - 04/28/23	10	0	CI around median	320	35.84
APW14	UA	E001	Thallium, total	mg/L	02/22/21 - 04/28/23	10	100	All ND - Last	0.001	0.001
APW14	UA	E001	Total Dissolved Solids	mg/L	02/22/21 - 04/28/23	10	0	CI around mean	892	628
APW14	UA	E001	pH (field)	SU	02/22/21 - 04/28/23	10	0	CI around median	7.3/7.5	6.4/7.8
APW15	UA	E001	Antimony, total	mg/L	02/23/21 - 04/26/23	10	100	All ND - Last	0.003	0.003
APW15	UA	E001	Arsenic, total	mg/L	02/23/21 - 04/26/23	10	0	CI around mean	0.0166	0.059
APW15	UA	E001	Barium, total	mg/L	02/23/21 - 04/26/23	10	0	CI around mean	0.559	0.3

**ATTACHMENT C.**  
**COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023**  
845 QUARTERLY REPORT  
NEWTON POWER PLANT  
PRIMARY ASH POND  
NEWTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
APW15	UA	E001	Beryllium, total	mg/L	02/23/21 - 04/26/23	10	100	All ND - Last	0.001	0.001
APW15	UA	E001	Boron, total	mg/L	02/23/21 - 04/26/23	10	0	CI around mean	0.128	0.26
APW15	UA	E001	Cadmium, total	mg/L	02/23/21 - 04/26/23	10	100	All ND - Last	0.001	0.001
APW15	UA	E001	Chloride, total	mg/L	02/23/21 - 04/26/23	10	0	CI around median	230	52
APW15	UA	E001	Chromium, total	mg/L	02/23/21 - 04/26/23	10	80	CI around median	0.004	0.011
APW15	UA	E001	Cobalt, total	mg/L	02/23/21 - 04/26/23	10	80	CI around median	0.002	0.0043
APW15	UA	E001	Fluoride, total	mg/L	02/23/21 - 04/26/23	10	0	CI around geomean	0.6	0.633
APW15	UA	E001	Lead, total	mg/L	02/23/21 - 04/26/23	10	50	CI around median	0.001	0.0074
APW15	UA	E001	Lithium, total	mg/L	02/23/21 - 04/26/23	10	80	CI around median	0.02	0.03
APW15	UA	E001	Mercury, total	mg/L	02/23/21 - 04/26/23	10	100	All ND - Last	0.0002	0.0002
APW15	UA	E001	Molybdenum, total	mg/L	02/23/21 - 04/26/23	9	0	CI around mean	0.00846	0.018
APW15	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/23/21 - 04/26/23	9	0	CI around mean	1.5	6.9
APW15	UA	E001	Selenium, total	mg/L	02/23/21 - 04/26/23	10	100	All ND - Last	0.001	0.001
APW15	UA	E001	Sulfate, total	mg/L	02/23/21 - 04/26/23	10	100	All ND - Last	1	35.84
APW15	UA	E001	Thallium, total	mg/L	02/23/21 - 04/26/23	10	100	All ND - Last	0.001	0.001
APW15	UA	E001	Total Dissolved Solids	mg/L	02/23/21 - 04/26/23	10	0	CI around mean	1,020	628
APW15	UA	E001	pH (field)	SU	02/23/21 - 04/26/23	10	0	CI around median	7.0/7.3	6.4/7.8
APW16	UA	E001	Antimony, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.003	0.003
APW16	UA	E001	Arsenic, total	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	0.00767	0.059
APW16	UA	E001	Barium, total	mg/L	02/23/21 - 04/25/23	10	0	CB around linear reg	0.434	0.3
APW16	UA	E001	Beryllium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.001	0.001
APW16	UA	E001	Boron, total	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	0.128	0.26
APW16	UA	E001	Cadmium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.001	0.001
APW16	UA	E001	Chloride, total	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	66.1	52
APW16	UA	E001	Chromium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.004	0.011
APW16	UA	E001	Cobalt, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.002	0.0043
APW16	UA	E001	Fluoride, total	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	0.605	0.633

