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**Illinois Power Generating Company**

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**1940103649-013**

**2023 ANNUAL GROUNDWATER  
MONITORING AND CORRECTIVE  
ACTION REPORT**  
**LANDFILL 2**  
**NEWTON POWER PLANT**  
**NEWTON, ILLINOIS**  
**CCR UNIT 502**

**2023 ANNUAL GROUNDWATER MONITORING AND  
CORRECTIVE ACTION REPORT  
NEWTON POWER PLANT LANDFILL 2**

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## ACRONYMS AND ABBREVIATIONS

40 C.F.R.	Title 40 of the Code of Federal Regulations
ASD	Alternative Source Demonstration
CCR	coal combustion residuals
D12	Quarter 1, 2023 Detection Monitoring sampling event
D12R	Quarter 2, 2023 Detection Monitoring sampling event
D13	Quarter 3, 2023 Detection Monitoring sampling event
D13R	Quarter 4, 2023 Detection Monitoring sampling event
GWPS	groundwater protection standard
LF2	Landfill 2
NA	not applicable
NPP	Newton Power Plant
Ramboll	Ramboll Americas Engineering Solutions, Inc.
SAP	Sampling and Analysis Plan
SSI	statistically significant increase
TBD	to be determined



## EXECUTIVE SUMMARY

This report has been prepared to provide the information required by Title 40 of the Code of Federal Regulations (40 C.F.R.) § 257.90(e) for Landfill 2 (LF2) located at the Newton Power Plant (NPP) near Newton, Illinois.

Groundwater is being monitored at LF2 in accordance with the Detection Monitoring Program requirements specified in 40 C.F.R. § 257.94.

No changes were made to the monitoring system in 2023 (no wells were installed or decommissioned).

The following statistically significant increase (SSI) of 40 C.F.R. § 257 Appendix III parameter concentrations greater than background concentrations was reported in 2023:

- pH at well G231

An Alternative Source Demonstration (ASD) was completed for the SSI referenced above and LF2 remains in the Detection Monitoring Program.

## 1. INTRODUCTION

This report has been prepared by Ramboll Americas Engineering Solutions, Inc. (Ramboll) on behalf of Illinois Power Generating Company, to provide the information required by 40 C.F.R. § 257.90(e) for LF2 located at the NPP near Newton, Illinois.

In accordance with 40 C.F.R. § 257.90(e), the owner or operator of a coal combustion residuals (CCR) unit must prepare an Annual Groundwater Monitoring and Corrective Action Report for the preceding calendar year that documents the status of the Groundwater Monitoring and Corrective Action Program for the CCR unit (**Section 2**), summarizes key actions completed (**Section 3**), describes any problems encountered and actions to resolve the problems (**Section 4**), and projects key activities for the upcoming year (**Section 5**). At a minimum, the annual report must contain the following information, to the extent available:

1. A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit (**Figure 1**).
2. Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken (**Section 3**, paragraph 1).
3. In addition to all the monitoring data obtained under §§ 257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the Detection Monitoring or Assessment Monitoring Programs (**Section 3, Table A**).
4. A narrative discussion of any transition between monitoring programs (*e.g.*, the date and circumstances for transitioning from detection monitoring to Assessment Monitoring in addition to identifying the constituent(s) detected at a statistically significant increase relative to background levels) (**Section 3**).
5. Other information required to be included in the annual report as specified in §§ 257.90 through 257.98.
6. A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit (see **Executive Summary**). At a minimum, the summary must specify all of the following:
  - i. At the start of the current annual reporting period, whether the CCR unit was operating under the Detection Monitoring Program in §257.94 or the Assessment Monitoring Program in §257.95.
  - ii. At the end of the current annual reporting period, whether the CCR unit was operating under the Detection Monitoring Program in §257.94 or the Assessment Monitoring Program in §257.95.
  - iii. If it was determined that there was a statistically significant increase over background for one or more constituents listed in Appendix III of §257 pursuant to §257.94(e):
    - A. Identify those constituents listed in Appendix III of §257 and the names of the monitoring wells associated with such an increase.

- B. Provide the date when the Assessment Monitoring Program was initiated for the CCR unit.
- iv. If it was determined that there was a statistically significant level above the groundwater protection standard [GWPS] for one or more constituents listed in Appendix IV of §257 pursuant to §257.95(g) include all of the following:
  - A. Identify those constituents listed in Appendix IV of §257 and the names of the monitoring wells associated with such an increase.
  - B. Provide the date when the Assessment of Corrective Measures was initiated for the CCR unit.
  - C. Provide the date when the public meeting was held for the Assessment of Corrective Measures for the CCR unit.
  - D. Provide the date when the Assessment of Corrective Measures was completed for the CCR unit.
- v. Whether a remedy was selected pursuant to §257.97 during the current annual reporting period, and if so, the date of remedy selection.
- vi. Whether remedial activities were initiated or are ongoing pursuant to §257.98 during the current annual reporting period.

This report provides the required information for LF2 for calendar year 2023.

## **2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS**

No changes have occurred to the monitoring program status in calendar year 2023 and LF2 remains in the Detection Monitoring Program in accordance with 40 C.F.R. § 257.94.

### 3. KEY ACTIONS COMPLETED IN 2023

A summary of the samples collected from background and compliance monitoring wells in 2023 under the Detection Monitoring Program is included in **Table A** on the following page. The groundwater monitoring system, including the CCR unit and all background and compliance monitoring wells, is presented in **Figure 1**. A groundwater monitoring plan (GMP) was developed for LF2 in 2023; no changes were made to the monitoring system (Ramboll, 2023a).

One groundwater sample was collected from each background and compliance well during each monitoring event.<sup>1</sup> All samples were collected and analyzed in accordance with the Multi-Site Sampling and Analysis Plan (SAP) (Ramboll, 2023b).

Potentiometric surfaces for the quarterly sampling events are included in **Figures 2 and 3**. All monitoring data and analytical results obtained under 40 C.F.R. § 257.90 through 257.98 (as applicable) in 2023 are presented in **Tables 1 and 2**. All associated laboratory reports and field data sheets are included in **Appendix A**.

Analytical data were evaluated in accordance with the Multi-Site Statistical Analysis Plan (Ramboll, 2022a), the Multi-Site Quality Assurance Project Plan (Ramboll, 2022b), and the Multi-Site Data Management Plan (Ramboll, 2022c) to determine any SSIs of Appendix III parameters relative to background concentrations. SSIs are summarized in **Table A** and highlighted in **Table 2**. Statistical background values are provided in **Table 3**. A flow chart showing the statistical methodology for determination of background values is included as **Appendix B**.

Potential alternative sources were evaluated as outlined in the 40 C.F.R. § 257.94(e)(2). An ASD was completed in 2023 for the SSI summarized in **Table A**. The date the ASD was completed is also provided in **Table A**. The ASD was certified by a qualified professional engineer and is included in **Appendix C**. LF2 remains in the Detection Monitoring Program.

<sup>1</sup> Sampling was limited to G231 and G232 during the April 26, 2023 sampling event to confirm SSIs of select Appendix III parameters initially detected at concentrations greater than statistical background values in the preceding sampling event, as allowed by the Multi-Site Statistical Analysis Plan (Ramboll, 2022a). Additionally, compliance monitoring wells G06D, G202, and G230 were not sampled during the July 25 through July 27 and August 16, 2023 event due to being noted as dry. However, sampling of Appendix III parameters at G06D, G202, and G230 was completed during the October 11, 2023 sampling event.

**Table A. 2023 Detection Monitoring Program Summary**

Event ID	Sampling Dates	Analytical Data Receipt Date	SSI(s) Determination Date	SSI(s)	ASD Completion Date
D12 <sup>1, 2, 3</sup>	January 31 – February 2, 2023	March 14, 2023	June 12, 2023	pH at well G231	September 10, 2023
D12R <sup>4</sup>	April 26, 2023	June 22, 2023	NA	NA	NA
D13 <sup>1, 2, 3, 5</sup>	July 25 – July 27, and August 16, 2023	November 15, 2023	February 13, 2024	TBD	TBD
D13R <sup>3, 6</sup>	October 11, 2023	November 17, 2023	NA	NA	NA

**Notes:**

ASD: Alternative Source Demonstration

NA: not applicable

SSI: statistically significant increase

TBD: to be determined in 2024.

<sup>1</sup> The following background wells were sampled: G201, G208, G217D/R217D, G220, G222, G223, G224, G48MG.

<sup>2</sup> The following compliance wells were sampled: G06D, G202, G203, G230, G231, G232, and G233.

<sup>3</sup> Samples were analyzed for Appendix III parameters listed in 40 C.F.R. § 257.94(e).

<sup>4</sup> Groundwater sample analysis was limited to well G231 and G232 during the D12R sampling event to confirm SSIs of select Appendix III parameters initially detected at concentrations greater than statistical background values in the preceding sampling event, as allowed by the Multi-Site Statistical Analysis Plan.

<sup>5</sup> Groundwater samples were not collected from compliance wells G06D, G202, and G230 during the D13 event.

<sup>6</sup> Groundwater samples were only collected from compliance wells G06D, G202, and G230 during the D13R event.

## **4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS**

Monitoring wells G06D, G202, and G230 were noted as dry during the July and August, 2023 sampling event. These monitoring wells were revisited in October, 2023 and samples were obtained and analysed for Appendix III parameters listed in 40 C.F.R. § 257.94(e). Groundwater samples were collected and analyzed in accordance with the SAP and all data were accepted.

## 5. KEY ACTIVITIES PLANNED FOR 2024

The following key activities are planned for 2024:

- Continuation of the Detection Monitoring Program with semiannual sampling scheduled for the first and third quarters of 2024.
- Complete evaluation of analytical data from the compliance wells using background data to determine whether an SSI of Appendix III parameters detected at concentrations greater than background concentrations has occurred.
- If an SSI is identified, potential alternative sources (*i.e.*, a source other than the CCR unit caused the SSI or that the SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality) will be evaluated.
  - If an alternative source is identified to be the cause of the SSI, a written demonstration will be completed within 90 days of SSI determination and included in the 2024 Annual Groundwater Monitoring and Corrective Action Report.
  - If an alternative source(s) is not identified to be the cause of the SSI, the applicable requirements of 40 C.F.R. §§ 257.94 through 257.98 as may apply in 2024 (*e.g.*, Assessment Monitoring) will be met, including associated recordkeeping/notifications required by 40 C.F.R. §§ 257.105 through 257.108.



## 6. REFERENCES

Code of Federal Regulations, Title 40, Chapter I, Subchapter I, Part 257, Subpart D, Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, effective April 17, 2015. Accessed from URL <https://www.ecfr.gov/current/title-40/chapter-I/subchapter-I/part-257/subpart-D#page-top>

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022a. Multi-Site Statistical Analysis Plan, 40 C.F.R. § 257. December 28, 2022.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022b. Multi-Site Quality Assurance Project Plan. December 28, 2022.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022c. Multi-Site Data Management Plan. December 28, 2022.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2023a. Groundwater Monitoring Plan, Newton Power Plant, Newton Landfill 2, Newton, Illinois, Illinois Power Generating Company. March 27, 2023.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2023b. Multi-Site Sampling and Analysis Plan, Revision 1. October 10, 2023.

## **TABLES**

**TABLE 1**  
**GROUNDWATER ELEVATION DATA**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 NEWTON POWER PLANT  
 LANDFILL 2  
 NEWTON, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
G06D	Compliance	UA	01/30/2023	28.87	502.79
G06D	Compliance	UA	04/24/2023	28.92	502.74
G06D	Compliance	UA	07/26/2023	[Dry]	[Dry]
G06D	Compliance	UA	10/09/2023	28.30	503.36
G06D	Compliance	UA	11/09/2023	35.22	496.44
G48MG	Background	UA	01/30/2023	19.39	526.14
G48MG	Background	UA	04/24/2023	18.99	526.54
G48MG	Background	UA	07/24/2023	18.97	526.56
G48MG	Background	UA	10/09/2023	18.89	526.64
G48MG	Background	UA	11/08/2023	18.80	526.73
G201	Background	UA	01/30/2023	18.07	526.80
G201	Background	UA	04/24/2023	17.50	527.37
G201	Background	UA	07/24/2023	17.43	527.44
G201	Background	UA	10/09/2023	7.55	537.32
G201	Background	UA	11/08/2023	17.45	527.42
G202	Compliance	UA	01/30/2023	48.20	491.49
G202	Compliance	UA	04/24/2023	47.84	491.85
G202	Compliance	UA	07/24/2023	Dry	Dry
G202	Compliance	UA	10/09/2023	Dry	Dry
G202	Compliance	UA	11/09/2023	48.83	490.86
G203	Compliance	UA	01/30/2023	44.57	488.56
G203	Compliance	UA	04/24/2023	41.39	491.74
G203	Compliance	UA	07/25/2023	42.23	490.90
G203	Compliance	UA	10/09/2023	41.75	491.38
G203	Compliance	UA	11/09/2023	42.29	490.84
G208	Background	UA	01/30/2023	24.20	510.83
G208	Background	UA	04/24/2023	24.02	511.01
G208	Background	UA	07/25/2023	23.61	511.42
G208	Background	UA	10/09/2023	25.50	509.53
G208	Background	UA	11/09/2023	24.85	510.18
G220	Background	UA	01/30/2023	17.95	516.68
G220	Background	UA	04/24/2023	17.03	517.60
G220	Background	UA	07/25/2023	17.79	516.84
G220	Background	UA	10/09/2023	18.40	516.23
G220	Background	UA	11/09/2023	18.61	516.02
G222	Background	UA	01/30/2023	16.77	517.55
G222	Background	UA	04/24/2023	15.13	519.19
G222	Background	UA	07/25/2023	15.24	519.08
G222	Background	UA	10/09/2023	16.94	517.38
G222	Background	UA	11/09/2023	17.37	516.95
G223	Background	UA	01/30/2023	33.27	500.33
G223	Background	UA	04/24/2023	33.13	500.47
G223	Background	UA	07/25/2023	32.78	500.82
G223	Background	UA	10/09/2023	41.91	491.69
G223	Background	UA	11/09/2023	33.09	500.51
G224	Background	UA	01/30/2023	42.86	491.45

**TABLE 1**  
**GROUNDWATER ELEVATION DATA**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 NEWTON POWER PLANT  
 LANDFILL 2  
 NEWTON, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
G224	Background	UA	04/24/2023	42.56	491.75
G224	Background	UA	07/25/2023	42.94	491.37
G224	Background	UA	10/09/2023	42.84	491.47
G224	Background	UA	11/09/2023	43.39	490.92
G230	Compliance	UA	01/30/2023	48.31	491.36
G230	Compliance	UA	04/24/2023	47.99	491.68
G230	Compliance	UA	07/24/2023	48.42	491.25
G230	Compliance	UA	10/09/2023	48.40	491.27
G230	Compliance	UA	11/09/2023	48.94	490.73
G231	Compliance	UA	01/30/2023	47.71	491.35
G231	Compliance	UA	04/24/2023	47.36	491.70
G231	Compliance	UA	07/24/2023	47.77	491.29
G231	Compliance	UA	10/09/2023	47.77	491.29
G231	Compliance	UA	11/09/2023	48.32	490.74
G232	Compliance	UA	01/30/2023	46.06	491.35
G232	Compliance	UA	04/24/2023	45.73	491.68
G232	Compliance	UA	07/24/2023	46.13	491.28
G232	Compliance	UA	10/09/2023	46.12	491.29
G232	Compliance	UA	11/09/2023	46.68	490.73
G233	Compliance	UA	01/30/2023	41.89	491.47
G233	Compliance	UA	04/24/2023	41.67	491.69
G233	Compliance	UA	07/25/2023	44.33	489.03
G233	Compliance	UA	10/12/2023	[42.03]	[491.33]
G233	Compliance	UA	11/09/2023	42.60	490.76
R217D	Background	UA	01/30/2023	19.58	518.60
R217D	Background	UA	04/24/2023	19.15	519.03
R217D	Background	UA	07/26/2023	[19.31]	[518.87]
R217D	Background	UA	10/09/2023	19.47	518.71
R217D	Background	UA	11/09/2023	19.60	518.58

**Notes:**  
 Only wells with groundwater elevations measured are included.  
 BMP = below measuring point  
 Bracketing [ ] indicates that the measurement was obtained outside of the episodic depth to groundwater measurements time frame.  
 NAVD88 = North American Vertical Datum of 1988  
 Monitored Unit Abbreviations:  
 UA = uppermost aquifer

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**TABLE 2**  
**ANALYTICAL RESULTS - APPENDIX III PARAMETERS**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
NEWTON POWER PLANT  
LANDFILL 2  
NEWTON, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G48MG	UA	Background	02/02/2023	D12	Boron, total	mg/L	0.0990	NA	NA
G48MG	UA	Background	07/27/2023	D13	Boron, total	mg/L	0.0994	NA	NA
G48MG	UA	Background	02/02/2023	D12	Calcium, total	mg/L	77.0	NA	NA
G48MG	UA	Background	07/27/2023	D13	Calcium, total	mg/L	49.5	NA	NA
G48MG	UA	Background	02/02/2023	D12	Chloride, total	mg/L	24.0	NA	NA
G48MG	UA	Background	07/27/2023	D13	Chloride, total	mg/L	29.0	NA	NA
G48MG	UA	Background	02/02/2023	D12	Fluoride, total	mg/L	0.475	NA	NA
G48MG	UA	Background	07/27/2023	D13	Fluoride, total	mg/L	0.570	NA	NA
G48MG	UA	Background	02/02/2023	D12	pH (field)	SU	7.4	NA	NA
G48MG	UA	Background	07/27/2023	D13	pH (field)	SU	7.3	NA	NA
G48MG	UA	Background	02/02/2023	D12	Sulfate, total	mg/L	2.30	NA	NA
G48MG	UA	Background	07/27/2023	D13	Sulfate, total	mg/L	6 U	NA	NA
G48MG	UA	Background	02/02/2023	D12	Total Dissolved Solids	mg/L	510	NA	NA
G48MG	UA	Background	07/27/2023	D13	Total Dissolved Solids	mg/L	525	NA	NA
G201	UA	Background	02/02/2023	D12	Boron, total	mg/L	0.130	NA	NA
G201	UA	Background	07/27/2023	D13	Boron, total	mg/L	0.131	NA	NA
G201	UA	Background	02/02/2023	D12	Calcium, total	mg/L	180	NA	NA
G201	UA	Background	07/27/2023	D13	Calcium, total	mg/L	161	NA	NA
G201	UA	Background	02/02/2023	D12	Chloride, total	mg/L	4.40 B	NA	NA
G201	UA	Background	07/27/2023	D13	Chloride, total	mg/L	5.00	NA	NA
G201	UA	Background	02/02/2023	D12	Fluoride, total	mg/L	0.757	NA	NA
G201	UA	Background	07/27/2023	D13	Fluoride, total	mg/L	0.880	NA	NA
G201	UA	Background	02/02/2023	D12	pH (field)	SU	7.3	NA	NA
G201	UA	Background	07/27/2023	D13	pH (field)	SU	7.4	NA	NA
G201	UA	Background	02/02/2023	D12	Sulfate, total	mg/L	410	NA	NA
G201	UA	Background	07/27/2023	D13	Sulfate, total	mg/L	534	NA	NA
G201	UA	Background	02/02/2023	D12	Total Dissolved Solids	mg/L	960	NA	NA
G201	UA	Background	07/27/2023	D13	Total Dissolved Solids	mg/L	920	NA	NA
G208	UA	Background	02/01/2023	D12	Boron, total	mg/L	0.180	NA	NA
G208	UA	Background	07/25/2023	D13	Boron, total	mg/L	0.191	NA	NA
G208	UA	Background	02/01/2023	D12	Calcium, total	mg/L	96.0	NA	NA
G208	UA	Background	07/25/2023	D13	Calcium, total	mg/L	94.9	NA	NA
G208	UA	Background	02/01/2023	D12	Chloride, total	mg/L	48.0	NA	NA
G208	UA	Background	07/25/2023	D13	Chloride, total	mg/L	49.0	NA	NA
G208	UA	Background	02/01/2023	D12	Fluoride, total	mg/L	1.11	NA	NA
G208	UA	Background	07/25/2023	D13	Fluoride, total	mg/L	1.34	NA	NA
G208	UA	Background	02/01/2023	D12	pH (field)	SU	6.9	NA	NA
G208	UA	Background	07/25/2023	D13	pH (field)	SU	7.2	NA	NA
G208	UA	Background	02/01/2023	D12	Sulfate, total	mg/L	0.24 J	NA	NA
G208	UA	Background	07/25/2023	D13	Sulfate, total	mg/L	13.0 J+	NA	NA
G208	UA	Background	02/01/2023	D12	Total Dissolved Solids	mg/L	740	NA	NA
G208	UA	Background	07/25/2023	D13	Total Dissolved Solids	mg/L	745	NA	NA
G220	UA	Background	02/01/2023	D12	Boron, total	mg/L	0.250	NA	NA
G220	UA	Background	07/26/2023	D13	Boron, total	mg/L	0.231	NA	NA
G220	UA	Background	02/01/2023	D12	Calcium, total	mg/L	100	NA	NA
G220	UA	Background	07/26/2023	D13	Calcium, total	mg/L	92.7	NA	NA

**TABLE 2**  
**ANALYTICAL RESULTS - APPENDIX III PARAMETERS**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
NEWTON POWER PLANT  
LANDFILL 2  
NEWTON, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G220	UA	Background	02/01/2023	D12	Chloride, total	mg/L	37.0	NA	NA
G220	UA	Background	07/26/2023	D13	Chloride, total	mg/L	39.0	NA	NA
G220	UA	Background	02/01/2023	D12	Fluoride, total	mg/L	1.25	NA	NA
G220	UA	Background	07/26/2023	D13	Fluoride, total	mg/L	1.44	NA	NA
G220	UA	Background	02/01/2023	D12	pH (field)	SU	7.4	NA	NA
G220	UA	Background	07/26/2023	D13	pH (field)	SU	6.7	NA	NA
G220	UA	Background	02/01/2023	D12	Sulfate, total	mg/L	0.52 J	NA	NA
G220	UA	Background	07/26/2023	D13	Sulfate, total	mg/L	15.0 J+	NA	NA
G220	UA	Background	02/01/2023	D12	Total Dissolved Solids	mg/L	780	NA	NA
G220	UA	Background	07/26/2023	D13	Total Dissolved Solids	mg/L	745	NA	NA
G222	UA	Background	02/01/2023	D12	Boron, total	mg/L	0.220	NA	NA
G222	UA	Background	07/26/2023	D13	Boron, total	mg/L	0.209	NA	NA
G222	UA	Background	02/01/2023	D12	Calcium, total	mg/L	130	NA	NA
G222	UA	Background	07/26/2023	D13	Calcium, total	mg/L	121	NA	NA
G222	UA	Background	02/01/2023	D12	Chloride, total	mg/L	62.0	NA	NA
G222	UA	Background	07/26/2023	D13	Chloride, total	mg/L	68.0	NA	NA
G222	UA	Background	02/01/2023	D12	Fluoride, total	mg/L	0.966	NA	NA
G222	UA	Background	07/26/2023	D13	Fluoride, total	mg/L	1.16	NA	NA
G222	UA	Background	02/01/2023	D12	pH (field)	SU	7.4	NA	NA
G222	UA	Background	07/26/2023	D13	pH (field)	SU	6.9	NA	NA
G222	UA	Background	02/01/2023	D12	Sulfate, total	mg/L	110	NA	NA
G222	UA	Background	07/26/2023	D13	Sulfate, total	mg/L	149	NA	NA
G222	UA	Background	02/01/2023	D12	Total Dissolved Solids	mg/L	1,100	NA	NA
G222	UA	Background	07/26/2023	D13	Total Dissolved Solids	mg/L	1,020	NA	NA
G223	UA	Background	02/01/2023	D12	Boron, total	mg/L	0.100	NA	NA
G223	UA	Background	07/26/2023	D13	Boron, total	mg/L	0.215	NA	NA
G223	UA	Background	02/01/2023	D12	Calcium, total	mg/L	360	NA	NA
G223	UA	Background	07/26/2023	D13	Calcium, total	mg/L	301	NA	NA
G223	UA	Background	02/01/2023	D12	Chloride, total	mg/L	310	NA	NA
G223	UA	Background	07/26/2023	D13	Chloride, total	mg/L	325	NA	NA
G223	UA	Background	02/01/2023	D12	Fluoride, total	mg/L	0.581	NA	NA
G223	UA	Background	07/26/2023	D13	Fluoride, total	mg/L	0.800	NA	NA
G223	UA	Background	02/01/2023	D12	pH (field)	SU	6.6	NA	NA
G223	UA	Background	07/26/2023	D13	pH (field)	SU	6.6	NA	NA
G223	UA	Background	02/01/2023	D12	Sulfate, total	mg/L	720	NA	NA
G223	UA	Background	07/26/2023	D13	Sulfate, total	mg/L	694	NA	NA
G223	UA	Background	02/01/2023	D12	Total Dissolved Solids	mg/L	2,400	NA	NA
G223	UA	Background	07/26/2023	D13	Total Dissolved Solids	mg/L	2,400	NA	NA
G224	UA	Background	01/31/2023	D12	Boron, total	mg/L	0.0880	NA	NA
G224	UA	Background	07/26/2023	D13	Boron, total	mg/L	0.0874	NA	NA
G224	UA	Background	01/31/2023	D12	Calcium, total	mg/L	130	NA	NA
G224	UA	Background	07/26/2023	D13	Calcium, total	mg/L	129	NA	NA
G224	UA	Background	01/31/2023	D12	Chloride, total	mg/L	51.0	NA	NA
G224	UA	Background	07/26/2023	D13	Chloride, total	mg/L	48.0	NA	NA
G224	UA	Background	01/31/2023	D12	Fluoride, total	mg/L	0.409	NA	NA
G224	UA	Background	07/26/2023	D13	Fluoride, total	mg/L	0.430	NA	NA



**TABLE 2**  
**ANALYTICAL RESULTS - APPENDIX III PARAMETERS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 NEWTON POWER PLANT  
 LANDFILL 2  
 NEWTON, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G224	UA	Background	01/31/2023	D12	pH (field)	SU	7.7	NA	NA
G224	UA	Background	07/26/2023	D13	pH (field)	SU	7.1	NA	NA
G224	UA	Background	01/31/2023	D12	Sulfate, total	mg/L	120	NA	NA
G224	UA	Background	07/26/2023	D13	Sulfate, total	mg/L	164	NA	NA
G224	UA	Background	01/31/2023	D12	Total Dissolved Solids	mg/L	760	NA	NA
G224	UA	Background	07/26/2023	D13	Total Dissolved Solids	mg/L	705	NA	NA
R217D	UA	Background	01/31/2023	D12	Boron, total	mg/L	0.190	NA	NA
R217D	UA	Background	--	D12	Boron, total	mg/L	--	NA	NA
R217D	UA	Background	07/26/2023	D13	Boron, total	mg/L	0.151	NA	NA
R217D	UA	Background	01/31/2023	D12	Calcium, total	mg/L	640	NA	NA
R217D	UA	Background	--	D12	Calcium, total	mg/L	--	NA	NA
R217D	UA	Background	07/26/2023	D13	Calcium, total	mg/L	532	NA	NA
R217D	UA	Background	01/31/2023	D12	Chloride, total	mg/L	110	NA	NA
R217D	UA	Background	--	D12	Chloride, total	mg/L	--	NA	NA
R217D	UA	Background	07/26/2023	D13	Chloride, total	mg/L	119	NA	NA
R217D	UA	Background	01/31/2023	D12	Fluoride, total	mg/L	0.251	NA	NA
R217D	UA	Background	--	D12	Fluoride, total	mg/L	--	NA	NA
R217D	UA	Background	07/26/2023	D13	Fluoride, total	mg/L	0.260	NA	NA
R217D	UA	Background	01/31/2023	D12	pH (field)	SU	6.4	NA	NA
R217D	UA	Background	--	D12	pH (field)	SU	--	NA	NA
R217D	UA	Background	07/26/2023	D13	pH (field)	SU	6.4	NA	NA
R217D	UA	Background	01/31/2023	D12	Sulfate, total	mg/L	2,000	NA	NA
R217D	UA	Background	--	D12	Sulfate, total	mg/L	--	NA	NA
R217D	UA	Background	07/26/2023	D13	Sulfate, total	mg/L	2,030	NA	NA
R217D	UA	Background	--	D12	Total Dissolved Solids	mg/L	--	NA	NA
R217D	UA	Background	02/01/2023	D12	Total Dissolved Solids	mg/L	3,600	NA	NA
R217D	UA	Background	07/26/2023	D13	Total Dissolved Solids	mg/L	3,620	NA	NA
G06D	UA	Compliance	02/01/2023	D12	Boron, total	mg/L	0.180	0.317	No Exceedance
G06D	UA	Compliance	--	D13	Boron, total	mg/L	--	0.317	TBD
G06D	UA	Compliance	10/11/2023	D13R	Boron, total	mg/L	0.200	0.317	TBD
G06D	UA	Compliance	02/01/2023	D12	Calcium, total	mg/L	120	750	No Exceedance
G06D	UA	Compliance	--	D13	Calcium, total	mg/L	--	750	TBD
G06D	UA	Compliance	10/11/2023	D13R	Calcium, total	mg/L	117	750	TBD
G06D	UA	Compliance	02/01/2023	D12	Chloride, total	mg/L	52.0	310	No Exceedance
G06D	UA	Compliance	--	D13	Chloride, total	mg/L	--	310	TBD
G06D	UA	Compliance	10/11/2023	D13R	Chloride, total	mg/L	50.0	310	TBD
G06D	UA	Compliance	02/01/2023	D12	Fluoride, total	mg/L	0.708	1.48	No Exceedance
G06D	UA	Compliance	--	D13	Fluoride, total	mg/L	--	1.48	TBD
G06D	UA	Compliance	10/11/2023	D13R	Fluoride, total	mg/L	0.920	1.48	TBD
G06D	UA	Compliance	02/01/2023	D12	pH (field)	SU	7.2	6.6/7.7	No Exceedance
G06D	UA	Compliance	--	D13	pH (field)	SU	--	6.6/7.7	TBD
G06D	UA	Compliance	10/11/2023	D13R	pH (field)	SU	7.2	6.6/7.7	TBD
G06D	UA	Compliance	02/01/2023	D12	Sulfate, total	mg/L	2.10	2200	No Exceedance
G06D	UA	Compliance	--	D13	Sulfate, total	mg/L	--	2200	TBD
G06D	UA	Compliance	10/11/2023	D13R	Sulfate, total	mg/L	11.0	2200	TBD
G06D	UA	Compliance	02/01/2023	D12	Total Dissolved Solids	mg/L	850	4100	No Exceedance

**TABLE 2**  
**ANALYTICAL RESULTS - APPENDIX III PARAMETERS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 NEWTON POWER PLANT  
 LANDFILL 2  
 NEWTON, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G06D	UA	Compliance	--	D13	Total Dissolved Solids	mg/L	--	4100	TBD
G06D	UA	Compliance	10/11/2023	D13R	Total Dissolved Solids	mg/L	840	4100	TBD
G202	UA	Compliance	02/01/2023	D12	Boron, total	mg/L	0.110	0.317	No Exceedance
G202	UA	Compliance	--	D13	Boron, total	mg/L	--	0.317	TBD
G202	UA	Compliance	10/11/2023	D13R	Boron, total	mg/L	0.113	0.317	TBD
G202	UA	Compliance	02/01/2023	D12	Calcium, total	mg/L	110	750	No Exceedance
G202	UA	Compliance	--	D13	Calcium, total	mg/L	--	750	TBD
G202	UA	Compliance	10/11/2023	D13R	Calcium, total	mg/L	123	750	TBD
G202	UA	Compliance	02/01/2023	D12	Chloride, total	mg/L	56.0	310	No Exceedance
G202	UA	Compliance	--	D13	Chloride, total	mg/L	--	310	TBD
G202	UA	Compliance	10/11/2023	D13R	Chloride, total	mg/L	55.0	310	TBD
G202	UA	Compliance	02/01/2023	D12	Fluoride, total	mg/L	0.421	1.48	No Exceedance
G202	UA	Compliance	--	D13	Fluoride, total	mg/L	--	1.48	TBD
G202	UA	Compliance	10/11/2023	D13R	Fluoride, total	mg/L	0.540	1.48	TBD
G202	UA	Compliance	02/01/2023	D12	pH (field)	SU	7.7	6.6/7.7	No Exceedance
G202	UA	Compliance	--	D13	pH (field)	SU	--	6.6/7.7	TBD
G202	UA	Compliance	10/11/2023	D13R	pH (field)	SU	7.3	6.6/7.7	TBD
G202	UA	Compliance	02/01/2023	D12	Sulfate, total	mg/L	96.0	2200	No Exceedance
G202	UA	Compliance	--	D13	Sulfate, total	mg/L	--	2200	TBD
G202	UA	Compliance	10/11/2023	D13R	Sulfate, total	mg/L	109	2200	TBD
G202	UA	Compliance	02/01/2023	D12	Total Dissolved Solids	mg/L	800	4100	No Exceedance
G202	UA	Compliance	--	D13	Total Dissolved Solids	mg/L	--	4100	TBD
G202	UA	Compliance	10/11/2023	D13R	Total Dissolved Solids	mg/L	754	4100	TBD
G203	UA	Compliance	02/01/2023	D12	Boron, total	mg/L	0.0830	0.317	No Exceedance
G203	UA	Compliance	08/01/2023	D13	Boron, total	mg/L	0.0984	0.317	TBD
G203	UA	Compliance	02/01/2023	D12	Calcium, total	mg/L	130	750	No Exceedance
G203	UA	Compliance	08/01/2023	D13	Calcium, total	mg/L	171	750	TBD
G203	UA	Compliance	02/01/2023	D12	Chloride, total	mg/L	52.0	310	No Exceedance
G203	UA	Compliance	08/01/2023	D13	Chloride, total	mg/L	41.0	310	TBD
G203	UA	Compliance	02/01/2023	D12	Fluoride, total	mg/L	0.319	1.48	No Exceedance
G203	UA	Compliance	08/01/2023	D13	Fluoride, total	mg/L	0.420	1.48	TBD
G203	UA	Compliance	02/01/2023	D12	pH (field)	SU	7.5	6.6/7.7	No Exceedance
G203	UA	Compliance	08/01/2023	D13	pH (field)	SU	7.3	6.6/7.7	TBD
G203	UA	Compliance	02/01/2023	D12	Sulfate, total	mg/L	140	2200	No Exceedance
G203	UA	Compliance	08/01/2023	D13	Sulfate, total	mg/L	353	2200	TBD
G203	UA	Compliance	02/01/2023	D12	Total Dissolved Solids	mg/L	800	4100	No Exceedance
G203	UA	Compliance	08/01/2023	D13	Total Dissolved Solids	mg/L	985	4100	TBD
G230	UA	Compliance	02/01/2023	D12	Boron, total	mg/L	0.140	0.317	No Exceedance
G230	UA	Compliance	--	D13	Boron, total	mg/L	--	0.317	TBD
G230	UA	Compliance	10/11/2023	D13R	Boron, total	mg/L	0.173	0.317	TBD
G230	UA	Compliance	02/01/2023	D12	Calcium, total	mg/L	160	750	No Exceedance
G230	UA	Compliance	--	D13	Calcium, total	mg/L	--	750	TBD
G230	UA	Compliance	10/11/2023	D13R	Calcium, total	mg/L	205	750	TBD
G230	UA	Compliance	02/01/2023	D12	Chloride, total	mg/L	120	310	No Exceedance
G230	UA	Compliance	--	D13	Chloride, total	mg/L	--	310	TBD
G230	UA	Compliance	10/11/2023	D13R	Chloride, total	mg/L	66.0	310	TBD



**TABLE 2**  
**ANALYTICAL RESULTS - APPENDIX III PARAMETERS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 NEWTON POWER PLANT  
 LANDFILL 2  
 NEWTON, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G230	UA	Compliance	02/01/2023	D12	Fluoride, total	mg/L	0.521	1.48	No Exceedance
G230	UA	Compliance	--	D13	Fluoride, total	mg/L	--	1.48	TBD
G230	UA	Compliance	10/11/2023	D13R	Fluoride, total	mg/L	0.510	1.48	TBD
G230	UA	Compliance	02/01/2023	D12	pH (field)	SU	7.2	6.6/7.7	No Exceedance
G230	UA	Compliance	--	D13	pH (field)	SU	--	6.6/7.7	TBD
G230	UA	Compliance	10/11/2023	D13R	pH (field)	SU	7.2	6.6/7.7	TBD
G230	UA	Compliance	02/01/2023	D12	Sulfate, total	mg/L	460	2200	No Exceedance
G230	UA	Compliance	--	D13	Sulfate, total	mg/L	--	2200	TBD
G230	UA	Compliance	10/11/2023	D13R	Sulfate, total	mg/L	275	2200	TBD
G230	UA	Compliance	02/01/2023	D12	Total Dissolved Solids	mg/L	1,200	4100	No Exceedance
G230	UA	Compliance	--	D13	Total Dissolved Solids	mg/L	--	4100	TBD
G230	UA	Compliance	10/11/2023	D13R	Total Dissolved Solids	mg/L	1,010	4100	TBD
G231	UA	Compliance	02/01/2023	D12	Boron, total	mg/L	0.100	0.317	No Exceedance
G231	UA	Compliance	08/16/2023	D13	Boron, total	mg/L	0.0906	0.317	TBD
G231	UA	Compliance	02/01/2023	D12	Calcium, total	mg/L	130	750	No Exceedance
G231	UA	Compliance	08/16/2023	D13	Calcium, total	mg/L	115	750	TBD
G231	UA	Compliance	02/01/2023	D12	Chloride, total	mg/L	69.0	310	No Exceedance
G231	UA	Compliance	08/16/2023	D13	Chloride, total	mg/L	54.0	310	TBD
G231	UA	Compliance	02/01/2023	D12	Fluoride, total	mg/L	0.515	1.48	No Exceedance
G231	UA	Compliance	08/16/2023	D13	Fluoride, total	mg/L	0.440	1.48	TBD
G231	UA	Compliance	02/01/2023	D12	pH (field)	SU	7.8	6.6/7.7	Determined
G231	UA	Compliance	04/26/2023	D12R	pH (field)	SU	7.8	6.6/7.7	Determined
G231	UA	Compliance	08/16/2023	D13	pH (field)	SU	7.4	6.6/7.7	TBD
G231	UA	Compliance	02/01/2023	D12	Sulfate, total	mg/L	190	2200	No Exceedance
G231	UA	Compliance	08/16/2023	D13	Sulfate, total	mg/L	110	2200	TBD
G231	UA	Compliance	02/01/2023	D12	Total Dissolved Solids	mg/L	800	4100	No Exceedance
G231	UA	Compliance	08/16/2023	D13	Total Dissolved Solids	mg/L	695	4100	TBD
G232	UA	Compliance	02/01/2023	D12	Boron, total	mg/L	0.130	0.317	No Exceedance
G232	UA	Compliance	08/16/2023	D13	Boron, total	mg/L	0.0934	0.317	TBD
G232	UA	Compliance	02/01/2023	D12	Calcium, total	mg/L	110	750	No Exceedance
G232	UA	Compliance	08/16/2023	D13	Calcium, total	mg/L	122	750	TBD
G232	UA	Compliance	02/01/2023	D12	Chloride, total	mg/L	97.0	310	No Exceedance
G232	UA	Compliance	08/16/2023	D13	Chloride, total	mg/L	48.0	310	TBD
G232	UA	Compliance	02/01/2023	D12	Fluoride, total	mg/L	0.569	1.48	No Exceedance
G232	UA	Compliance	08/16/2023	D13	Fluoride, total	mg/L	0.440	1.48	TBD
G232	UA	Compliance	02/01/2023	D12	pH (field)	SU	7.8	6.6/7.7	Determined
G232	UA	Compliance	04/26/2023	D12R	pH (field)	SU	7.7	6.6/7.7	No Exceedance
G232	UA	Compliance	08/16/2023	D13	pH (field)	SU	7.4	6.6/7.7	TBD
G232	UA	Compliance	02/01/2023	D12	Sulfate, total	mg/L	340	2200	No Exceedance
G232	UA	Compliance	08/16/2023	D13	Sulfate, total	mg/L	126	2200	TBD
G232	UA	Compliance	02/01/2023	D12	Total Dissolved Solids	mg/L	1,000	4100	No Exceedance
G232	UA	Compliance	08/16/2023	D13	Total Dissolved Solids	mg/L	670	4100	TBD
G233	UA	Compliance	02/01/2023	D12	Boron, total	mg/L	0.130	0.317	No Exceedance
G233	UA	Compliance	07/25/2023	D13	Boron, total	mg/L	0.0868	0.317	TBD
G233	UA	Compliance	02/01/2023	D12	Calcium, total	mg/L	210	750	No Exceedance
G233	UA	Compliance	07/25/2023	D13	Calcium, total	mg/L	111	750	TBD

**TABLE 2**  
**ANALYTICAL RESULTS - APPENDIX III PARAMETERS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 NEWTON POWER PLANT  
 LANDFILL 2  
 NEWTON, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G233	UA	Compliance	02/01/2023	D12	Chloride, total	mg/L	39.0	310	No Exceedance
G233	UA	Compliance	07/25/2023	D13	Chloride, total	mg/L	40.0	310	TBD
G233	UA	Compliance	02/01/2023	D12	Fluoride, total	mg/L	0.384	1.48	No Exceedance
G233	UA	Compliance	07/25/2023	D13	Fluoride, total	mg/L	0.560	1.48	TBD
G233	UA	Compliance	02/01/2023	D12	pH (field)	SU	7.3	6.6/7.7	No Exceedance
G233	UA	Compliance	07/25/2023	D13	pH (field)	SU	7.0	6.6/7.7	TBD
G233	UA	Compliance	02/01/2023	D12	Sulfate, total	mg/L	530	2200	No Exceedance
G233	UA	Compliance	07/25/2023	D13	Sulfate, total	mg/L	283	2200	TBD
G233	UA	Compliance	02/01/2023	D12	Total Dissolved Solids	mg/L	1,500	4100	No Exceedance
G233	UA	Compliance	07/25/2023	D13	Total Dissolved Solids	mg/L	850	4100	TBD

**Notes:**

- = no data available

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

ID = identification

mg/L = milligrams per liter

NA = not applicable

R = resample

Statistically Significant Increase (SSI) Type:

TBD: To be determined in 2024.

No Exceedance: No exceedance of the background.

Determined: An exceedance was determined without comparison to a resample.

SU = Standard Units

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

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

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.

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**TABLE 3**  
**STATISTICAL BACKGROUND VALUES**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 NEWTON POWER PLANT  
 LANDFILL 2  
 NEWTON, IL

Parameter	Date Range	Sample Count	Percent Non-Detects	Statistical Calculation	Statistical Background Value (LPL/UPL)
Boron (mg/L)	02/19/2019 - 08/17/2022	70	0	Parametric UPL	0.317
Calcium (mg/L)	02/19/2019 - 08/17/2022	66	0	Non-Parametric UPL	750
Chloride (mg/L)	02/19/2019 - 08/17/2022	69	0	Non-Parametric UPL	310
Fluoride (mg/L)	02/19/2019 - 08/17/2022	71	3	Parametric UPL	1.48
pH (field) (SU)	02/19/2019 - 08/17/2022	75	0	Parametric LPL/UPL	6.6/7.7
Sulfate (mg/L)	02/19/2019 - 08/17/2022	65	8	Non-Parametric UPL	2200
Total Dissolved Solids (mg/L)	02/19/2019 - 08/17/2022	68	0	Non-Parametric UPL	4100

**Notes:**  
 LPL = lower prediction limit (applicable for pH only)  
 mg/L = milligrams per liter  
 SU = standard units  
 UPL = upper prediction limit

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## FIGURES





- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE



**MONITORING WELL LOCATION MAP**

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 LANDFILL 2  
 NEWTON POWER PLANT  
 NEWTON, ILLINOIS

**FIGURE 1**

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.







- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- LEACHATE WELL
- PORE WATER WELL
- STAFF GAGE, CCR UNIT
- STAFF GAGE, LAKE
- GROUNDWATER ELEVATION CONTOUR (5-FT CONTOUR INTERVAL, NAVD88)
- - - INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE

**NOTES:**  
 1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.  
 2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)



**POTENTIOMETRIC SURFACE MAP  
 JANUARY 30, 2023**

**2023 ANNUAL GROUNDWATER MONITORING  
 AND CORRECTIVE ACTION REPORT  
 LANDFILL PHASE 2  
 NEWTON POWER PLANT  
 NEWTON, ILLINOIS**

**FIGURE 2**







- COMPLIANCE MONITORING
- BACKGROUND MONITORING
- MONITORING WELL
- PORE WATER WELL
- LEACHATE WELL
- STAFF GAGE, CCR UNIT
- STAFF GAGE, LAKE
- GROUNDWATER ELEVATION CONTOUR (5-FT CONTOUR INTERVAL, NAVD88)
- - - INFERRED GROUNDWATER ELEVATION
- GROUNDWATER FLOW
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE

**NOTES:**

1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATIONS IN BRACKETS WERE OBTAINED OUTSIDE OF THE 24 HOUR PERIOD FROM INITIATION OF DEPTH TO GROUNDWATER MEASUREMENTS BUT WITHIN THE SAME SAMPLING EVENT.
3. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)



**POTENTIOMETRIC SURFACE MAP  
JULY 24-25, 2023**

**2023 ANNUAL GROUNDWATER MONITORING  
AND CORRECTIVE ACTION REPORT  
LANDFILL PHASE 2  
NEWTON POWER PLANT  
NEWTON, ILLINOIS**

**FIGURE 3**





**APPENDIX A**  
**LABORATORY REPORTS AND FIELD DATA SHEETS**





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

March 14, 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    GB00256

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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
YES	Short hold time analysis
YES	Current PDC COC submitted
YES	Case narrative provided



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Work Order GB00423

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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
YES	Short hold time analysis
YES	Current PDC COC submitted
YES	Case narrative provided



**Case Narrative**

G108, G110 and G217d - wells no longer exist

L203 - cap frozen, unable to open

M26-1 - frozen

MW-31s, MW-35d and MW35s - unable to open, casing has sunk into ground

L301, L302 - panel screen not working

SG02 - unable to find

Revised Report - added missing Cr dissolved results, removed Cr total and Mn total. Added missing SO4 MSD. Corrected the unsigned coc forms. The field calibration forms for 1/31/23 and 2/1/23 are missing DO (saturaton) value. The result was omitted from these forms and we are unable to retrieve data.

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**ANALYTICAL RESULTS**

**Sample:** GB00256-01  
**Name:** MW43D  
**Matrix:** Ground Water - Grab

**Sampled:** 02/01/23 11:17  
**Received:** 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	49	mg/L		02/10/23 03:53	10	10	02/10/23 03:53	LAM	EPA 300.0 REV 2.1
Sulfate	1700	mg/L		02/10/23 04:12	250	250	02/10/23 04:12	LAM	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	7.35	Feet		02/01/23 11:17	1		02/01/23 11:17	FIELD	Field*
Dissolved oxygen, Field	2.8	mg/L		02/01/23 11:17	1		02/01/23 11:17	FIELD	Field*
Oxidation Reduction Potential	48.0	mV		02/01/23 11:17	1	-500	02/01/23 11:17	FIELD	Field*
pH, Field Measured	6.81	pH Units		02/01/23 11:17	1		02/01/23 11:17	FIELD	Field*
Specific Conductance, Field Measured	3310	umhos/cm		02/01/23 11:17	1		02/01/23 11:17	FIELD	Field*
Temperature, Field Measured	11.0	°C		02/01/23 11:17	1		02/01/23 11:17	FIELD	Field*
Turbidity, Field Measured	1000	NTU		02/01/23 11:17	1	0.00	02/01/23 11:17	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	400	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Fluoride	< 0.250	mg/L		02/15/23 13:47	1	0.250	02/15/23 13:47	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	3200	mg/L		02/02/23 10:21	1	26	02/02/23 12:19	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Boron	130	ug/L		02/02/23 08:53	5	10	02/09/23 10:54	JMW	EPA 6020A
Calcium	640	mg/L		02/02/23 08:53	100	4.0	02/08/23 09:04	JMW	EPA 6020A
Magnesium	280	mg/L		02/02/23 08:53	5	0.10	02/08/23 08:28	JMW	EPA 6020A
Potassium	7.1	mg/L		02/02/23 08:53	5	0.10	02/08/23 08:28	JMW	EPA 6020A
Sodium	150	mg/L		02/02/23 08:53	5	0.10	02/08/23 08:28	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00256-02  
**Name:** R217D  
**Matrix:** Ground Water - Grab

**Sampled:** 01/31/23 12:53  
**Received:** 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	110	mg/L		02/14/23 23:58	25	25	02/14/23 23:58	CRD	EPA 300.0 REV 2.1
Sulfate	2000	mg/L		02/13/23 22:52	500	500	02/13/23 22:52	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	19.65	Feet		01/31/23 12:53	1		01/31/23 12:53	FIELD	Field*
Dissolved oxygen, Field	3.8	mg/L		01/31/23 12:53	1		01/31/23 12:53	FIELD	Field*
Oxidation Reduction Potential	243	mV		01/31/23 12:53	1	-500	01/31/23 12:53	FIELD	Field*
pH, Field Measured	6.44	pH Units		01/31/23 12:53	1		01/31/23 12:53	FIELD	Field*
Specific Conductance, Field Measured	431.0	umhos/cm		01/31/23 12:53	1		01/31/23 12:53	FIELD	Field*
Temperature, Field Measured	3.5	°C		01/31/23 12:53	1		01/31/23 12:53	FIELD	Field*
Turbidity, Field Measured	122	NTU		01/31/23 12:53	1	0.00	01/31/23 12:53	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	490	mg/L	H	02/16/23 10:16	1	10	02/16/23 10:16	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L	H	02/16/23 10:16	1	10	02/16/23 10:16	CPS	SM 2320B 1997*
Fluoride	0.251	mg/L		02/15/23 13:48	1	0.250	02/15/23 13:48	TTH	SM 4500F C 1997
<b>Total Metals - PIA</b>									
Boron	190	ug/L		02/02/23 08:53	5	10	02/09/23 10:57	JMW	EPA 6020A
Calcium	640	mg/L		02/02/23 08:53	100	4.0	02/08/23 12:38	JMW	EPA 6020A
Magnesium	290	mg/L		02/02/23 08:53	5	0.10	02/08/23 08:43	JMW	EPA 6020A
Potassium	8.0	mg/L		02/02/23 08:53	5	0.10	02/08/23 08:43	JMW	EPA 6020A
Sodium	180	mg/L		02/02/23 08:53	5	0.10	02/08/23 08:43	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00256-10  
**Name:** G223  
**Matrix:** Ground Water - Grab

**Sampled:** 02/01/23 10:29  
**Received:** 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	310	mg/L		02/10/23 16:54	50	50	02/10/23 16:54	LAM	EPA 300.0 REV 2.1
Fluoride	0.581	mg/L		02/10/23 16:36	1	0.250	02/10/23 16:36	LAM	EPA 300.0 REV 2.1
Sulfate	720	mg/L		02/11/23 12:07	100	100	02/11/23 12:07	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	33.4	Feet		02/01/23 10:29	1		02/01/23 10:29	FIELD	Field*
Dissolved oxygen, Field	1.7	mg/L		02/01/23 10:29	1		02/01/23 10:29	FIELD	Field*
Oxidation Reduction Potential	97.0	mV		02/01/23 10:29	1	-500	02/01/23 10:29	FIELD	Field*
pH, Field Measured	6.58	pH Units		02/01/23 10:29	1		02/01/23 10:29	FIELD	Field*
Specific Conductance, Field Measured	3023	umhos/cm		02/01/23 10:29	1		02/01/23 10:29	FIELD	Field*
Temperature, Field Measured	10.5	°C		02/01/23 10:29	1		02/01/23 10:29	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		02/01/23 10:29	1	0.00	02/01/23 10:29	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	560	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	2400	mg/L		02/02/23 10:21	1	26	02/02/23 12:19	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Boron	100	ug/L		02/02/23 08:53	5	10	02/09/23 11:21	JMW	EPA 6020A
Calcium	360	mg/L		02/02/23 08:53	5	0.20	02/08/23 09:01	JMW	EPA 6020A
Magnesium	140	mg/L		02/02/23 08:53	5	0.10	02/08/23 09:01	JMW	EPA 6020A
Potassium	4.4	mg/L		02/02/23 08:53	5	0.10	02/08/23 09:01	JMW	EPA 6020A
Sodium	300	mg/L		02/02/23 08:53	5	0.10	02/08/23 09:01	JMW	EPA 6020A





**ANALYTICAL RESULTS**

**Sample:** GB00256-11  
**Name:** G224  
**Matrix:** Ground Water - Grab

**Sampled:** 01/31/23 14:50  
**Received:** 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	51	mg/L		02/10/23 17:31	25	25	02/10/23 17:31	LAM	EPA 300.0 REV 2.1
Fluoride	0.409	mg/L		02/10/23 17:13	1	0.250	02/10/23 17:13	LAM	EPA 300.0 REV 2.1
Sulfate	120	mg/L		02/10/23 17:31	25	25	02/10/23 17:31	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	41.84	Feet		01/31/23 14:50	1		01/31/23 14:50	FIELD	Field*
Dissolved oxygen, Field	2.4	mg/L		01/31/23 14:50	1		01/31/23 14:50	FIELD	Field*
Oxidation Reduction Potential	203	mV		01/31/23 14:50	1	-500	01/31/23 14:50	FIELD	Field*
pH, Field Measured	7.67	pH Units		01/31/23 14:50	1		01/31/23 14:50	FIELD	Field*
Specific Conductance, Field Measured	1024	umhos/cm		01/31/23 14:50	1		01/31/23 14:50	FIELD	Field*
Temperature, Field Measured	9.0	°C		01/31/23 14:50	1		01/31/23 14:50	FIELD	Field*
Turbidity, Field Measured	182	NTU		01/31/23 14:50	1	0.00	01/31/23 14:50	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	340	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	760	mg/L		02/02/23 10:21	1	26	02/02/23 12:19	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Boron	88	ug/L		02/06/23 08:59	5	10	02/09/23 15:34	JMW	EPA 6020A
Calcium	130	mg/L		02/06/23 08:59	5	0.20	02/09/23 15:34	JMW	EPA 6020A
Magnesium	52	mg/L		02/06/23 08:59	5	0.10	02/09/23 15:34	JMW	EPA 6020A
Potassium	2.2	mg/L		02/06/23 08:59	5	0.10	02/09/23 15:34	JMW	EPA 6020A
Sodium	74	mg/L		02/06/23 08:59	5	0.10	02/09/23 15:34	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00256-12  
**Name:** G230  
**Matrix:** Ground Water - Grab

**Sampled:** 02/01/23 09:57  
**Received:** 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	120	mg/L		02/10/23 18:07	50	50	02/10/23 18:07	LAM	EPA 300.0 REV 2.1
Fluoride	0.521	mg/L		02/10/23 17:49	1	0.250	02/10/23 17:49	LAM	EPA 300.0 REV 2.1
Sulfate	460	mg/L		02/10/23 18:07	50	50	02/10/23 18:07	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	48.45	Feet		02/01/23 09:57	1		02/01/23 09:57	FIELD	Field*
Dissolved oxygen, Field	3.3	mg/L		02/01/23 09:57	1		02/01/23 09:57	FIELD	Field*
Oxidation Reduction Potential	-40.0	mV		02/01/23 09:57	1	-500	02/01/23 09:57	FIELD	Field*
pH, Field Measured	7.17	pH Units		02/01/23 09:57	1		02/01/23 09:57	FIELD	Field*
Specific Conductance, Field Measured	1850	umhos/cm		02/01/23 09:57	1		02/01/23 09:57	FIELD	Field*
Temperature, Field Measured	11.7	°C		02/01/23 09:57	1		02/01/23 09:57	FIELD	Field*
Turbidity, Field Measured	342	NTU		02/01/23 09:57	1	0.00	02/01/23 09:57	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	310	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	1200	mg/L		02/02/23 10:21	1	26	02/02/23 12:19	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Boron	140	ug/L		02/06/23 08:59	5	10	02/09/23 15:38	JMW	EPA 6020A
Calcium	160	mg/L		02/06/23 08:59	5	0.20	02/09/23 15:38	JMW	EPA 6020A
Magnesium	66	mg/L		02/06/23 08:59	5	0.10	02/09/23 15:38	JMW	EPA 6020A
Potassium	6.9	mg/L		02/06/23 08:59	5	0.10	02/09/23 15:38	JMW	EPA 6020A
Sodium	170	mg/L		02/06/23 08:59	5	0.10	02/09/23 15:38	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00256-13  
**Name:** G231  
**Matrix:** Ground Water - Grab

**Sampled:** 02/01/23 10:47  
**Received:** 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	69	mg/L		02/10/23 19:19	25	25	02/10/23 19:19	LAM	EPA 300.0 REV 2.1
Fluoride	0.515	mg/L		02/10/23 18:25	1	0.250	02/10/23 18:25	LAM	EPA 300.0 REV 2.1
Sulfate	190	mg/L		02/10/23 19:19	25	25	02/10/23 19:19	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	47.82	Feet		02/01/23 10:47	1		02/01/23 10:47	FIELD	Field*
Dissolved oxygen, Field	3.2	mg/L		02/01/23 10:47	1		02/01/23 10:47	FIELD	Field*
Oxidation Reduction Potential	20.0	mV		02/01/23 10:47	1	-500	02/01/23 10:47	FIELD	Field*
pH, Field Measured	7.78	pH Units		02/01/23 10:47	1		02/01/23 10:47	FIELD	Field*
Specific Conductance, Field Measured	1200	umhos/cm		02/01/23 10:47	1		02/01/23 10:47	FIELD	Field*
Temperature, Field Measured	10.7	°C		02/01/23 10:47	1		02/01/23 10:47	FIELD	Field*
Turbidity, Field Measured	397	NTU		02/01/23 10:47	1	0.00	02/01/23 10:47	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	300	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	800	mg/L		02/02/23 10:21	1	26	02/02/23 12:19	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Boron	100	ug/L		02/06/23 08:59	5	10	02/09/23 15:42	JMW	EPA 6020A
Calcium	130	mg/L		02/06/23 08:59	5	0.20	02/09/23 15:42	JMW	EPA 6020A
Magnesium	54	mg/L		02/06/23 08:59	5	0.10	02/09/23 15:42	JMW	EPA 6020A
Potassium	3.1	mg/L		02/06/23 08:59	5	0.10	02/09/23 15:42	JMW	EPA 6020A
Sodium	110	mg/L		02/06/23 08:59	5	0.10	02/09/23 15:42	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00256-14  
**Name:** G232  
**Matrix:** Ground Water - Grab

**Sampled:** 02/01/23 11:32  
**Received:** 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	97	mg/L		02/10/23 19:55	50	50	02/10/23 19:55	LAM	EPA 300.0 REV 2.1
Fluoride	0.569	mg/L		02/10/23 19:37	1	0.250	02/10/23 19:37	LAM	EPA 300.0 REV 2.1
Sulfate	340	mg/L		02/10/23 19:55	50	50	02/10/23 19:55	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	46.16	Feet		02/01/23 11:32	1		02/01/23 11:32	FIELD	Field*
Dissolved oxygen, Field	2.4	mg/L		02/01/23 11:32	1		02/01/23 11:32	FIELD	Field*
Oxidation Reduction Potential	-82.0	mV		02/01/23 11:32	1	-500	02/01/23 11:32	FIELD	Field*
pH, Field Measured	7.85	pH Units		02/01/23 11:32	1		02/01/23 11:32	FIELD	Field*
Specific Conductance, Field Measured	1560	umhos/cm		02/01/23 11:32	1		02/01/23 11:32	FIELD	Field*
Temperature, Field Measured	11.9	°C		02/01/23 11:32	1		02/01/23 11:32	FIELD	Field*
Turbidity, Field Measured	196	NTU		02/01/23 11:32	1	0.00	02/01/23 11:32	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	280	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	1000	mg/L		02/02/23 10:21	1	26	02/02/23 12:19	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Boron	130	ug/L		02/06/23 08:59	5	10	02/09/23 15:45	JMW	EPA 6020A
Calcium	110	mg/L		02/06/23 08:59	5	0.20	02/09/23 15:45	JMW	EPA 6020A
Magnesium	42	mg/L		02/06/23 08:59	5	0.10	02/09/23 15:45	JMW	EPA 6020A
Potassium	2.9	mg/L		02/06/23 08:59	5	0.10	02/09/23 15:45	JMW	EPA 6020A
Sodium	170	mg/L		02/06/23 08:59	5	0.10	02/09/23 15:45	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00256-15  
**Name:** G133  
**Matrix:** Ground Water - Grab

**Sampled:** 02/01/23 10:38  
**Received:** 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	950	mg/L		02/17/23 19:30	250	250	02/17/23 19:30	CRD	EPA 300.0 REV 2.1
Sulfate	870	mg/L		02/17/23 19:30	250	250	02/17/23 19:30	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	9.52	Feet		02/01/23 10:38	1		02/01/23 10:38	FIELD	Field*
Dissolved oxygen, Field	3.7	mg/L		02/01/23 10:38	1		02/01/23 10:38	FIELD	Field*
Oxidation Reduction Potential	240	mV		02/01/23 10:38	1	-500	02/01/23 10:38	FIELD	Field*
pH, Field Measured	6.94	pH Units		02/01/23 10:38	1		02/01/23 10:38	FIELD	Field*
Specific Conductance, Field Measured	4540	umhos/cm		02/01/23 10:38	1		02/01/23 10:38	FIELD	Field*
Temperature, Field Measured	11.8	°C		02/01/23 10:38	1		02/01/23 10:38	FIELD	Field*
Turbidity, Field Measured	1000	NTU		02/01/23 10:38	1	0.00	02/01/23 10:38	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	180	mg/L		02/08/23 16:02	1	10	02/08/23 16:02	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/08/23 16:02	1	10	02/08/23 16:02	HRF	SM 2320B 1997*
Fluoride	< 0.250	mg/L		02/17/23 10:38	1	0.250	02/17/23 10:38	TTH	SM 4500F C 1997
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	3400	mg/L		02/03/23 10:36	1	26	02/03/23 11:40	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Boron	250	ug/L		02/06/23 08:59	5	10	02/09/23 15:49	JMW	EPA 6020A
Calcium	490	mg/L		02/06/23 08:59	5	0.20	02/09/23 15:49	JMW	EPA 6020A
Magnesium	290	mg/L		02/06/23 08:59	5	0.10	02/09/23 15:49	JMW	EPA 6020A
Potassium	7.0	mg/L		02/06/23 08:59	5	0.10	02/09/23 15:49	JMW	EPA 6020A
Sodium	300	mg/L		02/06/23 08:59	5	0.10	02/09/23 15:49	JMW	EPA 6020A



**ANALYTICAL RESULTS**

Sample: GB00256-16  
 Name: G208  
 Matrix: Ground Water - Grab

Sampled: 02/01/23 11:10  
 Received: 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	48	mg/L		02/10/23 20:31	10	10	02/10/23 20:31	LAM	EPA 300.0 REV 2.1
Fluoride	1.11	mg/L		02/10/23 20:13	1	0.250	02/10/23 20:13	LAM	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		02/10/23 20:13	1	1.0	02/10/23 20:13	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	24.19	Feet		02/01/23 11:10	1		02/01/23 11:10	FIELD	Field*
Dissolved oxygen, Field	2.9	mg/L		02/01/23 11:10	1		02/01/23 11:10	FIELD	Field*
Oxidation Reduction Potential	38.0	mV		02/01/23 11:10	1	-500	02/01/23 11:10	FIELD	Field*
pH, Field Measured	6.86	pH Units		02/01/23 11:10	1		02/01/23 11:10	FIELD	Field*
Specific Conductance, Field Measured	1038	umhos/cm		02/01/23 11:10	1		02/01/23 11:10	FIELD	Field*
Temperature, Field Measured	11.3	°C		02/01/23 11:10	1		02/01/23 11:10	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		02/01/23 11:10	1	0.00	02/01/23 11:10	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	500	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	740	mg/L		02/02/23 10:21	1	26	02/02/23 12:19	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Boron	180	ug/L		02/06/23 08:59	5	10	02/09/23 15:53	JMW	EPA 6020A
Calcium	96	mg/L		02/06/23 08:59	5	0.20	02/09/23 15:53	JMW	EPA 6020A
Magnesium	40	mg/L		02/06/23 08:59	5	0.10	02/09/23 15:53	JMW	EPA 6020A
Potassium	2.2	mg/L		02/06/23 08:59	5	0.10	02/09/23 15:53	JMW	EPA 6020A
Sodium	160	mg/L		02/06/23 08:59	5	0.10	02/09/23 15:53	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00256-17  
**Name:** G114  
**Matrix:** Ground Water - Grab

**Sampled:** 01/31/23 14:52  
**Received:** 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	57	mg/L		02/10/23 21:08	25	25	02/10/23 21:08	LAM	EPA 300.0 REV 2.1
Sulfate	2100	mg/L		02/10/23 21:26	250	250	02/10/23 21:26	LAM	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	18.46	Feet		01/31/23 14:52	1		01/31/23 14:52	FIELD	Field*
Dissolved oxygen, Field	7.5	mg/L		01/31/23 14:52	1		01/31/23 14:52	FIELD	Field*
Oxidation Reduction Potential	-48.0	mV		01/31/23 14:52	1	-500	01/31/23 14:52	FIELD	Field*
pH, Field Measured	6.96	pH Units		01/31/23 14:52	1		01/31/23 14:52	FIELD	Field*
Specific Conductance, Field Measured	3710	umhos/cm		01/31/23 14:52	1		01/31/23 14:52	FIELD	Field*
Temperature, Field Measured	10.0	°C		01/31/23 14:52	1		01/31/23 14:52	FIELD	Field*
Turbidity, Field Measured	1000	NTU		01/31/23 14:52	1	0.00	01/31/23 14:52	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	420	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Fluoride	0.302	mg/L		02/15/23 13:55	1	0.250	02/15/23 13:55	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	3500	mg/L		02/02/23 10:21	1	26	02/02/23 12:19	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Boron	160	ug/L		02/06/23 08:59	5	10	02/09/23 16:07	JMW	EPA 6020A
Calcium	700	mg/L		02/06/23 08:59	100	4.0	02/16/23 10:18	JMW	EPA 6020A
Magnesium	450	mg/L		02/06/23 08:59	5	0.10	02/09/23 16:07	JMW	EPA 6020A
Potassium	6.4	mg/L		02/06/23 08:59	5	0.10	02/09/23 16:07	JMW	EPA 6020A
Sodium	210	mg/L		02/06/23 08:59	5	0.10	02/09/23 16:07	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00256-18  
**Name:** G114D  
**Matrix:** Ground Water - Grab

**Sampled:** 01/31/23 16:00  
**Received:** 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	170	mg/L		02/11/23 12:25	25	25	02/11/23 12:25	LAM	EPA 300.0 REV 2.1
Fluoride	1.08	mg/L		02/10/23 21:44	1	0.250	02/10/23 21:44	LAM	EPA 300.0 REV 2.1
Sulfate	4.3	mg/L		02/10/23 21:44	1	1.0	02/10/23 21:44	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	42.98	Feet		01/31/23 16:00	1		01/31/23 16:00	FIELD	Field*
Dissolved oxygen, Field	6.0	mg/L		01/31/23 16:00	1		01/31/23 16:00	FIELD	Field*
Oxidation Reduction Potential	-113	mV		01/31/23 16:00	1	-500	01/31/23 16:00	FIELD	Field*
pH, Field Measured	7.47	pH Units		01/31/23 16:00	1		01/31/23 16:00	FIELD	Field*
Specific Conductance, Field Measured	1530	umhos/cm		01/31/23 16:00	1		01/31/23 16:00	FIELD	Field*
Temperature, Field Measured	9.1	°C		01/31/23 16:00	1		01/31/23 16:00	FIELD	Field*
Turbidity, Field Measured	1000	NTU		01/31/23 16:00	1	0.00	01/31/23 16:00	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	400	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	840	mg/L		02/02/23 10:21	1	26	02/02/23 12:19	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Boron	210	ug/L		02/06/23 08:59	5	10	02/09/23 16:11	JMW	EPA 6020A
Calcium	90	mg/L		02/06/23 08:59	5	0.20	02/09/23 16:11	JMW	EPA 6020A
Magnesium	43	mg/L		02/06/23 08:59	5	0.10	02/09/23 16:11	JMW	EPA 6020A
Potassium	3.3	mg/L		02/06/23 08:59	5	0.10	02/09/23 16:11	JMW	EPA 6020A
Sodium	210	mg/L		02/06/23 08:59	5	0.10	02/09/23 16:11	JMW	EPA 6020A





**ANALYTICAL RESULTS**

**Sample:** GB00256-19  
**Name:** G118  
**Matrix:** Ground Water - Grab

**Sampled:** 02/01/23 10:11  
**Received:** 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	1.3	mg/L		02/10/23 22:57	1	1.0	02/10/23 22:57	LAM	EPA 300.0 REV 2.1
Fluoride	0.357	mg/L		02/10/23 22:57	1	0.250	02/10/23 22:57	LAM	EPA 300.0 REV 2.1
Sulfate	57	mg/L		02/10/23 23:15	10	10	02/10/23 23:15	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	7.44	Feet		02/01/23 10:11	1		02/01/23 10:11	FIELD	Field*
Dissolved oxygen, Field	2.6	mg/L		02/01/23 10:11	1		02/01/23 10:11	FIELD	Field*
Oxidation Reduction Potential	174	mV		02/01/23 10:11	1	-500	02/01/23 10:11	FIELD	Field*
pH, Field Measured	7.40	pH Units		02/01/23 10:11	1		02/01/23 10:11	FIELD	Field*
Specific Conductance, Field Measured	545.0	umhos/cm		02/01/23 10:11	1		02/01/23 10:11	FIELD	Field*
Temperature, Field Measured	11.3	°C		02/01/23 10:11	1		02/01/23 10:11	FIELD	Field*
Turbidity, Field Measured	1000	NTU		02/01/23 10:11	1	0.00	02/01/23 10:11	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	140	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	260	mg/L		02/02/23 10:21	1	26	02/02/23 12:19	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Boron	62	ug/L		02/06/23 08:59	5	10	02/09/23 16:15	JMW	EPA 6020A
Calcium	72	mg/L		02/06/23 08:59	5	0.20	02/09/23 16:15	JMW	EPA 6020A
Magnesium	36	mg/L		02/06/23 08:59	5	0.10	02/09/23 16:15	JMW	EPA 6020A
Potassium	2.9	mg/L		02/06/23 08:59	5	0.10	02/09/23 16:15	JMW	EPA 6020A
Sodium	32	mg/L		02/06/23 08:59	5	0.10	02/09/23 16:15	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00423-04  
**Name:** G06D  
**Matrix:** Ground Water - Grab

**Sampled:** 02/01/23 17:12  
**Received:** 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	52	mg/L		02/10/23 19:16	10	10	02/10/23 19:16	LAM	EPA 300.0 REV 2.1
Fluoride	0.708	mg/L		02/10/23 18:58	1	0.250	02/10/23 18:58	LAM	EPA 300.0 REV 2.1
Sulfate	2.1	mg/L		02/10/23 18:58	1	1.0	02/10/23 18:58	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	28.91	Feet		02/01/23 17:12	1		02/01/23 17:12	FIELD	Field*
Dissolved oxygen, Field	1.5	mg/L		02/01/23 17:12	1		02/01/23 17:12	FIELD	Field*
Oxidation Reduction Potential	-110	mV		02/01/23 17:12	1	-500	02/01/23 17:12	FIELD	Field*
pH, Field Measured	7.16	pH Units		02/01/23 17:12	1		02/01/23 17:12	FIELD	Field*
Specific Conductance, Field Measured	1590	umhos/cm		02/01/23 17:12	1		02/01/23 17:12	FIELD	Field*
Temperature, Field Measured	9.2	°C		02/01/23 17:12	1		02/01/23 17:12	FIELD	Field*
Turbidity, Field Measured	460	NTU		02/01/23 17:12	1	0.00	02/01/23 17:12	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	740	mg/L		02/14/23 14:23	1	10	02/14/23 14:23	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/14/23 14:23	1	10	02/14/23 14:23	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	850	mg/L		02/03/23 10:36	1	26	02/03/23 11:40	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Boron	180	ug/L		02/07/23 09:10	5	10	02/10/23 12:18	JMW	EPA 6020A
Calcium	120	mg/L	Q4	02/07/23 09:10	5	0.20	02/13/23 14:00	JMW	EPA 6020A
Magnesium	54	mg/L	Q4	02/07/23 09:10	5	0.10	02/13/23 14:00	JMW	EPA 6020A
Potassium	3.0	mg/L		02/07/23 09:10	5	0.10	02/13/23 14:00	JMW	EPA 6020A
Sodium	160	mg/L	Q4	02/07/23 09:10	5	0.10	02/13/23 14:00	JMW	EPA 6020A



**ANALYTICAL RESULTS**

Sample: GB00423-06  
 Name: G104D  
 Matrix: Ground Water - Grab

Sampled: 02/01/23 17:36  
 Received: 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	20	mg/L		02/10/23 20:29	10	10	02/10/23 20:29	LAM	EPA 300.0 REV 2.1
Fluoride	0.835	mg/L		02/10/23 20:11	1	0.250	02/10/23 20:11	LAM	EPA 300.0 REV 2.1
Sulfate	7.1	mg/L		02/10/23 20:11	1	1.0	02/10/23 20:11	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	50.73	Feet		02/01/23 17:36	1		02/01/23 17:36	FIELD	Field*
Dissolved oxygen, Field	3.9	mg/L		02/01/23 17:36	1		02/01/23 17:36	FIELD	Field*
Oxidation Reduction Potential	38.0	mV		02/01/23 17:36	1	-500	02/01/23 17:36	FIELD	Field*
pH, Field Measured	7.67	pH Units		02/01/23 17:36	1		02/01/23 17:36	FIELD	Field*
Specific Conductance, Field Measured	1053	umhos/cm		02/01/23 17:36	1		02/01/23 17:36	FIELD	Field*
Temperature, Field Measured	11.4	°C		02/01/23 17:36	1		02/01/23 17:36	FIELD	Field*
Turbidity, Field Measured	10.4	NTU		02/01/23 17:36	1	0.00	02/01/23 17:36	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	750	mg/L		02/14/23 14:23	1	10	02/14/23 14:23	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/14/23 14:23	1	10	02/14/23 14:23	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	970	mg/L		02/03/23 10:36	1	26	02/03/23 11:40	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Boron	200	ug/L		02/07/23 09:10	5	10	02/10/23 12:21	JMW	EPA 6020A
Calcium	100	mg/L		02/07/23 09:10	5	0.20	02/16/23 08:39	JMW	EPA 6020A
Magnesium	44	mg/L		02/07/23 09:10	5	0.10	02/16/23 08:39	JMW	EPA 6020A
Potassium	2.8	mg/L		02/07/23 09:10	5	0.10	02/16/23 08:39	JMW	EPA 6020A
Sodium	190	mg/L		02/07/23 09:10	5	0.10	02/16/23 08:39	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00423-11  
**Name:** G128  
**Matrix:** Ground Water - Grab

**Sampled:** 02/01/23 16:59  
**Received:** 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	2300	mg/L		02/17/23 19:48	1000	1000	02/17/23 19:48	CRD	EPA 300.0 REV 2.1
Sulfate	6200	mg/L		02/17/23 19:48	1000	1000	02/17/23 19:48	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	5.09	Feet		02/01/23 16:59	1		02/01/23 16:59	FIELD	Field*
Dissolved oxygen, Field	4.4	mg/L		02/01/23 16:59	1		02/01/23 16:59	FIELD	Field*
Oxidation Reduction Potential	115	mV		02/01/23 16:59	1	-500	02/01/23 16:59	FIELD	Field*
pH, Field Measured	6.75	pH Units		02/01/23 16:59	1		02/01/23 16:59	FIELD	Field*
Specific Conductance, Field Measured	1600	umhos/cm		02/01/23 16:59	1		02/01/23 16:59	FIELD	Field*
Temperature, Field Measured	8.8	°C		02/01/23 16:59	1		02/01/23 16:59	FIELD	Field*
Turbidity, Field Measured	35.3	NTU		02/01/23 16:59	1	0.00	02/01/23 16:59	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	510	mg/L		02/08/23 16:02	1	10	02/08/23 16:02	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/08/23 16:02	1	10	02/08/23 16:02	HRF	SM 2320B 1997*
Fluoride	0.355	mg/L		02/17/23 10:47	1	0.250	02/17/23 10:47	TTH	SM 4500F C 1997
<b><u>Soluble General Chemistry - PIA</u></b>									
Solids - total dissolved solids (TDS)	14000	mg/L		02/07/23 10:01	1	51	02/07/23 10:50	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Boron	1200	ug/L		02/07/23 09:10	5	10	02/10/23 12:25	JMW	EPA 6020A
Calcium	490	mg/L		02/07/23 09:10	100	4.0	02/13/23 14:11	JMW	EPA 6020A
Magnesium	500	mg/L		02/07/23 09:10	100	2.0	02/13/23 14:11	JMW	EPA 6020A
Potassium	29	mg/L		02/07/23 09:10	100	2.0	02/13/23 14:11	JMW	EPA 6020A
Sodium	3100	mg/L		02/07/23 09:10	100	2.0	02/13/23 14:11	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00423-12  
**Name:** G130  
**Matrix:** Ground Water - Grab

**Sampled:** 02/01/23 13:00  
**Received:** 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	1700	mg/L		02/17/23 20:24	500	500	02/17/23 20:24	CRD	EPA 300.0 REV 2.1
Sulfate	3600	mg/L		02/17/23 20:24	500	500	02/17/23 20:24	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	4.61	Feet		02/01/23 13:00	1		02/01/23 13:00	FIELD	Field*
Dissolved oxygen, Field	2.9	mg/L		02/01/23 13:00	1		02/01/23 13:00	FIELD	Field*
Oxidation Reduction Potential	223	mV		02/01/23 13:00	1	-500	02/01/23 13:00	FIELD	Field*
pH, Field Measured	6.45	pH Units		02/01/23 13:00	1		02/01/23 13:00	FIELD	Field*
Specific Conductance, Field Measured	1020	umhos/cm		02/01/23 13:00	1		02/01/23 13:00	FIELD	Field*
Temperature, Field Measured	9.8	°C		02/01/23 13:00	1		02/01/23 13:00	FIELD	Field*
Turbidity, Field Measured	246	NTU		02/01/23 13:00	1	0.00	02/01/23 13:00	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	200	mg/L		02/08/23 16:02	1	10	02/08/23 16:02	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/08/23 16:02	1	10	02/08/23 16:02	HRF	SM 2320B 1997*
Fluoride	< 0.250	mg/L		02/17/23 10:48	1	0.250	02/17/23 10:48	TTH	SM 4500F C 1997
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	7400	mg/L		02/03/23 15:28	1	26	02/03/23 16:14	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Boron	72	ug/L		02/07/23 09:10	5	10	02/10/23 12:29	JMW	EPA 6020A
Calcium	600	mg/L		02/07/23 09:10	100	4.0	02/13/23 15:23	JMW	EPA 6020A
Magnesium	490	mg/L		02/07/23 09:10	100	2.0	02/13/23 15:23	JMW	EPA 6020A
Potassium	1.9	mg/L		02/07/23 09:10	5	0.10	02/16/23 08:43	JMW	EPA 6020A
Sodium	1200	mg/L		02/07/23 09:10	100	4.0	02/13/23 15:23	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00423-16  
**Name:** G201  
**Matrix:** Ground Water - Grab

**Sampled:** 02/02/23 10:19  
**Received:** 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	4.4	mg/L		02/10/23 20:47	1	1.0	02/10/23 20:47	LAM	EPA 300.0 REV 2.1
Fluoride	0.757	mg/L		02/10/23 20:47	1	0.250	02/10/23 20:47	LAM	EPA 300.0 REV 2.1
Sulfate	410	mg/L		02/10/23 21:05	100	100	02/10/23 21:05	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	17.94	Feet		02/02/23 10:19	1		02/02/23 10:19	FIELD	Field*
Dissolved oxygen, Field	1.8	mg/L		02/02/23 10:19	1		02/02/23 10:19	FIELD	Field*
Oxidation Reduction Potential	69.0	mV		02/02/23 10:19	1	-500	02/02/23 10:19	FIELD	Field*
pH, Field Measured	7.26	pH Units		02/02/23 10:19	1		02/02/23 10:19	FIELD	Field*
Specific Conductance, Field Measured	1025	umhos/cm		02/02/23 10:19	1		02/02/23 10:19	FIELD	Field*
Temperature, Field Measured	10.8	°C		02/02/23 10:19	1		02/02/23 10:19	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		02/02/23 10:19	1	0.00	02/02/23 10:19	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	220	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	960	mg/L		02/03/23 15:28	1	26	02/03/23 16:14	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Boron	130	ug/L		02/07/23 09:10	5	10	02/10/23 12:33	JMW	EPA 6020A
Calcium	180	mg/L		02/07/23 09:10	5	0.20	02/16/23 09:00	JMW	EPA 6020A
Magnesium	26	mg/L		02/07/23 09:10	5	0.10	02/16/23 09:00	JMW	EPA 6020A
Potassium	2.2	mg/L		02/07/23 09:10	5	0.10	02/16/23 09:00	JMW	EPA 6020A
Sodium	100	mg/L		02/07/23 09:10	5	0.15	02/16/23 09:00	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00423-17  
**Name:** G202  
**Matrix:** Ground Water - Grab

**Sampled:** 02/01/23 16:35  
**Received:** 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	56	mg/L		02/10/23 21:41	10	10	02/10/23 21:41	LAM	EPA 300.0 REV 2.1
Fluoride	0.421	mg/L		02/10/23 21:23	1	0.250	02/10/23 21:23	LAM	EPA 300.0 REV 2.1
Sulfate	96	mg/L		02/10/23 21:41	10	10	02/10/23 21:41	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	48.05	Feet		02/01/23 16:35	1		02/01/23 16:35	FIELD	Field*
Dissolved oxygen, Field	4.0	mg/L		02/01/23 16:35	1		02/01/23 16:35	FIELD	Field*
Oxidation Reduction Potential	50.0	mV		02/01/23 16:35	1	-500	02/01/23 16:35	FIELD	Field*
pH, Field Measured	7.68	pH Units		02/01/23 16:35	1		02/01/23 16:35	FIELD	Field*
Specific Conductance, Field Measured	1022	umhos/cm		02/01/23 16:35	1		02/01/23 16:35	FIELD	Field*
Temperature, Field Measured	10.0	°C		02/01/23 16:35	1		02/01/23 16:35	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		02/01/23 16:35	1	0.00	02/01/23 16:35	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	480	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	800	mg/L		02/03/23 15:28	1	26	02/03/23 16:14	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Boron	110	ug/L		02/07/23 09:10	5	10	02/10/23 12:36	JMW	EPA 6020A
Calcium	110	mg/L		02/07/23 09:10	5	0.20	02/16/23 09:03	JMW	EPA 6020A
Magnesium	46	mg/L		02/07/23 09:10	5	0.10	02/16/23 09:03	JMW	EPA 6020A
Potassium	1.7	mg/L		02/07/23 09:10	5	0.10	02/16/23 09:03	JMW	EPA 6020A
Sodium	110	mg/L		02/07/23 09:10	5	0.15	02/16/23 09:03	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00423-18  
**Name:** G203  
**Matrix:** Ground Water - Grab

**Sampled:** 02/01/23 15:27  
**Received:** 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	52	mg/L		02/10/23 22:17	25	25	02/10/23 22:17	LAM	EPA 300.0 REV 2.1
Fluoride	0.319	mg/L		02/10/23 21:59	1	0.250	02/10/23 21:59	LAM	EPA 300.0 REV 2.1
Sulfate	140	mg/L		02/10/23 22:17	25	25	02/10/23 22:17	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	41.6	Feet		02/01/23 15:27	1		02/01/23 15:27	FIELD	Field*
Dissolved oxygen, Field	5.5	mg/L		02/01/23 15:27	1		02/01/23 15:27	FIELD	Field*
Oxidation Reduction Potential	57.0	mV		02/01/23 15:27	1	-500	02/01/23 15:27	FIELD	Field*
pH, Field Measured	7.46	pH Units		02/01/23 15:27	1		02/01/23 15:27	FIELD	Field*
Specific Conductance, Field Measured	1030	umhos/cm		02/01/23 15:27	1		02/01/23 15:27	FIELD	Field*
Temperature, Field Measured	9.8	°C		02/01/23 15:27	1		02/01/23 15:27	FIELD	Field*
Turbidity, Field Measured	19.0	NTU		02/01/23 15:27	1	0.00	02/01/23 15:27	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	380	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	800	mg/L		02/03/23 10:36	1	26	02/03/23 11:40	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Boron	83	ug/L		02/07/23 09:10	5	10	02/10/23 12:40	JMW	EPA 6020A
Calcium	130	mg/L		02/07/23 09:10	5	0.20	02/16/23 09:07	JMW	EPA 6020A
Magnesium	50	mg/L		02/07/23 09:10	5	0.10	02/16/23 09:07	JMW	EPA 6020A
Potassium	1.7	mg/L		02/07/23 09:10	5	0.10	02/16/23 09:07	JMW	EPA 6020A
Sodium	89	mg/L		02/07/23 09:10	5	0.15	02/16/23 09:07	JMW	EPA 6020A