**ATTACHMENT C.**  
**COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023**  
845 QUARTERLY REPORT  
NEWTON POWER PLANT  
PRIMARY ASH POND  
NEWTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
APW16	UA	E001	Lead, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.001	0.0074
APW16	UA	E001	Lithium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.02	0.03
APW16	UA	E001	Mercury, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.0002	0.0002
APW16	UA	E001	Molybdenum, total	mg/L	02/23/21 - 04/25/23	9	44	CB around linear reg	-0.00408	0.018
APW16	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/23/21 - 04/25/23	9	0	CI around geomean	1.22	6.9
APW16	UA	E001	Selenium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.001	0.001
APW16	UA	E001	Sulfate, total	mg/L	02/23/21 - 04/25/23	10	90	CI around median	1	35.84
APW16	UA	E001	Thallium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.001	0.001
APW16	UA	E001	Total Dissolved Solids	mg/L	02/23/21 - 04/25/23	10	0	CI around median	690	628
APW16	UA	E001	pH (field)	SU	02/23/21 - 04/25/23	10	0	CI around mean	7.2/7.6	6.4/7.8
APW17	UA	E001	Antimony, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.003	0.003
APW17	UA	E001	Arsenic, total	mg/L	02/23/21 - 04/25/23	10	0	CB around linear reg	0.0181	0.059
APW17	UA	E001	Barium, total	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	0.565	0.3
APW17	UA	E001	Beryllium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.001	0.001
APW17	UA	E001	Boron, total	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	0.0839	0.26
APW17	UA	E001	Cadmium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.001	0.001
APW17	UA	E001	Chloride, total	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	43.9	52
APW17	UA	E001	Chromium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.004	0.011
APW17	UA	E001	Cobalt, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.002	0.0043
APW17	UA	E001	Fluoride, total	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	0.394	0.633
APW17	UA	E001	Lead, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.001	0.0074
APW17	UA	E001	Lithium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.02	0.03
APW17	UA	E001	Mercury, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.0002	0.0002
APW17	UA	E001	Molybdenum, total	mg/L	02/23/21 - 04/25/23	9	0	CI around median	0.0048	0.018
APW17	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/23/21 - 04/25/23	9	0	CI around mean	0.644	6.9
APW17	UA	E001	Selenium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.001	0.001
APW17	UA	E001	Sulfate, total	mg/L	02/23/21 - 04/25/23	10	10	CI around mean	26.7	35.84

**ATTACHMENT C.**  
**COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023**  
845 QUARTERLY REPORT  
NEWTON POWER PLANT  
PRIMARY ASH POND  
NEWTON, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
APW17	UA	E001	Thallium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.001	0.001
APW17	UA	E001	Total Dissolved Solids	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	631	628
APW17	UA	E001	pH (field)	SU	02/23/21 - 04/25/23	10	0	CI around mean	7.3/7.6	6.4/7.8
APW18	UA	E001	Antimony, total	mg/L	02/23/21 - 04/25/23	10	90	CI around median	0.003	0.003
APW18	UA	E001	Arsenic, total	mg/L	02/23/21 - 04/25/23	10	10	CI around mean	0.00144	0.059
APW18	UA	E001	Barium, total	mg/L	02/23/21 - 04/25/23	10	0	CI around median	0.33	0.3
APW18	UA	E001	Beryllium, total	mg/L	02/23/21 - 04/25/23	10	90	CI around median	0.001	0.001
APW18	UA	E001	Boron, total	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	0.103	0.26
APW18	UA	E001	Cadmium, total	mg/L	02/23/21 - 04/25/23	10	90	CI around median	0.001	0.001
APW18	UA	E001	Chloride, total	mg/L	02/23/21 - 04/25/23	10	0	CB around T-S line	-243	52
APW18	UA	E001	Chromium, total	mg/L	02/23/21 - 04/25/23	10	70	CI around median	0.004	0.011
APW18	UA	E001	Cobalt, total	mg/L	02/23/21 - 04/25/23	10	70	CI around median	0.002	0.0043
APW18	UA	E001	Fluoride, total	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	0.677	0.633
APW18	UA	E001	Lead, total	mg/L	02/23/21 - 04/25/23	10	50	CB around linear reg	-0.00473	0.0074
APW18	UA	E001	Lithium, total	mg/L	02/23/21 - 04/25/23	10	100	All ND - Last	0.02	0.03
APW18	UA	E001	Mercury, total	mg/L	02/23/21 - 04/25/23	10	90	CI around median	0.0002	0.0002
APW18	UA	E001	Molybdenum, total	mg/L	02/23/21 - 04/25/23	9	0	CB around linear reg	-0.0288	0.018
APW18	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/23/21 - 04/25/23	9	0	CI around mean	1.38	6.9
APW18	UA	E001	Selenium, total	mg/L	02/23/21 - 04/25/23	10	90	CI around median	0.001	0.001
APW18	UA	E001	Sulfate, total	mg/L	02/23/21 - 04/25/23	10	20	CI around geomean	1.82	35.84
APW18	UA	E001	Thallium, total	mg/L	02/23/21 - 04/25/23	10	80	CI around median	0.001	0.001
APW18	UA	E001	Total Dissolved Solids	mg/L	02/23/21 - 04/25/23	10	0	CI around mean	508	628
APW18	UA	E001	pH (field)	SU	02/23/21 - 04/25/23	10	0	CI around mean	7.5/7.8	6.4/7.8

**ATTACHMENT C.**  
**COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023**

845 QUARTERLY REPORT  
NEWTON POWER PLANT  
PRIMARY ASH POND  
NEWTON, IL

**Notes:**

Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

UD = Upper Drift

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 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 Statistical Analysis Plan using constituent concentrations observed at monitoring well during all sampling events within the specified date range  
For pH, the values presented are the lower / upper limits of the background determination