**ANALYTICAL RESULTS**

**Sample:** GB00423-20  
**Name:** G220  
**Matrix:** Ground Water - Grab

**Sampled:** 02/01/23 13:01  
**Received:** 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	37	mg/L		02/10/23 22:53	10	10	02/10/23 22:53	LAM	EPA 300.0 REV 2.1
Fluoride	1.25	mg/L		02/10/23 22:35	1	0.250	02/10/23 22:35	LAM	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		02/10/23 22:35	1	1.0	02/10/23 22:35	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	18.78	Feet		02/01/23 13:01	1		02/01/23 13:01	FIELD	Field*
Dissolved oxygen, Field	6.9	mg/L		02/01/23 13:01	1		02/01/23 13:01	FIELD	Field*
Oxidation Reduction Potential	31.0	mV		02/01/23 13:01	1	-500	02/01/23 13:01	FIELD	Field*
pH, Field Measured	7.44	pH Units		02/01/23 13:01	1		02/01/23 13:01	FIELD	Field*
Specific Conductance, Field Measured	325.0	umhos/cm		02/01/23 13:01	1		02/01/23 13:01	FIELD	Field*
Temperature, Field Measured	9.4	°C		02/01/23 13:01	1		02/01/23 13:01	FIELD	Field*
Turbidity, Field Measured	0.900	NTU		02/01/23 13:01	1	0.00	02/01/23 13:01	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	490	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	780	mg/L		02/03/23 10:36	1	26	02/03/23 11:40	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Boron	250	ug/L		02/07/23 09:10	5	10	02/10/23 12:43	JMW	EPA 6020A
Calcium	100	mg/L		02/07/23 09:10	5	0.20	02/16/23 09:10	JMW	EPA 6020A
Magnesium	43	mg/L		02/07/23 09:10	5	0.10	02/16/23 09:10	JMW	EPA 6020A
Potassium	2.4	mg/L		02/07/23 09:10	5	0.10	02/16/23 09:10	JMW	EPA 6020A
Sodium	150	mg/L		02/07/23 09:10	5	0.15	02/16/23 09:10	JMW	EPA 6020A



**ANALYTICAL RESULTS**

Sample: GB00423-22  
 Name: G222  
 Matrix: Ground Water - Grab

Sampled: 02/01/23 14:02  
 Received: 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	62	mg/L		02/11/23 00:07	25	25	02/11/23 00:07	LAM	EPA 300.0 REV 2.1
Fluoride	0.966	mg/L		02/10/23 23:48	1	0.250	02/10/23 23:48	LAM	EPA 300.0 REV 2.1
Sulfate	110	mg/L		02/11/23 00:07	25	25	02/11/23 00:07	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	18.8	Feet		02/01/23 14:02	1		02/01/23 14:02	FIELD	Field*
Dissolved oxygen, Field	8.6	mg/L		02/01/23 14:02	1		02/01/23 14:02	FIELD	Field*
Oxidation Reduction Potential	65.0	mV		02/01/23 14:02	1	-500	02/01/23 14:02	FIELD	Field*
pH, Field Measured	7.43	pH Units		02/01/23 14:02	1		02/01/23 14:02	FIELD	Field*
Specific Conductance, Field Measured	1074	umhos/cm		02/01/23 14:02	1		02/01/23 14:02	FIELD	Field*
Temperature, Field Measured	10.9	°C		02/01/23 14:02	1		02/01/23 14:02	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		02/01/23 14:02	1	0.00	02/01/23 14:02	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	690	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1100	mg/L		02/03/23 10:36	1	26	02/03/23 11:40	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Boron	220	ug/L		02/07/23 09:10	5	10	02/10/23 12:47	JMW	EPA 6020A
Calcium	130	mg/L		02/07/23 09:10	5	0.20	02/16/23 09:14	JMW	EPA 6020A
Magnesium	61	mg/L		02/07/23 09:10	5	0.10	02/16/23 09:14	JMW	EPA 6020A
Potassium	2.7	mg/L		02/07/23 09:10	5	0.10	02/16/23 09:14	JMW	EPA 6020A
Sodium	220	mg/L		02/07/23 09:10	5	0.15	02/16/23 09:14	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00423-24  
**Name:** G233  
**Matrix:** Ground Water - Grab

**Sampled:** 02/01/23 13:19  
**Received:** 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	39	mg/L		02/11/23 00:26	5	5.0	02/11/23 00:26	LAM	EPA 300.0 REV 2.1
Fluoride	0.384	mg/L		02/11/23 12:43	1	0.250	02/11/23 12:43	LAM	EPA 300.0 REV 2.1
Sulfate	530	mg/L		02/11/23 13:02	100	100	02/11/23 13:02	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	42	Feet		02/01/23 13:19	1		02/01/23 13:19	FIELD	Field*
Dissolved oxygen, Field	2.2	mg/L		02/01/23 13:19	1		02/01/23 13:19	FIELD	Field*
Oxidation Reduction Potential	-58.0	mV		02/01/23 13:19	1	-500	02/01/23 13:19	FIELD	Field*
pH, Field Measured	7.29	pH Units		02/01/23 13:19	1		02/01/23 13:19	FIELD	Field*
Specific Conductance, Field Measured	1980	umhos/cm		02/01/23 13:19	1		02/01/23 13:19	FIELD	Field*
Temperature, Field Measured	10.8	°C		02/01/23 13:19	1		02/01/23 13:19	FIELD	Field*
Turbidity, Field Measured	240	NTU		02/01/23 13:19	1	0.00	02/01/23 13:19	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	610	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	1500	mg/L		02/03/23 15:28	1	26	02/03/23 16:14	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Boron	130	ug/L		02/07/23 09:10	5	10	02/10/23 12:51	JMW	EPA 6020A
Calcium	210	mg/L		02/07/23 09:10	5	0.20	02/16/23 09:18	JMW	EPA 6020A
Magnesium	87	mg/L		02/07/23 09:10	5	0.10	02/16/23 09:18	JMW	EPA 6020A
Potassium	4.8	mg/L		02/07/23 09:10	5	0.10	02/16/23 09:18	JMW	EPA 6020A
Sodium	170	mg/L		02/07/23 09:10	5	0.15	02/16/23 09:18	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GB00423-25  
**Name:** G234  
**Matrix:** Ground Water - Grab

**Sampled:** 02/01/23 12:38  
**Received:** 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	81	mg/L		02/06/23 22:10	50	50	02/06/23 22:10	CRD	EPA 300.0 REV 2.1
Sulfate	320	mg/L		02/06/23 22:10	50	50	02/06/23 22:10	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	43.56	Feet		02/01/23 12:38	1		02/01/23 12:38	FIELD	Field*
Dissolved oxygen, Field	2.5	mg/L		02/01/23 12:38	1		02/01/23 12:38	FIELD	Field*
Oxidation Reduction Potential	-129	mV		02/01/23 12:38	1	-500	02/01/23 12:38	FIELD	Field*
pH, Field Measured	7.52	pH Units		02/01/23 12:38	1		02/01/23 12:38	FIELD	Field*
Specific Conductance, Field Measured	1710	umhos/cm		02/01/23 12:38	1		02/01/23 12:38	FIELD	Field*
Temperature, Field Measured	12.0	°C		02/01/23 12:38	1		02/01/23 12:38	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		02/01/23 12:38	1	0.00	02/01/23 12:38	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	440	mg/L		02/14/23 14:23	1	10	02/14/23 14:23	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/14/23 14:23	1	10	02/14/23 14:23	CPS	SM 2320B 1997*
Fluoride	0.550	mg/L		02/15/23 16:37	1	0.250	02/15/23 16:37	TTH	SM 4500F C 1997
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	1100	mg/L		02/06/23 09:05	1	26	02/06/23 10:27	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Boron	130	ug/L		02/07/23 09:10	5	10	02/17/23 12:00	JMW	EPA 6020A
Calcium	170	mg/L		02/07/23 09:10	5	0.20	02/16/23 09:21	JMW	EPA 6020A
Magnesium	68	mg/L		02/07/23 09:10	5	0.10	02/16/23 09:21	JMW	EPA 6020A
Potassium	4.1	mg/L		02/07/23 09:10	5	0.10	02/16/23 09:21	JMW	EPA 6020A
Sodium	190	mg/L		02/07/23 09:10	5	0.15	02/16/23 09:21	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00423-26  
**Name:** G48MG  
**Matrix:** Ground Water - Grab

**Sampled:** 02/02/23 10:25  
**Received:** 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	24	mg/L		02/11/23 01:41	10	10	02/11/23 01:41	LAM	EPA 300.0 REV 2.1
Fluoride	0.475	mg/L		02/11/23 01:23	1	0.250	02/11/23 01:23	LAM	EPA 300.0 REV 2.1
Sulfate	2.3	mg/L		02/11/23 01:23	1	1.0	02/11/23 01:23	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	19.27	Feet		02/02/23 10:25	1		02/02/23 10:25	FIELD	Field*
Dissolved oxygen, Field	1.1	mg/L		02/02/23 10:25	1		02/02/23 10:25	FIELD	Field*
Oxidation Reduction Potential	-145	mV		02/02/23 10:25	1	-500	02/02/23 10:25	FIELD	Field*
pH, Field Measured	7.42	pH Units		02/02/23 10:25	1		02/02/23 10:25	FIELD	Field*
Specific Conductance, Field Measured	860.0	umhos/cm		02/02/23 10:25	1		02/02/23 10:25	FIELD	Field*
Temperature, Field Measured	12.3	°C		02/02/23 10:25	1		02/02/23 10:25	FIELD	Field*
Turbidity, Field Measured	1000	NTU		02/02/23 10:25	1	0.00	02/02/23 10:25	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	390	mg/L		02/14/23 14:23	1	10	02/14/23 14:23	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/14/23 14:23	1	10	02/14/23 14:23	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	510	mg/L		02/03/23 10:36	1	26	02/03/23 11:40	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Boron	99	ug/L		02/07/23 09:10	5	10	02/17/23 12:04	JMW	EPA 6020A
Calcium	77	mg/L		02/07/23 09:10	5	0.20	02/16/23 09:25	JMW	EPA 6020A
Magnesium	31	mg/L		02/07/23 09:10	5	0.10	02/16/23 09:25	JMW	EPA 6020A
Potassium	3.5	mg/L		02/07/23 09:10	5	0.10	02/16/23 09:25	JMW	EPA 6020A
Sodium	130	mg/L		02/07/23 09:10	5	0.15	02/16/23 09:25	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00423-27  
**Name:** L1R  
**Matrix:** Ground Water - Grab

**Sampled:** 02/02/23 12:15  
**Received:** 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	7800	mg/L		02/11/23 02:00	2500	2500	02/11/23 02:00	LAM	EPA 300.0 REV 2.1
Sulfate	20000	mg/L		02/11/23 02:00	2500	2500	02/11/23 02:00	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	55.05	Feet		02/02/23 12:15	1		02/02/23 12:15	FIELD	Field*
Dissolved oxygen, Field	3.0	mg/L		02/02/23 12:15	1		02/02/23 12:15	FIELD	Field*
Oxidation Reduction Potential	-245	mV		02/02/23 12:15	1	-500	02/02/23 12:15	FIELD	Field*
pH, Field Measured	11.2	pH Units		02/02/23 12:15	1		02/02/23 12:15	FIELD	Field*
Specific Conductance, Field Measured	53700	umhos/cm		02/02/23 12:15	1		02/02/23 12:15	FIELD	Field*
Temperature, Field Measured	15.0	°C		02/02/23 12:15	1		02/02/23 12:15	FIELD	Field*
Turbidity, Field Measured	1000	NTU		02/02/23 12:15	1	0.00	02/02/23 12:15	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	800	mg/L	H	02/22/23 10:11	1	10	02/22/23 10:11	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	720	mg/L	H	02/22/23 10:11	1	10	02/22/23 10:11	CPS	SM 2320B 1997*
Fluoride	0.380	mg/L		02/15/23 16:38	1	0.250	02/15/23 16:38	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	43000	mg/L		02/09/23 10:43	1	170	02/09/23 13:39	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Boron	10000	ug/L		02/07/23 09:10	100	200	02/13/23 15:27	JMW	EPA 6020A
Calcium	670	mg/L		02/07/23 09:10	100	4.0	02/13/23 15:27	JMW	EPA 6020A
Magnesium	12	mg/L		02/07/23 09:10	100	2.0	02/13/23 15:27	JMW	EPA 6020A
Potassium	1700	mg/L		02/07/23 09:10	100	5.0	02/13/23 15:27	JMW	EPA 6020A
Sodium	17000	mg/L		02/07/23 09:10	1000	30	02/16/23 10:22	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00423-28  
**Name:** L301  
**Matrix:** Ground Water - Grab

**Sampled:** 02/01/23 13:47  
**Received:** 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	22	mg/L		02/11/23 02:19	10	10	02/11/23 02:19	LAM	EPA 300.0 REV 2.1
Sulfate	2200	mg/L		02/11/23 02:19	500	500	02/11/23 02:38	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Dissolved oxygen, Field	2.3	mg/L		02/01/23 13:47	1		02/01/23 13:47	FIELD	Field*
Oxidation Reduction Potential	-169	mV		02/01/23 13:47	1	-500	02/01/23 13:47	FIELD	Field*
pH, Field Measured	10.2	pH Units		02/01/23 13:47	1		02/01/23 13:47	FIELD	Field*
Specific Conductance, Field Measured	5030	umhos/cm		02/01/23 13:47	1		02/01/23 13:47	FIELD	Field*
Temperature, Field Measured	11.2	°C		02/01/23 13:47	1		02/01/23 13:47	FIELD	Field*
Turbidity, Field Measured	80.2	NTU		02/01/23 13:47	1	0.00	02/01/23 13:47	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	< 10	mg/L		02/08/23 16:02	1	10	02/08/23 16:02	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	100	mg/L		02/08/23 16:02	1	10	02/08/23 16:02	HRF	SM 2320B 1997*
Fluoride	0.273	mg/L		02/17/23 10:49	1	0.250	02/17/23 10:49	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	4100	mg/L		02/03/23 10:36	1	26	02/03/23 11:40	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Boron	54000	ug/L		02/07/23 09:10	100	200	02/13/23 15:31	JMW	EPA 6020A
Calcium	42	mg/L		02/07/23 09:10	100	4.0	02/13/23 15:31	JMW	EPA 6020A
Magnesium	2.6	mg/L		02/07/23 09:10	100	2.0	02/13/23 15:31	JMW	EPA 6020A
Potassium	79	mg/L		02/07/23 09:10	5	0.10	02/16/23 09:33	JMW	EPA 6020A
Sodium	1100	mg/L		02/07/23 09:10	100	4.0	02/13/23 15:31	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00423-29  
**Name:** MW34D  
**Matrix:** Ground Water - Grab

**Sampled:** 02/01/23 13:34  
**Received:** 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	8.2	mg/L	Q4	02/11/23 15:26	1	1.0	02/11/23 15:26	LAM	EPA 300.0 REV 2.1
Fluoride	1.16	mg/L		02/11/23 15:26	1	0.250	02/11/23 15:26	LAM	EPA 300.0 REV 2.1
Sulfate	37	mg/L	Q4	02/11/23 16:20	10	10	02/11/23 16:20	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	24.33	Feet		02/01/23 13:34	1		02/01/23 13:34	FIELD	Field*
Dissolved oxygen, Field	2.7	mg/L		02/01/23 13:34	1		02/01/23 13:34	FIELD	Field*
Oxidation Reduction Potential	-124	mV		02/01/23 13:34	1	-500	02/01/23 13:34	FIELD	Field*
pH, Field Measured	7.46	pH Units		02/01/23 13:34	1		02/01/23 13:34	FIELD	Field*
Specific Conductance, Field Measured	1310	umhos/cm		02/01/23 13:34	1		02/01/23 13:34	FIELD	Field*
Temperature, Field Measured	12.8	°C		02/01/23 13:34	1		02/01/23 13:34	FIELD	Field*
Turbidity, Field Measured	517	NTU		02/01/23 13:34	1	0.00	02/01/23 13:34	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	620	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	740	mg/L		02/03/23 10:36	1	26	02/03/23 11:40	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Boron	220	ug/L		02/07/23 09:10	5	10	02/17/23 12:08	JMW	EPA 6020A
Calcium	130	mg/L		02/07/23 09:10	5	0.20	02/16/23 09:57	JMW	EPA 6020A
Magnesium	58	mg/L		02/07/23 09:10	5	0.10	02/16/23 09:57	JMW	EPA 6020A
Potassium	2.2	mg/L		02/07/23 09:10	5	0.10	02/16/23 09:57	JMW	EPA 6020A
Sodium	89	mg/L		02/07/23 09:10	5	0.15	02/16/23 09:57	JMW	EPA 6020A





**ANALYTICAL RESULTS**

**Sample:** GB00423-30  
**Name:** MW46D  
**Matrix:** Ground Water - Grab

**Sampled:** 02/01/23 16:04  
**Received:** 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	19	mg/L		02/11/23 16:57	5	5.0	02/11/23 16:57	LAM	EPA 300.0 REV 2.1
Sulfate	1400	mg/L		02/11/23 17:15	250	250	02/11/23 17:15	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	15.36	Feet		02/01/23 16:04	1		02/01/23 16:04	FIELD	Field*
Dissolved oxygen, Field	2.1	mg/L		02/01/23 16:04	1		02/01/23 16:04	FIELD	Field*
Oxidation Reduction Potential	-18.0	mV		02/01/23 16:04	1	-500	02/01/23 16:04	FIELD	Field*
pH, Field Measured	6.71	pH Units		02/01/23 16:04	1		02/01/23 16:04	FIELD	Field*
Specific Conductance, Field Measured	3250	umhos/cm		02/01/23 16:04	1		02/01/23 16:04	FIELD	Field*
Temperature, Field Measured	10.7	°C		02/01/23 16:04	1		02/01/23 16:04	FIELD	Field*
Turbidity, Field Measured	1000	NTU		02/01/23 16:04	1	0.00	02/01/23 16:04	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	590	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
Fluoride	< 0.250	mg/L		02/15/23 16:39	1	0.250	02/15/23 16:39	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	2800	mg/L		02/03/23 11:50	1	26	02/03/23 13:50	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Boron	130	ug/L		02/07/23 09:10	5	10	02/17/23 12:26	JMW	EPA 6020A
Calcium	880	mg/L		02/07/23 09:10	100	4.0	02/17/23 12:41	JMW	EPA 6020A
Magnesium	270	mg/L		02/07/23 09:10	5	0.10	02/16/23 10:00	JMW	EPA 6020A
Potassium	8.7	mg/L		02/07/23 09:10	5	0.10	02/16/23 10:00	JMW	EPA 6020A
Sodium	120	mg/L		02/07/23 09:10	5	0.15	02/16/23 10:00	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00423-31  
**Name:** R201  
**Matrix:** Ground Water - Grab

**Sampled:** 02/02/23 09:40  
**Received:** 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	28	mg/L		02/06/23 22:28	10	10	02/06/23 22:28	CRD	EPA 300.0 REV 2.1
Fluoride	1.27	mg/L		02/11/23 17:33	1	0.250	02/11/23 17:33	LAM	EPA 300.0 REV 2.1
Sulfate	52	mg/L		02/06/23 22:28	10	10	02/06/23 22:28	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	18.06	Feet		02/02/23 09:40	1		02/02/23 09:40	FIELD	Field*
Dissolved oxygen, Field	9.3	mg/L		02/02/23 09:40	1		02/02/23 09:40	FIELD	Field*
Oxidation Reduction Potential	108	mV		02/02/23 09:40	1	-500	02/02/23 09:40	FIELD	Field*
pH, Field Measured	7.23	pH Units		02/02/23 09:40	1		02/02/23 09:40	FIELD	Field*
Specific Conductance, Field Measured	1021	umhos/cm		02/02/23 09:40	1		02/02/23 09:40	FIELD	Field*
Temperature, Field Measured	11.6	°C		02/02/23 09:40	1		02/02/23 09:40	FIELD	Field*
Turbidity, Field Measured	151	NTU		02/02/23 09:40	1	0.00	02/02/23 09:40	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	540	mg/L	H	02/21/23 11:40	1	10	02/21/23 11:40	CPS/HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	760	mg/L		02/03/23 15:28	1	26	02/03/23 16:14	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Boron	230	ug/L		02/07/23 09:10	5	10	02/17/23 12:30	JMW	EPA 6020A
Calcium	110	mg/L		02/07/23 09:10	5	0.20	02/16/23 10:04	JMW	EPA 6020A
Magnesium	48	mg/L		02/07/23 09:10	5	0.10	02/16/23 10:04	JMW	EPA 6020A
Potassium	2.0	mg/L		02/07/23 09:10	5	0.10	02/16/23 10:04	JMW	EPA 6020A
Sodium	150	mg/L		02/07/23 09:10	5	0.15	02/16/23 10:04	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GB00423-32  
**Name:** R202  
**Matrix:** Ground Water - Grab

**Sampled:** 02/01/23 16:02  
**Received:** 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	60	mg/L		02/11/23 19:39	25	25	02/11/23 19:39	LAM	EPA 300.0 REV 2.1
Fluoride	0.512	mg/L		02/11/23 19:03	1	0.250	02/11/23 19:03	LAM	EPA 300.0 REV 2.1
Sulfate	42	mg/L		02/11/23 19:21	5	5.0	02/11/23 19:21	LAM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	47.85	Feet		02/01/23 16:02	1		02/01/23 16:02	FIELD	Field*
Dissolved oxygen, Field	4.8	mg/L		02/01/23 16:02	1		02/01/23 16:02	FIELD	Field*
Oxidation Reduction Potential	46.0	mV		02/01/23 16:02	1	-500	02/01/23 16:02	FIELD	Field*
pH, Field Measured	7.54	pH Units		02/01/23 16:02	1		02/01/23 16:02	FIELD	Field*
Specific Conductance, Field Measured	1017	umhos/cm		02/01/23 16:02	1		02/01/23 16:02	FIELD	Field*
Temperature, Field Measured	10.0	°C		02/01/23 16:02	1		02/01/23 16:02	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		02/01/23 16:02	1	0.00	02/01/23 16:02	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	480	mg/L		02/14/23 14:23	1	10	02/14/23 14:23	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/14/23 14:23	1	10	02/14/23 14:23	CPS	SM 2320B 1997*
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	750	mg/L		02/03/23 15:28	1	26	02/03/23 16:14	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Boron	110	ug/L		02/07/23 09:10	5	10	02/17/23 12:33	JMW	EPA 6020A
Calcium	110	mg/L		02/07/23 09:10	5	0.20	02/16/23 10:08	JMW	EPA 6020A
Magnesium	46	mg/L		02/07/23 09:10	5	0.10	02/16/23 10:08	JMW	EPA 6020A
Potassium	1.7	mg/L		02/07/23 09:10	5	0.10	02/16/23 10:08	JMW	EPA 6020A
Sodium	110	mg/L		02/07/23 09:10	5	0.15	02/16/23 10:08	JMW	EPA 6020A

**Sample:** GB00423-33  
**Name:** R217D  
**Matrix:** Ground Water - Grab

**Sampled:** 02/01/23 18:00  
**Received:** 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	3600	mg/L		02/06/23 09:05	1	26	02/06/23 10:27	CPS	SM 2540C



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>Batch B324637 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B324637-BLK1)</b> Prepared: 02/02/23 Analyzed: 02/06/23									
Boron	< 10	ug/L							
Calcium	< 0.20	mg/L							
Magnesium	< 0.10	mg/L							
Potassium	< 0.10	mg/L							
Sodium	< 0.10	mg/L							
<b>LCS (B324637-BS1)</b> Prepared: 02/02/23 Analyzed: 02/06/23									
Boron	512	ug/L		555.6		92	80-120		
Calcium	5.27	mg/L		5.556		95	80-120		
Magnesium	5.37	mg/L		5.556		97	80-120		
Potassium	5.29	mg/L		5.556		95	80-120		
Sodium	5.38	mg/L		5.556		97	80-120		
<b><u>Batch B324652 - No Prep - SM 2540C</u></b>									
<b>Blank (B324652-BLK1)</b> Prepared & Analyzed: 02/02/23									
Solids - total dissolved solids (TDS)	< 17	mg/L							
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B324652-BS1)</b> Prepared & Analyzed: 02/02/23									
Solids - total dissolved solids (TDS)	973	mg/L		1000		97	84.9-109		
Solids - total dissolved solids (TDS)	973	mg/L		1000		97	84.9-109		
<b>Duplicate (B324652-DUP1) Sample: GB00256-01</b> Prepared & Analyzed: 02/02/23									
Solids - total dissolved solids (TDS)	3080	mg/L			3220			4	5
Solids - total dissolved solids (TDS)	3080	mg/L			3220			4	5
<b>Duplicate (B324652-DUP2) Sample: GB00256-16</b> Prepared & Analyzed: 02/02/23									
Solids - total dissolved solids (TDS)	765	mg/L			735			4	5
Solids - total dissolved solids (TDS)	765	mg/L			735			4	5
<b><u>Batch B324767 - No Prep - SM 2540C</u></b>									
<b>Blank (B324767-BLK1)</b> Prepared & Analyzed: 02/03/23									
Solids - total dissolved solids (TDS)	< 17	mg/L							
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B324767-BS1)</b> Prepared & Analyzed: 02/03/23									
Solids - total dissolved solids (TDS)	1010	mg/L		1000		101	84.9-109		
Solids - total dissolved solids (TDS)	1010	mg/L		1000		101	84.9-109		
<b><u>Batch B324786 - No Prep - SM 2540C</u></b>									
<b>Blank (B324786-BLK1)</b> Prepared & Analyzed: 02/03/23									
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B324786-BS1)</b> Prepared & Analyzed: 02/03/23									
Solids - total dissolved solids (TDS)	1040	mg/L		1000		104	84.9-109		
<b><u>Batch B324823 - No Prep - SM 2540C</u></b>									
<b>Blank (B324823-BLK1)</b> Prepared & Analyzed: 02/03/23									
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B324823-BS1)</b> Prepared & Analyzed: 02/03/23									
Solids - total dissolved solids (TDS)	990	mg/L		1000		99	84.9-109		



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Duplicate (B324823-DUP2)</b>									
Sample: GB00423-24			Prepared & Analyzed: 02/03/23						
Solids - total dissolved solids (TDS)	1520	mg/L			1480			3	5
<b>Batch B324857 - SW 3015 - EPA 6020A</b>									
<b>Blank (B324857-BLK1)</b>									
			Prepared: 02/06/23 Analyzed: 02/09/23						
Boron	< 10	ug/L							
Calcium	< 0.20	mg/L							
Magnesium	< 0.10	mg/L							
Potassium	< 0.10	mg/L							
Sodium	< 0.10	mg/L							
<b>LCS (B324857-BS1)</b>									
			Prepared: 02/06/23 Analyzed: 02/09/23						
Boron	524	ug/L		555.6		94	80-120		
Calcium	5.60	mg/L		5.556		101	80-120		
Magnesium	5.68	mg/L		5.556		102	80-120		
Potassium	5.69	mg/L		5.556		102	80-120		
Sodium	5.37	mg/L		5.556		97	80-120		
<b>Batch B324859 - No Prep - SM 2540C</b>									
<b>Blank (B324859-BLK1)</b>									
			Prepared & Analyzed: 02/06/23						
Solids - total dissolved solids (TDS)	< 17	mg/L							
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B324859-BS1)</b>									
			Prepared & Analyzed: 02/06/23						
Solids - total dissolved solids (TDS)	960	mg/L		1000		96	84.9-109		
Solids - total dissolved solids (TDS)	960	mg/L		1000		96	84.9-109		
<b>Batch B324958 - SW 3015 - EPA 6020A</b>									
<b>Blank (B324958-BLK1)</b>									
			Prepared: 02/07/23 Analyzed: 02/10/23						
Boron	< 10	ug/L							
Calcium	< 0.20	mg/L							
Magnesium	< 0.10	mg/L							
Potassium	< 0.10	mg/L							
Sodium	< 0.10	mg/L							
<b>LCS (B324958-BS1)</b>									
			Prepared: 02/07/23 Analyzed: 02/10/23						
Boron	561	ug/L		555.6		101	80-120		
Calcium	5.77	mg/L		5.556		104	80-120		
Magnesium	5.97	mg/L		5.556		108	80-120		
Potassium	5.68	mg/L		5.556		102	80-120		
Sodium	5.91	mg/L		5.556		106	80-120		
<b>Matrix Spike (B324958-MS1)</b>									
Sample: GB00423-04			Prepared: 02/07/23 Analyzed: 02/10/23						
Boron	725	ug/L		555.6	185	97	75-125		
Calcium	121	mg/L	Q4	5.556	120	23	75-125		
Magnesium	57.1	mg/L	Q4	5.556	53.9	57	75-125		
Potassium	8.41	mg/L		5.556	3.01	97	75-125		
Sodium	162	mg/L	Q4	5.556	162	NR	75-125		
<b>Matrix Spike Dup (B324958-MSD1)</b>									
Sample: GB00423-04			Prepared: 02/07/23 Analyzed: 02/10/23						
Boron	733	ug/L		555.6	185	99	75-125	1	20
Calcium	122	mg/L	Q4	5.556	120	31	75-125	0.4	20
Magnesium	56.5	mg/L	Q4	5.556	53.9	46	75-125	1	20



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Matrix Spike Dup (B324958-MSD1)</b>				Sample: GB00423-04		Prepared: 02/07/23 Analyzed: 02/13/23			
Potassium	8.33	mg/L		5.556	3.01	96	75-125	1	20
Sodium	161	mg/L	Q4	5.556	162	NR	75-125	0.4	20
<b><u>Batch B324970 - No Prep - SM 2540C</u></b>									
<b>Blank (B324970-BLK1)</b>				Prepared & Analyzed: 02/07/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B324970-BS1)</b>				Prepared & Analyzed: 02/07/23					
Solids - total dissolved solids (TDS)	1000	mg/L		1000		100	84.9-109		
<b><u>Batch B325003 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Calibration Blank (B325003-CCB1)</b>				Prepared & Analyzed: 02/06/23					
Sulfate	0.00	mg/L							
Chloride	0.961	mg/L							
<b>Calibration Check (B325003-CCV1)</b>				Prepared & Analyzed: 02/06/23					
Sulfate	4.88	mg/L		5.000		98	90-110		
Chloride	4.77	mg/L		5.000		95	90-110		
<b><u>Batch B325256 - No Prep - SM 2540C</u></b>									
<b>Blank (B325256-BLK1)</b>				Prepared & Analyzed: 02/09/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B325256-BS1)</b>				Prepared & Analyzed: 02/09/23					
Solids - total dissolved solids (TDS)	890	mg/L		1000		89	84.9-109		
<b><u>Batch B325451 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Calibration Blank (B325451-CCB1)</b>				Prepared & Analyzed: 02/09/23					
Sulfate	0.00	mg/L							
Chloride	0.870	mg/L							
<b>Calibration Check (B325451-CCV1)</b>				Prepared & Analyzed: 02/09/23					
Chloride	4.69	mg/L		5.000		94	90-110		
Sulfate	4.90	mg/L		5.000		98	90-110		
<b><u>Batch B325487 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Calibration Blank (B325487-CCB1)</b>				Prepared & Analyzed: 02/10/23					
Fluoride	0.00	mg/L							
Sulfate	0.00	mg/L							
Chloride	0.00	mg/L							
<b>Calibration Check (B325487-CCV1)</b>				Prepared & Analyzed: 02/10/23					
Chloride	4.97	mg/L		5.000		99	90-110		
Sulfate	4.98	mg/L		5.000		100	90-110		
Fluoride	5.20	mg/L		5.000		104	90-110		
<b><u>Batch B325491 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Calibration Blank (B325491-CCB1)</b>				Prepared & Analyzed: 02/10/23					
Chloride	0.140	mg/L							
Sulfate	0.00	mg/L							
Fluoride	0.00	mg/L							
<b>Calibration Check (B325491-CCV1)</b>				Prepared & Analyzed: 02/10/23					





**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Calibration Check (B325491-CCV1)</b>				Prepared & Analyzed: 02/10/23					
Chloride	4.69	mg/L		5.000		94	90-110		
Fluoride	5.05	mg/L		5.000		101	90-110		
Sulfate	4.89	mg/L		5.000		98	90-110		
<b><u>Batch B325508 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Calibration Blank (B325508-CCB1)</b>				Prepared & Analyzed: 02/11/23					
Sulfate	0.00	mg/L							
Fluoride	0.00	mg/L							
Chloride	0.940	mg/L							
<b>Calibration Check (B325508-CCV1)</b>				Prepared & Analyzed: 02/11/23					
Fluoride	5.04	mg/L		5.000		101	90-110		
Chloride	4.66	mg/L		5.000		93	90-110		
Sulfate	4.90	mg/L		5.000		98	90-110		
<b>Matrix Spike (B325508-MS2)</b>				Sample: GB00423-29		Prepared & Analyzed: 02/11/23			
Fluoride	2.53	mg/L		1.500	1.16	91	80-120		
Chloride	9.0	mg/L	Q4	1.500	8.2	52	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	37.4	NR	80-120		
<b>Matrix Spike Dup (B325508-MSD2)</b>				Sample: GB00423-29		Prepared & Analyzed: 02/11/23			
Chloride	9.2	mg/L	Q4	1.500	8.2	66	80-120	2	20
Sulfate	1.00E9	mg/L	Q4	1.500	37.4	NR	80-120	0	20
Fluoride	2.61	mg/L		1.500	1.16	97	80-120	3	20
<b><u>Batch B325668 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Calibration Blank (B325668-CCB1)</b>				Prepared & Analyzed: 02/13/23					
Sulfate	0.00	mg/L							
<b>Calibration Check (B325668-CCV1)</b>				Prepared & Analyzed: 02/13/23					
Sulfate	4.70	mg/L		5.000		94	90-110		
<b><u>Batch B325670 - No Prep - SM 2320B 1997</u></b>									
<b>Duplicate (B325670-DUP5)</b>				Sample: GB00423-30		Prepared & Analyzed: 02/13/23			
Alkalinity - carbonate as CaCO3	< 10	mg/L				ND			10
<b><u>Batch B325679 - No Prep - SM 2320B 1997</u></b>									
<b>Duplicate (B325679-DUP1)</b>				Sample: GB00256-15		Prepared & Analyzed: 02/08/23			
Alkalinity - carbonate as CaCO3	< 10	mg/L				ND			10
<b><u>Batch B325681 - No Prep - SM 2320B 1997</u></b>									
<b>Duplicate (B325681-DUP1)</b>				Sample: GB00256-15		Prepared & Analyzed: 02/08/23			
Alkalinity - bicarbonate as CaCO3	175	mg/L				175		0	10
<b><u>Batch B325804 - No Prep - SM 4500F C 1997</u></b>									
<b>Calibration Blank (B325804-CCB1)</b>				Prepared & Analyzed: 02/15/23					
Fluoride	0.0160	mg/L							
<b>Calibration Blank (B325804-CCB2)</b>				Prepared & Analyzed: 02/15/23					
Fluoride	0.00800	mg/L							
<b>Calibration Check (B325804-CCV1)</b>				Prepared & Analyzed: 02/15/23					
Fluoride	0.690	mg/L		0.7000		99	90-110		



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Calibration Check (B325804-CCV2)</b>				Prepared & Analyzed: 02/15/23					
Fluoride	0.757	mg/L		0.7000		108	90-110		
<b><u>Batch B325811 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Calibration Blank (B325811-CCB1)</b>				Prepared & Analyzed: 02/14/23					
Chloride	0.00	mg/L							
<b>Calibration Check (B325811-CCV1)</b>				Prepared & Analyzed: 02/14/23					
Chloride	4.85	mg/L		5.000		97	90-110		
<b><u>Batch B326062 - No Prep - SM 4500F C 1997</u></b>									
<b>Calibration Blank (B326062-CCB1)</b>				Prepared & Analyzed: 02/17/23					
Fluoride	0.00500	mg/L							
<b>Calibration Blank (B326062-CCB2)</b>				Prepared & Analyzed: 02/17/23					
Fluoride	0.0180	mg/L							
<b>Calibration Check (B326062-CCV2)</b>				Prepared & Analyzed: 02/17/23					
Fluoride	0.738	mg/L		0.7000		105	90-110		
<b>Matrix Spike (B326062-MS1)</b>				Sample: GB00256-15		Prepared & Analyzed: 02/17/23			
Fluoride	1.22	mg/L		1.000	0.141	108	80-120		
<b>Matrix Spike Dup (B326062-MSD1)</b>				Sample: GB00256-15		Prepared & Analyzed: 02/17/23			
Fluoride	1.22	mg/L		1.000	0.141	108	80-120	0.08	20
<b><u>Batch B326243 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Calibration Blank (B326243-CCB1)</b>				Prepared & Analyzed: 02/17/23					
Chloride	0.00	mg/L							
Sulfate	0.00	mg/L							
<b>Calibration Check (B326243-CCV1)</b>				Prepared & Analyzed: 02/17/23					
Chloride	4.99	mg/L		5.000		100	90-110		
Sulfate	5.00	mg/L		5.000		100	90-110		
<b><u>Batch B326438 - No Prep - SM 2320B 1997</u></b>									
<b>Blank (B326438-BLK1)</b>				Prepared & Analyzed: 02/21/23					
Alkalinity - bicarbonate as CaCO3	2.50	mg/L							
<b>Duplicate (B326438-DUP1)</b>				Sample: GB00423-31RE1		Prepared & Analyzed: 02/21/23			
Alkalinity - bicarbonate as CaCO3	538	mg/L	H		538			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.
- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.



Certified by: Gail Schindler, Project Manager

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

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:		Page: <i>8</i> of <i>11</i>	
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		<b>REGULATORY AGENCY</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>		NPDES <b>GROUND WATER</b> DRINKING WATER	
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quote Reference:		UST RCRA OTHER	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:		Site Location	
				Profile #:		STATE: <b>IL</b>	

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_NPDES_501
1	MW31S																								
2	MW33S																								
3	MW34D																								
4	MW35D		WT G		1/31/23	1318	0																		
5	MW35S																								
6	MW36S																								
7	- MW43D		WT G		2/1/23	1117	2	X	X																
8	MW46D																								
9	MW48S																								
10	R201																								
11	R202																								
12	R216																								
13	R217D		WT G		1/31/23	1253	2	X	X																
14	R219																								
15	SG02																								
16	XPW01																								

*unable to open*

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
<b>NEW-Q1-2023</b>	<i>James R. Neal</i>	2/1/23	1139	<i>James R. Neal</i>	2/1/23	1140					
	<i>James R. Neal</i>	2/1/23	1347				0.5				

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 Remington</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>				
	DATE Signed (MM/DD/YY): <i>01/31/23</i>				

*Vana Wayne 1547  
2-1-23*

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

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

Page: 2 of 5

<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>		<b>REGULATORY AGENCY</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:		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  <b>SAMPLE ID</b> (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE (see valid codes to left)	COLLECTED DATE TIME	SAMPLE TYPE (G=GRAB C=COMP)	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	A207																						
2	A213	WT G	2/1/23 1000			4	X	X	X	X													
3	A214	WT G	1/31/23 1613			4	X	X	X	X													
4	A215	WT G	1/31/23 1415			4	X	X	X	X													
5	APW02																						
6	APW03																						
7	APW04																						
8	APW05																						
9	APW06																						
10	APW07	WT G	1/31/23 1738			3	X	X															
11	APW08	WT G	1/31/23 1321			3	X	X															
12	APW09	WT G	1/31/23 1529			3	X	X															
13	APW10	WT G	1/31/23 1428			3	X	X															
14	G06D																						
15	G104																						
16	G104D																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
<b>NEW-Q1-2023</b>	<i>Joseph A. Reed</i>	2/1/23	1139	<i>Joseph A. Reed</i>	2/1/23	1140			
	<i>Joseph A. Reed</i>	2/1/23	1547				0.5		

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 Pemberon</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	01/31/23		

*Verna Wayne*  
2-1-23 1547

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

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Page: 3 of 5

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

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				
1	G221																		
2	G222																		
3	G223			WTG		2/1/23	1024												
4	G224			WTG		1/31/23	1450	2	X	X									
5	G225																		
6	G230			WTG		2/1/23	0957	6	X	X	X	X							
7	G231			WTG		2/1/23	1047	6	X	X	X	X							
8	G232			WTG		2/1/23	1132	6	X	X	X	X							
9	G233																		
10	G234																		
11	G48MG																		
12	L1R																		
13	L201																		
14	L202																		
15	L203																		
16	L204																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
<b>NEW-Q1-2023</b>	<i>[Signature]</i>	2/1/23	1530	<i>[Signature]</i>	2/1/23	1140					
	<i>[Signature]</i>	2/1/23	1547	<i>[Signature]</i>			0.5				

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>[Signature]</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>				
	DATE Signed (MM/DD/YY):				
	<u>01/31/23</u>				

*Varone Wayne*  
2-1-23 1547



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

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

Page: 4 of 5

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

ITEM #	Section D Required Client Information	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_NPDES_501
1		G120																							
2		G125																							
3		G128																							
4		G130																							
5		G133	W	G	2/1/23	10:38	6	X	X	X															
6		G136																							
7		G139																							
8		G141																							
9		G201																							
10		G202																							
11		G203	W	G	2/1/23	11-10	2	X	X																
12		G208																							
13		G217D																							
14		G217S																							
15		G218																							
16		G220																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
<b>NEW-Q1-2023</b>	<i>[Signature]</i>	2/1/23	1139	<i>[Signature]</i>	2/1/23	1140			
	<i>[Signature]</i>	2/1/23	1547				0.5		

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER:	<i>[Signature]</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	02/01/23		

*Vanessa Wagoner*  
2-1-23 1547

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

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Page: 2 of 7

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

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 ↓	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_NPDES_501
1	G104S																								
2	G105																								
3	G106																								
4	G108			WT G		1/31/23	1332		0																
5	G109																								
6	G110																								
7	G111																								
8	G112																								
9	G113																								
10	G114			WT G		1/31/23	1452		2 X	X															
11	G114D			WT G		1/31/23	1600		2 X	X															
12	G115																								
13	G116																								
14	G117																								
15	G118			WT G		2/1/23	1011		2 X	X															
16	G119																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
<b>NEW-Q1-2023</b>	<i>[Signature]</i>	2/1/23	1139	<i>[Signature]</i>	2/1/23	1140			
	<i>[Signature]</i>	2/1/23	1547				05		

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 Pemberton</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY): <u>01/31/23</u>			

*Van Wagner*  
2-1-23 1547

*not at station  
APP 1/31/23*

GBO0423-  
870B

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

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<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    GROUND WATER    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: <b>(217) 753-8911</b> Fax:		Project Name:		Project Reference:		STATE: <b>IL</b>	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2265</b>		Project Manager:		Profile #:	

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 list)	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				
1	A207																		
2	A213																		
3	A214																		
4	A215																		
5	APW02		WT	G	2/1/23	1631	2	X	X										
6	APW03		WT	G	2/1/23	1527	2	X	X										
7	APW04		WT	G	2/2/23	1143	2	X	X										
8	APW05																		
9	APW06																		
10	APW07																		
11	APW08																		
12	APW09																		
13	APW10																		
14	G06D		WT	G	2/1/23	1712	2	X	X										
15	G104		WT	G	2/1/23	1750	4	X	X	X	X								
16	G104D		WT	G	2/1/23	1736	2	X	X										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<b>NEW-Q1-2023</b>	<i>[Signature]</i>	2/2/23	1621	<i>[Signature]</i>	2/2/23	16:21	Temp in °C	Received on Ice (Y/N)	Cooler Sealed (Y/N)	Sample Intact (Y/N)
							4.2	yes	no	yes

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	<i>Baron Remberton</i>
SIGNATURE of SAMPLER:	<i>[Signature]</i>
DATE Signed (MM/DD/YYYY):	02/01/23

4.2°

G800423

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

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<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    GROUND WATER    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  <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 SOLUSOLID    SL OIL    OL WIPE    WP AIR    AR OTHER    OT TISSUE    TB	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_NPDES_501		
1	G104S																									
2	G105		WT G		2/1/23	1427		4	X	X	X															
3	G106		WT G		2/1/23	1440		4	X	X	X															
4	G108																									
5	G109																									
6	G110																									
7	G111																									
8	G112																									
9	G113																									
10	G114																									
11	G114D																									
12	G115																									
13	G116		WT G		2/2/23	1022		4	X	X	X															
14	G117																									
15	G118																									
16	G119																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<b>NEW-Q1-2023</b>	<i>[Signature]</i>	2/2/23	1621	<i>[Signature]</i>	2/2/23	14:21	4.2	yes	no	yes

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):		02/01/23			

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

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<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    GROUND WATER    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: <b>(217) 753-8911</b> 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  <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 SOLID/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMPO)	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
1	G120		WT	G	2/12/23	1234	4	X	X	X	X									
2	G125		WT	G	2/11/23	1659	6	X	X	X	X									
3	G128		WT	G	2/11/23	1300	6	X	X	X	X									
4	G130		WT	G	2/11/23	1300	6	X	X	X	X									
5	G133																			
6	G136		WT	G	2/11/23	1503	4	X	X	X	X									
7	G139		WT	G	2/11/23	1539	4	X	X	X	X									
8	G141		WT	G	2/12/23	1154	4	X	X	X	X									
9	G201		WT	G	2/12/23	1019	6	X	X	X	X									
10	G202		WT	G	2/11/23	1635	6	X	X	X	X									
11	G203		WT	G	2/11/23	1527	2	X	X											
12	G208																			
13	G217D																			
14	G217S		WT	G	2/11/23	1750	4	X	X	X	X									
15	G218																			
16	G220		WT	G	2/11/23	1301	2	X	X											
ADDITIONAL COMMENTS					RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS							
NEW-Q1-2023					<i>[Signature]</i>		2/12/23	16:21	<i>[Signature]</i>		2/12/23	16:21	4.2	Yes	No	Yes				
SAMPLER NAME AND SIGNATURE										Temp in °C	Received on Ice (Y/N)	Custody Sealed Container (Y/N)	Samples Intact (Y/N)							
PRINT Name of SAMPLER:																				
SIGNATURE of SAMPLER:																				
										DATE Signed (MM/DD/YYYY): 02/01/23										



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

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<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    GROUND WATER    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: <b>(217) 753-8911</b> 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  <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE	Valid Matrix Codes CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ Y/N ↓	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
						DATE	TIME			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				
1	G221	WT	G	WT	G	2/1/23	1334	4	X	X	X	X								
2	G222	WT	G	WT	G	2/1/23	1402	2	X	X										
3	G223																			
4	G224																			
5	G225	WT	G	WT	G	2/2/23	1112	4	X	X	X	X								
6	G230																			
7	G231																			
8	G232																			
9	G233	WT	G	WT	G	2/1/23	1319	6	X	X	X	X								
10	G234	WT	G	WT	G	2/1/23	1238	6	X	X	X	X								
11	G48MG	WT	G	WT	G	2/2/23	1025	2	X		X									
12	L1R	WT	G	WT	G	2/2/23	1215	2	X	X										
13	L201																			
14	L202																			
15	L203																			
16	L204																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<b>NEW-Q1-2023</b>	<i>[Signature]</i>	2/2/23	16:21	<i>[Signature]</i>	2/2/23	16:21	4.2	yes	no	yes

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>[Signature]</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	02/01/23		







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

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<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    GROUND WATER    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  <b>SAMPLE ID</b> (A-Z, 0-9, -) Sample IDs MUST BE UNQVE	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=COMPF)	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_NPDES_501	
1	XPW02		WT	G	2/1/23	1749	2	X	X																
2	XPW03		WT	G	2/2/23	1108	2	X	X																
3	XPW04		WT	G	2/1/23	1440	4	X	X																
4	XSG01																								
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			
<b>NEW-Q1-2023</b>	<i>[Signature]</i>	2/2/23	16:21	<i>[Signature]</i>	2/2/23	16:21	4.2	YES	NO	YES

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>Jason Stuckey</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	02/01/23		

App 2/1/23

Newton

WELL/SAMPLE POINT ~~S102~~<sup>K10</sup> 104D Purge Method: BASLER  
 Date: 02/01/23 Start Time: 1714 Finish/Sample Time: 1736  
 Well Depth (Bottom) From MP: 90.38 ft Min. Purge Volume:        Gal / L  
 Depth to Water From MP: 50.73 ft Total Purge Volume: 19.00 Gal / L  
 Water Column Length: 39.65 ft Max Drawdown:        ft  
 Well Water Volume: 2401 Gal <sup>KAS</sup> 6.34 Total Drawdown: 14.81 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1723	55.40	—	8.28	1077	10.40	48	4.58	139
2	1727	59.90	—	7.95	1056	10.72	50	4.85	28.50
3	1732	64.15	—	7.67	1053	11.40	38	3.86	10.40
4							38		
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)
	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) 500

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 65.54 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]

Newton

WELL/SAMPLE POINT G06D

Purge Method: COMPRESSOR blowdown

Date: 01/31/23 Start Time: 1006 Finish/Sample Time: 1712

Well Depth (Bottom) From MP: 94.46 ft APP 2/1/23 Min. Purge Volume: — Gal/L

Depth to Water From MP: 28.91 ft Total Purge Volume: 1.00 Gal (L)

Water Column Length: 65.55 ft Max Drawdown: — ft

Well Water Volume: 39.69 Gal (L) Total Drawdown: 3.21 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	1659	30.46	100	7.17	1590	9.08	-102	1.57	444
2	1701	30.64	100	7.16	1590	9.12	-106	1.54	471
3	1703	30.82	100	7.16	1590	9.20	-110	1.48	460
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 type="checkbox"/>	<input checked="" type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

BOTTLE INFORMATION:

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

(2)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 32.12 ft

Comments: HOLE IN AIRLINE TOP IN WATER LINE

Sampler's Signature: [Signature]

APP 2/1/23







**Newton**

WELL/SAMPLE POINT G114

Purge Method: basile

Date: 1/31/2023 Start Time: 1413

Finish/Sample Time: 1452

Well Depth (Bottom) From MP: 44.67 ft

Min. Purge Volume: — Gal / L

Depth to Water From MP: 18.46 ft

Total Purge Volume: 48 Gal / L

Water Column Length: 26.21 ft

Max Drawdown: — ft

Well Water Volume: 15.85 Gal / L

Total Drawdown: 14.44 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	1427	27.0	—	7.01	4320	10.04	-61	7.54	1000
2	1436	31.00	—	7.00	4200	10.05	-52	7.52	1000
3	1447	32.45	—	6.96	3710	10.04	-48	7.49	1000
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<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 type="checkbox"/>	<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)
	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>500mL</u>

②

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 32.40 ft

Comments

Sampler's Signature: [Signature]

WELL/SAMPLE POINT G114D

Purge Method: bailey

Date: 1/31/2023 Start Time: 1459 Finish/Sample Time: 1600

Well Depth (Bottom) From MP: 93.33 ft  
 Depth to Water From MP: 42.98 ft  
 Water Column Length: 50.35 ft  
 Well Water Volume: 30.45 Gal   
 Min. Purge Volume: - Gal / L  
 Total Purge Volume: 93 Gal   
 Max Drawdown: - ft  
 Total Drawdown: 0.05 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1525	43.03	-	7.52	1780	8.92	-101	6.00	1000
2	1540	43.03	-	7.49	1550	9.00	-113	6.04	1000
3	1555	43.03	-	7.47	1530	9.10	-113	6.03	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)
	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>500mL</u>

2

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 43.03 ft

Comments \_\_\_\_\_

Sampler's Signature: 

**Newton**

WELL/SAMPLE POINT G118

Purge Method: boiler

Date: 2/1/2023 Start Time: 0945 Finish/Sample Time: 1011

Well Depth (Bottom) From MP: 22.53 ft  
 Depth to Water From MP: 7.44 ft  
 Water Column Length: 15.09 ft  
 Well Water Volume: 9.13 Gal (L)

Min. Purge Volume: — Gal / L  
 Total Purge Volume: 30 Gal (L)  
 Max Drawdown: — ft  
 Total Drawdown: 2.66 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	0954	11.22	—	7.48	545	11.32	183	2.60	1000
2	0959	12.38	—	7.41	545	11.29	176	2.58	1000
3	1005	12.15	—	7.40	545	11.27	174	2.56	1000
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: Hanna

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

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

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, 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) → 500 mL

(2)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 10.10 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]

Newton

WELL/SAMPLE POINT G128

Purge Method: PORTABLE PUMP

Date: 02/01/23 Start Time: 1636 Finish/Sample Time: 1659

Well Depth (Bottom) From MP: 30.05 ft Min. Purge Volume:        Gal / L

Depth to Water From MP: 5.09 ft Total Purge Volume: 1.00 Gal Ⓟ

Water Column Length: 24.96 ft Max Drawdown:        ft

Well Water Volume: 15.11 Gal Ⓟ Total Drawdown: 10.72 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1642	8.60	100	7.28	1407	7.91	124	5.69	0.00
2	1643	12.10.21	100	6.98	1409	8.02	121	4.07	76.20
3	1644	12.83	100	6.75	1600	8.75	115	4.41	35.80
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HANNA

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

Well Integrity	Yes	No
Well has ID sign	<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)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000

Ⓞ

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)

Final DTW: 15.81 ft

Comments USED PORTABLE PUMP

Sampler's Signature: 

Newton

WELL/SAMPLE POINT G130

Purge Method: portable pump

Date: 2/1/2023 Start Time: 1216 Finish/Sample Time: 1300

Well Depth (Bottom) From MP: 23.20 ft  
 Min. Purge Volume: - Gal/L  
 Depth to Water From MP: 4.61 ft  
 Total Purge Volume: 1000 Gal/L (L)  
 Water Column Length: 18.59 ft  
 Max Drawdown: - ft  
 Well Water Volume: 11.24 Gal (L)  
 Total Drawdown: 1.30 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	1231	5.91	100	6.47	1020	9.68	223	2.99	260
2	1233	5.91	100	6.46	1020	9.77	223	2.96	252
3	1235	5.91	100	6.45	1020	9.80	223	2.90	246
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 type="checkbox"/>	<input checked="" type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input type="checkbox"/>	<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)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) <u>1000mL</u>

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)

Final DTW: 5.91 ft

Comments: per static not working has to use portable

Sampler's Signature: [Signature]

Newton

WELL/SAMPLE POINT G133

Purge Method: Water

Date: 2/1/2023 Start Time: 1019 Finish/Sample Time: 1038

Well Depth (Bottom) From MP: 27.60 ft  
 Min. Purge Volume: - Gal/L  
 Depth to Water From MP: 9.52 ft  
 Total Purge Volume: 9 Gal/L  
 Water Column Length: 18.08 ft  
 Max Drawdown: - ft  
 Well Water Volume: 2.89 Gal/L  
 Total Drawdown: 8.22 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1027	16.48	-	7.00	4560	11.80	237	3.78	1000
2	1029	17.60	-	6.98	4570	11.81	239	3.72	1000
3	1032	18.10	-	6.94	4540	11.80	240	3.74	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 type="checkbox"/>	<input checked="" type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input type="checkbox"/>	<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)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) <u>1000 mL</u>

(6)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)

Final DTW: 17.74 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]



**NEWTON**

WELL/SAMPLE POINT G48MG

Purge Method: portable pump

Date: 2/2/2023 Start Time: 0943 Finish/Sample Time: 1025

Well Depth (Bottom) From MP: 80.05 ft  
 Depth to Water From MP: 19.27 ft  
 Water Column Length: 60.78 ft  
 Well Water Volume: 36.76 Gal  $\text{\textcircled{C}}$

Min. Purge Volume: — Gal / L  
 Total Purge Volume: 1000 Gal / L  
 Max Drawdown: — ft  
 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	10:13	19.36	100	7.41	863	12.19	-142	1.13	1000
2	10:15	19.36	100	7.42	862	12.23	-144	1.11	1000
3	10:17	19.36	100	7.42	860	12.29	-145	1.08	1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

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

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

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	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>250</del> mL) <u>500mL</u>

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 3 19.37 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]

Newton

WELL/SAMPLE POINT G201

Purge Method: COMPRESSOR

Date: 02/02/23 Start Time: 0940 Finish/Sample Time: 1019

Well Depth (Bottom) From MP: 67.25 ft  
 Depth to Water From MP: 17.94 ft  
 Water Column Length: 49.31 ft  
 Well Water Volume: 29.86 Gal (C)  
 Min. Purge Volume: \_\_\_\_\_ Gal/L  
 Total Purge Volume: 1.00 Gal (D)  
 Max Drawdown: \_\_\_\_\_ ft  
 Total Drawdown: 0.51 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	0956	18.45	100	7.26	1024	10.27	66	2.20	0.00
2	0957	18.45	100	7.28	1025	10.56	67	1.97	0.00
3	0958	18.45	100	7.26	1025	10.76	69	1.83	0.00
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HANNA

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

Well Integrity	Yes	No
Well has ID sign	<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:**

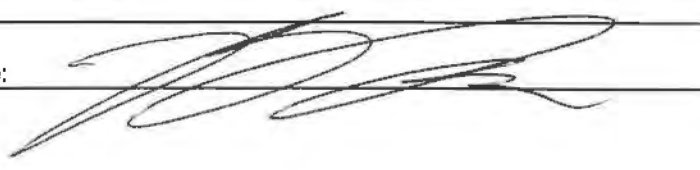
Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 500

(6)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)

Final DTW: 18.45 ft

Comments \_\_\_\_\_

Sampler's Signature: 

Newton

WELL/SAMPLE POINT R201

Purge Method: COMPRESSOR

Date: 02/02/23 Start Time: 0850 Finish/Sample Time: 0940

Well Depth (Bottom) From MP: 80.42 ft Min. Purge Volume:      Gal/L

Depth to Water From MP: 18.06 ft Total Purge Volume: 1.00 Gal

Water Column Length: 62.36 ft Max Drawdown:      ft

Well Water Volume: 37.76 Gal Total Drawdown: 9.12 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	0920	22.20	100	7.22	1021	11.65	105	10.13	192
2	0921	22.83	100	7.23	1021	11.60	106	9.18	147
3	0922	23.61	100	7.23	1021	11.61	108	9.31	151
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:**

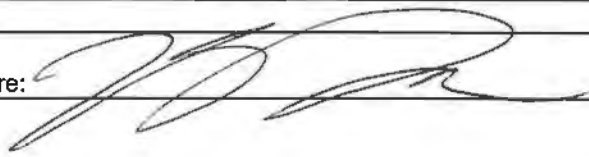
Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
/	Metals (P,250mL, HNO3)
/	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
/	General (P, 250 mL) <u>300</u>

6

Filtered	
Qty	Bottles
/	Metals (P,250mL, HNO3)
/	Ammonia (P,250mL, H2SO4)
/	General (P,500mL)

Final DTW: 27.18 ft

Comments

Sampler's Signature: 

**Newton**

WELL/SAMPLE POINT G202

Purge Method: COMPRESSOR

Date: 02/01/23 Start Time: 1603 Finish/Sample Time: 1635

Well Depth (Bottom) From MP: 70.00 ft Min. Purge Volume:        Gal / L

Depth to Water From MP: 48.05 ft Total Purge Volume: 1.00 Gal

Water Column Length: 21.95 ft Max Drawdown:        ft

Well Water Volume: 13.29 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	1616	48.05	100	7.68	1022	9.68	50	4.03	0.00
2	1617	48.05	100	7.68	1022	9.85	50	3.84	0.00
3	1618	48.05	100	7.68	1022	10.01	50	4.03	0.00
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HORZM

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)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) <u>500</u>

6

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)

Final DTW: 48.05 ft

Comments

Sampler's Signature: 

**NEWTON**

WELL/SAMPLE POINT R202

Purge Method: COMPRESSOR

Date: 02/04/03 Start Time: 1529 Finish/Sample Time: 1602

Well Depth (Bottom) From MP: 69.57 ft Min. Purge Volume:        Gal/L

Depth to Water From MP: 47.85 ft Total Purge Volume: 1.00 Gall

Water Column Length: 21.72 ft Max Drawdown:        ft

Well Water Volume: 13.15 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	1545	47.85	100	7.55	1016	9.96	44	5.31	0.00
2	1546	47.85	100	7.51	1017	10.02	45	4.90	0.00
3	1547	47.85	100	7.54	1017	10.01	46	4.84	0.00
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)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 500

6  
9 km

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)

Final DTW: 47.85 ft

Comments

Sampler's Signature: [Signature]

Newton

WELL/SAMPLE POINT G203

Purge Method: COMPRESSOR

Date: 02/01/23 Start Time: 1503 Finish/Sample Time: 1527

Well Depth (Bottom) From MP: 71.80 ft Min. Purge Volume:        Gal / L

Depth to Water From MP: 41.60 ft Total Purge Volume: 1.00 Gal

Water Column Length: 30.20 ft Max Drawdown:        ft

Well Water Volume: 18.28 Gal  Total Drawdown: 0.60 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1520	41.60	100	7.54	1032	9.55	57	6.03	11.20
2	1521	41.60	100	7.51	1032	9.70	58	6.47	12.50
3	1522	41.60	100	7.46	1030	9.80	57	5.54	19.00
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)
	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>250</del> mL) 500

②

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 41.60 ft

Comments

Sampler's Signature: [Signature]



Newton

WELL/SAMPLE POINT G208

Purge Method: Compressor

Date: 02/01/23 Start Time: 1037 Finish/Sample Time: 1110

Well Depth (Bottom) From MP: 98.30 ft Min. Purge Volume:          Gal / L

Depth to Water From MP: 24.19 ft Total Purge Volume: 1.00 Gal

Water Column Length: 74.11 ft Max Drawdown:          ft

Well Water Volume: 44.88 Gal Total Drawdown: 5.04 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1050	27.32	100	6.90	1035	10.02	6	6.90	0.00
2	1051	27.40	100	6.87	1036	10.96	17	3.86	0.00
3	1052	27.89	100	6.86	1038	11.26	38	2.92	0.00
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HANNA

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod.  Strong

Well Integrity	Yes	No
Well has ID sign	<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)
	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>560</u>

②

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 29.25 ft

Comments

Sampler's Signature: 

Newton

WELL/SAMPLE POINT R G217D *same well*

Purge Method: C

Date: 01/31/23 Start Time: 1220 Finish/Sample Time: 1253

Well Depth (Bottom) From MP: 61.45 ft Min. Purge Volume:        Gal / L  
 Depth to Water From MP: 19.65 ft Total Purge Volume: 1.00 Gal / L  
 Water Column Length: 41.80 ft Max Drawdown:        ft  
 Well Water Volume: 25.31 Gal / L Total Drawdown: 0.25 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1239	19.90	100	6.22	427	3.91	246	4.31	131
2	1240	19.90	100	6.35	429	3.47	244	3.90	118
3	1241	19.90	100	6.44	431	3.54	243	3.79	122
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HANNA

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

Well Integrity	Yes	No
Well has ID sign	<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)
	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>560</u>

②

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 19.90 ft

Comments: Total metals & general labeled as G217D

Sampler's Signature: [Signature]

Newton

WELL/SAMPLE POINT G220

Purge Method: COMPRESSOR

Date: 02/01/03 Start Time: 1230 Finish/Sample Time: 1301

Well Depth (Bottom) From MP: 88.95 ft  
 Depth to Water From MP: 18.78 ft  
 Water Column Length: 70.17 ft  
 Well Water Volume: 42.49 Gal/ft

Min. Purge Volume:        Gal / L  
 Total Purge Volume: 1.00 Gal/ft  
 Max Drawdown:        ft  
 Total Drawdown: 1.96 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1248	19.56	100	7.49	267	8.21	66	8.38	4.80
2	1249	19.72	100	7.56	285	8.89	64	7.56	1.50
3	1250	19.98	100	7.44	325	9.36	31	6.92	0.90
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: 

Sample Appearance: Hazy

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)
	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) 500

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 20.74 ft

Comments

Sampler's Signature: 

Newton

WELL/SAMPLE POINT G222

Purge Method: Wasser

Date: 02/01/23 Start Time: 18:40 <sup>1338</sup> Finish/Sample Time: 1402

Well Depth (Bottom) From MP: 82.00 ft Min. Purge Volume: — Gal / L

Depth to Water From MP: 18.80 ft Total Purge Volume: 1.00 Gal / L

Water Column Length: 63.20 ft Max Drawdown: — ft

Well Water Volume: 38.27 Gal (L) Total Drawdown: 0.43 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1350	18.85	100	7.48	1084	9.11	20	8.15	0.00
2	1351	18.95	100	7.41	1075	10.05	51	7.91	0.00
3	1352	19.13	100	7.43	1074	10.90	65	8.63	0.00
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)
	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>250</del> mL) 500

②

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 19.23 ft

Comments

Sampler's Signature: 

NEWTON

WELL/SAMPLE POINT G223

Purge Method: COMPRESSOR

Date: 02/01/23 Start Time: 1001 Finish/Sample Time: 2:10:29

Well Depth (Bottom) From MP: 85.48 ft Min. Purge Volume:        Gal / L

Depth to Water From MP: 33.40 ft Total Purge Volume: 1.00 Gal / L

Water Column Length: 52.08 ft Max Drawdown:        ft

Well Water Volume: 31.53 Gal  Total Drawdown: 2.55 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	10:20	35.40	100	6.62	3022	10.39	67	1.99	0.00
2	10:21	35.54	100	6.59	3023	10.46	59	1.79	0.00
3	2:08:22	35.70	100	6.58	3023	10.53	97	1.68	0.00
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)
	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>500</u>

②

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 35.95 ft

Comments \_\_\_\_\_

Sampler's Signature: 

Newton

WELL/SAMPLE POINT G224

Purge Method: COMPRESSOR

Date: 11/31/23 Start Time: <sup>KMD</sup> ~~1024~~ 1420 Finish/Sample Time: 1450

Well Depth (Bottom) From MP: 76.08 ft Min. Purge Volume: — Gal/L

Depth to Water From MP: <sup>KMD</sup> ~~42.79~~ 41.84 ft Total Purge Volume: 1.00 Gal/⓪

Water Column Length: <sup>KMD</sup> ~~63.29~~ 34.24 ft Max Drawdown: — ft

Well Water Volume: <sup>KMD</sup> ~~38.32~~ 20.73 Gal Total Drawdown: 0.95 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	<del>1440</del> 1441	42.79	100	7.74	1025	8.85	203	3.15	206
2	1442	42.79	100	7.70	1025	8.87	203	2.54	195
3	1443	42.79	100	7.67	1024	8.97	203	2.44	182
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"/>

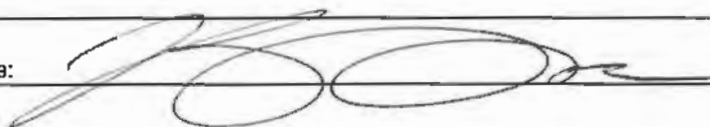
**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	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)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 42.79 ft

Comments

Sampler's Signature: 



NEWTON

WELL/SAMPLE POINT G230

Purge Method: 10' N-Flow

Date: 2-1-23 Start Time: 09:22 Finish/Sample Time: 09:57

Well Depth (Bottom) From MP: ~~76.18~~ ft top of pump Min. Purge Volume: 1.0 Gal/L

Depth to Water From MP: 48.45 ft Total Purge Volume: 1.3 Gal/L

Water Column Length: 28.03 ft Max Drawdown: — ft

Well Water Volume: 4.4 Gal/L Total Drawdown: 0.11 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	09:33	48.57	100	7.19	1,820	11.70	-49	3.50	344
2	09:34	48.57		7.19	1,840	11.69	-40	3.41	353
3	09:35	48.56		7.17	1,850	11.70	-40	3.31	342
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: Horiba

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

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

BOTTLE INFORMATION:

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

b

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)

Final DTW: 48.56 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]

**NEWTON**

WELL/SAMPLE POINT G231

Purge Method: 1AW - Flow

Date: 2-1-23 Start Time: 10:09 Finish/Sample Time: 10:47

Well Depth (Bottom) From MP: ~~76.7~~ ft + 2 OF PUMP Min. Purge Volume: 1.0 Gal/L  
 Depth to Water From MP: 47.82 ft Total Purge Volume: 1.3 Gal/L  
 Water Column Length: 28.35 ft Max Drawdown: — ft  
 Well Water Volume: 4.5 Gal/L Total Drawdown: 0.01 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	10.20	47.81	100	7.78	1,170	10.76	36	3.31	256
2	10.21	47.83		7.77	1,190	10.75	25	3.22	382
3	10.22	47.82		7.78	1,200	10.71	20	3.18	397
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 type="checkbox"/>	<input checked="" 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)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) <u>533 mL</u>

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)

Final DTW: 47.83 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]

**NEWTON**

WELL/SAMPLE POINT G232

Purge Method: 10W-Flow

Date: 2-1-23 Start Time: 10:52 Finish/Sample Time: 11:32

Well Depth (Bottom) From MP: ~~72.80~~ ft TOP OF PUMP Min. Purge Volume: 1.0 Gal / L

Depth to Water From MP: 46.16 ft Total Purge Volume: 1.3 Gal / L

Water Column Length: 26.64 ft Max Drawdown: — ft

Well Water Volume: 4.2 Gal / L Total Drawdown: 0 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	11:04	46.13	100	7.80	1,530	11.64	-67	2.78	151
2	11:05	46.09		7.82	1,550	11.72	-76	2.53	156
3	11:06	46.10		7.85	1,560	11.86	-82	2.41	196
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)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) <u>500 mL</u>

6

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 46.09 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]

**NEWTON**

WELL/SAMPLE POINT G233

Purge Method: LOW-FLOW

Date: 2-1-23 Start Time: 12:43 Finish/Sample Time: 13:19

Well Depth (Bottom) From MP: 70.73 ft Top of Well Min. Purge Volume: 1.0 Gal / L

Depth to Water From MP: 42.00 ft Total Purge Volume: 1.3 Gal / L

Water Column Length: 28.73 ft Max Drawdown: — ft

Well Water Volume: 43.55 Gal / L Total Drawdown: 1.81 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	12.55	<del>43.75</del>	100	7.39	1990	10.54	-38	2.40	273
2	12.56	43.57		7.33	1990	10.61	-41	2.30	282
3	12.57	43.54		7.29	1990	10.75	-58	2.19	240
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)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) <u>500 mL</u>

6

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)

Final DTW: 43.81 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]

**NEWTON**

WELL/SAMPLE POINT G234

Purge Method: LOW-FLOW

Date: 2-1-23 Start Time: 11:59 Finish/Sample Time: 12:38

Well Depth (Bottom) From MP: ~~90.56~~ ft TOP OF WELL Min. Purge Volume: 1.0 Gal/L

Depth to Water From MP: ~~48.56~~ ft 43.56 Total Purge Volume: 1.3 Gal/L

Water Column Length: 27.0 ft Max Drawdown: — ft

Well Water Volume: 4.32 Gal/L Total Drawdown: 0.04 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	12:12	43.60	100	7.54	1,680	12.07	-122	2.70	<del>1000</del> >1000
2	12:13	43.60		7.53	1,690	12.03	-126	2.62	<del>1000</del> >1000
3	12:14	43.60		7.52	1,710	12.00	-129	2.51	<del>1000</del> >1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Haniba

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)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
{	Metals (P,250mL, HNO3)
}	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL) <u>500 ML</u>

6

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)

Final DTW: 43.60 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]

**NEWTON**

WELL/SAMPLE POINT L1R

Purge Method: baller

Date: 2/2/2023 Start Time: 1202 Finish/Sample Time: 1215

Well Depth (Bottom) From MP: 60.23 ft Min. Purge Volume: - Gal/L

Depth to Water From MP: 55.05 ft Total Purge Volume: 0.5 Gal/L

Water Column Length: 5.18 ft Max Drawdown: - ft

Well Water Volume: 3.13 Gal Total Drawdown: 0.45 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		(ft.)	(mL/min)	(s.u.)	(umhos/cm)	(deg C)	(mV)	(mg/L)	(NTU)
1	1207	55.50	-	11.22	53700	14.90	-245	3.00	1000
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

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

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input type="checkbox"/>	<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)
	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>500mL</u>

2

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 55.50 ft

Comments only 1/2 ball purged due to low water volume

Sampler's Signature: [Signature]



**NEWTON**

WELL/SAMPLE POINT L301

Purge Method: LOW-FLOW

Date: 2-1-23 Start Time: 13:20 Finish/Sample Time: 13:47

Well Depth (Bottom) From MP: / ft  
 Min. Purge Volume: 1.0 Gal/L  
 Depth to Water From MP: / ft  
 Total Purge Volume: 1.3 Gal/L  
 Water Column Length: / ft  
 Max Drawdown: - ft  
 Well Water Volume: / Gal/L  
 Total Drawdown: / ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	13:34	NA	100	10.17	5,070	11.17	-165	2.56	102
2	13:35			10.13	5,040	11.18	-168	2.47	86.8
3	13:36			10.15	5,030	11.20	-169	2.34	80.2
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		
Well has weep holes		

**BOTTLE INFORMATION:**

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

2

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: / ft

Comments

Sampler's Signature: [Signature]

**Newton**

WELL/SAMPLE POINT MW 34D

Purge Method: Wider

Date: 2/1/2023 Start Time: 1309

Finish/Sample Time: 1334

Well Depth (Bottom) From MP: 58.73 ft

Min. Purge Volume: — Gal / L

Depth to Water From MP: 24.33 ft

Total Purge Volume: 21 Gal (L)

Water Column Length: 34.40 ft

Max Drawdown: — ft

Well Water Volume: 20.81 Gal (L)

Total Drawdown: 30.38 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1327	53.64	—	7.46	1320	12.78	-120	2.76	539
2	1328	53.64	—	7.46	1310	12.78	-124	2.73	517
3									
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Well cap fits securely.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input type="checkbox"/>	<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)
	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>500mL</u>

(2)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 54.71 ft

Comments Only one well volume purged to start due to draw down

Sampler's Signature: [Signature]

Newton

WELL/SAMPLE POINT MW 35D

Purge Method:         

Date: 1/31/2023 Start Time: 1315 Finish/Sample Time: 1318

Well Depth (Bottom) From MP:          ft  
 Depth to Water From MP:          ft  
 Water Column Length:          ft  
 Well Water Volume:          Gal / L

Min. Purge Volume:          Gal / L  
 Total Purge Volume:          Gal / L  
 Max Drawdown:          ft  
 Total Drawdown:          ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1									
2									
3									
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	+0.2	±20	±10% or 0.2	NA

Field Meter:         

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<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 type="checkbox"/>	<input checked="" type="checkbox"/>

APP 1/31/23

BOTTLE INFORMATION:

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

0

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW:          ft

Comments Unable to open casing due to L being  
5' in too far into ground

Sampler's Signature: [Signature]

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
NEWTON POWER PLANT, LANDFILL 2  
NEW-257-502

Newton

WELL/SAMPLE POINT MW 43D

Purge Method: baile

Date: 2/11/2023 Start Time: 1053 Finish/Sample Time: 1117

Well Depth (Bottom) From MP: 40.82 ft  
 Depth to Water From MP: 7.35 ft  
 Water Column Length: 33.47 ft  
 Well Water Volume: 20.24 Gal / (L)

Min. Purge Volume: — Gal / L  
 Total Purge Volume: 21 Gal / (L)  
 Max Drawdown: — ft  
 Total Drawdown: 27.22 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1109	30.47	—	6.86	3760	10.85	62	2.84	1000
2	1110	30.47	—	6.81	3310	10.98	48	2.80	1000
3									
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: Hor: lon

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		X

BOTTLE INFORMATION:

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

(2)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 34.57 ft

Comments: only one well volume purged due to significant draw down

Sampler's Signature: [Signature]

**Newton**

WELL/SAMPLE POINT MW 46D

Purge Method: bauler

Date: 2/1/2023 Start Time: 1343 1543 APP 2/1/23

Finish/Sample Time: 1604

Well Depth (Bottom) From MP: 32.10 ft

Min. Purge Volume: - Gal / L

Depth to Water From MP: 19.36 ft

Total Purge Volume: 11 Gal / (L)

Water Column Length: 16.74 ft

Max Drawdown: - ft

Well Water Volume: 10.12 Gal / (L)

Total Drawdown: 12.09 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	1554	27.45	-	6.71	3240	10.75	-17	2.16	1000
2	1555	27.95	-	6.71	3250	10.70	-18	2.11	1000
3									
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

- Odor:  None  Slight  Mod.  Strong
- Color:  None  Slight  Mod.  Strong
- Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input type="checkbox"/>	<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)
	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>500mL</u>

2

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 28.35 ft

Comments only one well volume report due to time temp

Sampler's Signature: [Signature]

## Multiparameter Meter Field Calibration Checklist

Field Personnel: Aaron Pemberton Location: Newton

Weather: 21° partly cloudy wind NW - 7 mph Environment: woods, grass, mud, ice, snow

Multiparameter Water Meter Make: Hanna Model: V-See Serial Number: YLA 121914

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

PIP 1/31/23

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.06	s.u.	±0.1 s.u.	P	No	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.	P	No	N/A	MSI	L343-07	12/9/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.	P	No	N/A	MSI	M082-04	3/25/2024
SC Zero (DI)	20.0	µS/cm	0<25 µS/cm	P	No	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2060	µS/cm	±5%	P	No	N/A	Geotech	2GE1442	May-23
ORP	240	mV	±15 mV	P	No	N/A	InSitu	2G1762	Jun-23
DO (Zero pt)	0.09	mg/L	±0.1	P	No	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	98.8	%	97-100%	P	No	N/A	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	No	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well 240 @ 100

ICV (Initial Calibration Verification) Time: 1300

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.05	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC243	Mar-24
pH 7.00b	6.98	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC931	Mar-24
pH 10.00b	10.03	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE820	May-24
SC 1000	102.1	µS/cm	±5%	P	N/A	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification) Time: 1614

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	±0.1 s.u.	P	No	N/A	MSI	L315-04	11/22/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.	P	No	N/A	MSI	L172-33	6/23/2023
pH 10.00a	10.07	s.u.	±0.1 s.u.	P	No	N/A	MSI	L354-22	1/5/2024
SC 1000	1040	µS/cm	±5%	P	No	N/A	Ricca	2108D48	Jul-23
DO (Zero pt)	0.09	mg/L	±0.1 mg/L	P	No	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	No	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification) Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		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: 1/31/2023



## Multiparameter Meter Field Calibration Checklist

Field Personnel:	KALEB DESKE			Location:	NEWTON				
Weather:	11° MOSTLY CLOUDY			Environment:	COLD, ICY				
Multiparameter Water Meter	Make:	HORIBA	Model:	WQM	Serial Number:	PW2G4JDS			
Water Level Meter	Make:	HERRON	Model:	WT	Serial Number:	19FF211192HS			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	PASS	NO	N/A	MSI	L315-04	11/22/2023
pH 7.00a	7.06	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC Zero (DI)	12.20	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2008	µS/cm	±5%				Geotech	1GK328	Nov-22
ORP	242	mV	±15 mV				InSitu	1GL481	Sep-22
DO (Zero pt)	0.03	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)		%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.14	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time:	0814			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	4.06	s.u.	±0.15 s.u.	PASS	NO	Geotech	1GF009	Jun-23		
pH 7.00b	6.98	s.u.	±0.15 s.u.			Geotech	0GJ268	Oct-22		
pH 10.00b	9.99	s.u.	±0.15 s.u.			Geotech	1GF458	Jun-23		
SC 1000	1006	µS/cm	±5%			Ricca	2108D48	Jul-23		

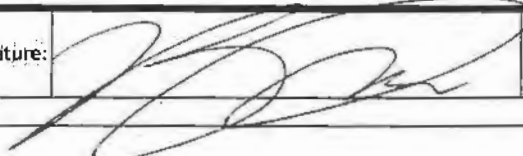
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:	1614			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a	4.06	s.u.	±0.1 s.u.	PASS	NO	N/A	MSI	L315-04	11/22/2023	
pH 7.00a	7.00	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023	
pH 10.00a	9.97	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024	
SC 1000	1004	µS/cm	±5%				Ricca	2108D48	Jul-23	
DO (Zero pt)	0.02	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025	
Turbidity (DI)	1.40	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)	

Approx. every 4 hrs, unless only one well

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

Comments:

Signature: 	Date: 01/31/23
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Kyle Kane</u>		Location: <u>Newton Power</u>							
Weather: <u>10° COLD light breeze</u>		Environment: <u>DRY</u>							
Multiparameter Water Meter	Make: <u>HORIBA</u>	Model: <u>V-5000</u>	Serial Number: <u>V4U1FVTF</u>						
Water Level Meter	Make: <u>HERON</u>	Model: <u>Water + ADC</u>	Serial Number: <u>19FF220131ML</u>						
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.11</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.97</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>9.93</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L354-22	1/5/2024
SC Zero (DI)	<u>2.86</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>3.34</u>	µS/cm	±5%	<u>P</u>	<u>NA</u>	<u>NA</u>	Geotech	1GK328	Nov-22
ORP	<u>321</u>	mV	±15 mV	<u>P</u>	<u>NA</u>	<u>NA</u>	InSitu	1G1481	Sep-22
DO (Zero pt)	<u>0.74</u>	mg/L	±0.1	<u>P</u>	<u>NA</u>	<u>NA</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>97.44</u>	%	97-100%	<u>P</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>2.48</u>	NTU	<2 NTU	<u>P</u>	<u>NA</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: <u>08:54</u>		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>4.11</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>	Geotech	1GF009	Jun-23
pH 7.00b	<u>7.97</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>	Geotech	OGJ268	Oct-22
pH 10.00b	<u>9.93</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>	Geotech	1GF458	Jun-23
SC 1000	<u>9.96</u>	µS/cm	±5%	<u>P</u>	<u>NA</u>	Ricca	2108D48	Jul-23

Approx. every 4 hrs, unless only one well

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

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <u>16:34</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<u>4.00</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>6.99</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L172-33	6/23/2023
10.00a	<u>10.07</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L354-22	1/5/2024
SC 1000	<u>9.71</u>	µS/cm	±5%	<u>P</u>	<u>NA</u>	<u>NA</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.01</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NA</u>	<u>NA</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>1.20</u>	NTU	<2 NTU	<u>P</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <u>[Signature]</u>	Date: <u>1-31-23</u>
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<b>Multiparameter Meter Field Calibration Checklist</b>									
Field Personnel: <i>Avron Kimbela</i>				Location: <i>Newton</i>					
Weather: <i>21°-30° Sunny with E 2 mph</i>				Environment: <i>grass, IC, wood, mud</i>					
Multiparameter Water Meter		Make: <i>Hanna</i>	Model: <i>U-5000</i>	Serial Number: <i>YL9KJ9HA</i>					
Water Level Meter		Make: <i>Hanna</i>	Model: <i>Dippro</i>	Serial Number: <i>3717-T</i>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.02</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>7.05</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>10.00</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>19.0</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>2030</i>	µS/cm	±5%	<i>P</i>	<i>NO</i>	<i>N/A</i>	Geotech	2GE1442	May-23
ORP	<i>240</i>	mV	±15 mV	<i>P</i>	<i>NO</i>	<i>N/A</i>	InSitu	2G1762	Jun-23
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1	<i>P</i>	<i>NO</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>99.2</i>	%	97-100%	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
<b>ICV (Initial Calibration Verification)</b>					Time: <i>0915</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>7.02</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>		Geotech	2GC931	Mar-24
pH 10.00b	<i>10.02</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>		Geotech	2GE820	May-24
SC 1000	<i>984.1</i>	µS/cm	±5%	<i>P</i>	<i>N/A</i>		Ricca	4205H64	May-24
Approx. every 4 hrs, unless only one well									
<b>CCV (Continued Calibration Verification):</b>					Time: <i>1800</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.01</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	L315-04	11/22/2023
pH 7.00a	<i>7.05</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>10.08</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>1020</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>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
<b>CCV (Continued Calibration Verification):</b>					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>[Signature]</i>				Date: <i>2/1/2023</i>					

## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>KALEB DESKE</b>				Location: <b>NEWTON</b>					
Weather: <b>18° Mostly Sunny</b>				Environment:					
Multiparameter Water Meter		Make: <b>HORIBA</b>	Model: <b>05 cu</b>	Serial Number: <b>PW2G4JD3</b>					
Water Level Meter		Make: <b>HEXON</b>	Model: <b>WT</b>	Serial Number: <b>19FF211192HB</b>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.98	s.u.	±0.1 s.u.	Pass	NO	NA	MSI	L315-04	11/22/2023
pH 7.00a	7.04	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC Zero (DI)	9.80	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2001	µS/cm	±5%				Geotech	1GK328	Nov-22
ORP	241	mV	±15 mV				InSitu	1GL481	Sep-22
DO (Zero pt)	0.06	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)		%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.23	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <b>0857</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.06	s.u.	±0.15 s.u.	Pass	NA	Geotech	1GF009	Jun-23	
pH 7.00b	7.02	s.u.	±0.15 s.u.			Geotech	0GJ268	Oct-22	
pH 10.00b	10.02	s.u.	±0.15 s.u.			Geotech	1GF458	Jun-23	
SC 1000	1004	µS/cm	±5%			Ricca	2108D48	Jul-23	


Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <b>1810</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	Pass	NO	NA	MSI	L315-04	11/22/2023
pH 7.00a	6.98	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1007	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.03	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	1.10	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>02/01/23</b>
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### Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane			Location:	Newton Power				
Weather:	14° to 28° Sunny			Environment:	Dry				
Multiparameter Water Meter	Make:	HORIBA	Model:	U-5000	Serial Number:	U4V1FVTF			
Water Level Meter	Make:	Heron	Model:	Water tape	Serial Number:	19FF2202131ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.04	s.u.	±0.1 s.u.	P	NA	NA	MSI	L315-04	11/22/2023
pH 7.00a	7.02	s.u.	±0.1 s.u.	P	NA	NA	MSI	L172-33	6/23/2023
pH 10.00a	9.99	s.u.	±0.1 s.u.	P	NA	NA	MSI	L354-22	1/5/2024
SC Zero (DI)	20.15	µS/cm	0<25 µS/cm	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1983	µS/cm	±5%	P	NA	NA	Geotech	1GK328	Nov-22
ORP	±84	mV	±15 mV	P	NA	NA	InSitu	1GL481	Sep-22
DO (Zero pt)	0.07	mg/L	±0.1	P	NA	NA	Macron	#000228049	8/26/2025
DO (Saturated)	98.46	%	97-100%	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.21	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:	08:05			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	4.07	s.u.	±0.15 s.u.	P	NA	Geotech	1GF009	Jun-23		
pH 7.00b	7.02	s.u.	±0.15 s.u.	P	NA	Geotech	0GJ268	Oct-22		
pH 10.00b	10.11	s.u.	±0.15 s.u.	P	NA	Geotech	1GF458	Jun-23		
SC 1000	991	µS/cm	±5%	P	NA	Ricca	2108D48	Jul-23		

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:	X			
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:	12:41			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
4.00a	4.09	s.u.	±0.1 s.u.	P	NA	NA	MSI	L315-04	11/22/2023	
7.00a	6.99	s.u.	±0.1 s.u.	P	NA	NA	MSI	L172-33	6/23/2023	
10.00a	10.06	s.u.	±0.1 s.u.	P	NA	NA	MSI	L354-22	1/5/2024	
SC 1000	1000	µS/cm	±5%	P	NA	NA	Ricca	2108D48	Jul-23	
DO (Zero pt)	0.01	mg/L	±0.1 mg/L	P	NA	NA	Macron	#000228049	8/26/2025	
Turbidity (DI)	1.48	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)	

Comments:

Signature:		Date:	2-1-23
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Arvon Pemberton</i>	Location: <i>Newton</i>
Weather: <i>30°-43° Sunny Wind SW 8 mph</i>	Environment: <i>woods, grass, mud</i>
Multiparameter Water Meter	Make: <i>Noribel</i> Model: <i>V-5000</i> Serial Number: <i>YL9659HA</i>
Water Level Meter	Make: <i>Hera</i> Model: <i>Digital</i> Serial Number: <i>3717-7</i>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.01</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	<i>6.91</i>	s.u.	±0.1 s.u.	P	NO	NO	MSI	L343-07	12/9/2023
pH 10.00a	<i>10.01</i>	s.u.	±0.1 s.u.	P	NO	NO	MSI	M082-04	3/25/2024
SC Zero (DI)	<i>15.0</i>	µS/cm	0<25 µS/cm	P	NO	NO	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>10110</i>	µS/cm	±5%	P	NO	NO	Geotech	2GE1442	May-23
ORP	<i>245</i>	mV	±15 mV	P	NO	NO	InSitu	2G1762	Jun-23
DO (Zero pt)	<i>0.07</i>	mg/L	±0.1	P	NO	NO	Macron	#000228049	8/26/2025
DO (Saturated)	<i>100.0</i>	%	97-100%	P	NO	NO	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	P	NO	NO	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well *255 @ 5°*

ICV (Initial Calibration Verification)						Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	<i>3.14</i>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC243	Mar-24		
pH 7.00b	<i>6.88</i>	s.u.	±0.15 s.u.	P	NO	Geotech	2GC931	Mar-24		
pH 10.00b	<i>10.04</i>	s.u.	±0.15 s.u.	P	NO	Geotech	2GE820	May-24		
SC 1000	<i>1012</i>	µS/cm	±5%	P	NO	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	<i>4.03</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L315-04	11/22/2023	
pH 7.00a	<i>7.01</i>	s.u.	±0.1 s.u.	P	NO	NO	MSI	L172-33	6/23/2023	
pH 10.00a	<i>10.06</i>	s.u.	±0.1 s.u.	P	NO	NO	MSI	L354-22	1/5/2024	
SC 1000	<i>985</i>	µS/cm	±5%	P	NO	NO	Ricca	2108D48	Jul-23	
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1 mg/L	P	NO	NO	Macron	#000228049	8/26/2025	
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	P	NO	NO	Pace Labs	N/A (DI)	N/A (DI)	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
4.00a		s.u.	±0.1 s.u.				MSI	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>2/2/2023</i>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>KALEB DESKE</b>				Location: <b>NEWTON</b>					
Weather: <b>23° SUNNY</b>				Environment: <b>COLD, GRASSY, MUDDY</b>					
Multiparameter Water Meter		Make: <b>HORIBA</b>	Model: <b>U-5000</b>	Serial Number: <b>PW204503</b>					
Water Level Meter		Make: <b>Heron</b>	Model: <b>D:0A</b>	Serial Number: <b>196211192H3</b>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	Pass	NO	N/A	MSI	L315-04	11/22/2023
pH 7.00a	7.04	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.02	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC Zero (DI)	16.50	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1998	µS/cm	±5%				Geotech	1GK328	Nov-22
ORP	241	mV	±15 mV				InSitu	1GL481	Sep-22
DO (Zero pt)	0.06	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	9.40	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.20	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <b>0837</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.06	s.u.	±0.15 s.u.	Pass	NO	Geotech	1GF009	Jun-23	
pH 7.00b	7.08	s.u.	±0.15 s.u.			Geotech	0GJ268	Oct-22	
pH 10.00b	10.07	s.u.	±0.15 s.u.			Geotech	1GF458	Jun-23	
SC 1000	1001	µS/cm	±5%			Ricca	2108D48	Jul-23	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <b>1025</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.06	s.u.	±0.1 s.u.	Pass	NO	N/A	MSI	L315-04	11/22/2023
pH 7.00a	6.99	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.00	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1004	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.08	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	1.10	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>02/02/23</b>
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### Multiparameter Meter Field Calibration Checklist

Field Personnel:	KYLE LANE			Location:	NEWTON POWER				
Weather:	26° to 41° sunny			Environment:	Dry Cold				
Multiparameter Water Meter	Make:	HORIBA	Model:	U-5000	Serial Number:	U4U1FVTF			
Water Level Meter	Make:	HEFON	Model:	Water Table	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	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.	P	NA	NA	MSI	L343-07	12/9/2023
pH 10.00a	10.06	s.u.	±0.1 s.u.	P	NA	NA	MSI	M082-04	3/25/2024
SC Zero (DI)	20.38	µS/cm	0<25 µS/cm	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	202.9	µS/cm	±5%	P	NA	NA	Geotech	2GE1442	May-23
ORP	293	mV	±15 mV	P	NA	NA	InSitu	2G1762	Jun-23
DO (Zero pt)	0.04	mg/L	±0.1	P	NA	NA	Macron	#000228049	8/26/2025
DO (Saturated)	98.46	%	97-100%	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.28	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:	09:15		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.11	s.u.	±0.15 s.u.	P	NA	Geotech	2GC243	Mar-24	
pH 7.00b	6.98	s.u.	±0.15 s.u.	P	NA	Geotech	2GC931	Mar-24	
pH 10.00b	9.91	s.u.	±0.15 s.u.	P	NA	Geotech	2GE820	May-24	
SC 1000	10.41	µS/cm	±5%	P	NA	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

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

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:	12:48		
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.09	s.u.	±0.1 s.u.	P	NA	NA	MSI	L315-04	11/22/2023
7.00a	7.03	s.u.	±0.1 s.u.	P	NA	NA	MSI	L172-33	6/23/2023
10.00a	10.07	s.u.	±0.1 s.u.	P	NA	NA	MSI	L354-22	1/5/2024
SC 1000	10.49	µS/cm	±5%	P	NA	NA	Ricca	2108D48	Jul-23
DO (Zero pt)	0.01	mg/L	±0.1 mg/L	P	NA	NA	Macron	#000228049	8/26/2025
Turbidity (DI)	1.39	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	2-2-23
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Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

June 22, 2023

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

Dear Terry Hanratty:

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

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

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

*Gail Schindler*  
Sincerely,

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    GD04851

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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
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



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Work Order    GD04927

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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    GE00180

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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
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



**Case Narrative**

G108 - Well removed in January 2023

No DTW measured for G110. This well was not included on the preprinted DTW form.

S101 and S102 are surface waters so no depth to water measurement is available.

L301 - there is no access to measure depth to water

L301 does not allow access to measure depth to water

LREP is a composite so not depth to water is available.

G110 was not listed on the DTW form provided by client so no depth to water was measured.

G108 was removed in January 2023.

S101 and S102 are surface water

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**ANALYTICAL RESULTS**

Sample: GD04461-09  
 Name: G114D  
 Matrix: Ground Water - Grab

Sampled: 04/25/23 18:04  
 Received: 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	230	mg/L		04/28/23 07:06	100	100	04/28/23 07:06	CRD	EPA 300.0 REV 2.1
Fluoride	1.23	mg/L		04/27/23 00:34	1	0.250	04/27/23 00:34	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		04/27/23 00:34	1	1.0	04/27/23 00:34	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
pH, Field Measured	7.66	pH Units		04/25/23 18:04	1		04/25/23 18:04	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	550	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*
Solids - total dissolved solids (TDS)	960	mg/L		04/28/23 14:40	1	26	04/28/23 16:47	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Boron	220	ug/L		05/03/23 09:07	5	10	05/05/23 08:33	JMW	EPA 6020A
Calcium	81	mg/L		05/03/23 09:07	5	0.20	05/04/23 09:46	JMW	EPA 6020A
Magnesium	39	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:46	JMW	EPA 6020A
Potassium	2.1	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:46	JMW	EPA 6020A
Sodium	240	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:46	JMW	EPA 6020A





**ANALYTICAL RESULTS**

**Sample:** GD04461-13  
**Name:** G234  
**Matrix:** Ground Water - Grab

**Sampled:** 04/25/23 15:42  
**Received:** 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	93	mg/L		04/27/23 02:22	50	50	04/27/23 02:22	CRD	EPA 300.0 REV 2.1
Fluoride	0.401	mg/L		04/27/23 02:04	1	0.250	04/27/23 02:04	CRD	EPA 300.0 REV 2.1
Sulfate	410	mg/L		04/27/23 02:22	50	50	04/27/23 02:22	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
pH, Field Measured	7.48	pH Units		04/25/23 15:42	1		04/25/23 15:42	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	420	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)	980	mg/L		04/28/23 14:40	1	26	04/28/23 16:47	HRF	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Boron	160	ug/L		05/03/23 09:07	5	10	05/05/23 08:36	JMW	EPA 6020A
Calcium	170	mg/L		05/03/23 09:07	5	0.20	05/04/23 09:50	JMW	EPA 6020A
Magnesium	68	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:50	JMW	EPA 6020A
Potassium	4.6	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:50	JMW	EPA 6020A
Sodium	210	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:50	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GD04746-08  
**Name:** G128  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 15:00  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	2400	mg/L		05/04/23 18:57	1000	1000	05/04/23 18:57	CRD	EPA 300.0 REV 2.1
Sulfate	6400	mg/L		05/04/23 18:57	1000	1000	05/04/23 18:57	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
pH, Field Measured	6.85	pH Units		04/26/23 15:00	1		04/26/23 15:00	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	690	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	0.315	mg/L		05/08/23 14:48	1	0.250	05/08/23 14:48	TTH/MKH	SM 4500F C 1997
<b><u>Soluble General Chemistry - PIA</u></b>									
Solids - total dissolved solids (TDS)	14000	mg/L		05/03/23 12:09	1	51	05/03/23 15:21	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Boron	1100	ug/L		05/04/23 09:03	5	10	05/09/23 08:02	JMW	EPA 6020A
Calcium	460	mg/L		05/04/23 09:03	5	0.20	05/09/23 08:02	JMW	EPA 6020A
Magnesium	550	mg/L		05/04/23 09:03	100	2.0	05/09/23 09:13	JMW	EPA 6020A
Potassium	30	mg/L		05/04/23 09:03	5	0.10	05/09/23 08:02	JMW	EPA 6020A
Sodium	3600	mg/L		05/04/23 09:03	100	2.0	05/09/23 09:13	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GD04746-09  
**Name:** G128 DUP  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 15:00  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	2400	mg/L		05/04/23 19:51	1000	1000	05/04/23 19:51	CRD	EPA 300.0 REV 2.1
Sulfate	6400	mg/L		05/04/23 19:51	1000	1000	05/04/23 19:51	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
pH, Field Measured	6.85	pH Units		04/26/23 15:00	1		04/26/23 15:00	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	810	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	0.346	mg/L		05/08/23 14:49	1	0.250	05/08/23 14:49	TTH/MKH	SM 4500F C 1997
<b><u>Soluble General Chemistry - PIA</u></b>									
Solids - total dissolved solids (TDS)	13000	mg/L		05/03/23 12:09	1	51	05/03/23 15:21	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Boron	1200	ug/L		05/04/23 09:03	5	10	05/09/23 08:06	JMW	EPA 6020A
Calcium	480	mg/L		05/04/23 09:03	5	0.20	05/09/23 08:06	JMW	EPA 6020A
Magnesium	540	mg/L		05/04/23 09:03	100	2.0	05/09/23 09:17	JMW	EPA 6020A
Potassium	31	mg/L		05/04/23 09:03	5	0.10	05/09/23 08:06	JMW	EPA 6020A
Sodium	3500	mg/L		05/04/23 09:03	100	2.0	05/09/23 09:17	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GD04746-10  
**Name:** G133  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 16:09  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	1300	mg/L		05/04/23 20:09	250	250	05/04/23 20:09	CRD	EPA 300.0 REV 2.1
Sulfate	1000	mg/L		05/04/23 20:09	250	250	05/04/23 20:09	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
pH, Field Measured	7.13	pH Units		04/26/23 16:09	1		04/26/23 16:09	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	360	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	< 0.250	mg/L		05/05/23 16:40	1	0.250	05/05/23 16:40	TTH	SM 4500F C 1997
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	4200	mg/L		05/01/23 11:30	1	26	05/01/23 15:30	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Boron	270	ug/L		05/04/23 09:03	5	10	05/09/23 08:10	JMW	EPA 6020A
Calcium	450	mg/L		05/04/23 09:03	5	0.20	05/09/23 08:10	JMW	EPA 6020A
Magnesium	280	mg/L		05/04/23 09:03	5	0.10	05/09/23 08:10	JMW	EPA 6020A
Potassium	5.9	mg/L		05/04/23 09:03	5	0.10	05/09/23 08:10	JMW	EPA 6020A
Sodium	310	mg/L		05/04/23 09:03	5	0.10	05/09/23 08:10	JMW	EPA 6020A

**Sample:** GD04746-14  
**Name:** G231  
**Matrix:** Ground Water - Grab

**Sampled:** 04/26/23 13:10  
**Received:** 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Field - PIA</b>									
pH, Field Measured	7.82	pH Units		04/26/23 13:10	1		04/26/23 13:10	FIELD	Field*



**ANALYTICAL RESULTS**

**Sample:** GD04746-15  
**Name:** G232  
**Matrix:** Ground Water - Grab

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

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Field - PIA</b>									
pH, Field Measured	7.74	pH Units		04/26/23 14:16	1		04/26/23 14:16	FIELD	Field*

**Sample:** GD04839-13  
**Name:** G130  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 10:20  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	3600	mg/L		05/04/23 20:45	500	500	05/04/23 20:45	CRD	EPA 300.0 REV 2.1
Sulfate	3400	mg/L		05/08/23 23:19	1000	1000	05/08/23 23:19	CRD	EPA 300.0 REV 2.1

<b>Field - PIA</b>									
pH, Field Measured	6.43	pH Units		04/27/23 10:20	1		04/27/23 10:20	FIELD	Field*

<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	320	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 16:48	1	0.250	05/05/23 16:48	TTH	SM 4500F C 1997

<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	8100	mg/L		05/02/23 12:44	1	26	05/03/23 11:06	HRF	SM 2540C

<b>Total Metals - PIA</b>									
Boron	53	ug/L		05/08/23 09:07	5	10	05/09/23 10:17	JMW	EPA 6020A
Calcium	590	mg/L		05/08/23 09:07	100	4.0	05/09/23 12:30	JMW	EPA 6020A
Magnesium	500	mg/L		05/08/23 09:07	100	2.0	05/09/23 12:30	JMW	EPA 6020A
Potassium	1.8	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:17	JMW	EPA 6020A
Sodium	1300	mg/L		05/08/23 09:07	100	2.0	05/09/23 12:30	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GD04851-01  
**Name:** L1R  
**Matrix:** Ground Water - Grab

**Sampled:** 04/27/23 13:09  
**Received:** 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	8000	mg/L		04/28/23 21:33	2500	2500	04/28/23 21:33	CRD	EPA 300.0 REV 2.1
Sulfate	22000	mg/L		04/28/23 21:33	2500	2500	04/28/23 21:33	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
pH, Field Measured	11.3	pH Units		04/27/23 13:09	1		04/27/23 13:09	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	390	mg/L		05/09/23 10:18	1	10	05/09/23 10:18	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	680	mg/L		05/09/23 10:18	1	10	05/09/23 10:18	CPS	SM 2320B 1997*
Fluoride	0.333	mg/L		05/05/23 16:59	1	0.250	05/05/23 16:59	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	49000	mg/L		05/04/23 16:04	1	170	05/04/23 17:08	HRF	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Boron	11000	ug/L		05/09/23 09:09	20	40	05/09/23 17:04	JMW	EPA 6020A
Calcium	620	mg/L		05/09/23 09:09	20	0.80	05/09/23 17:04	JMW	EPA 6020A
Magnesium	12	mg/L		05/09/23 09:09	20	0.40	05/09/23 17:04	JMW	EPA 6020A
Potassium	1700	mg/L		05/09/23 09:09	20	0.40	05/09/23 17:04	JMW	EPA 6020A
Sodium	17000	mg/L		05/09/23 09:09	1000	20	05/09/23 17:08	JMW	EPA 6020A





**ANALYTICAL RESULTS**

**Sample:** GD04919-06  
**Name:** G118  
**Matrix:** Ground Water - Grab

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

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	1.3	mg/L		05/08/23 15:11	1	1.0	05/08/23 15:11	CRD	EPA 300.0 REV 2.1
Fluoride	0.372	mg/L		05/08/23 15:11	1	0.250	05/08/23 15:11	CRD	EPA 300.0 REV 2.1
Sulfate	70	mg/L		05/08/23 15:29	10	10	05/08/23 15:29	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
pH, Field Measured	7.05	pH Units		04/28/23 10:04	1		04/28/23 10:04	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	210	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*
Solids - total dissolved solids (TDS)	360	mg/L		05/03/23 12:09	1	26	05/03/23 15:21	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Boron	110	ug/L		05/08/23 09:07	5	10	05/09/23 14:17	JMW	EPA 6020A
Calcium	50	mg/L		05/08/23 09:07	5	0.20	05/09/23 14:17	JMW	EPA 6020A
Magnesium	26	mg/L		05/08/23 09:07	5	0.10	05/09/23 14:17	JMW	EPA 6020A
Potassium	1.7	mg/L		05/08/23 09:07	5	0.10	05/09/23 14:17	JMW	EPA 6020A
Sodium	29	mg/L		05/08/23 09:07	5	0.10	05/09/23 14:17	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GD04919-07  
**Name:** G118 DUP  
**Matrix:** Ground Water - Grab

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

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	1.3	mg/L		05/08/23 21:31	1	1.0	05/08/23 21:31	CRD	EPA 300.0 REV 2.1
Fluoride	0.382	mg/L		05/08/23 21:31	1	0.250	05/08/23 21:31	CRD	EPA 300.0 REV 2.1
Sulfate	71	mg/L		05/08/23 21:49	10	10	05/08/23 21:49	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
pH, Field Measured	7.05	pH Units		04/28/23 10:04	1		04/28/23 10:04	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	220	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*
Solids - total dissolved solids (TDS)	340	mg/L		05/03/23 12:09	1	26	05/03/23 15:21	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Boron	100	ug/L		05/08/23 09:07	5	10	05/09/23 14:21	JMW	EPA 6020A
Calcium	48	mg/L		05/08/23 09:07	5	0.20	05/09/23 14:21	JMW	EPA 6020A
Magnesium	25	mg/L		05/08/23 09:07	5	0.10	05/09/23 14:21	JMW	EPA 6020A
Potassium	1.0	mg/L		05/08/23 09:07	5	0.10	05/09/23 14:21	JMW	EPA 6020A
Sodium	29	mg/L		05/08/23 09:07	5	0.10	05/09/23 14:21	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GD04927-01  
**Name:** L301  
**Matrix:** Ground Water - Grab

**Sampled:** 04/28/23 12:20  
**Received:** 04/28/23 16:12

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	24	mg/L		04/30/23 01:35	10	10	04/30/23 01:35	CRD	EPA 300.0 REV 2.1
Sulfate	2400	mg/L		04/30/23 01:53	500	500	04/30/23 01:53	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
pH, Field Measured	9.65	pH Units		04/28/23 12:20	1		04/28/23 12:20	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	420	mg/L		05/09/23 10:18	1	10	05/09/23 10:18	CPS	SM 2320B 1997*
Fluoride	0.286	mg/L		05/10/23 14:40	1	0.250	05/10/23 14:40	TTH/MKH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	3900	mg/L	H	05/05/23 17:14	1	26	05/08/23 10:59	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Boron	63000	ug/L		05/02/23 09:02	100	200	05/03/23 16:19	JMW	EPA 6020A
Calcium	37	mg/L		05/02/23 09:02	5	0.20	05/03/23 14:23	JMW	EPA 6020A
Magnesium	2.4	mg/L		05/02/23 09:02	5	0.10	05/03/23 14:23	JMW	EPA 6020A
Potassium	77	mg/L		05/02/23 09:02	5	0.10	05/03/23 14:23	JMW	EPA 6020A
Sodium	1400	mg/L		05/02/23 09:02	100	2.0	05/03/23 16:19	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GE00180-01  
**Name:** G104D  
**Matrix:** Ground Water - Grab

**Sampled:** 05/01/23 14:08  
**Received:** 05/02/23 07:05

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	26	mg/L	Q3	05/02/23 15:20	5	5.0	05/02/23 15:20	CRD	EPA 300.0 REV 2.1
Fluoride	0.896	mg/L		05/02/23 14:26	1	0.250	05/02/23 14:26	CRD	EPA 300.0 REV 2.1
Sulfate	15	mg/L	Q4	05/02/23 15:20	5	5.0	05/02/23 15:20	CRD	EPA 300.0 REV 2.1
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	750	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*
Solids - total dissolved solids (TDS)	860	mg/L		05/03/23 12:09	1	26	05/03/23 15:21	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Boron	220	ug/L		05/09/23 09:09	5	10	05/09/23 16:02	JMW	EPA 6020A
Calcium	100	mg/L		05/09/23 09:09	5	0.20	05/09/23 16:02	JMW	EPA 6020A
Magnesium	46	mg/L		05/09/23 09:09	5	0.10	05/09/23 16:02	JMW	EPA 6020A
Potassium	3.2	mg/L		05/09/23 09:09	5	0.10	05/09/23 16:02	JMW	EPA 6020A
Sodium	190	mg/L		05/09/23 09:09	5	0.10	05/09/23 16:02	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GE00180-02  
**Name:** G114  
**Matrix:** Ground Water - Grab

**Sampled:** 05/01/23 13:11  
**Received:** 05/02/23 07:05

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	60	mg/L		05/02/23 15:56	10	10	05/02/23 15:56	CRD	EPA 300.0 REV 2.1
Sulfate	2200	mg/L		05/02/23 16:50	250	250	05/02/23 16:50	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
pH, Field Measured	6.70	pH Units		05/01/23 13:11	1		05/01/23 13:11	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	480	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*
Fluoride	0.306	mg/L		05/05/23 16:54	1	0.250	05/05/23 16:54	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	3600	mg/L		05/03/23 12:09	1	26	05/03/23 15:21	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Boron	180	ug/L		05/09/23 09:09	5	10	05/09/23 16:06	JMW	EPA 6020A
Calcium	510	mg/L		05/09/23 09:09	100	4.0	05/09/23 17:00	JMW	EPA 6020A
Magnesium	290	mg/L		05/09/23 09:09	5	0.10	05/09/23 16:06	JMW	EPA 6020A
Potassium	3.4	mg/L		05/09/23 09:09	5	0.10	05/09/23 16:06	JMW	EPA 6020A
Sodium	170	mg/L		05/09/23 09:09	5	0.10	05/09/23 16:06	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GE00180-03  
**Name:** MW34D  
**Matrix:** Ground Water - Grab

**Sampled:** 05/01/23 12:59  
**Received:** 05/02/23 07:05

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	13	mg/L		05/02/23 18:03	10	10	05/02/23 18:03	CRD	EPA 300.0 REV 2.1
Fluoride	1.03	mg/L		05/02/23 17:08	1	0.250	05/02/23 17:08	CRD	EPA 300.0 REV 2.1
Sulfate	86	mg/L	Q4	05/02/23 18:03	10	10	05/02/23 18:03	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
pH, Field Measured	7.47	pH Units		05/01/23 12:59	1		05/01/23 12:59	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	610	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*
Solids - total dissolved solids (TDS)	720	mg/L		05/03/23 12:09	1	26	05/03/23 15:21	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Boron	250	ug/L		05/09/23 09:09	5	10	05/09/23 16:10	JMW	EPA 6020A
Calcium	120	mg/L		05/09/23 09:09	5	0.20	05/09/23 16:10	JMW	EPA 6020A
Magnesium	53	mg/L		05/09/23 09:09	5	0.10	05/09/23 16:10	JMW	EPA 6020A
Potassium	2.5	mg/L		05/09/23 09:09	5	0.10	05/09/23 16:10	JMW	EPA 6020A
Sodium	110	mg/L		05/09/23 09:09	5	0.10	05/09/23 16:10	JMW	EPA 6020A





**ANALYTICAL RESULTS**

**Sample:** GE00180-04  
**Name:** MW35D  
**Matrix:** Ground Water - Grab

**Sampled:** 05/01/23 15:55  
**Received:** 05/02/23 07:05

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	10	mg/L		05/02/23 18:39	10	10	05/02/23 18:39	CRD	EPA 300.0 REV 2.1
Fluoride	0.849	mg/L		05/02/23 18:21	1	0.250	05/02/23 18:21	CRD	EPA 300.0 REV 2.1
Sulfate	150	mg/L		05/04/23 23:46	25	25	05/04/23 23:46	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
pH, Field Measured	7.44	pH Units		05/01/23 15:55	1		05/01/23 15:55	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	400	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*
Solids - total dissolved solids (TDS)	680	mg/L		05/03/23 12:09	1	26	05/03/23 15:21	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Boron	210	ug/L		05/09/23 09:09	5	10	05/09/23 16:14	JMW	EPA 6020A
Calcium	91	mg/L		05/09/23 09:09	5	0.20	05/09/23 16:14	JMW	EPA 6020A
Magnesium	47	mg/L		05/09/23 09:09	5	0.10	05/09/23 16:14	JMW	EPA 6020A
Potassium	3.6	mg/L		05/09/23 09:09	5	0.10	05/09/23 16:14	JMW	EPA 6020A
Sodium	110	mg/L		05/09/23 09:09	5	0.10	05/09/23 16:14	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GE00180-05  
**Name:** MW43D  
**Matrix:** Ground Water - Grab

**Sampled:** 05/01/23 13:56  
**Received:** 05/02/23 07:05

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	55	mg/L		05/02/23 19:15	10	10	05/02/23 19:15	CRD	EPA 300.0 REV 2.1
Sulfate	3800	mg/L		05/05/23 00:04	500	500	05/05/23 00:04	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
pH, Field Measured	6.96	pH Units		05/01/23 13:56	1		05/01/23 13:56	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	560	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*
Fluoride	< 0.250	mg/L		05/05/23 16:56	1	0.250	05/05/23 16:56	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	3300	mg/L		05/03/23 12:09	1	26	05/03/23 15:21	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Boron	130	ug/L		05/09/23 09:09	5	10	05/09/23 16:17	JMW	EPA 6020A
Calcium	490	mg/L		05/09/23 09:09	5	0.20	05/09/23 16:17	JMW	EPA 6020A
Magnesium	260	mg/L		05/09/23 09:09	5	0.10	05/09/23 16:17	JMW	EPA 6020A
Potassium	4.6	mg/L		05/09/23 09:09	5	0.10	05/09/23 16:17	JMW	EPA 6020A
Sodium	170	mg/L		05/09/23 09:09	5	0.10	05/09/23 16:17	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GE00180-06  
**Name:** MW46D  
**Matrix:** Ground Water - Grab

**Sampled:** 05/01/23 15:00  
**Received:** 05/02/23 07:05

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	21	mg/L		05/02/23 20:27	5	5.0	05/02/23 20:27	CRD	EPA 300.0 REV 2.1
Sulfate	1500	mg/L		05/02/23 20:45	250	250	05/02/23 20:45	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
pH, Field Measured	7.14	pH Units		05/01/23 15:00	1		05/01/23 15:00	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	660	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*
Fluoride	< 0.250	mg/L		05/05/23 16:57	1	0.250	05/05/23 16:57	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	2700	mg/L		05/03/23 12:09	1	26	05/03/23 15:21	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Boron	140	ug/L		05/09/23 09:09	5	10	05/09/23 16:21	JMW	EPA 6020A
Calcium	890	mg/L		05/09/23 09:09	100	4.0	05/09/23 16:56	JMW	EPA 6020A
Magnesium	310	mg/L		05/09/23 09:09	5	0.10	05/09/23 16:21	JMW	EPA 6020A
Potassium	12	mg/L		05/09/23 09:09	5	0.10	05/09/23 16:21	JMW	EPA 6020A
Sodium	120	mg/L		05/09/23 09:09	5	0.10	05/09/23 16:21	JMW	EPA 6020A



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<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							
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		
Solids - total dissolved solids (TDS)	963	mg/L		1000		96	84.9-109		
<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><u>Batch B332177 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B332177-BLK1)</b> Prepared: 05/02/23 Analyzed: 05/03/23									
Boron	< 10	ug/L							
Calcium	< 0.20	mg/L							
Magnesium	< 0.10	mg/L							
Potassium	< 0.10	mg/L							
Sodium	< 0.10	mg/L							
<b>LCS (B332177-BS1)</b> Prepared: 05/02/23 Analyzed: 05/03/23									
Boron	542	ug/L		555.6		98	80-120		
Calcium	5.46	mg/L		5.556		98	80-120		
Magnesium	5.50	mg/L		5.556		99	80-120		
Potassium	5.37	mg/L		5.556		97	80-120		
Sodium	5.61	mg/L		5.556		101	80-120		
<b><u>Batch B332218 - No Prep - SM 2540C</u></b>									
<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 6020A</u></b>									
<b>Blank (B332309-BLK1)</b> Prepared: 05/03/23 Analyzed: 05/05/23									
Boron	< 10	ug/L							
Calcium	< 0.20	mg/L							
Magnesium	< 0.10	mg/L							
Potassium	< 0.10	mg/L							
Sodium	< 0.10	mg/L							
<b>LCS (B332309-BS1)</b> Prepared: 05/03/23 Analyzed: 05/05/23									
Boron	568	ug/L		555.6		102	80-120		
Calcium	5.40	mg/L		5.556		97	80-120		
Magnesium	5.64	mg/L		5.556		102	80-120		
Potassium	5.54	mg/L		5.556		100	80-120		
Sodium	5.54	mg/L		5.556		100	80-120		



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>Batch B332343 - No Prep - SM 2540C</u></b>									
<b>Blank (B332343-BLK1)</b>				Prepared & Analyzed: 05/03/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
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		
Solids - total dissolved solids (TDS)	950	mg/L		1000		95	84.9-109		
<b><u>Batch B332365 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Matrix Spike (B332365-MS1)</b>				Sample: GE00180-01		Prepared & Analyzed: 05/02/23			
Chloride	< 1.0	mg/L	Q1	3.000	26	NR	80-120		
Fluoride	3.96	mg/L		3.000	0.896	102	80-120		
Sulfate	1.00E9	mg/L	Q4	3.000	14.9	NR	80-120		
<b>Matrix Spike (B332365-MS2)</b>				Sample: GE00180-03		Prepared & Analyzed: 05/02/23			
Sulfate	1.00E9	mg/L	Q4	3.000	85.8	NR	80-120		
Fluoride	4.18	mg/L		3.000	1.03	105	80-120		
Chloride	< 1.0	mg/L		3.000	13	NR	80-120		
<b>Matrix Spike Dup (B332365-MSD1)</b>				Sample: GE00180-01		Prepared & Analyzed: 05/02/23			
Sulfate	1.00E9	mg/L	Q4	3.000	14.9	NR	80-120	0	20
Chloride	< 1.0	mg/L	Q2	3.000	26	NR	80-120		20
Fluoride	4.01	mg/L		3.000	0.896	104	80-120	1	20
<b>Matrix Spike Dup (B332365-MSD2)</b>				Sample: GE00180-03		Prepared & Analyzed: 05/02/23			
Sulfate	1.00E9	mg/L	Q4	3.000	85.8	NR	80-120	0	20
Fluoride	4.17	mg/L		3.000	1.03	105	80-120	0.04	20
Chloride	< 1.0	mg/L		3.000	13	NR	80-120		20
<b><u>Batch B332419 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B332419-BLK1)</b>				Prepared: 05/04/23 Analyzed: 05/09/23					
Boron	< 10	ug/L							
Calcium	< 0.20	mg/L							
Magnesium	< 0.10	mg/L							
Potassium	< 0.10	mg/L							
Sodium	< 0.10	mg/L							
<b>LCS (B332419-BS1)</b>				Prepared: 05/04/23 Analyzed: 05/09/23					
Boron	548	ug/L		555.6		99	80-120		
Calcium	5.47	mg/L		5.556		98	80-120		
Magnesium	5.53	mg/L		5.556		100	80-120		
Potassium	5.57	mg/L		5.556		100	80-120		
Sodium	5.52	mg/L		5.556		99	80-120		
<b><u>Batch B332511 - No Prep - SM 2320B 1997</u></b>									
<b>Blank (B332511-BLK1)</b>				Prepared & Analyzed: 05/04/23					
Alkalinity - bicarbonate as CaCO3	2.50	mg/L							
Alkalinity - carbonate as CaCO3	2.50	mg/L							
<b>Blank (B332511-BLK2)</b>				Prepared & Analyzed: 05/04/23					
Alkalinity - carbonate as CaCO3	2.50	mg/L							
Alkalinity - bicarbonate as CaCO3	2.50	mg/L							



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>Batch B332516 - No Prep - SM 2540C</u></b>									
<b>Blank (B332516-BLK1)</b>				Prepared & Analyzed: 05/04/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B332516-BS1)</b>				Prepared & Analyzed: 05/04/23					
Solids - total dissolved solids (TDS)	967	mg/L		1000		97	84.9-109		
<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 6020A</u></b>									
<b>Blank (B332692-BLK1)</b>				Prepared: 05/08/23 Analyzed: 05/09/23					
Boron	< 10	ug/L							
Calcium	< 0.20	mg/L							
Magnesium	< 0.10	mg/L							
Potassium	< 0.10	mg/L							
Sodium	< 0.10	mg/L							
<b>LCS (B332692-BS1)</b>				Prepared: 05/08/23 Analyzed: 05/09/23					
Boron	531	ug/L		555.6		96	80-120		
Calcium	5.13	mg/L		5.556		92	80-120		
Magnesium	5.36	mg/L		5.556		96	80-120		
Potassium	5.37	mg/L		5.556		97	80-120		
Sodium	5.38	mg/L		5.556		97	80-120		
<b><u>Batch B332823 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B332823-BLK1)</b>				Prepared & Analyzed: 05/09/23					
Boron	< 10	ug/L							
Calcium	< 0.20	mg/L							
Magnesium	< 0.10	mg/L							
Potassium	< 0.10	mg/L							
Sodium	< 0.10	mg/L							
<b>LCS (B332823-BS1)</b>				Prepared & Analyzed: 05/09/23					
Boron	579	ug/L		555.6		104	80-120		
Calcium	5.32	mg/L		5.556		96	80-120		
Magnesium	5.58	mg/L		5.556		100	80-120		
Potassium	5.36	mg/L		5.556		97	80-120		
Sodium	5.55	mg/L		5.556		100	80-120		
<b><u>Batch B332911 - No Prep - SM 2320B 1997</u></b>									
<b>Duplicate (B332911-DUP3)</b>			<b>Sample: GE00180-06</b>			Prepared & Analyzed: 05/09/23			
Alkalinity - bicarbonate as CaCO3	625	mg/L			662			6	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10



## NOTES

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

Revised Report - removed pH from G104 DUP.

\* 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.
- Q1 Matrix Spike failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q2 Matrix Spike Duplicate failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q3 Matrix Spike/Matrix Spike Duplicate both failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.



Certified by: Gail Schindler, Project Manager



GDO9461  
 Ymw 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) 753-9911  
 Requested Due Date/TAT: 10 day

**Section B**  
 Required Project Information:  
 Report To: Brian Voelker  
 Corp 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 Requested Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER WATER WATER PRODUCT SOIL/GROUND OIL AIR AIR OTHER THRU	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		# OF CONTAINERS	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	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
					DATE	TIME				
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

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

RELINQUISHED BY / AFFILIATION: \_\_\_\_\_ DATE: 4/26/23 TIME: 1706  
 ACCEPTED BY / AFFILIATION: \_\_\_\_\_ DATE: 4-26-23 TIME: 1330

SAMPLER NAME AND SIGNATURE: \_\_\_\_\_ DATE SIGNED (MM/DD/YYYY): 04/25/23  
 PRINT Name of SAMPLER: \_\_\_\_\_  
 SIGNATURE of SAMPLER: \_\_\_\_\_

Temp in °C: \_\_\_\_\_  
 Received on Ice (Y/N): \_\_\_\_\_  
 Cooled in Cooler (Y/N): \_\_\_\_\_  
 Samples Intact (Y/N): \_\_\_\_\_

*Handwritten notes:*  
 4-26-23  
 10:20  
 EMS 5-3-23

5-204961  
vnu 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**

Report To: **Jason Stuckey**  
Copy To: **Jason Stuckey**

Purchase Order No.:  
Project Name:

Requested Due Date/TAT: **10 day**

**Section B**  
Required Project Information:

Invoice Information:  
Attention: **Jason Stuckey**  
Company Name: **Vistra Corp**  
Address: **see Section A**

Quote Reference:  
Project Manager:  
Profile #:

**Section C**  
REGULATORY AGENCY  
NPOES **GROUND WATER** DRINKING WATER  
UST **RCRA** OTHER  
Site Location **IL** STATE:

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	SAMPLE TYPE (G-RAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives											Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.											
				DATE	TIME		UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	H2SO4	HNO3	HCl			NaOH	Na2S2O3	Methanol	Other							
1	NEW_APW14	DTW																												
2	NEW_APW15	DTW																												
3	NEW_APW16	DTW			4/25/23	1326	X	X	X																					
4	NEW_APW17	DTW			4/25/23	1650	X	X	X																					
5	NEW_APW18	DTW			4/25/23	1503	X	X	X																					
6	NEW_G104	DTW			4/25/23	1652	X	X	X	X																				
7	NEW_G104#S	DTW																												
8	NEW_G104#D	DTW																												
9	NEW_G105	DTW																												
10	NEW_G106	DTW			4/25/23	1131	X	X	X	X																				
11	NEW_G108	DTW																												
12	NEW_G109	DTW																												
13	NEW_G110	DTW																												
14	NEW_G111	DTW																												
15	NEW_G112	DTW																												
16	NEW_G113	DTW																												

**Section E**  
Additional Comments: **NEW-23Q2 Rev 0**

RELINQUISHED BY / AFFILIATION: [Signature] DATE: 4/26/23 TIME: 0706

ACCEPTED BY / AFFILIATION: [Signature] DATE: 4-26-23 TIME: 1020

SAMPLER NAME AND SIGNATURE: [Signature] DATE SIGNED (MM/DD/YY): 04/25/2023

PRINT Name of SAMPLER:  
SIGNATURE of SAMPLER:

Temp In °C: 15.5

Received on Ica (Y/N): Y  
Sealed Cooler (Y/N): N  
Samples Intact (Y/N): Y

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.

Page: 3 of 6

**Section A**  
Required Client Information:  
Company: **Vistra Corp**  
Address: **13498 E. 900th St**  
Phone: **(217) 763-8911** Fax:  
Email To: **Brian.Voelker@VistraCorp.com**  
Project Name:  
Requested Due Date/TA: **10 day**

**Section B**  
Required Project Information:  
Report To: **Jason Stuckey**  
Copy To: **Jason Stuckey**  
Purchase Order No.:  
Project Number: **2285**

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

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

ITEM #	Valid Matrix Codes Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	COLLECTED DATE TIME	SAMPLER TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	RELINQUISHED BY / AFFILIATION DATE TIME	ACCEPTED BY / AFFILIATION DATE TIME	Requested Analysis Filtered (Y/N)		Project No. / Lab I.D.	
							Y	N		
1	NEW_G114									
2	NEW_G114&D									
3	NEW_G115 DTW	4/25/23			4/26/23 0706	4-26-23 1020				
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									
ADDITIONAL COMMENTS <b>NEW-23Q2 Rev 0</b>										
RELINQUISHED BY / AFFILIATION <i>[Signature]</i>							DATE 4-26-23 1330	TIME 1527		
ACCEPTED BY / AFFILIATION <i>[Signature]</i>							DATE 4-26-23 1020	TIME 1020		
SAMPLER NAME AND SIGNATURE <i>[Signature]</i>							DATE SIGNED (MM/DD/YYYY) 04/25/23			
SIGNATURE OF SAMPLER: <i>[Signature]</i>										
TEMP IN °C							1.5			
RECEIVED ON							Y			
CUSTOMER COOLER							Y			
SEALING							W			
SAMPLES INTACT							Y			

DATE SIGNED (MM/DD/YYYY): 04/25/23  
SIGNATURE OF SAMPLER: *[Signature]*  
DATE SIGNED (MM/DD/YYYY): 04/25/23  
SIGNATURE OF SAMPLER: *[Signature]*  
EMs 5-3-23



6504461  
Vnuw 4-26-23

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

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

Page: 4 of 6

**Section A**  
Required Client Information:  
Company: **Visira Corp**  
Address: **13488 E. 900th St**  
Email To: **Brian.Voelker@VisiraCorp.com**  
Phone: **(217) 763-6911** Fax:  
Request Due Date/TAT: **10 day**

**Section B**  
Required Project Information:  
Report To: **Jason Stuckey**  
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**  
City: **see Section A**  
State: **IL**  
Site Location: **IL**

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

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOLID S OIL OILFIELD WPE WP AIR AR OTHER OT Tissue TS	SAMPLE ID (A-Z, 0-9, /, -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		PRESERVATIVES	ACCEPTED BY / AFFILIATION	DATE	TIME	DATE	TIME	Requested Analysis Filtered (Y/N)				Project No./ Lab I.D.
						DATE	TIME							Residual Chlorine (Y/N)	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
1			NEW_G202			4/25/23	1208	Unpreserved H <sub>2</sub> O <sub>2</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub> Methanol Other	Jason Stuckey	4/26/23	0706	4/26/23	1020					
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															
10			NEW_L1R_leachate			4/25/23	1542		Jason Stuckey			4/26/23	1330					
11			NEW_L201_leachate															
12			NEW_L202_leachate															
13			NEW_L203_leachate															
14			NEW_L204_leachate															
15			NEW_L205_leachate															
16			NEW_L301_leachate															

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

**RELINQUISHED BY / AFFILIATION**  
**DATE**  
**TIME**

**ACCEPTED BY / AFFILIATION**  
**DATE**  
**TIME**

**SAMPLER NAME AND SIGNATURE**  
PRINT Name of SAMPLER:  
SIGNATURE of SAMPLER:

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

EMIS 5-3-23

0-204461  
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.

Page: 5 of 6

**Section A**  
Required Client Information:  
Company: Visira Corp  
Address: 13496 E. 90th St  
Email To: Brian.Voelker@VisiraCorp.com  
Phone: (217) 753-0911 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  
LUST RCRA OTHER  
Site Location IL  
STATE:

ITEM #	Valid Matrix Codes MATRIX CODE DRAINAGE WATER DW WATER WT WASTE WATER WW PRODUCT P SOLID S LIQUID L AIR AIR OTHER OT TISSUE TS	Requested Analysis Filtered (Y/N)	COLLECTED		SAMPLE TYPE (G-RAB C-COMP)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	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>5</sub> Methanol Other	Y/N	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on (Y/N)	Sealed Cooler (Y/N)	Samples Intact (Y/N)
			DATE	TIME														
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 EB-01		4/25/23	1424				X X X X X										
11	NEW_T102		4/25/23	1311				X X X X X										
12	NEW_XPW01_pore		4/25/23	17:15				300/1/15										
13	NEW_XPW02_pore																	
14	NEW_XPW03_pore																	
15	NEW_XPW04_pore																	
16	NEW_XSG01 - DW																	

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

RELINQUISHED BY / AFFILIATION: [Signature] DATE: 4/26/23 TIME: 0706  
 ACCEPTED BY / AFFILIATION: [Signature] DATE: 4-26-23 TIME: 1330

SAMPLER NAME AND SIGNATURE: [Signature] DATE SIGNED (MM/DD/YYYY): 04/25/23  
 PRINT Name of SAMPLER:  
 SIGNATURE of SAMPLER: [Signature]

Residual Chlorine (Y/N)

EMS 5-3-23



**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: Company: <b>Vistra Corp</b> Address: <b>13498 E. 800th St</b>		<b>Section B</b> Required Project Information: Report To: <b>Brian Voelker</b> Copy To: <b>Jason Stuckey</b>		<b>Section C</b> Invoice Information: Attention: <b>Jason Stuckey</b> Company Name: <b>Vistra Corp</b> Address: <b>see Section A</b>		<b>REGULATORY AGENCY</b> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER <input type="checkbox"/>	
Email To: <b>Brian.Voelker@VistraCorp.com</b> Phone: <b>(217) 753-8811</b> Fax: _____		Purchase Order No.: _____ Project Name: _____ Project Number: <b>2285</b>		State Location: <b>IL</b>		NPOES LIST: _____ Site Location: _____ STATE: <b>IL</b>	
Requested Due Date/TAT: <b>10 day</b>		Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW PRODUCT P SOLID S OIL OL ASP AS AIR AT OTHER OT TISSUE TS		# OF CONTAINERS: <b>11</b> Preservatives: <b>NaOH, HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, Unpreserved</b> Other: _____ Methanol: _____ Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : _____		Requested Analysis Filtered (Y/N): _____ Residual Chlorine (Y/N): _____	

ITEM #	SAMPLE ID (A-Z, 0-9 / .)	Matrix Code (see valid codes to left)	COLLECTED		DATE	TIME	SAMPLER NAME AND SIGNATURE	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
			DATE	TIME									Received on Top (Y/N)	Sealed Color (Y/N)	Samples Intact (Y/N)	
1	NEW_APW14															
2	NEW_APW15				4/26/23	1723		4/27/23	1030	Harry	4-27	1030				
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															

<b>ADDITIONAL COMMENTS</b> <b>NEW-2302 Rev 0</b>		RELINQUISHED BY / AFFILIATION: <b>Joseph R. Reed</b> DATE: <b>4/27/23</b> TIME: <b>1030</b>		ACCEPTED BY / AFFILIATION: <b>Harry</b> DATE: <b>4-27</b> TIME: <b>1420</b>		SAMPLE CONDITIONS: <b>7</b>	
SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: <b>James David</b> SIGNATURE of SAMPLER: <i>James David</i>		DATE Signed (MM/DD/YY): <b>4/26/23</b>		DATE Signed (MM/DD/YY): <b>4/26/23</b>		Received on Top (Y/N): <b>0</b>	
Sealed Color (Y/N): <b>0</b>		Samples Intact (Y/N): <b>0</b>		Samples Intact (Y/N): <b>0</b>		Samples Intact (Y/N): <b>0</b>	

# 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>Visira Corp</b>	Report To: <b>Brian Voelker</b>	Attention: <b>Jason Stuckey</b>	Company Name: <b>Visira Corp</b>	Company Name: <b>Visira Corp</b>	Company Name: <b>Visira Corp</b>
Address: <b>13498 E. 800th St</b>	Copy To: <b>Jason Stuckey</b>	Address: <b>see Section A</b>	Address: <b>see Section A</b>	Address: <b>see Section A</b>	Address: <b>see Section A</b>
Email To: <b>Brian.Voelker@VisiraCorp.com</b>	Purchase Order No.:	Order Reference:	Order Reference:	Order Reference:	Order Reference:
Phone: <b>(217) 763-6811</b> Fax:	Project Name:	Project Manager:	Project Manager:	Project Manager:	Project Manager:
Requested Due Date/TAT: <b>10 day</b>	Project Number: <b>2285</b>	Project #:	Project #:	Project #:	Project #:

ITEM #	Valid Matrix Codes MATRIX CODE DOMESTIC WATER DW WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WASTE WASTE ASBESTOS ASB OTHER OT TSS TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (S-GRAB C-COMP)	COLLECTED		# OF CONTAINERS	PRESERVATIVES	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
				DATE	TIME				
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 <i>4 dup</i>			4/26/23	1500	12	X X X X	NEW_257_501	
11	NEW_G130							NEW_811_502	
12	NEW_G133			4/26/23	1609	6	X X X X	NEW_811_503	
13	NEW_G136			4/26/23	1702	4	X X X X	NEW_845_501	
14	NEW_G139							NEW_257_501	
15	NEW_G141							NEW_811_502	
16	NEW_G201							NEW_811_503	

<b>ADDITIONAL COMMENTS</b> <b>NEW-23Q2 Rev 0</b>	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>Jason A. Reed</i>	4/27/23	1030	<i>MM</i>	4-27	1030	Received on (Y/N) <input type="checkbox"/>
	<i>J. M. M. M.</i>	4-27	1400	<i>gravel</i>	4/27/23	14:20	Sealed Cooler (Y/N) <input type="checkbox"/>
SAMPLER NAME AND SIGNATURE				DATE Signed (MM/DD/YYYY)			
<i>Jason David</i>				<i>Jason David</i>			
PRINT Name of SAMPLER:				DATE Signed (MM/DD/YYYY):			
SIGNATURE OF SAMPLER:				DATE Signed (MM/DD/YYYY):			
<i>Jason David</i>				<i>4/26/23</i>			

<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 Vorelker</b>		Attention: <b>Jason Stuckey</b>	
Address: <b>13498 E. 800th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>	
Email To: <b>Brian.Vorelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>	
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quality Reference:	
Requested Due Date/TA: <b>10 day</b>		Project Number: <b>2285</b>		Site Location STATE: <b>IL</b>	

Page: 4 of 6

**REGULATORY AGENCY**  
 NPDES GROUND WATER DRINKING WATER  
 UST RCRA OTHER

ITEM #	Section D Required Client Information	Matrix Codes	Sample ID (A-Z, 0-9 / -)	Sample ID's MUST BE UNIQUE	Matrix Code	Sample Type (Grab/COM)	COLLECTED	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
1			NEW_G202					4/26/23	1303		9	H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	Analysis Test ↑		
2			NEW_G217HS					4/26/23	1151		9	H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	Analysis Test ↑		
3			NEW_G221					4/26/23	1310		9	H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	Analysis Test ↑		
4			NEW_G225					4/26/23	1416		9	H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	Analysis Test ↑		
5			NEW_G230					4/26/23	1526		9	H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	Analysis Test ↑		
6			NEW_G231												
7			NEW_G232												
8			NEW_G233												
9			NEW_G234												
10			NEW_L1R_leachate												
11			NEW_L201_leachate												
12			NEW_L202_leachate												
13			NEW_L203_leachate												
14			NEW_L204_leachate												
15			NEW_L205_leachate												
16			NEW_L301_leachate												

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<i>James David</i>	4/27/23	1030	<i>James David</i>	4-27	1030	Temp in °C
<i>James David</i>	4-27	1420	<i>James David</i>	4/27/23	14:20	Received on Ice (Y/N)
						Custody Sealed Cooler (Y/N)
						Samples Intact (Y/N)

**NEW-23Q2 Rev 0**

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

**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:  
Policies:

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

ITEM #	Section D Required Client Information	Valid Matrix Codes CODE DIB WAT WIP WMP P BL OL SP AP MS OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	PRESERVATIVES	ANALYSIS TEST ↑	Requested Analysis Filtered (Y/N)			Project No./ Lab I.D.				
					DATE	TIME				DATE	TIME	DATE		TIME			
1	NEW_LREP_leachate				4/26/23	1143	9	HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other	Analysis Test ↑								
2	NEW_MW84&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																
12	NEW_XPW01_pore																
13	NEW_XPW02_pore																
14	NEW_XPW03_pore																
15	NEW_XPW04_pore																
16	NEW_XSG01 DTW																

**NEW-23Q2 Rev 0**

RELINQUISHED BY / AFFILIATION: *Jason Stuckey* DATE: **4/27/23** TIME: **1030**  
 ACCEPTED BY / AFFILIATION: *James David* DATE: **4-27-23** TIME: **1420**

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: **5**  
 Received on Ice (Y/N): **Y**  
 Sealed Cooler (Y/N): **N**  
 Samples Intact (Y/N): **Y**



6DO474698

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

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

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

ITEM #	Section D Requested Client Information	Valid Matrix Codes SCALE DW WT WV WY P SL OL UL VP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-RAB-C-OMP)	COLLECTED		# OF CONTAINERS	Preservatives Unpreserved H <sub>2</sub> O <sub>2</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
					DATE	TIME				
1	NEW_A213									
2	NEW_A214									
3	NEW_A215			4/26/23	1640	9	X X X X X		NEW_SUP_000	
4	NEW_APW02								NEW_NPDES_501	
5	NEW_APW03								NEW_811_503	
6	NEW_APW04								NEW_811_502	
7	NEW_APW05			4/26/23	1740	11	X X X X		NEW_257_501	
8	NEW_APW05S									
9	NEW_APW05S			4/26/23	1600	11	X X X X			
10	NEW_APW06									
11	NEW_APW07			4/26/23	1211	11	X X X X			
12	NEW_APW08									
13	NEW_APW09									
14	NEW_APW10			4/26/23	1543	11	X X X X			
15	NEW_APW11									
16	NEW_APW12			4/26/23	1356	11	X X X X			
16	NEW_APW13									

ADDITIONAL COMMENTS <b>NEW-23Q2 Rev 0</b>	RELINQUISHED BY / AFFILIATION Jason Stuckey Vistra Corp	DATE 4/27/23	TIME 717
ACCEPTED BY / AFFILIATION Jason Stuckey Vistra Corp	DATE 4/27/23	TIME 1426	SAMPLE CONDITIONS Returned on Ice (Y/N) Sealed Cooler (Y/N) Samples Intact (Y/N)

DATE SIGNED (MINUTE): 4/26/23  
 SIGNATURE OF SAMPLER: Jason Stuckey  
 PRINT NAME OF SAMPLER: Jason Stuckey  
 SIGNATURE OF SAMPLER: Jason Stuckey

**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: Company: <b>Visitra Corp</b> Address: <b>13498 E. 90th St</b>		<b>Section B</b> Required Project Information: Report To: <b>Brian Voelker</b> Copy To: <b>Jason Stuckey</b>		<b>Section C</b> Invoice Information: Attention: <b>Jason Stuckey</b> Company Name: <b>Visitra Corp</b> Address: <b>see Section A</b>		<b>REGULATORY AGENCY</b> NPDES <b>GROUND WATER</b> <b>DRINKING WATER</b> UST <b>RCRA</b> <b>OTHER</b>	
Email To: <b>Brian.Voelker@VisitraCorp.com</b> Phone: <b>(217) 753-8911</b> Fax:		Purchase Order No.: Project Name: Project Number: <b>2285</b>		Site Location STATE: <b>IL</b>		Requested Due Date/TAT: <b>10 day</b>	

ITEM #	Section D Required Client Information	Valid Matrix Codes	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (GRAVS O-COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Analysis Test ↑ Y/N	Requested Analysis Filtered (Y/N)				Project No./ Lab I.D.	
					DATE	TIME				NPDES	GROUND WATER	DRINKING WATER	OTHER		
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															

<b>ADDITIONAL COMMENTS</b> <b>NEW-23Q2 Rev 0</b>		RELINQUISHED BY / AFFILIATION <i>Jack R Red</i>	DATE <b>4/27/23</b>	TIME <b>1030</b>	ACCEPTED BY / AFFILIATION <i>gracy</i>	DATE <b>4-27-2023</b>	TIME <b>14:20</b>	SAMPLE CONDITIONS Received on: <b>Y</b> Sealed Cooler: <b>N</b> Sample Intact: <b>Y</b>
SIGNATURE OF SAMPLER: <i>James David</i>		DATE SIGNED (MM/DD/YYYY): <b>4/26/23</b>		SIGNATURE OF SAMPLER: <i>James David</i>		DATE SIGNED (MM/DD/YYYY): <b>4/26/23</b>		COURIER



6D04839  
JEF

Page: 1 of 6

**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) 753-8511 Fax:

**Section B**  
 Required Project Information:  
 Report To: Brian Voelker  
 Copy To: Jason Sluckey  
 Purchase Order No.:  
 Project Name:  
 Project Number: 2285  
 Requested Due Date/TAT: 10 day

**Section C**  
 Invoice Information:  
 Attention: Jason Sluckey  
 Company Name: Vistra Corp  
 Address: see Section A  
 Date Reference:  
 Project Manager:  
 Profile #:

REGULATORY AGENCY: IL  
 NPDES: GROUND WATER DRINKING WATER  
 UST: RCRA OTHER

Site Location: IL  
 STATE: IL

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE GROUND WATER GW WATER WW WASTE WATER WP PRODUCT P SOIL/SOLID S OIL OL AIR AIR OTHER OT TISSUE TS	MATRIX CODE (see yard codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test ↑	Requested Analysis Filtered (Y/N)		Project No. / Lab I.D.
					DATE	TIME					Y	N	
1	NEW_A213		WT 6	G	4/27/23	12:09	9	X X X X X X	Unpreserved			NEW_SUP_000	
2	NEW_A214		WT 6	G	4/27/23	14:32	9	X X X X X X	Unpreserved			NEW_NPDES_501	
3	NEW_A215		WT 6	G	4/27/23	12:17	11	X X X X	Unpreserved			NEW_845_501	
4	NEW_APW02		WT 6	G	4/27/23	12:40	11	X X X X	Unpreserved			NEW_811_503	
5	NEW_APW03		WT 6	G	4/27/23	10:35	11	X X X X	Unpreserved			NEW_811_502	
6	NEW_APW04		WT 6	G	4/27/23	14:05	11	X X X X	Unpreserved			NEW_257_502	
7	NEW_APW05		WT 6	G	4/27/23	1:54	11	X X X X	Unpreserved			NEW_257_501	
8	NEW_APW05&S		WT 6	G	4/27/23	17:16	11	X X X X	Unpreserved				
9	NEW_APW06		WT 6	G	4/27/23	10:35	11	X X X X	Unpreserved				
10	NEW_APW07		WT 6	G	4/27/23	10:35	11	X X X X	Unpreserved				
11	NEW_APW08		WT 6	G	4/27/23	14:05	11	X X X X	Unpreserved				
12	NEW_APW09		WT 6	G	4/27/23	14:05	11	X X X X	Unpreserved				
13	NEW_APW10		WT 6	G	4/27/23	1:54	11	X X X X	Unpreserved				
14	NEW_APW11		WT 6	G	4/27/23	1:54	11	X X X X	Unpreserved				
15	NEW_APW12		WT 6	G	4/27/23	17:16	11	X X X X	Unpreserved				
16	NEW_APW13		WT 6	G	4/27/23	17:16	11	X X X X	Unpreserved				

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

RELINQUISHED BY / AFFILIATION: [Signature] DATE: 4/28/23 TIME: 0705  
 ACCEPTED BY / AFFILIATION: [Signature] DATE: 4/28/23 TIME: 0705  
 REACHED ON LOS (Y/N): Y  
 SEaled COoler (Y/N): Y  
 SAMPLES Intact (Y/N): Y

Temp in °C: 17

DATE SIGNED (M/D/Y): 04/27/2023  
 SIGNATURE OF SAMPLER: [Signature]  
 PRINT Name of SAMPLER: Aaron Pemberton  
 DATE SIGNED (M/D/Y): 04/27/2023  
 SIGNATURE OF SAMPLER: [Signature]

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

ITEM #	Section D Required Client Information	Valid Matrix Codes	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	DATE	TIME	SAMPLER NAME AND SIGNATURE	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
1	<b>SAMPLE ID</b> (A-Z, 0-9 / .) Sample IDs MUST BE UNIQUE	DRINKING WATER	DW															
2		WASTE WATER	WW															
3		WASTE WATER PRODUCT	WWP															
4		SOIL/SOLID	SL															
5		OIL	OL															
6		SLURRY	SR															
7		AIR	AI															
8		OTHER	OT															
9		TISSUE	TI															
10																		
11																		
12																		
13																		
14																		
15																		
16																		

<b>ADDITIONAL COMMENTS</b>		<b>RELINQUISHED BY / AFFILIATION</b>		<b>DATE</b>		<b>TIME</b>		<b>ACCEPTED BY / AFFILIATION</b>		<b>DATE</b>		<b>TIME</b>		<b>SAMPLE CONDITIONS</b>	
<b>NEW-23Q2 Rev 0</b>		<i>[Signature]</i>		<b>4/25/23</b>		<b>0705</b>		<i>[Signature]</i>		<b>4/28/23</b>		<b>0705</b>		<b>2</b>	
		<i>[Signature]</i>		<b>4/28/23</b>		<b>0845</b>		<i>[Signature]</i>		<b>4/28/23</b>		<b>12:45</b>		<b>6</b>	
		<b>SAMPLER NAME AND SIGNATURE</b>		<b>DATE SIGNED (MM/DD/YYYY)</b>				<b>DATE SIGNED (MM/DD/YYYY)</b>							
		<i>[Signature]</i>						<i>[Signature]</i>							
		<b>PRINT NAME of SAMPLER:</b>						<b>PRINT NAME of SAMPLER:</b>							
		<b>NEWTON POWER PLANT</b>						<b>NEWTON POWER PLANT</b>							
		<b>DATE SIGNED (MM/DD/YYYY):</b>						<b>DATE SIGNED (MM/DD/YYYY):</b>							
		<b>04/27/23</b>						<b>04/27/23</b>							

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

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

Page: 3 of 8

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <b>Visitra Corp</b>	Report To: <b>Brian Voelker</b>	Attention: <b>Jason Stuckey</b>	Company Name: <b>Visitra Corp</b>	Company Name: <b>Visitra Corp</b>	REGULATORY AGENCY
Address: <b>13488 E. 900th St</b>	Copy To: <b>Jason Stuckey</b>	Address: <b>see Section A</b>	Address: <b>see Section A</b>	NPDES	GROUND WATER
Email To: <b>Brian.Voelker@VisitraCorp.com</b>	Purchase Order No.:	Quality Reference:	Project Manager:	UST	DRINKING WATER
Phone: <b>(217) 763-8911</b> Fax:	Project Name:	Profile #:	Profile #:	Site Location:	OTHER
Requested Due Date/TAT: <b>10 day</b>	Project Number: <b>2285</b>	STATE: <b>IL</b>			

ITEM #	Section D Required Client Information	Valid Matrix Codes	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)	DATE	TIME	SAMPLE CONDITIONS			
					DATE	TIME							Received on Ice (Y/N)	Cooling Sealed Cooler (Y/N)	Samples Intact (Y/N)	
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															
11	NEW_G130															
12	NEW_G133															
13	NEW_G136															
14	NEW_G139															
15	NEW_G141															
16	NEW_G201															
ADDITIONAL COMMENTS <b>NEW-23Q2 Rev 0</b> APN 4/27/23 Signature: <i>[Signature]</i> DATE SIGNED (MM/DD/YY): 04/27/23													Temp in °C	Received on Ice (Y/N)	Cooling Sealed Cooler (Y/N)	Samples Intact (Y/N)

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

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

<b>Section A</b> Required Client Information: Company: <b>Vistra Corp</b> Address: <b>13498 E. 900th St</b>		<b>Section B</b> Required Project Information: Report To: <b>Jason Voelker</b> Copy To: <b>Jason Stuckey</b>		<b>Section C</b> Invoice Information: Attention: <b>Jason Stuckey</b> Company Name: <b>Vistra Corp</b> Address: <b>see Section A</b>		Page: <b>4</b> of <b>8</b>											
Email To: <b>Brian.Voelker@VistraCorp.com</b> Phone: <b>(217) 753-8911</b> Fax:		Purchase Order No.: Project Name: Project Manager: Profile #		NPOES UST RCRA OTHER		REGULATORY AGENCY GROUND WATER DRINKING WATER											
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Site Location STATE: <b>IL</b>		Project No./ Lab I.D.											
ITEM #	Valid Matrix Codes MATRIX CODE DRINKING WATER WATER WATER PROJECT SOLID OIL WIRE AIR OTHER TISSUE	Valid Matrix Codes CODE DW WT WP P SL OL WP AR OT TI	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-RAB C-COMP)	COLLECTED		DATE	TIME	# OF CONTAINERS	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	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.				
					DATE	TIME											
1																	
2																	
3			WT	G		4/27/23	10:27	0	X	X							
4			WT	G		4/27/23	13:35	0	X	X							
5																	
6																	
7																	
8																	
9																	
10			WT	G		4/27/23	13:09	0	X	X							
11			NEW_L1R_leachate														
12			NEW_L201_leachate														
13			NEW_L202_leachate														
14			NEW_L203_leachate														
15			NEW_L204_leachate														
16			NEW_L205_leachate														
ADDITIONAL COMMENTS <b>NEW-23Q2 Rev 0</b>													RELINQUISHED BY / AFFILIATION [Signature] Brandon [Signature]	DATE 4/28/23 07:05 4/28/23 12:45	ACCEPTED BY / AFFILIATION [Signature] Brandon [Signature]	DATE 4/28/23 07:05 4/28/23 12:45	SAMPLE CONDITIONS Recycled on ice (Y/N) Sealed Cooler (Y/N) Samples Intact (Y/N)
SAMPLER NAME AND SIGNATURE: [Signature] Brandon [Signature]													DATE SIGNED (MM/DD/YYYY): 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(TA): 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 #	Valid Matrix Codes MATRIX CODE DRINKING WATER WASTE WATER PRODUCT SOLID OIL WPE AIR OTHER TISSUE	Requested Client Information <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes D/W W/W S O/L W/P A/R O/T T/S	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-RAB C-COMP)	COLLECTED		# OF CONTAINERS	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>5</sub> Methanol Other	Requested Analyticals Filtered (Y/N)	Project No./ Lab I.D.
						DATE	TIME				
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									
12		NEW_XPW01_pore									
13		NEW_XPW02_pore									
14		NEW_XPW03_pore									
15		NEW_XPW04_pore E-B-03									
16		NEW_XSG01 - DIW									

**REINISHED BY / AFFILIATION** DATE TIME  
*Brenda Blum* 4/28/23 0705  
*Brenda Blum* 4/28/23 1245  
**SAMPLER NAME AND SIGNATURE** *Brenda Blum*  
**PRINT Name of SAMPLER:** *Brenda Blum*  
**SIGNATURE of SAMPLER:** *Brenda Blum*  
**DATE Signed (MM/DD/YY):** 04/27/23

**ACCEPTED BY / AFFILIATION** DATE TIME  
*Jason Stuckey* 4/28/23 0705  
*Jason Stuckey* 4/28/23 1245  
**PRINT Name of SAMPLER:** *Jason Stuckey*  
**SIGNATURE of SAMPLER:** *Jason Stuckey*  
**DATE Signed (MM/DD/YY):** 04/27/23

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

**Temp in °C** 0 0  
**Received on** 4/28/23 4/28/23  
**Custody** Sealed Cooler (Y/N) 2 2  
**Samples Intact** (Y/N) 1 1

6204851-01

gdf

Page: 4 of 6

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

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX	ECCODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	SAMPLER NAME AND SIGNATURE	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
					DATE	TIME										
1	NEW_G202															
2	NEW_G217#S															
3	NEW_G221			MT 6	4/27/23	10 27				4/28/23 07:05			4/28/23 07:05			
4	NEW_G225			MT 6	4/27/23	1335				4/28/23 12:45			4/28/23 12:45			
5	NEW_G230															
6	NEW_G231															
7	NEW_G232															
8	NEW_G233															
9	NEW_G234															
10	NEW_L1R_leachate			MT 6	4/27/23	1309										
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		DTW													

<b>Section E</b> Additional Comments		<b>Section F</b> Requested Analysis Filtered (Y/N)	
<b>NEW-23Q2 Rev 0</b>		Analysis Test ↑	
		Y/N	
		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	
		# OF CONTAINERS	
		SAMPLE TEMP AT COLLECTION	
		RELINQUISHED BY / AFFILIATION	
		DATE	
		TIME	
		ACCEPTED BY / AFFILIATION	
		DATE	
		TIME	
		SAMPLE CONDITIONS	
		Received on	
		Ice (Y/N)	
		Sealed Cooler (Y/N)	
		Samples Injected (Y/N)	



GDO4919

Page: 2 of 6

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

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DW DRINKING WATER WT WASTE WATER P PRODUCT SL SOIL/SOLID SL SOIL/SOLID OIL OIL AIR AIR OTHER OTHER TS TISSUE	SAMPLE TYPE (Q=GRAB C=COMP)	COLLECTED DATE/TIME	# OF CONTAINERS	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	Requested Analysis Filtered (Y/N)				Project No./ Lab I.D.													
								NPDES	RCRA	OTHER	STATE														
1	G/S NEW_APW14 + dup		MIX	4/28/23 1129	22																				
2	G/S NEW_APW15																								
3	NEW_APW16																								
4	NEW_APW17																								
5	NEW_APW18																								
6	NEW_G104																								
7	NEW_G104HS 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																								

RELINQUISHED BY / AFFILIATION <b>Joseph R. Altek</b>	DATE / TIME <b>4/28/23 16:12</b>	ACCEPTED BY / AFFILIATION <b>Jason Stuckey</b>	DATE / TIME <b>4/28/23 16:10</b>
ADDITIONAL COMMENTS <b>NEW-23Q2 Rev 0</b>		SAMPLE CONDITIONS Temp in °C Received on Sealed Cooler (Y/N) Samples Intact (Y/N)	
SAMPLER NAME AND SIGNATURE <b>Joseph R. Altek</b>		DATE SIGNED (MM/DD/YYYY) <b>4/28/23</b>	

### 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: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey	Company Name: Vistra Corp	Site Location	REGULATORY AGENCY
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Address: see Section A	Address: see Section A	NPDES	GROUND WATER
				UST	DRINKING WATER
					OTHER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Client Reference:	Project:	STATE: IL	
Phone: (217) 753-8971	Project Name:	Manager:	Profile #:		
Requested Due Date/TAT: 10 day	Project Number: 2285				

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
				DATE	TIME									Temp in °C	Recooled on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
1	NEW_G114	DRINKING WATER																
2	NEW_G114&D	WATER																
3	NEW_G115 DTW	WATER																
4	NEW_G116	PRODUCT	MTG	4/28/23	1010	4												
5	NEW_G117 DTW	SOIL/SOLID	MTG	4/28/23	1004	4												
6	NEW_G118	OIL																
7	NEW_G119 DTW	WIP																
8	NEW_G120 DTW	AIR																
9	NEW_G125	OTHER																
10	NEW_G128	ISSUE																
11	NEW_G130																	
12	NEW_G133																	
13	NEW_G136																	
14	NEW_G138																	
15	NEW_G141																	
16	NEW-0001 EB-04																	

<b>ADDITIONAL COMMENTS</b> NEW-23Q2 Rev 0		RELINQUISHED BY / AFFILIATION Jason Stuckey		DATE 4/28/23		TIME 16:12	
RECEIVED BY / AFFILIATION Jason Stuckey		DATE 4/28/23		TIME 16:12		SAMPLE CONDITIONS	
SAMPLER NAME AND SIGNATURE Joe Reed		PRINT Name of SAMPLER Joe Reed		DATE Signed (MM/DD/YYYY) 4/28/23		SIGNATURE of SAMPLER [Signature]	

## 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> Invoices Information:	
Company:	Vistra Corp	Request To:	Brian Voelker	Attention:	Jason Stuckey
Address:	13498 E. 900th St	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Address:	see Section A
Phone:	(217) 753-8911	Project Name:		State:	IL
Requested Due Date/TAT:	10 day	Project Number:	2285	Site Location:	

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

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE	SAMPLE TYPE (G=GRAV C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
					DATE	TIME									Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (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																	
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																	

RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[Signature]		4/28/23		[Signature]	4/28/23	
SAAMPLER NAME AND SIGNATURE						
PRINT Name of SAMPLER: Joe Reed						
SIGNATURE of SAMPLER: [Signature]						
DATE Signed (MM/DD/YYYY): 4/28/23						

GD04927-01 *gdf*

### 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  
Guidance Reference: Project Manager:  
Profile #:  
REGULATORY AGENCY:  
GROUND WATER DRINKING WATER  
FCRA OTHER  
NPDES  
UST  
Site Location: IL  
STATE:

ITEM #	Valid Matrix Code MATRIX CODE DRINKING WATER WATER WATER PRODUCT RESIDUAL OIL WIFE AIR OTHER TISSUE	Valid Matrix Code CODE DW WT WW WP P SL CL WF AR VT TS	COLLECTED		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			Project No./ Lab I.D.																																																																																																																																																										
			MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-RAB-C=COMP)				DATE	TIME			DATE	TIME	Received on Ice (Y/N)		Sealed Cooler (Y/N)	Samples Intact (Y/N)																																																																																																																																																								
1	NEW_G202				<i>Joe Reed</i> <i>Joseph R. Reed</i>	<i>4/28/23</i>	<i>12:20</i>	<i>20</i>			<i>4/28/23</i>	<i>16:12</i>	<i>4</i>	<i>4</i>	<i>1</i>																																																																																																																																																										
2	NEW_G217#S															<i>Joe Reed</i> <i>Joseph R. Reed</i>	<i>4/28/23</i>	<i>16:12</i>	<i>20</i>			<i>4/28/23</i>	<i>16:12</i>	<i>4</i>	<i>4</i>	<i>1</i>																																																																																																																																															
3	NEW_G221																										<i>Joe Reed</i> <i>Joseph R. Reed</i>	<i>4/28/23</i>	<i>16:12</i>	<i>20</i>			<i>4/28/23</i>	<i>16:12</i>	<i>4</i>	<i>4</i>	<i>1</i>																																																																																																																																				
4	NEW_G225																																					<i>Joe Reed</i> <i>Joseph R. Reed</i>	<i>4/28/23</i>	<i>16:12</i>	<i>20</i>			<i>4/28/23</i>	<i>16:12</i>	<i>4</i>	<i>4</i>	<i>1</i>																																																																																																																									
5	NEW_G230																																																<i>Joe Reed</i> <i>Joseph R. Reed</i>	<i>4/28/23</i>	<i>16:12</i>	<i>20</i>			<i>4/28/23</i>	<i>16:12</i>	<i>4</i>	<i>4</i>	<i>1</i>																																																																																																														
6	NEW_G231																																																											<i>Joe Reed</i> <i>Joseph R. Reed</i>	<i>4/28/23</i>	<i>16:12</i>	<i>20</i>			<i>4/28/23</i>	<i>16:12</i>	<i>4</i>	<i>4</i>	<i>1</i>																																																																																																			
7	NEW_G232																																																																						<i>Joe Reed</i> <i>Joseph R. Reed</i>	<i>4/28/23</i>	<i>16:12</i>	<i>20</i>			<i>4/28/23</i>	<i>16:12</i>	<i>4</i>	<i>4</i>	<i>1</i>																																																																																								
8	NEW_G233																																																																																	<i>Joe Reed</i> <i>Joseph R. Reed</i>	<i>4/28/23</i>	<i>16:12</i>	<i>20</i>			<i>4/28/23</i>	<i>16:12</i>	<i>4</i>	<i>4</i>	<i>1</i>																																																																													
9	NEW_G234																																																																																												<i>Joe Reed</i> <i>Joseph R. Reed</i>	<i>4/28/23</i>	<i>16:12</i>	<i>20</i>			<i>4/28/23</i>	<i>16:12</i>	<i>4</i>	<i>4</i>	<i>1</i>																																																																		
10	NEW_L1R_leachate																																																																																																							<i>Joe Reed</i> <i>Joseph R. Reed</i>	<i>4/28/23</i>	<i>16:12</i>	<i>20</i>			<i>4/28/23</i>	<i>16:12</i>	<i>4</i>	<i>4</i>	<i>1</i>																																																							
11	NEW_L201_leachate DTW																																																																																																																		<i>Joe Reed</i> <i>Joseph R. Reed</i>	<i>4/28/23</i>	<i>16:12</i>	<i>20</i>			<i>4/28/23</i>	<i>16:12</i>	<i>4</i>	<i>4</i>	<i>1</i>																																												
12	NEW_L202_leachate DTW																																																																																																																													<i>Joe Reed</i> <i>Joseph R. Reed</i>	<i>4/28/23</i>	<i>16:12</i>	<i>20</i>			<i>4/28/23</i>	<i>16:12</i>	<i>4</i>	<i>4</i>	<i>1</i>																																	
13	NEW_L203_leachate DTW																																																																																																																																								<i>Joe Reed</i> <i>Joseph R. Reed</i>	<i>4/28/23</i>	<i>16:12</i>	<i>20</i>			<i>4/28/23</i>	<i>16:12</i>	<i>4</i>	<i>4</i>	<i>1</i>																						
14	NEW_L204_leachate DTW																																																																																																																																																			<i>Joe Reed</i> <i>Joseph R. Reed</i>	<i>4/28/23</i>	<i>16:12</i>	<i>20</i>			<i>4/28/23</i>	<i>16:12</i>	<i>4</i>	<i>4</i>	<i>1</i>											
15	NEW_L205_leachate DTW																																																																																																																																																														<i>Joe Reed</i> <i>Joseph R. Reed</i>	<i>4/28/23</i>	<i>16:12</i>	<i>20</i>			<i>4/28/23</i>	<i>16:12</i>	<i>4</i>	<i>4</i>	<i>1</i>
16	NEW_L301_leachate																																																																																																																																																																								
					<i>Joe Reed</i> <i>Joseph R. Reed</i>	<i>4/28/23</i>	<i>16:12</i>	<i>20</i>			<i>4/28/23</i>	<i>16:12</i>	<i>4</i>	<i>4</i>	<i>1</i>																																																																																																																																																										
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**Section D**  
Requested Client Information  
**SAMPLE ID**  
(A-Z, 0-9, /, )  
Sample IDs MUST BE UNIQUE

**Additional Comments:**  
**NEW-23Q2 Rev 0**

RELINQUISHED BY / AFFILIATION: *Joe Reed*  
DATE: *4/28/23* TIME: *16:12*

ACCEPTED BY / AFFILIATION: *Joe Reed*  
DATE SIGNED (MM/DD/YYYY): *4/29/23*

PRINT Name of SAMPLER: *Joe Reed*  
SIGNATURE of SAMPLER: *Joe Reed*

DATE SIGNED (MM/DD/YYYY): *4/29/23*

**SUBCONTRACT ORDER**  
**Transfer Chain of Custody**

**Pace Analytical Services, LLC**  
**GD04927**

**SENDING LABORATORY**

**RECEIVING LABORATORY**

PDC Laboratories, Inc.  
2231 W Altorfer Dr  
Peoria, IL 61615  
(800) 752-6651

Pace Analytical Services, LLC - Hazelwood  
944 Anglum Road  
Hazelwood, MO 63042  
(314) 432-0550

**Sample: GD04927-01**  
**Name: L301**

**Sampled: 04/28/23 12:20**  
**Matrix: Ground Water**  
**Preservative: Cool <6**

Analysis	Due	Expires	Comments
06-M8321 Herbicides	05/10/23 16:00	05/05/23 12:20	

Please email results to Gail Schindler at [gail.schindler@pacelabs.com](mailto:gail.schindler@pacelabs.com)

Date Shipped: 5/1/23 Total # of Containers: 1 Sample Origin (State): IL PO #:       

Turn-Around Time Requested  NORMAL  RUSH Date Results Needed:                     

<i>[Signature]</i>	<u>5/1/23 0651</u>	<i>[Signature]</i>	<u>5-1</u> <u>730</u>	Sample Temperature Upon Receipt	<u>2.2</u> °C
Relinquished By	Date/Time	Received By	Date/Time	Sample(s) Received on Ice	Y or N
<i>[Signature]</i>	<u>5-1</u> <u>1100</u>	<i>[Signature]</i>	<u>5/1/23</u> <u>1100</u>	Proper Bottles Received in Good Condition	Y or N
Relinquished By	Date/Time	Received By	Date/Time	Bottles Filled with Adequate Volume	Y or N
				Samples Received Within Hold Time	Y or N
				Date/Time Taken From Sample Bottle	Y or N



0500180  
Vmw 5-2-23

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

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

Page: **2** of **6**

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company:	Visitra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	13498 E. 900th St	Copy To:	Jason Stuckey	Company Name:	Visitra Corp
Email To:	Brian.Voelker@VisitraCorp.com	Purchase Order No.:		Address:	see Section A
Phone:	(217) 753-8811 Fax:	Project Name:		Quote Reference:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Project Manager:	
				Facility #:	

ITEM #	Section D Required Client Information	Valid Matrix Codes	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	DATE	TIME	SAMPLER NAME AND SIGNATURE	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLER NAME AND SIGNATURE	DATE	TIME	Requested Analysis Filtered (Y/N)			Project No./ Lab I.D.		
																	Preservatives	Y/N	Y/N		Y/N	
1		DRINKING WATER	DRW																			
2		WASTE WATER	WWT																			
3		WASTE WATER PRODUCT	WWP																			
4		LIQUID	L																			
5		SLURRY	SL																			
6		OTHER	OT																			
7		TISSUE	TS																			
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

<b>Section E</b> Additional Comments:		<b>Section F</b> Requested Analysis Filtered (Y/N)		<b>Section G</b> Requested Analysis Filtered (Y/N)	
NEW-23Q2 Rev 0					
RELINQUISHED BY / AFFILIATION		DATE		TIME	
[Signature]		5/11/23		2011	
ACCEPTED BY / AFFILIATION		DATE		TIME	
Vance Wegman		5-2-23		705	
SAMPLER NAME AND SIGNATURE		DATE SIGNED (MM/DD/YYYY)		TEMP IN °C	
[Signature]		05/01/23		0.9	
PRINT Name of SAMPLER:		DATE SIGNED (MM/DD/YYYY):		RECEIVED ON	
Aaron Pambolan		05/01/23		[Signature]	
SIGNATURE of SAMPLER:		DATE SIGNED (MM/DD/YYYY):		SEALING COVER (Y/N)	
[Signature]		05/01/23		[Signature]	
				CUSTODY (Y/N)	
				[Signature]	
				SAMPLER INTACT (Y/N)	
				[Signature]	

Courier



JE00180  
Vmw 5-2-23

**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: Company: <b>Vistra Corp</b> Address: <b>13486 E. 900th St</b> Email To: <b>Brian.Voelker@VistraCorp.com</b> Phone: <b>(217) 753-8911</b> Fax: Requested Due Date/TAT: <b>10 day</b>		<b>Section B</b> Required Project Information: Report To: <b>Brian Voelker</b> Copy To: <b>Jason Stuckey</b> Purchase Order No.: Project Name: Project Number: <b>2285</b>		<b>Section C</b> Invoice Information: Attention: <b>Jason Stuckey</b> Company Name: <b>Vistra Corp</b> Address: <b>see Section A</b> Quota Reference: Project Manager: Profile #: NPDES UST Site Location STATE: <b>IL</b>		REGULATORY AGENCY GROUND WATER DRINKING WATER OTHER	
<b>Section D</b> Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		Vial Mark Codes MATRIX: DW, WW, SW, SL, OL, VAP, AP, OT, TS DRINKING WATER, WASTE WATER, WASTEWATER, SOIL/SOLID, OIL, VAPOR, AIR, OTHER, ISSUE		MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP) DATE TIME		COLLECTED DATE TIME	

ITEM #	Requested Analysis Filtered (Y/N)	Preservatives	# OF CONTAINERS	Y/N	DATE	TIME	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
													Received on Ice (Y/N)	Cooler (Y/N)	Sealed (Y/N)	
1		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	2	X	5/1/23	1311	WT G	5/1/23	2011	Jason Voelker	5-2-23	705	0.9	Y	N	Y
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																

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

SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER:  
 SIGNATURE of SAMPLER:

DATE SIGNED (MM/DD/YYYY):  
 DATE SIGNED (MM/DD/YYYY):

Project No./ Lab I.D.

Carrier

GED0180  
VMW S-2-23

**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 #	Requested Client Information	Valid Matrix Codes MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
				DATE	TIME									Received on Ice (Y/N)	Sealed Cooler (Y/N)	Samples Intact (Y/N)		
1	NEW_LREP_leachate	WT G	WT G	5/1/23	1639	12	H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> Methanol Other		NEW_257_501									
2	NEW_MM24&D	WT G	WT G	5/1/23	1259	2	Unpreserved		NEW_845_501									
3	NEW_MM35&D	WT G	WT G	5/1/23	1555	2			NEW_811_503									
4	NEW_MM43&D	WT G	WT G	5/1/23	1356	2			NEW_811_502									
5	NEW_MM46&D	WT G	WT G	5/1/23	1500	2			NEW_257_502									
6	NEW_R201																	
7	NEW_R202																	
8	NEW_R217&D																	
9	NEW_R219																	
10	NEW_T101																	
11	NEW_T102																	
12	NEW_XPW01_pore																	
13	NEW_XPW02_pore EB-05																	
14	NEW_XPW03_pore																	
15	NEW_XPW04_pore																	
16	NEW_XSG01 - DTW																	

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

SAMPLER NAME AND SIGNATURE  
PRINT Name of SAMPLER: Jason Voelker  
SIGNATURE of SAMPLER: [Signature]

DATE SIGNED (MM/DD/YYYY): 05/01/23

DATE SIGNED (MM/DD/YYYY): 05/01/23

RECEIVED BY / AFFILIATION: Jason Voelker

DATE: 5-2-23 TIME: 705

TEMP IN °C: 0.9

Received on Ice (Y/N): Y

Sealed Cooler (Y/N): N

Samples Intact (Y/N): Y

Project No./ Lab I.D.: NEW-257-502

*Courtesy*

Newton

WELL/SAMPLE POINT G104D

Purge Method: pollable ramp  
Date: 5/1/2023 Start Time: 1321 Finish/Sample Time: 131408

Well Depth (Bottom) From MP: 89.91 ft Min. Purge Volume: 2 Gal

Depth to Water From MP: 50.62 ft Total Purge Volume: 2 Gal

Total Drawdown: 2.84 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	1345	51.64	100	7.24	1710	15.64	-90	1.61	55.3
2	1347	52.03	100	7.22	1690	15.90	-105	1.58	72.1
3	1349	52.12	100	7.20	1670	15.99	-113	1.67	63.5
4	1351	52.15	100	7.19	1650	15.96	-118	1.63	60.2
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 type="checkbox"/>	<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)
	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	General (P,1000mL)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Comments Final DTW 53.46 ft

Sampler's Signature: [Signature]

Newton

WELL/SAMPLE POINT G114

Purge Method: portable pump

Date: 5/11/23 12:32 Start Time: 1232 Finish/Sample Time: 1311

Well Depth (Bottom) From MP: 44.55 ft Min. Purge Volume: 2 Gal

Depth to Water From MP: 13.42 ft Total Purge Volume: 2 Gal

Total Drawdown: 2.58 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	1254	15.45	100	6.70	3990	15.09	-59	0.64	589
2	1256	15.50	100	6.70	4000	15.22	-63	0.56	526
3	1258	15.55	100	6.70	4000	15.27	-65	0.50	453
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)
	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	General (P, 1000mL)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Comments Airer DTW 16.00 PL

Sampler's Signatura: [Signature]





**Newton**

WELL/SAMPLE POINT G118

Purge Method: submersible pump (LP)

Date: 4-28-23 Start Time: 09:08 Finish/Sample Time: 10:04

Well Depth (Bottom) From MP: 22.42 ft Min. Purge Volume: 2.0 Gal / L

Depth to Water From MP: 6.85 ft Total Purge Volume: 2.3 Gal / L

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	09:34	7.46	100	7.08	485	16.60	134	3.46	1000
2	09:35	7.46	100	7.06	483	16.69	136	3.46	906
3	09:36	7.45	100	7.05	481	16.77	138	3.34	850
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: Holiba

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

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

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Comments Final Dept 7.50  
FD CI

Sampler's Signature: [Signature]



**Newton**

WELL/SAMPLE POINT G128

Purge Method: peristaltic with dedicated tubing

Date: 4/26/2023 Start Time: 1320 Finish/Sample Time: 1500

Well Depth (Bottom) From MP: 30.05 ft Min. Purge Volume: 2 Gal

Depth to Water From MP: 3.44 ft Total Purge Volume: 2 Gal

Total Drawdown: 8.01 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	1355	7.58	100	6.84	16,067	14.87	124.4	1.03	75.9
2	1357	7.70	100	6.85	16,060	14.90	124.4	0.99	82.2
3	1359	7.85	100	6.85	16,034	14.89	124.7	0.97	94.2
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Advaflow

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 type="checkbox"/>	<input checked="" type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input type="checkbox"/>	<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)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1 FID	Metals (P,250mL, HNO3)
1 FID	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1 FID	General (P, 1000mL)

Filtered	
Qty	Bottles
1 FID	Metals (P,250mL, HNO3)
1 FID	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1 FID	General (P, 1000 mL)

Comments: Field duplicate Filled here Final DTW - 11.4 ft

Sampler's Signature: 

**Newton**

WELL/SAMPLE POINT G130

Purge Method: peristaltic with dedicated tubing

Date: 4/27/2023 Start Time: 0916 Finish/Sample Time: 0942 1020  
*App 4/27/23*

Well Depth (Bottom) From MP: 23.20 ft Min. Purge Volume: 2 Gal (C)

Depth to Water From MP: 4.51 ft Total Purge Volume: 2 Gal (C)

Total Drawdown: 0.69 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	0940	5.20	100	6.42	9932	12.63	100.7	1.19	118.2
2	0942	5.22	100	6.43	9926	12.66	100.1	1.19	117.1
3	0944	5.23	100	6.43	9918	12.68	100.5	1.16	117.6
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatroll

Sample Appearance:

- Odor:  None  Slight  Mod.  Strong
- Color:  None  Slight  Mod.  Strong
- Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

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

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P, 1000mL)

Comments Final DTW - 5.20 ft

Sampler's Signature: 

WELL/SAMPLE POINT G133

Purge Method: Waterfall

Date: 4/26/2023 Start Time: 1526 Finish/Sample Time: 1609

Well Depth (Bottom) From MP: 27.60 ft

Min. Purge Volume: 10.95 Gal (D)

Depth to Water From MP: 9.50 ft

Total Purge Volume: 33 Gal (D)

Total Drawdown: 10.10 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	1539	7.55	-	7.19	3499	17.47	91.8	4.81	320.5
2	1548	18.02	-	7.09	3292	17.64	100.7	4.63	376.8
3	1557	19.85	-	7.13	3099	17.53	112.5	4.71	388.8
4	<del>_____</del>								
5	<del>_____</del>								
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatroll

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)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	(General (P, 1000mL))

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	(General (P, 1000mL))

Comments Sampled with waterfall due to kink in well preventing  
any other possible sampling methods Final DTW 1540

Sampler's Signature: [Signature]

**Newton**

WELL/SAMPLE POINT 6231

Purge Method: De Jicated Pump

Date: 4-26-23 Start Time: 12:09 Finish/Sample Time: 13:10

Well Depth (Bottom) From MP: 76.19 ft Min. Purge Volume: 2.0 Gal  $\text{Ⓢ}$

Depth to Water From MP: 47.45 ft Total Purge Volume: 2.3 Gal  $\text{Ⓢ}$

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	12:32	47.40	100	7.84	1,790	15.64	-152	0.29	71000
2	12:33	47.42	100	7.83	1,770	15.66	-154	0.18	71000
3	12:34	47.41	100	7.82	1,750	15.62	-154	0.10	71000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

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

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)

Comments FD= 47.41

Sampler's Signature: [Signature]

Sampled by Kyle Lane

Newton

WELL/SAMPLE POINT G232

Purge Method: Dedicated pump

Date: 4/26/23 Start Time: 1315 Finish/Sample Time: 1416

Well Depth (Bottom) From MP: 72.87 ft Min. Purge Volume: 2.0 Gal

Depth to Water From MP: 45.75 ft Total Purge Volume: 2.3 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	1340	45.78	100	7.77	1960	15.35	-136	0.33	>1000
2	1341	45.79	100	7.75	1940	15.28	-138	0.26	>1000
3	1342	45.78	100	7.74	1920	15.26	-139	0.19	>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
3	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	<u>DRG</u>

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)

Comments FD = 45.75

Sampler's Signatura: [Signature]

sampled by Kyle Lane

Newton

WELL/SAMPLE POINT G234

Purge Method: Designated Pump

Date: 4/25/2023 Start Time: 1417 Finish/Sample Time: 1542

Well Depth (Bottom) From MP: 70.61 ft Min. Purge Volume: 2 Gal (C)

Depth to Water From MP: 43.14 ft Total Purge Volume: 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	1442	43.14	100	7.47	1948	16.31	-175.4	0.31	431.1
2	1444	43.14	100	7.47	1935	16.27	-179.6	0.30	534.3
3	1446	43.14	100	7.48	1907	16.22	-179.2	0.27	545.5
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatroll

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.		X
Good seal/drainage	✓	
Well has weep holes		X

**BOTTLE INFORMATION:**

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

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P, 1000mL)

Comments Final DTW 43.14 ft

Sampler's Signature: 



Newton

WELL/SAMPLE POINT MW34D

Purge Method: Submersible pump

Date: 5/1/23 Start Time: 1213 Finish/Sample Time: 1259

Well Depth (Bottom) From MP: 58.67 ft Min. Purge Volume: 2 Gal

Depth to Water From MP: 14.01 ft Total Purge Volume: 4.5 Gal

Total Drawdown: 7.03 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1237	17.80	100	7.47	1262.1	16.75	-126.4	0.71	177.22
2	1239	18.15	100	7.47	1258.2	16.74	-125.1	0.70	168.96
3	1240	18.51	100	7.47	1266.5	16.71	-124.5	0.71	185.69
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 type="checkbox"/>	<input checked="" 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)
	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

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Comments Casing lid can't close because PVC is protruding too much out of casing  
FDTW = 21.04

Sampler's Signature: [Signature]

Newton

WELL/SAMPLE POINT MV35D

Purge Method: portable pump

Date: 5/1/2023 Start Time: 1510 Finish/Sample Time: 1555

Well Depth (Bottom) From MP: 53.67 ft Min. Purge Volume: 2 Gal (L)

Depth to Water From MP: 27.00 ft Total Purge Volume: 2 Gal (L)

Total Drawdown: 4.35 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1535	29.80	100	7.47	1090	15.33	-113	1.44	71000
2	1537	29.99	100	7.45	1100	15.35	-128	1.41	71000
3	1539	30.08	100	7.44	1090	15.32	-132	1.32	71000
4	[Handwritten scribbles]								
5	[Handwritten scribbles]								
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

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

**BOTTLE INFORMATION:**

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

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Comments Final DTW - 31.35 ft

Sampler's Signature: [Handwritten Signature]

Newton

WELL/SAMPLE POINT MW43D

Purge Method: Submersible pump

Date: 5/1/23 Start Time: 1316 Finish/Sample Time: 1356

Well Depth (Bottom) From MP: 40.75 ft Min. Purge Volume: 2 Gal

Depth to Water From MP: 5.85 ft Total Purge Volume: 5.5 Gal

Total Drawdown: 10.10 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	1338	13.12	100	6.96	3610.6	14.94	10.8	0.64	360.95
2	1339	13.23	100	6.96	3617.2	14.95	10.7	0.66	388.14
3	1341	13.45	100	6.96	3624.9	14.95	10.6	0.65	407.40
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)
	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 6000 mL

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Comments FDTU = 15.95

Sampler's Signature: [Signature]

Newton

WELL/SAMPLE POINT MW46D

Purge Method: boiler\*

Date: 5/1/2023 Start Time: 1415 Finish/Sample Time: 1500

Well Depth (Bottom) From MP: 32.07 ft Min. Purge Volume: 9.65 Gal

Depth to Water From MP: 16.12 ft Total Purge Volume: 10 Gal

Total Drawdown: 13.86 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1430	27.75	-	7.16	3240	13.36	100	3.26	71000
2	1432	28.58	-	7.14	3240	13.22	98	3.20	71000
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<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)
	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) 1000mL

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Comments Final D/W - 29.98 ft \* boiler was used due to portable pump breaking down only 1 well volume purged due to significant drawdown (~11H)  
Readings taken off consecutive boilers  
 Sampler's Signature: [Signature]

Newton

WELL/SAMPLE POINT L1R

Purge Method: Bailer

Date: 4-27-23 Start Time: 12:25 Finish/Sample Time: 13:09

Well Depth (Bottom) From MP: 58.46 ft

Depth to Water From MP: 54.86 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	12:33	54.87	—	11.33	52000	17.93	-189	1.14	>1000
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	✓	
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)
1	General (P, 250 mL)
1	Ammonia (P, 250mL)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)

Comments FD-55.06

Sampler's Signature: [Signature]

WELL/SAMPLE POINT L301

Purge Method: De-facated Bladder

Date: 4/28/2023 Start Time: 1148 Finish/Sample Time: 1220

Depth to Water From MP: no access - ft

pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
<u>7.65</u>	<u>5087</u>	<u>15.19</u>	<u>85.2</u>	<u>10.25</u>	<u>4.85</u>

Field Meter: AquaRoll

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 type="checkbox"/>	<input checked="" type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
<u>3</u>	VOAs (C,V, 40mL, HCL)
<u>2</u>	VOAs (C,V, 40mL)
<u>4</u>	Organics (A,G,U 1000mL)
<u>1</u>	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)
<u>1</u>	Cyanide (P, 250mL, NaOH)
<u>1</u>	Phenols (A,G,250mL, H2SO4)
<u>1</u>	General (P, <del>250</del> mL) <u>1000mL</u>
<u>1</u>	<u>OBG (C,G, 1000mL HCL)</u>
<u>1</u>	<u>Ammonia (P, 250mL H2SO4)</u>

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

1 Decat (S,P, 120mL, specimen cup)

Comments \_\_\_\_\_

Sampler's Signature: [Signature]



## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>JD</b>	Location: <b>Vista Newton</b>
Weather: <b>43-62°F p. cloudy w/w 4-5-10 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>0.08</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: <u>Kyle Lane</u>				Location: <u>Newton Power</u>					
Weather: <u>46° to 65° cloudy</u>				Environment: <u>Dry</u>					
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>V-5000</u>	Serial Number: <u>VL9KJ9HR</u>					
Water Level Meter		Make: <u>Huron</u>	Model: <u>water for PC</u>	Serial Number: <u>19 FF211192HB</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N/A</u>	<u>N/A</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>6.97</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N/A</u>	<u>N/A</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N/A</u>	<u>N/A</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>25.00</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>N/A</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>19.99</u>	µS/cm	±5%	<u>P</u>	<u>N/A</u>	<u>N/A</u>	Geotech	2GE1442	May-23
ORP	<u>123.8</u>	mV	±15 mV	<u>P</u>	<u>N/A</u>	<u>N/A</u>	InSitu	2G1762	Jun-23
DO (Zero pt)	<u>0.08</u>	mg/L	±0.1	<u>P</u>	<u>N/A</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>9.48</u>	%	97-100%	<u>P</u>	<u>N/A</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.84</u>	NTU	<2 NTU	<u>P</u>	<u>N/A</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time: <u>10:21</u>				
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.	<u>P</u>	<u>NA</u>		Geotech	2GC243	Mar-24
pH 7.00b	<u>7.00</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>		Geotech	2GC931	Mar-24
pH 10.00b	<u>10.01</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>		Geotech	2GE820	May-24
SC 1000	<u>97.8</u>	µS/cm	±5%	<u>P</u>	<u>NA</u>		Ricca	4205H64	May-24
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time: <u>N/A</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>/</u>	s.u.	±0.1 s.u.	<u>/</u>	<u>/</u>	<u>/</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>/</u>	s.u.	±0.1 s.u.	<u>/</u>	<u>/</u>	<u>/</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>/</u>	s.u.	±0.1 s.u.	<u>/</u>	<u>/</u>	<u>/</u>	MSI	L354-22	1/5/2024
SC 1000	<u>/</u>	µS/cm	±5%	<u>/</u>	<u>/</u>	<u>/</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>/</u>	mg/L	±0.1 mg/L	<u>/</u>	<u>/</u>	<u>/</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>/</u>	NTU	<2 NTU	<u>/</u>	<u>/</u>	<u>/</u>	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time: <u>17:45</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<u>4.07</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>6.94</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L172-33	6/23/2023
10.00a	<u>9.97</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L354-22	1/5/2024
SC 1000	<u>10.6</u>	µS/cm	±5%	<u>P</u>	<u>NA</u>	<u>NA</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.00</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NA</u>	<u>NA</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>1.8</u>	NTU	<2 NTU	<u>P</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)
Comments:									
Signature: <u>[Signature]</u>				Date: <u>4-25-23</u>					

## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Joe Reed</b>		Location: <b>Newton Power Station</b>	
Weather: <b>40-65° Mostly sunny winds 15-10 mph</b>		Environment: <b>Grassy, gravel road</b>	
Multiparameter Water Meter	Make: <b>Horiba</b>	Model: <b>U-5000</b>	Serial Number: <b>U4U1FVTF</b>
Water Level Meter	Make: <b>Herin</b>	Model: <b>Dipper T</b>	Serial Number: <b>19FF2202B1ML</b>

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	L344-09	12/14/2023
pH 7.00a	<b>7.04</b>	s.u.	±0.1 s.u.	P	Y		MSI	L343-07	12/9/2023
pH 10.00a	<b>10.05</b>	s.u.	±0.1 s.u.	P	Y		MSI	M082-04	3/25/2024
SC Zero (DI)	<b>8</b>	µS/cm	0<25 µS/cm	P	Y		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>2050</b>	µS/cm	±5%	P	Y		Geotech	2GE1442	May-23
ORP	<b>274</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>97.8</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)

2.64C

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>4.07</b>	s.u.	±0.15 s.u.	P	NA		Geotech	2GC243	Mar-24
pH 7.00b	<b>6.97</b>	s.u.	±0.15 s.u.	P	NA		Geotech	2GC931	Mar-24
pH 10.00b	<b>9.95</b>	s.u.	±0.15 s.u.	P	NA		Geotech	2GE820	May-24
SC 1000	<b>1010</b>	µS/cm	±5%	P	NA		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>4.05</b>	s.u.	±0.1 s.u.	P	Y	/	MSI	L315-04	11/22/2023
pH 7.00a	<b>7.04</b>	s.u.	±0.1 s.u.	P	Y		MSI	L172-33	6/23/2023
pH 10.00a	<b>10.06</b>	s.u.	±0.1 s.u.	P	Y		MSI	L354-22	1/5/2024
SC 1000	<b>1010</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>0.5</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: <b>Joseph R Reed</b>	Date: <b>4/25/23</b>
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### Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aron Pemberton			Location:	Newton				
Weather:	45-63°C cloudy with SE 3 mph			Environment:	grass, dirt, woods				
Multiparameter Water Meter	Make:	A7	Model:	600	Serial Number:	762 193			
Water Level Meter	Make:	Heron	Model:	Dipper	Serial Number:	115F2209305ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.09	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.08	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L343-07	12/9/2023
pH 10.00a	10.06	s.u.	±0.1 s.u.	P	NO	N/A	MSI	MO82-04	3/25/2024
SC Zero (DI)	21.07	µS/cm	0<25 µS/cm	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2044.7	µS/cm	±5%	P	NO	N/A	Geotech	2GE1442	May-23
ORP	236.9	mV	±15 mV	P	NO	N/A	InSitu	2G1762	Jun-23
DO (Zero pt)	0.02	mg/L	±0.1	P	NO	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	83.74	%	97-100%	P	YES	+1000 100	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	2.72	NTU	<2 NTU	P	YES	0.00	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well App 4/25/23 242 @ 15C

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


Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1831				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a	4.08	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L315-04	11/22/2023	
pH 7.00a	7.08	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L172-33	6/23/2023	
pH 10.00a	10.07	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L354-22	1/5/2024	
SC 1000	192.4	µS/cm	±5%	P	NO	N/A	Ricca	2108D48	Jul-23	
DO (Zero pt)	0.09	mg/L	±0.1 mg/L	P	NO	N/A	Macron	#000228049	8/26/2025	
Turbidity (DI)	1.81	NTU	<2 NTU	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023	
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023	
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024	
SC 1000		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:	4/25/2023
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>JD</b>				Location: <i>Vista Newton</i>					
Weather: <i>42-62°F p. sunny wind NW 5mph</i>				Environment: <i>grassy</i>					
Multiparameter Water Meter		Make: <i>Aqua-trail</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>4.07</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>931.01</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 Davis</i>						Date: <i>4/26/23</i>			



### Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton			Location:	Newton				
Weather:	52°-63°L 5.1mmV wind NE 8mpH			Environment:	Grass, dirt				
Multiparameter Water Meter	Make:	A7	Model:	600	Serial Number:	762193			
Water Level Meter	Make:	Heron	Model:	D:PA-7	Serial Number:	1182209305ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.05	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.04	s.u.	±0.1 s.u.	P	I	I	MSI	L343-07	12/9/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.	P	I	I	MSI	M082-04	3/25/2024
SC Zero (DI)	3.93	µS/cm	0<25 µS/cm	I	I	I	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2025.1	µS/cm	±5%	I	I	I	Geotech	2GE1442	May-23
ORP	240.0	mV	±15 mV	I	I	I	InSitu	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	±0.1	I	I	I	Macron	#000228049	8/26/2025
DO (Saturated)	97.64	%	97-100%	I	I	I	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.15	NTU	<2 NTU	I	I	I	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	0952				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	4.06	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC243	Mar-24		
pH 7.00b	7.89	s.u.	±0.15 s.u.	I	I	Geotech	2GC931	Mar-24		
pH 10.00b	10.00	s.u.	±0.15 s.u.	I	I	Geotech	2GE820	May-24		
SC 1000	1088.15	µS/cm	±5%	I	I	Ricca	4205H64	May-24		

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	1720				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a	4.07	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L315-04	11/22/2023	
pH 7.00a	7.02	s.u.	±0.1 s.u.	P	I	I	MSI	L172-33	6/23/2023	
pH 10.00a	10.05	s.u.	±0.1 s.u.	P	I	I	MSI	L354-22	1/5/2024	
SC 1000	1099.72	µS/cm	±5%	P	I	I	Ricca	2108D48	Jul-23	
DO (Zero pt)	0.00	mg/L	±0.1 mg/L	P	I	I	Macron	#000228049	8/26/2025	
Turbidity (DI)	1.03	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:	4/26/2023				
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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>U-5000</b>	Serial Number: <b>419KJ9H2</b>					
Water Level Meter		Make: <b>Heron</b>	Model: <b>Water tape</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>3.00</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>2.70</b>	µS/cm	±5%	<b>F</b>	<b>4.5</b>	<b>2.60</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>7.01</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>10.42</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>7.01</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>2.010</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: <u>Joseph R Reed</u>	Date: <u>4/26/23</u>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: Anton Remberton Location: Newton

Weather: 6:00 cloudy wind NE 7 mph Environment: grass, dirt, woods

Multiparameter Water Meter Make: AT Model: 600 Serial Number: 762193

Water Level Meter Make: Hera Model: Differ-T Serial Number: 11FF2209305ML

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.04</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>I</u>	<u>I</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.06</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>3.52</u>	µS/cm	0<25 µS/cm	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2022.2</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	<u>I</u>	Geotech	2GE1442	May-23
ORP	<u>239</u>	mV	±15 mV	<u>I</u>	<u>I</u>	<u>I</u>	InSitu	2G1762	Jun-23
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1	<u>I</u>	<u>I</u>	<u>I</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>98.72</u>	%	97-100%	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.00</u>	NTU	<2 NTU	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well 242 @ 15°C

ICV (Initial Calibration Verification)					Time:					
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	<u>4.01</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Geotech	2GC243	Mar-24		
pH 7.00b	<u>6.89</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>I</u>	Geotech	2GC931	Mar-24		
pH 10.00b	<u>10.04</u>	s.u.	±0.15 s.u.	<u>I</u>	<u>I</u>	Geotech	2GE820	May-24		
SC 1000	<u>994.75</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	Ricca	4205H64	May-24		

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

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)	

Approx. every 4 hrs, unless only one well

Comments:

Signature: [Signature] Date: 4/27/2023

### Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed			Location:	Newton				
Weather:	50-69° part cloudy wind S-W			Environment:	Dusty grassy				
Multiparameter Water Meter	Make:	Horiba	Model:	U-50.00	Serial Number:	U4U1FVTF			
Water Level Meter	Make:	Heron	Model:	Dipper	Serial Number:	19FF211192HB			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	P	Y		MSI	L344-09	12/14/2023
pH 7.00a	6.99	s.u.	±0.1 s.u.	P	Y		MSI	L343-07	12/9/2023
pH 10.00a	10.00	s.u.	±0.1 s.u.	P	Y		MSI	M082-04	3/25/2024
SC Zero (DI)	0.5	µS/cm	0<25 µS/cm	P	Y		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2010	µS/cm	±5%	P	Y		Geotech	2GE1442	May-23
ORP	234	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)	98.1	%	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:			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.00	s.u.	±0.15 s.u.	P	Y	Geotech	2GC243	Mar-24	
pH 7.00b	7.01	s.u.	±0.15 s.u.	P	Y	Geotech	2GC931	Mar-24	
pH 10.00b	10.02	s.u.	±0.15 s.u.	P	Y	Geotech	2GE820	May-24	
SC 1000	1010	µS/cm	±5%	P	Y	Ricca	4205H64	May-24	

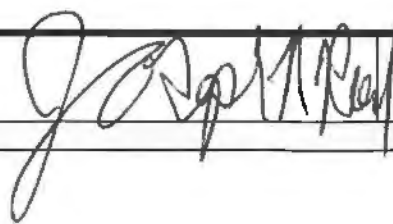
Approx. every 4 hrs, unless only one well

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

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:	4/27/25				
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>JD</b>				Location: <b>Vista Newton</b>					
Weather: <b>40-69°F wind NE Smp</b>				Environment: <b>grassy, rock road</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>Dipps-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>4.04</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>7.01</b>	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	<b>10.01</b>	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	<b>7.25</b>	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>1914.8</b>	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	<b>255.8</b>	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	<b>0.07</b>	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	<b>97.49</b>	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>0.00</b>	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

<b>ICV (Initial Calibration Verification)</b>				Time: <b>0849</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>6.92</b>	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24	
pH 10.00b	<b>9.94</b>	s.u.	±0.15 s.u.			Geotech	2GE820	May-24	
SC 1000	<b>962.41</b>	µS/cm	±5%			Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

<b>CCV (Continued Calibration Verification):</b>				Time: <b>1739</b>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.05</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>7.06</b>	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	<b>10.05</b>	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	<b>965.34</b>	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	<b>0.06</b>	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	<b>0.00</b>	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:					
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>James Dwyer</b>	Date: <b>4/27/23</b>
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### Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane			Location:	Newton Power				
Weather:	45° to 70° Sunny			Environment:	Dry				
Multiparameter Water Meter	Make:	Horiba	Model:	U-5000	Serial Number:	9L9KJPHa			
Water Level Meter	Make:	Heron	Model:	Water tape	Serial Number:	11FF2200305 Mil			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	P	N/A	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.	P	N/A	N/A	MSI	L343-07	12/9/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.	P	N/A	N/A	MSI	M082-04	3/25/2024
SC Zero (DI)	12.14	µS/cm	0 < 25 µS/cm	P	N/A	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1978	µS/cm	±5%	P	N/A	N/A	Geotech	2GE1442	May-23
ORP	246	mV	±15 mV	P	N/A	N/A	InSitu	2G1762	Jun-23
DO (Zero pt)	0.06	mg/L	±0.1	P	N/A	N/A	Macron	#000228049	8/26/2025
DO (Saturated) <sup>4.9</sup>	9.9	%	97-100%	P	N/A	N/A	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.30	NTU	< 2 NTU	P	N/A	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time:	08:47			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	4.01	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC243	Mar-24		
pH 7.00b	7.98	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC931	Mar-24		
pH 10.00b	9.91	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE820	May-24		
SC 1000	918	µS/cm	±5%	P	N/A	Ricca	4205H64	May-24		

Approx. every 4 hrs, unless only one well

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

Comments:

Signature:	[Signature]			Date:	4-27-23				
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### Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane			Location:	Newton Power				
Weather:	56° to 70° (SUN)			Environment:	Wet				
Multiparameter Water Meter	Make:	Horiba	Model:	V-500	Serial Number:	YL 9KJ9Ha			
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	4.35	s.u.	±0.1 s.u.	F	Y	4.00	MSI	L344-09	12/14/2023
pH 7.00a	6.91	s.u.	±0.1 s.u.	A	NA	NA	MSI	L343-07	12/9/2023
pH 10.00a	10.00	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	20.13	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1,970	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	25	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.00	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.00	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.60	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	08:45				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	3.98	s.u.	±0.15 s.u.	P	NA	Geotech	2GC243	Mar-24		
pH 7.00b	6.87	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24		
pH 10.00b	9.95	s.u.	±0.15 s.u.			Geotech	2GE820	May-24		
SC 1000	960	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:	12:04				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
4.00a	4.02	s.u.	±0.1 s.u.	P	NA	NA	MSI	L315-04	11/22/2023	
7.00a	6.98	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023	
10.00a	9.92	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024	
SC 1000	1,050	µS/cm	±5%				Ricca	2108D48	Jul-23	
DO (Zero pt)	0.00	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025	
Turbidity (DI)	1.30	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)	

Comments:

Signature:	<i>Kyle Lane</i>	Date:	4-28-23
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### Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton	Location:	Newton
Weather:	55°-61° Sunny wind N 9 mph	Environment:	grass, gravel, air

Multiparameter Water Meter	Make:	AT	Model:	600	Serial Number:	762193
Water Level Meter	Make:	Heron	Model:	Dipper T	Serial Number:	11FF2209305ML

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.07	s.u.	±0.1 s.u.	P	NO	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.06	s.u.	±0.1 s.u.	P			MSI	L343-07	12/9/2023
pH 10.00a	10.02	s.u.	±0.1 s.u.	P			MSI	M082-04	3/25/2024
SC Zero (DI)	26.21	µS/cm	0<25 µS/cm	I			Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2024.1	µS/cm	±5%	I			Geotech	2GE1442	May-23
ORP	237.1	mV	±15 mV	I			InSitu	2G1762	Jun-23
DO (Zero pt)	0.09	mg/L	±0.1	I			Macron	#000228049	8/26/2025
DO (Saturated)	101.84	%	97-100%	I			Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.03	NTU	<2 NTU	I			Pace Labs	N/A (DI)	N/A (DI)

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

ICV (Initial Calibration Verification)					Time:					
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	4.04	s.u.	±0.15 s.u.	P	NA	Geotech	2GC243	Mar-24		
pH 7.00b	6.02	s.u.	±0.15 s.u.	I		Geotech	2GC931	Mar-24		
pH 10.00b	10.05	s.u.	±0.15 s.u.	I		Geotech	2GE820	May-24		
SC 1000	1089.19	µS/cm	±5%	I		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:	4/28/2023
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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 10-mph</b>				Environment: <b>grassy</b>					
Multiparameter Water Meter		Make: <b>AquaTrull</b>	Model: <b>600</b>	Serial Number: <b>762215</b>					
Water Level Meter		Make: <b>Heron</b>	Model: <b>D:ppu-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> </b>	<b> </b>	<b> </b>	MSI	L343-07	12/9/2023
pH 10.00a	<b>10.02</b>	s.u.	±0.1 s.u.	<b> </b>	<b> </b>	<b> </b>	MSI	M082-04	3/25/2024
SC Zero (DI)	<b>19.34</b>	µS/cm	0<25 µS/cm	<b> </b>	<b> </b>	<b> </b>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>1982.7</b>	µS/cm	±5%	<b> </b>	<b> </b>	<b> </b>	Geotech	2GE1442	May-23
ORP	<b>250.9</b>	mV	±15 mV	<b> </b>	<b> </b>	<b> </b>	InSitu	2G1762	Jun-23
DO (Zero pt)	<b>0.06</b>	mg/L	±0.1	<b> </b>	<b> </b>	<b> </b>	Macron	#000228049	8/26/2025
DO (Saturated)	<b>99.48</b>	%	97-100%	<b> </b>	<b> </b>	<b> </b>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>0.00</b>	NTU	<2 NTU	<b> </b>	<b> </b>	<b> </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> </b>	<b> </b>	Geotech	2GC931	Mar-24	
pH 10.00b	<b>9.92</b>	s.u.	±0.15 s.u.	<b> </b>	<b> </b>	Geotech	2GE820	May-24	
SC 1000	<b>954.22</b>	µS/cm	±5%	<b> </b>	<b> </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> </b>	<b> </b>	<b> </b>	MSI	L172-33	6/23/2023
pH 10.00a	<b>10.03</b>	s.u.	±0.1 s.u.	<b> </b>	<b> </b>	<b> </b>	MSI	L354-22	1/5/2024
SC 1000	<b>769.19</b>	µS/cm	±5%	<b> </b>	<b> </b>	<b> </b>	Ricca	2108D48	Jul-23
DO (Zero pt)	<b>0.07</b>	mg/L	±0.1 mg/L	<b> </b>	<b> </b>	<b> </b>	Macron	#000228049	8/26/2025
Turbidity (DI)	<b>0.00</b>	NTU	<2 NTU	<b> </b>	<b> </b>	<b> </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:	Joe Reed			Location:	Newton Power				
Weather:	56-74 part cloudy wind 10mph			Environment:	grassy				
Multiparameter Water Meter	Make:	Horiba	Model:	U-5000	Serial Number:	D4U1EVT6			
Water Level Meter	Make:	Herrin	Model:	Dipport	Serial Number:	RFF 2202131ML			
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	340	mV	±15 mV	I	I		InSitu	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	±0.1	I	I		Macron	#000228049	8/26/2025
DO (Saturated)	99.7	%	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:	8:30			
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:	12:17			
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:	Joseph R Reed			Date:	4/28/23				
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>JD</b>		Location: <b>Vista Newton</b>	
Weather: <b>55°F p. sunny wind W 25 mph</b>		Environment: <b>corn field, grass</b>	
Multiparameter Water Meter	Make: <b>Amstrull</b>	Model: <b>600</b>	Serial Number: <b>762215</b>
Water Level Meter	Make: <b>Heron</b>	Model: <b>Dipnet</b>	Serial Number: <b>770 5/1 <del>19FF</del> 19FF2202131ML</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>6.99</b>	s.u.	±0.1 s.u.	<b>I</b>	<b>I</b>	<b>I</b>	MSI	L343-07	12/9/2023
pH 10.00a	<b>9.96</b>	s.u.	±0.1 s.u.	<b>I</b>	<b>I</b>	<b>I</b>	MSI	M082-04	3/25/2024
SC Zero (DI)	<b>17.03</b>	µS/cm	0<25 µS/cm	<b>I</b>	<b>I</b>	<b>I</b>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>2003.6</b>	µS/cm	±5%	<b>I</b>	<b>I</b>	<b>I</b>	Geotech	2GE1442	May-23
ORP	<b>238.1</b>	mV	±15 mV	<b>I</b>	<b>I</b>	<b>I</b>	InSitu	2G1762	Jun-23
DO (Zero pt)	<b>0.03</b>	mg/L	±0.1	<b>I</b>	<b>I</b>	<b>I</b>	Macron	#000228049	8/26/2025
DO (Saturated)	<b>98.55</b>	%	97-100%	<b>I</b>	<b>I</b>	<b>I</b>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>0.00</b>	NTU	<2 NTU	<b>I</b>	<b>I</b>	<b>I</b>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <b>1154</b>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<b>4.07</b>	s.u.	±0.15 s.u.	<b>pass</b>	<b>NA</b>	Geotech	2GE870	Mar-24	
pH 7.00b	<b>6.98</b>	s.u.	±0.15 s.u.	<b>I</b>	<b>I</b>	Geotech	2GC931	Mar-24	
pH 10.00b	<b>9.86</b>	s.u.	±0.15 s.u.	<b>I</b>	<b>I</b>	Geotech	2GE820	May-24	
SC 1000	<b>995.4</b>	µS/cm	±5%	<b>I</b>	<b>I</b>	Ricca	4207N97	Jul-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <b>1638</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>P</b>	<b>No</b>	<b>NA</b>	MSI	L344-09	12/14/2023
pH 7.00a	<b>7.02</b>	s.u.	±0.1 s.u.	<b>I</b>	<b>I</b>	<b>I</b>	MSI	L343-07	12/9/2023
pH 10.00a	<b>10.00</b>	s.u.	±0.1 s.u.	<b>I</b>	<b>I</b>	<b>I</b>	MSI	M082-04	3/25/2024
SC 1000	<b>989.7</b>	µS/cm	±5%	<b>I</b>	<b>I</b>	<b>I</b>	Ricca	4207N97	Jul-24
DO (Zero pt)	<b>0.05</b>	mg/L	±0.1 mg/L	<b>I</b>	<b>I</b>	<b>I</b>	Macron	#000228049	8/26/2025
Turbidity (DI)	<b>0.00</b>	NTU	<2 NTU	<b>I</b>	<b>I</b>	<b>I</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	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: 	Date: <b>5/1/23</b>
--	---------------------



### Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron and Kyle			Location:	Newton Power				
Weather:	60° daily windy			Environment:	Dry				
Multiparameter Water Meter	Make:	HORIBA	Model:	U-5000	Serial Number:	YL9KJ9Ha			
Water Level Meter	Make:	Huron	Model:	water tape	Serial Number:	11FF2209305ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.06	s.u.	±0.1 s.u.	P	na	na	MSI	L344-09	12/14/2023
pH 7.00a	6.92	s.u.	±0.1 s.u.	P	na	na	MSI	L343-07	12/9/2023
pH 10.00a	10.00	s.u.	±0.1 s.u.	P	na	na	MSI	M082-04	3/25/2024
SC Zero (DI)	19.00	µS/cm	0<25 µS/cm	P	na	na	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2.020	µS/cm	±5%	P	na	na	Geotech	2GE1442	May-23
ORP	245	mV	±15 mV	P	na	na	InSitu	2G1762	Jun-23
DO (Zero pt)	0.05	mg/L	±0.1	P	na	na	Macron	#000228049	8/26/2025
DO (Saturated)	98.10	%	97-100%	P	na	na	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	na	na	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:	11:48				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	3.99	s.u.	±0.15 s.u.	P	na	Geotech	2GE870	Mar-24		
pH 7.00b	6.95	s.u.	±0.15 s.u.	P	na	Geotech	2GC931	Mar-24		
pH 10.00b	9.89	s.u.	±0.15 s.u.	P	na	Geotech	2GE820	May-24		
SC 1000	10.10	µS/cm	±5%	P	na	Ricca	4207N97	Jul-24		


Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	NB				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023	
pH 7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023	
pH 10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024	
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24	
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025	
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	16:40				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
4.00a	7.07	s.u.	±0.1 s.u.	P	na	na	MSI	L344-09	12/14/2023	
7.00a	7.01	s.u.	±0.1 s.u.	P	na	na	MSI	L343-07	12/9/2023	
10.00a	10.09	s.u.	±0.1 s.u.	P	na	na	MSI	M082-04	3/25/2024	
SC 1000	10.00	µS/cm	±5%	P	na	na	Ricca	4207N97	Jul-24	
DO (Zero pt)	0.00	mg/L	±0.1 mg/L	P	na	na	Macron	#000228049	8/26/2025	
Turbidity (DI)	0.20	NTU	<2 NTU	P	na	na	Pace Labs	N/A (DI)	N/A (DI)	

Comments:

Signature:		Date:	5-1-2023
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November 15, 2023

Eric Bauer  
Ramboll  
234 W. Florida Street  
Fifth Floor  
Milwaukee, WI 53204  
TEL: (414) 837-3607  
FAX: (414) 837-3608



Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

**RE: NEW-23Q3**

**WorkOrder: 23070389**

Dear Eric Bauer:

TEKLAB, INC received 31 samples for NEW\_257\_502 on 8/17/2023 2:00:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Elizabeth A. Hurley  
Director of Customer Service  
(618)344-1004 ex 33  
[ehurley@teklabinc.com](mailto:ehurley@teklabinc.com)



## Report Contents

<http://www.teklabinc.com/>

**Client:** Ramboll

**Work Order:** 23070389

**Client Project:** NEW-23Q3

**Report Date:** 15-Nov-23

**This reporting package includes the following:**

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**Client:** Ramboll

**Work Order:** 23070389

**Client Project:** NEW-23Q3

**Report Date:** 15-Nov-23

## Abbr Definition

\* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)



## Definitions

<http://www.teklabinc.com/>

**Client:** Ramboll

**Work Order:** 23070389

**Client Project:** NEW-23Q3

**Report Date:** 15-Nov-23

### Qualifiers

- # - Unknown hydrocarbon
- C - RL shown is a Client Requested Quantitation Limit
- H - Holding times exceeded
- J - Analyte detected below quantitation limits
- ND - Not Detected at the Reporting Limit
- S - Spike Recovery outside recovery limits
- X - Value exceeds Maximum Contaminant Level
- B - Analyte detected in associated Method Blank
- E - Value above quantitation range
- I - Associated internal standard was outside method criteria
- M - Manual Integration used to determine area response
- R - RPD outside accepted recovery limits
- T - TIC(Tentatively identified compound)



**Case Narrative**

<http://www.teklabinc.com/>

**Client:** Ramboll  
**Client Project:** NEW-23Q3

**Work Order:** 23070389  
**Report Date:** 15-Nov-23

**Cooler Receipt Temp: 3.8 °C**

An employee of Teklab, Inc. collected the sample(s).

Lab conductivity will be reported for APW02, APW03, APW04, APW05S, APW07, APW08, APW09, APW10, APW13, APW14, APW17, G104, G106, G118, G139, G141, G201, G208, G217S, G221, G225, R217D, R219 and applicable field duplicates due to field meter malfunction(s). JC/EAH 8/2/23

A215, G06D, G105, G202, G230, and MW46D could not be collected; the wells were dry. G108 could not be collected; the well was abandoned. L301 could not be collected; the well was inoperable. EAH 8/2/23

Depth, only, wells will be reported with collection dates/times per the field file. G118 will be reported as collected at 0726 per the field file. EAH 8/4/23

Per Eric Bauer, include total Iron for G201, G223, and G224 and include total and dissolved Iron for G231, G232, and G233. (ehurley - 8/10/2023 7:54:42 AM)

G104D and G223 collection times will be reported per the field file(s) rather than the chain of custody forms. EAH 8/16/23

A214, G116, G231, G232, MW35D, and APW02 (and its field duplicate) required resampling due to field meter errors. The resamples will be included in the final report(s). MW35D was dry at resampling. EAH 8/18/23

Per Eric Bauer's request, only NEW\_257\_502 data is included in this report. EAH 11/9/23

This report was revised on November 15, 2023 per Eric Bauer's request. The reason for the revision is to correct the analyses which were omitted/included due to a sorting error in the SAR-2X Excel file. Revise for G224 (include total Fe), G231 and G232 (include dissolved Fe), G233 and G234 (include field, major ions and metals), and R217D (remove dissolved metals). Please replace report dated November 9, 2023 with this report. EAH 11/15/23

**Locations**

<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>
<b>Address</b> 5445 Horseshoe Lake Road Collinsville, IL 62234-7425	<b>Address</b> 3920 Pintail Dr Springfield, IL 62711-9415	<b>Address</b> 8421 Nieman Road Lenexa, KS 66214
<b>Phone</b> (618) 344-1004	<b>Phone</b> (217) 698-1004	<b>Phone</b> (913) 541-1998
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<b>Email</b> jhriley@teklabinc.com	<b>Email</b> KKlostermann@teklabinc.com	<b>Email</b> jhriley@teklabinc.com
<u>Collinsville Air</u>	<u>Chicago</u>	
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<b>Phone</b> (618) 344-1004	<b>Phone</b> (630) 324-6855	
<b>Fax</b> (618) 344-1005	<b>Fax</b>	
<b>Email</b> EHurley@teklabinc.com	<b>Email</b> arenner@teklabinc.com	



## Accreditations

<http://www.teklabinc.com/>

**Client:** Ramboll

**Work Order:** 23070389

**Client Project:** NEW-23Q3

**Report Date:** 15-Nov-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville





## Laboratory Results

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-025  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: G104D

Collection Date: 08/01/2023 11:28

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		50.12	ft	1	08/01/2023 11:28	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		21	NTU	1	08/01/2023 11:28	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		-45	mV	1	08/01/2023 11:28	R334750
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		1920	µS/cm	1	08/01/2023 11:28	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		15.5	°C	1	08/01/2023 11:28	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.70	mg/L	1	08/01/2023 11:28	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		7.20		1	08/01/2023 11:28	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )	NELAP	0	0		838	mg/L	1	08/03/2023 10:43	R334529
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO <sub>3</sub> )	NELAP	0	0		0	mg/L	1	08/03/2023 10:43	R334529
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		875	mg/L	2.5	08/03/2023 10:28	R334586
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	6	10	J	9	mg/L	1	08/08/2023 12:23	R334769
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		1.05	mg/L	1	08/02/2023 13:24	R334474
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	1	4		26	mg/L	1	08/08/2023 12:24	R334776
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100	S	26.1	mg/L	1	08/04/2023 10:56	210307
Magnesium	NELAP	0.0550	0.500		37.6	mg/L	1	08/10/2023 12:17	210625
Potassium	NELAP	0.0400	0.100	S	0.847	mg/L	1	08/07/2023 10:58	210307
Sodium	NELAP	0.0180	0.0500	S	45.6	mg/L	1	08/04/2023 10:56	210307
<i>Matrix spike did not recover within control limits due to matrix interference.</i>									
<i>Matrix spike control limits are not applicable due to high sample/spike ratio.</i>									
<b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b>									
Boron	NELAP	0.0925	0.250		1.97	mg/L	5	09/18/2023 18:02	210625



**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-035  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: G114

Collection Date: 08/01/2023 12:14

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		18.84	ft	1	08/01/2023 12:14	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		14	NTU	1	08/01/2023 12:14	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		-11	mV	1	08/01/2023 12:14	R334750
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		3680	µS/cm	1	08/01/2023 12:14	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		15.5	°C	1	08/01/2023 12:14	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.69	mg/L	1	08/01/2023 12:14	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		6.84		1	08/01/2023 12:14	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )	NELAP	0	0		441	mg/L	1	08/03/2023 10:51	R334529
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO <sub>3</sub> )	NELAP	0	0		0	mg/L	1	08/03/2023 10:51	R334529
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		2700	mg/L	2.5	08/03/2023 10:28	R334586
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	307	500		1630	mg/L	50	08/04/2023 15:12	R334639
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.23	mg/L	1	08/02/2023 13:25	R334474
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	1	4		29	mg/L	1	08/08/2023 12:37	R334776
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100		412	mg/L	1	08/04/2023 11:01	210307
Magnesium	NELAP	0.0055	0.0500		235	mg/L	1	08/04/2023 11:01	210307
Potassium	NELAP	0.0400	0.100		3.78	mg/L	1	08/04/2023 11:01	210307
Sodium	NELAP	0.0180	0.0500		122	mg/L	1	08/04/2023 11:01	210307
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		0.154	mg/L	5	09/15/2023 23:56	210307



**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-036  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: G114D

Collection Date: 08/01/2023 11:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		43.45	ft	1	08/01/2023 11:55	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		6.5	NTU	1	08/01/2023 11:55	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		7	mV	1	08/01/2023 11:55	R334750
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		2130	µS/cm	1	08/01/2023 11:55	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		14.8	°C	1	08/01/2023 11:55	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.56	mg/L	1	08/01/2023 11:55	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		7.61		1	08/01/2023 11:55	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		635	mg/L	1	08/03/2023 11:05	R334529
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		0	mg/L	1	08/03/2023 11:05	R334529
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		900	mg/L	2.5	08/03/2023 10:29	R334586
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	6	10	J	7	mg/L	1	08/10/2023 12:18	R334863
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		1.28	mg/L	1	08/02/2023 13:27	R334474
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	5	40		190	mg/L	10	08/04/2023 15:14	R334646
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100		89.5	mg/L	1	08/04/2023 11:03	210307
Magnesium	NELAP	0.0055	0.0500		40.2	mg/L	1	08/04/2023 11:03	210307
Potassium	NELAP	0.0400	0.100		2.30	mg/L	1	08/04/2023 11:03	210307
Sodium	NELAP	0.0180	0.0500		239	mg/L	1	08/04/2023 11:03	210307
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		0.220	mg/L	5	09/16/2023 0:02	210307



**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-040  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: G118

Collection Date: 07/27/2023 7:26

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		15.68	ft	1	07/27/2023 7:26	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		8.2	NTU	1	07/27/2023 7:26	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		32	mV	1	07/27/2023 7:26	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		16.3	°C	1	07/27/2023 7:26	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		7.32	mg/L	1	07/27/2023 7:26	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		7.01		1	07/27/2023 7:26	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		224	mg/L	1	07/31/2023 12:09	R334349
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		0	mg/L	1	07/31/2023 12:09	R334349
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		340	mg/L	2.5	08/01/2023 12:40	R334473
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	6	10		49	mg/L	1	08/08/2023 13:06	R334769
<b>SW-846 9050A</b>									
Conductivity	NELAP	10	10		498	µmhos/cm @25C	1	08/09/2023 10:23	R334775
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.42	mg/L	1	07/31/2023 13:55	R334347
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	1	4	J	2	mg/L	1	08/08/2023 13:06	R334776
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100		51.6	mg/L	1	08/03/2023 16:34	210149
Magnesium	NELAP	0.0055	0.0500		22.6	mg/L	1	08/03/2023 16:34	210149
Potassium	NELAP	0.0400	0.100		0.677	mg/L	1	08/03/2023 16:34	210149
Sodium	NELAP	0.0180	0.0500		28.9	mg/L	1	08/03/2023 16:34	210149
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		0.0788	mg/L	5	09/16/2023 0:24	210149



## Laboratory Results

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-044  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: G128

Collection Date: 07/26/2023 11:26

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		2.66	ft	1	07/26/2023 11:26	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		4.8	NTU	1	07/26/2023 11:26	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		23	mV	1	07/26/2023 11:26	R334750
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		23500	µS/cm	1	07/26/2023 11:26	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		19.6	°C	1	07/26/2023 11:26	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.59	mg/L	1	07/26/2023 11:26	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		6.52		1	07/26/2023 11:26	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )	NELAP	0	0		838	mg/L	1	07/28/2023 9:32	R333270
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO <sub>3</sub> )	NELAP	0	0		0	mg/L	1	07/28/2023 9:32	R333270
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	80	100	H	12300	mg/L	5	08/02/2023 12:49	R334530
<i>Sample required re-analysis out of hold time.</i>									
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	1230	2000		6160	mg/L	200	08/03/2023 18:28	R334559
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.34	mg/L	1	07/28/2023 9:39	R333259
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	100	800		2370	mg/L	200	08/03/2023 18:29	R334594
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.350	1.00		491	mg/L	10	08/03/2023 14:17	210094
Magnesium	NELAP	0.0550	0.500		545	mg/L	10	08/03/2023 14:17	210094
Potassium	NELAP	0.400	1.00		35.3	mg/L	10	08/03/2023 14:17	210094
Sodium	NELAP	0.180	0.500		3860	mg/L	10	08/03/2023 14:17	210094
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		0.955	mg/L	5	09/15/2023 20:52	210094





**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-045  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: G130

Collection Date: 08/01/2023 10:13

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		7.98	ft	1	08/01/2023 10:13	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		58	NTU	1	08/01/2023 10:13	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		34	mV	1	08/01/2023 10:13	R334750
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		12400	µS/cm	1	08/01/2023 10:13	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		17.9	°C	1	08/01/2023 10:13	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		2.23	mg/L	1	08/01/2023 10:13	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		6.39		1	08/01/2023 10:13	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )	NELAP	0	0		319	mg/L	1	08/03/2023 11:12	R334529
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO <sub>3</sub> )	NELAP	0	0		0	mg/L	1	08/03/2023 11:12	R334529
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		7740	mg/L	2.5	08/03/2023 11:09	R334586
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	614	1000		3410	mg/L	100	08/04/2023 15:38	R334639
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.23	mg/L	1	08/02/2023 13:29	R334474
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	25	200		1630	mg/L	50	08/04/2023 15:33	R334646
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100		601	mg/L	1	08/04/2023 11:05	210307
Magnesium	NELAP	0.0055	0.0500		494	mg/L	1	08/04/2023 11:05	210307
Potassium	NELAP	0.0400	0.100		2.23	mg/L	1	08/04/2023 11:05	210307
Sodium	NELAP	0.0180	0.0500		1620	mg/L	1	08/04/2023 11:05	210307
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		0.0625	mg/L	5	09/16/2023 0:07	210307





**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-046  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: G133

Collection Date: 08/01/2023 9:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		15.00	ft	1	08/01/2023 9:45	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		140	NTU	1	08/01/2023 9:45	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		90	mV	1	08/01/2023 9:45	R334750
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		7930	µS/cm	1	08/01/2023 9:45	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		16.1	°C	1	08/01/2023 9:45	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.66	mg/L	1	08/01/2023 9:45	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		6.62		1	08/01/2023 9:45	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		413	mg/L	1	08/03/2023 11:18	R334529
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		0	mg/L	1	08/03/2023 11:18	R334529
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		4390	mg/L	2.5	08/03/2023 11:10	R334586
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	307	500		1080	mg/L	50	08/04/2023 15:57	R334639
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.17	mg/L	1	08/02/2023 13:39	R334474
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	25	200		1440	mg/L	50	08/04/2023 15:57	R334646
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100		742	mg/L	1	08/04/2023 11:06	210307
Magnesium	NELAP	0.0055	0.0500		457	mg/L	1	08/04/2023 11:06	210307
Potassium	NELAP	0.0400	0.100		9.06	mg/L	1	08/04/2023 11:06	210307
Sodium	NELAP	0.0180	0.0500		428	mg/L	1	08/04/2023 11:06	210307
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		0.156	mg/L	5	09/16/2023 0:13	210307



**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-050  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: G201  
Collection Date: 07/27/2023 9:58

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		17.31	ft	1	07/27/2023 9:58	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		10	NTU	1	07/27/2023 9:58	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		45	mV	1	07/27/2023 9:58	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		16.8	°C	1	07/27/2023 9:58	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.41	mg/L	1	07/27/2023 9:58	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		7.39		1	07/27/2023 9:58	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		205	mg/L	1	07/31/2023 12:19	R334349
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		0	mg/L	1	07/31/2023 12:19	R334349
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		920	mg/L	2.5	08/01/2023 12:41	R334473
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	307	500	S	534	mg/L	50	08/04/2023 16:18	R334639
<i>Matrix spike did not recover within control limits due to matrix interference.</i>									
<b>SW-846 9050A</b>									
Conductivity	NELAP	10	10		1150	µmhos/cm @25C	1	08/09/2023 10:20	R334775
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.88	mg/L	1	07/31/2023 13:57	R334347
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	1	4		5	mg/L	1	08/08/2023 13:22	R334776
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100		161	mg/L	1	08/03/2023 16:35	210149
Magnesium	NELAP	0.0055	0.0500		20.2	mg/L	1	08/03/2023 16:35	210149
Potassium	NELAP	0.0400	0.100		2.00	mg/L	1	08/03/2023 16:35	210149
Sodium	NELAP	0.0180	0.0500		89.8	mg/L	1	08/03/2023 16:35	210149
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		0.131	mg/L	5	09/18/2023 8:26	210149
Iron	NELAP	0.0115	0.0250		0.326	mg/L	5	09/16/2023 1:34	210149



**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-052  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: G203

Collection Date: 08/01/2023 13:16

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		42.23	ft	1	08/01/2023 13:16	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		25	NTU	1	08/01/2023 13:16	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		31	mV	1	08/01/2023 13:16	R334750
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		2040	µS/cm	1	08/01/2023 13:16	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		14.2	°C	1	08/01/2023 13:16	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		1.15	mg/L	1	08/01/2023 13:16	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		7.31		1	08/01/2023 13:16	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		535	mg/L	1	08/03/2023 11:25	R334529
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		0	mg/L	1	08/03/2023 11:25	R334529
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		985	mg/L	2.5	08/03/2023 11:12	R334586
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	61	100		353	mg/L	10	08/04/2023 16:27	R334639
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.42	mg/L	1	08/02/2023 13:41	R334474
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	5	40		41	mg/L	10	08/04/2023 16:29	R334646
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100		171	mg/L	1	08/04/2023 11:22	210307
Magnesium	NELAP	0.0055	0.0500		67.9	mg/L	1	08/04/2023 11:22	210307
Potassium	NELAP	0.0400	0.100		3.91	mg/L	1	08/04/2023 11:22	210307
Sodium	NELAP	0.0180	0.0500		120	mg/L	1	08/04/2023 11:22	210307
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		0.0984	mg/L	5	09/16/2023 0:18	210307



**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-053  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: G208

Collection Date: 07/25/2023 14:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		28.55	ft	1	07/25/2023 14:53	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		11	NTU	1	07/25/2023 14:53	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		-49	mV	1	07/25/2023 14:53	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		17.0	°C	1	07/25/2023 14:53	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.60	mg/L	1	07/25/2023 14:53	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		7.20		1	07/25/2023 14:53	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )	NELAP	0	0		710	mg/L	1	07/27/2023 10:49	R333225
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO <sub>3</sub> )	NELAP	0	0		0	mg/L	1	07/27/2023 10:49	R333225
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		745	mg/L	2.5	07/27/2023 10:23	R333268
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	6	10		13	mg/L	1	08/03/2023 18:57	R334559
<b>SW-846 9050A</b>									
Conductivity	NELAP	10	10		1300	µmhos/cm @25C	1	08/09/2023 10:16	R334775
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		1.34	mg/L	1	07/27/2023 9:56	R333194
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	5	40		49	mg/L	10	08/02/2023 23:14	R334538
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100		94.9	mg/L	1	08/01/2023 18:14	210094
Magnesium	NELAP	0.0055	0.0500		39.9	mg/L	1	08/01/2023 18:14	210094
Potassium	NELAP	0.0400	0.100		2.44	mg/L	1	08/01/2023 18:14	210094
Sodium	NELAP	0.0180	0.0500		167	mg/L	1	08/01/2023 18:14	210094
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		0.191	mg/L	5	09/15/2023 20:57	210094



**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-056  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: G220

Collection Date: 07/26/2023 7:51

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		18.51	ft	1	07/26/2023 7:51	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		62	NTU	1	07/26/2023 7:51	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		-49	mV	1	07/26/2023 7:51	R334750
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		921	µS/cm	1	07/26/2023 7:51	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		14.9	°C	1	07/26/2023 7:51	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.27	mg/L	1	07/26/2023 7:51	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		6.73		1	07/26/2023 7:51	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )	NELAP	0	0		668	mg/L	1	07/28/2023 9:41	R333270
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO <sub>3</sub> )	NELAP	0	0		0	mg/L	1	07/28/2023 9:41	R333270
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		745	mg/L	2.5	08/01/2023 10:24	R334473
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	6	10		15	mg/L	1	08/04/2023 2:06	R334559
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		1.44	mg/L	1	07/28/2023 9:40	R333259
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	1	4		39	mg/L	1	08/02/2023 23:24	R334538
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100		92.7	mg/L	1	08/01/2023 18:15	210094
Magnesium	NELAP	0.0055	0.0500		39.1	mg/L	1	08/01/2023 18:15	210094
Potassium	NELAP	0.0400	0.100		2.51	mg/L	1	08/01/2023 18:15	210094
Sodium	NELAP	0.0180	0.0500		138	mg/L	1	08/01/2023 18:15	210094
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		0.231	mg/L	5	09/15/2023 21:03	210094





**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-058  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: G222

Collection Date: 07/26/2023 11:43

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		15.42	ft	1	07/26/2023 11:43	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		4.2	NTU	1	07/26/2023 11:43	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		-38	mV	1	07/26/2023 11:43	R334750
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		1300	µS/cm	1	07/26/2023 11:43	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		15.2	°C	1	07/26/2023 11:43	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.40	mg/L	1	07/26/2023 11:43	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		6.94		1	07/26/2023 11:43	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )	NELAP	0	0		829	mg/L	1	07/28/2023 9:50	R333270
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO <sub>3</sub> )	NELAP	0	0		0	mg/L	1	07/28/2023 9:50	R333270
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		1020	mg/L	2.5	08/01/2023 10:50	R334473
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	61	100		149	mg/L	10	08/03/2023 0:01	R334506
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		1.16	mg/L	1	07/28/2023 9:42	R333259
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	5	40		68	mg/L	10	08/03/2023 0:01	R334538
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100		121	mg/L	1	08/01/2023 18:16	210094
Magnesium	NELAP	0.0055	0.0500		55.7	mg/L	1	08/01/2023 18:16	210094
Potassium	NELAP	0.0400	0.100		2.98	mg/L	1	08/01/2023 18:16	210094
Sodium	NELAP	0.0180	0.0500		209	mg/L	1	08/01/2023 18:16	210094
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		0.209	mg/L	5	09/15/2023 21:08	210094





**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-059  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: G223

Collection Date: 07/26/2023 10:24

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		32.78	ft	1	07/26/2023 10:24	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		15	NTU	1	07/26/2023 10:24	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		-85	mV	1	07/26/2023 10:24	R334750
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		5050	µS/cm	1	07/26/2023 10:24	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		15.3	°C	1	07/26/2023 10:24	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.44	mg/L	1	07/26/2023 10:24	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		6.61		1	07/26/2023 10:24	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		870	mg/L	1	07/28/2023 10:00	R333270
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		0	mg/L	1	07/28/2023 10:00	R333270
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		2400	mg/L	2.5	08/01/2023 10:50	R334473
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	123	200		694	mg/L	20	08/03/2023 19:18	R334559
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.80	mg/L	1	07/28/2023 9:44	R333259
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	5	40		325	mg/L	10	08/03/2023 0:09	R334538
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100		301	mg/L	1	08/01/2023 18:17	210094
Iron	NELAP	0.0200	0.0400		2.86	mg/L	1	08/01/2023 18:17	210094
Magnesium	NELAP	0.0055	0.0500		141	mg/L	1	08/01/2023 18:17	210094
Potassium	NELAP	0.0400	0.100		4.20	mg/L	1	08/01/2023 18:17	210094
Sodium	NELAP	0.0180	0.0500		335	mg/L	1	08/01/2023 18:17	210094
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		0.215	mg/L	5	09/15/2023 21:13	210094



**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-060  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: G224

Collection Date: 07/26/2023 12:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		42.94	ft	1	07/26/2023 12:36	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		150	NTU	1	07/26/2023 12:36	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		-89	mV	1	07/26/2023 12:36	R334750
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		1750	µS/cm	1	07/26/2023 12:36	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		16.5	°C	1	07/26/2023 12:36	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.42	mg/L	1	07/26/2023 12:36	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		7.08		1	07/26/2023 12:36	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		486	mg/L	1	07/28/2023 10:10	R333270
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		0	mg/L	1	07/28/2023 10:10	R333270
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		705	mg/L	2.5	08/01/2023 10:50	R334473
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	61	100		164	mg/L	10	08/03/2023 0:17	R334506
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.43	mg/L	1	07/28/2023 9:45	R333259
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	1	4		48	mg/L	1	08/03/2023 0:12	R334538
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100		129	mg/L	1	08/01/2023 18:17	210094
Magnesium	NELAP	0.0055	0.0500		51.6	mg/L	1	08/01/2023 18:17	210094
Potassium	NELAP	0.0400	0.100		2.42	mg/L	1	08/01/2023 18:17	210094
Sodium	NELAP	0.0180	0.0500		76.0	mg/L	1	08/01/2023 18:17	210094
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		0.0874	mg/L	5	09/15/2023 21:19	210094
Iron	NELAP	0.115	0.250		24.3	mg/L	50	09/18/2023 9:53	210094



## Laboratory Results

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-065  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: G233

Collection Date: 07/25/2023 13:24

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		44.33	ft	1	07/25/2023 13:24	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		13	NTU	1	07/25/2023 13:24	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		-84	mV	1	07/25/2023 13:24	R334750
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		1640	µS/cm	1	07/25/2023 13:24	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		16.2	°C	1	07/25/2023 13:24	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		1.45	mg/L	1	07/25/2023 13:24	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		6.96		1	07/25/2023 13:24	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )	NELAP	0	0		418	mg/L	1	07/27/2023 9:27	R333225
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO <sub>3</sub> )	NELAP	0	0		0	mg/L	1	07/27/2023 9:27	R333225
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		850	mg/L	2.5	07/27/2023 10:23	R333268
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	61	100		283	mg/L	10	08/03/2023 1:05	R334506
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.56	mg/L	1	07/27/2023 9:27	R333194
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	1	4		40	mg/L	1	08/03/2023 1:00	R334538
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100		111	mg/L	1	08/01/2023 18:24	210094
Magnesium	NELAP	0.0055	0.0500		46.5	mg/L	1	08/01/2023 18:24	210094
Potassium	NELAP	0.0400	0.100		4.07	mg/L	1	08/01/2023 18:24	210094
Sodium	NELAP	0.0180	0.0500		133	mg/L	1	08/01/2023 18:24	210094
<b>SW-846 3005A, 6020A, METALS BY ICMS (DISSOLVED)</b>									
Iron	NELAP	0.0115	0.0250		1.68	mg/L	5	09/18/2023 12:47	210037
<i>CCV recovered outside the upper control limits for Cr. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i>									
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		0.0868	mg/L	5	09/15/2023 22:51	210094
Iron	NELAP	0.0115	0.0250		3.93	mg/L	5	09/15/2023 22:51	210094



**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-066  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: G234

Collection Date: 07/25/2023 8:47

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		<b>43.95</b>	ft	1	07/25/2023 8:48	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		<b>40</b>	NTU	1	07/25/2023 8:48	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		<b>57</b>	mV	1	07/25/2023 8:48	R334750
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		<b>965</b>	µS/cm	1	07/25/2023 8:48	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		<b>15.4</b>	°C	1	07/25/2023 8:48	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		<b>0.30</b>	mg/L	1	07/25/2023 8:48	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		<b>6.81</b>		1	07/25/2023 8:48	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		<b>479</b>	mg/L	1	07/27/2023 9:35	R333225
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		<b>0</b>	mg/L	1	07/27/2023 9:35	R333225
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		<b>730</b>	mg/L	2.5	07/27/2023 10:24	R333268
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	61	100		<b>145</b>	mg/L	10	08/03/2023 1:12	R334506
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		<b>0.49</b>	mg/L	1	07/27/2023 9:29	R333194
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	5	40		<b>57</b>	mg/L	10	08/03/2023 1:13	R334538
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100		<b>114</b>	mg/L	1	08/01/2023 18:25	210094
Magnesium	NELAP	0.0055	0.0500		<b>43.6</b>	mg/L	1	08/01/2023 18:25	210094
Potassium	NELAP	0.0400	0.100		<b>2.82</b>	mg/L	1	08/01/2023 18:25	210094
Sodium	NELAP	0.0180	0.0500		<b>114</b>	mg/L	1	08/01/2023 18:25	210094
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		<b>0.0895</b>	mg/L	5	09/15/2023 22:57	210094



**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-067  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: G48MG

Collection Date: 07/27/2023 10:03

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		18.97	ft	1	07/27/2023 10:03	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		20	NTU	1	07/27/2023 10:03	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		117	mV	1	07/27/2023 10:03	R334750
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		1200	µS/cm	1	07/27/2023 10:03	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		14.8	°C	1	07/27/2023 10:03	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.53	mg/L	1	07/27/2023 10:03	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		7.26		1	07/27/2023 10:03	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		414	mg/L	1	07/31/2023 12:23	R334349
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		0	mg/L	1	07/31/2023 12:23	R334349
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		525	mg/L	2.5	08/01/2023 12:41	R334473
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	6	10		< 10	mg/L	1	08/08/2023 14:06	R334769
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.57	mg/L	1	07/31/2023 13:59	R334347
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	1	4		29	mg/L	1	08/08/2023 14:08	R334776
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100		49.5	mg/L	1	08/03/2023 16:37	210149
Magnesium	NELAP	0.0055	0.0500		20.3	mg/L	1	08/03/2023 16:37	210149
Potassium	NELAP	0.0400	0.100		2.03	mg/L	1	08/03/2023 16:37	210149
Sodium	NELAP	0.0180	0.0500		109	mg/L	1	08/03/2023 16:37	210149
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		0.0994	mg/L	5	09/18/2023 8:32	210149





## Laboratory Results

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-068  
Matrix: LEACHATE

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: L1R

Collection Date: 07/27/2023 12:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		54.87	ft	1	07/27/2023 12:30	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		2400	NTU	1	07/27/2023 12:30	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		95	mV	1	07/27/2023 12:30	R334750
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		73000	µS/cm	1	07/27/2023 12:30	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		2.74	mg/L	1	07/27/2023 12:30	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		10.8		1	07/27/2023 12:30	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )	NELAP	0	0		2110	mg/L	1	08/01/2023 9:12	R334404
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO <sub>3</sub> )	NELAP	0	0		714	mg/L	1	08/01/2023 9:12	R334404
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	320	400		50200	mg/L	20	08/02/2023 12:49	R334530
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	3070	5000		23300	mg/L	500	08/10/2023 12:32	R334863
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.78	mg/L	1	07/31/2023 14:00	R334347
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	100	800		8450	mg/L	200	08/08/2023 14:26	R334776
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	1.75	5.00	S	1160	mg/L	50	08/07/2023 13:12	210149
Magnesium	NELAP	0.275	2.50		8.72	mg/L	50	08/07/2023 13:12	210149
Potassium	NELAP	20.0	50.0	S	1940	mg/L	500	08/08/2023 12:59	210149
Sodium	NELAP	1.80	5.00	S	14900	mg/L	100	08/07/2023 13:07	210149
<i>Matrix spike control limits are not applicable due to high sample/spike ratio.</i>									
<b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b>									
Boron	NELAP	0.0925	0.250	S	37.5	mg/L	50	09/18/2023 8:59	210149
<i>Matrix spike control limits are not applicable due to high sample/spike ratio.</i>									





## Laboratory Results

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-091  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: MW34D

Collection Date: 07/27/2023 10:28

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		12.50	ft	1	07/27/2023 10:28	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		5.9	NTU	1	07/27/2023 10:28	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		-32	mV	1	07/27/2023 10:28	R334750
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		1740	µS/cm	1	07/27/2023 10:28	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		15.5	°C	1	07/27/2023 10:28	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.69	mg/L	1	07/27/2023 10:28	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		7.09		1	07/27/2023 10:28	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )	NELAP	0	0		634	mg/L	1	07/31/2023 12:38	R334349
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO <sub>3</sub> )	NELAP	0	0		0	mg/L	1	07/31/2023 12:38	R334349
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		675	mg/L	2.5	08/01/2023 12:41	R334473
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	12	20	S	49	mg/L	2	08/08/2023 14:31	R334769
<i>Matrix spike did not recover within control limits due to matrix interference.</i>									
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		1.16	mg/L	1	07/31/2023 14:02	R334347
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	1	8		10	mg/L	2	08/08/2023 14:32	R334776
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100		112	mg/L	1	08/03/2023 16:51	210149
Magnesium	NELAP	0.0055	0.0500		45.9	mg/L	1	08/03/2023 16:51	210149
Potassium	NELAP	0.0400	0.100		2.14	mg/L	1	08/03/2023 16:51	210149
Sodium	NELAP	0.0180	0.0500		99.3	mg/L	1	08/03/2023 16:51	210149
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		0.220	mg/L	5	09/18/2023 8:37	210149



**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-095  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: MW43D  
Collection Date: 07/27/2023 10:58

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		11.33	ft	1	07/27/2023 10:58	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		96	NTU	1	07/27/2023 10:58	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		106	mV	1	07/27/2023 10:58	R334750
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		5200	µS/cm	1	07/27/2023 10:58	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		17.2	°C	1	07/27/2023 10:58	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.71	mg/L	1	07/27/2023 10:58	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		6.51		1	07/27/2023 10:58	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )	NELAP	0	0		582	mg/L	1	07/31/2023 12:52	R334349
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO <sub>3</sub> )	NELAP	0	0		0	mg/L	1	07/31/2023 12:52	R334349
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		3380	mg/L	2.5	08/01/2023 12:55	R334473
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	307	500		1910	mg/L	50	08/04/2023 17:59	R334639
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.19	mg/L	1	07/31/2023 14:05	R334347
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	5	40		49	mg/L	10	08/04/2023 17:54	R334646
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100		511	mg/L	1	08/03/2023 16:54	210149
Magnesium	NELAP	0.0055	0.0500		269	mg/L	1	08/03/2023 16:54	210149
Potassium	NELAP	0.0400	0.100		4.63	mg/L	1	08/03/2023 16:54	210149
Sodium	NELAP	0.0180	0.0500		167	mg/L	1	08/03/2023 16:54	210149
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		0.119	mg/L	5	09/18/2023 8:48	210149



**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-099  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: R217D  
Collection Date: 07/26/2023 12:49

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		19.31	ft	1	07/26/2023 12:49	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		440	NTU	1	07/26/2023 12:49	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		23	mV	1	07/26/2023 12:49	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		16.8	°C	1	07/26/2023 12:49	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.18	mg/L	1	07/26/2023 12:49	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		6.36		1	07/26/2023 12:49	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		550	mg/L	1	07/28/2023 10:18	R333270
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		0	mg/L	1	07/28/2023 10:18	R333270
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	80	100		3620	mg/L	5	08/01/2023 11:14	R334473
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	307	500		2030	mg/L	50	08/03/2023 19:27	R334559
<b>SW-846 9050A</b>									
Conductivity	NELAP	10	10		3840	µmhos/cm @25C	1	08/09/2023 10:40	R334775
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.26	mg/L	1	07/28/2023 9:47	R333259
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	5	40		119	mg/L	10	08/03/2023 1:21	R334538
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100		532	mg/L	1	08/01/2023 18:26	210094
Magnesium	NELAP	0.0055	0.0500		277	mg/L	1	08/01/2023 18:26	210094
Potassium	NELAP	0.0400	0.100		8.16	mg/L	1	08/01/2023 18:26	210094
Sodium	NELAP	0.0180	0.0500		183	mg/L	1	08/01/2023 18:26	210094
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		0.151	mg/L	5	09/15/2023 23:02	210094



**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-107  
Matrix: AQUEOUS

Work Order: 23070389  
Report Date: 15-Nov-23

Client Sample ID: Field Blank

Collection Date: 08/01/2023 15:09

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )	NELAP	0	0		1	mg/L	1	08/03/2023 11:33	R334529
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO <sub>3</sub> )	NELAP	0	0		0	mg/L	1	08/03/2023 11:33	R334529
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	16	20		< 20	mg/L	1	08/03/2023 11:11	R334586
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	6	10	J	6	mg/L	1	08/05/2023 2:19	R334639
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		< 0.10	mg/L	1	08/04/2023 11:09	R334593
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	1	4		< 4	mg/L	1	08/05/2023 2:18	R334646
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100		0.243	mg/L	1	08/04/2023 10:40	210307
Iron	NELAP	0.0200	0.0400		< 0.0400	mg/L	1	08/04/2023 10:40	210307
Magnesium	NELAP	0.0055	0.0500		0.0896	mg/L	1	08/04/2023 10:40	210307
Potassium	NELAP	0.0400	0.100		< 0.100	mg/L	1	08/04/2023 10:40	210307
Sodium	NELAP	0.0180	0.0500		0.134	mg/L	1	08/04/2023 10:40	210307
<b>SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)</b>									
Iron	NELAP	0.0115	0.0250		< 0.0250	mg/L	5	09/14/2023 2:08	210567
<i>PQL recovered outside upper control limits for B. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
<b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		< 0.0250	mg/L	5	09/18/2023 8:53	210307
Iron	NELAP	0.012	0.025	J	0.014	mg/L	5	09/16/2023 2:01	210307



**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-113  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23  
Client Sample ID: G231 (resample)  
Collection Date: 08/16/2023 11:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		49.98	ft	1	08/16/2023 11:31	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		110	NTU	1	08/16/2023 11:31	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		-133	mV	1	08/16/2023 11:31	R334750
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		1940	µS/cm	1	08/16/2023 11:31	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		15.6	°C	1	08/16/2023 11:31	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.47	mg/L	1	08/16/2023 11:31	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		7.37		1	08/16/2023 11:31	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		503	mg/L	1	08/18/2023 14:38	R335230
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		0	mg/L	1	08/18/2023 14:38	R335230
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		695	mg/L	2.5	08/21/2023 10:23	R335351
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	61	100		110	mg/L	10	08/17/2023 23:52	R335217
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.44	mg/L	1	08/21/2023 9:04	R335249
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	5	40		54	mg/L	10	08/17/2023 23:52	R335223
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100		115	mg/L	1	08/18/2023 17:47	211012
Magnesium	NELAP	0.0055	0.0500		49.7	mg/L	1	08/22/2023 12:11	211012
Potassium	NELAP	0.0400	0.100		2.70	mg/L	1	08/18/2023 17:47	211012
Sodium	NELAP	0.0180	0.0500		94.6	mg/L	1	08/18/2023 17:47	211012
<b>SW-846 3005A, 6020A, METALS BY ICMS (DISSOLVED)</b>									
Iron	NELAP	0.0115	0.0250		2.78	mg/L	5	09/16/2023 1:29	211013
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		0.0906	mg/L	5	09/17/2023 0:35	211012
Iron	NELAP	0.0175	0.0250		7.64	mg/L	5	09/17/2023 0:35	211012





**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q3  
Lab ID: 23070389-114  
Matrix: GROUNDWATER

Work Order: 23070389  
Report Date: 15-Nov-23  
Client Sample ID: G232 (resample)  
Collection Date: 08/16/2023 12:12

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		46.32	ft	1	08/16/2023 12:12	R334750
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		93	NTU	1	08/16/2023 12:12	R334750
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		-134	mV	1	08/16/2023 12:12	R334750
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		1930	µS/cm	1	08/16/2023 12:12	R334750
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		15.1	°C	1	08/16/2023 12:12	R334750
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.48	mg/L	1	08/16/2023 12:12	R334750
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		7.41		1	08/16/2023 12:12	R334750
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )	NELAP	0	0		483	mg/L	1	08/18/2023 14:46	R335230
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO <sub>3</sub> )	NELAP	0	0		0	mg/L	1	08/18/2023 14:46	R335230
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		670	mg/L	2.5	08/21/2023 10:23	R335351
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	61	100		126	mg/L	10	08/18/2023 0:00	R335217
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.44	mg/L	1	08/21/2023 9:06	R335249
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	5	40		48	mg/L	10	08/18/2023 0:00	R335223
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.0350	0.100	S	122	mg/L	1	08/18/2023 17:35	211012
Magnesium	NELAP	0.0055	0.0500		44.6	mg/L	1	08/18/2023 17:35	211012
Potassium	NELAP	0.0400	0.100		3.16	mg/L	1	08/18/2023 17:35	211012
Sodium	NELAP	0.0180	0.0500		88.0	mg/L	1	08/18/2023 17:35	211012
<i>Matrix spike control limits are not applicable due to high sample/spike ratio.</i>									
<b>SW-846 3005A, 6020A, METALS BY IC PMS (DISSOLVED)</b>									
Iron	NELAP	0.0115	0.0250		2.02	mg/L	5	09/16/2023 2:29	211013
<b>SW-846 3005A, 6020A, METALS BY IC PMS (TOTAL)</b>									
Boron	NELAP	0.0092	0.0250		0.0934	mg/L	5	09/17/2023 0:40	211012
Iron	NELAP	0.0175	0.0250		7.33	mg/L	5	09/17/2023 0:40	211012





## Sample Summary

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
23070389-023	G06D	Groundwater	2	08/01/2023 0:00
23070389-025	G104D	Groundwater	2	08/01/2023 11:28
23070389-029	G108	Groundwater	2	08/01/2023 0:00
23070389-035	G114	Groundwater	2	08/01/2023 12:14
23070389-036	G114D	Groundwater	2	08/01/2023 11:55
23070389-040	G118	Groundwater	2	07/27/2023 7:26
23070389-044	G128	Groundwater	6	07/26/2023 11:26
23070389-045	G130	Groundwater	6	08/01/2023 10:13
23070389-046	G133	Groundwater	6	08/01/2023 9:45
23070389-050	G201	Groundwater	2	07/27/2023 9:58
23070389-051	G202	Groundwater	2	08/01/2023 0:00
23070389-052	G203	Groundwater	2	08/01/2023 13:16
23070389-053	G208	Groundwater	2	07/25/2023 14:53
23070389-056	G220	Groundwater	2	07/26/2023 7:51
23070389-058	G222	Groundwater	2	07/26/2023 11:43
23070389-059	G223	Groundwater	2	07/26/2023 10:24
23070389-060	G224	Groundwater	2	07/26/2023 12:36
23070389-062	G230	Groundwater	6	07/25/2023 0:00
23070389-065	G233	Groundwater	6	07/25/2023 13:24
23070389-066	G234	Groundwater	6	07/25/2023 8:47
23070389-067	G48MG	Groundwater	2	07/27/2023 10:03
23070389-068	L1R	Leachate	2	07/27/2023 12:30
23070389-074	L301	Leachate	2	08/01/2023 0:00
23070389-091	MW34D	Groundwater	2	07/27/2023 10:28
23070389-095	MW43D	Groundwater	2	07/27/2023 10:58
23070389-096	MW46D	Groundwater	2	07/27/2023 0:00
23070389-099	R217D	Groundwater	6	07/26/2023 12:49
23070389-107	Field Blank	Aqueous	8	08/01/2023 15:09
23070389-113	G231 (resample)	Groundwater	6	08/16/2023 11:30
23070389-114	G232 (resample)	Groundwater	6	08/16/2023 12:12
23070389-115	MW35D (resample)	Groundwater	2	08/16/2023 0:00



## Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

Sample ID	Client Sample ID Test Name	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
23070389-025A	G104D	08/01/2023 11:28	08/02/2023 10:00		
	Field Elevation Measurements				08/01/2023 11:28
	Standard Methods 2130 B Field				08/01/2023 11:28
	Standard Methods 18th Ed. 2580 B Field				08/01/2023 11:28
	Standard Methods 2320 B (Total) 1997, 2011				08/03/2023 10:43
	Standard Methods 2320 B 1997, 2011				08/03/2023 10:43
	Standard Methods 2510 B Field				08/01/2023 11:28
	Standard Methods 2540 C (Total) 1997, 2011				08/03/2023 10:28
	Standard Methods 2550 B Field				08/01/2023 11:28
	Standard Methods 4500-O G Field				08/01/2023 11:28
	SW-846 9036 (Total)				08/08/2023 12:23
	SW-846 9040B Field				08/01/2023 11:28
	SW-846 9214 (Total)				08/02/2023 13:24
	SW-846 9251 (Total)				08/08/2023 12:24
23070389-025B	G104D	08/01/2023 11:28	08/02/2023 10:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/02/2023 12:31	08/04/2023 10:56
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/02/2023 12:31	08/07/2023 10:58
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/09/2023 10:50	08/10/2023 12:17
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/09/2023 10:50	09/18/2023 18:02
23070389-035A	G114	08/01/2023 12:14	08/02/2023 10:00		
	Field Elevation Measurements				08/01/2023 12:14
	Standard Methods 2130 B Field				08/01/2023 12:14
	Standard Methods 18th Ed. 2580 B Field				08/01/2023 12:14
	Standard Methods 2320 B (Total) 1997, 2011				08/03/2023 10:51
	Standard Methods 2320 B 1997, 2011				08/03/2023 10:51
	Standard Methods 2510 B Field				08/01/2023 12:14
	Standard Methods 2540 C (Total) 1997, 2011				08/03/2023 10:28
	Standard Methods 2550 B Field				08/01/2023 12:14
	Standard Methods 4500-O G Field				08/01/2023 12:14
	SW-846 9036 (Total)				08/04/2023 15:12
	SW-846 9040B Field				08/01/2023 12:14
	SW-846 9214 (Total)				08/02/2023 13:25
	SW-846 9251 (Total)				08/08/2023 12:37
23070389-035B	G114	08/01/2023 12:14	08/02/2023 10:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/02/2023 12:31	08/04/2023 11:01
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/02/2023 12:31	09/15/2023 23:56
23070389-036A	G114D	08/01/2023 11:55	08/02/2023 10:00		



## Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

Sample ID	Client Sample ID Test Name	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	Field Elevation Measurements				08/01/2023 11:55
	Standard Methods 2130 B Field				08/01/2023 11:55
	Standard Methods 18th Ed. 2580 B Field				08/01/2023 11:55
	Standard Methods 2320 B (Total) 1997, 2011				08/03/2023 11:05
	Standard Methods 2320 B 1997, 2011				08/03/2023 11:05
	Standard Methods 2510 B Field				08/01/2023 11:55
	Standard Methods 2540 C (Total) 1997, 2011				08/03/2023 10:29
	Standard Methods 2550 B Field				08/01/2023 11:55
	Standard Methods 4500-O G Field				08/01/2023 11:55
	SW-846 9036 (Total)				08/10/2023 12:18
	SW-846 9040B Field				08/01/2023 11:55
	SW-846 9214 (Total)				08/02/2023 13:27
	SW-846 9251 (Total)				08/04/2023 15:14
23070389-036B	G114D	08/01/2023 11:55	08/02/2023 10:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/02/2023 12:31	08/04/2023 11:03
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/02/2023 12:31	09/16/2023 0:02
23070389-040A	G118	07/27/2023 7:26	07/27/2023 16:35		
	Field Elevation Measurements				07/27/2023 7:26
	Standard Methods 2130 B Field				07/27/2023 7:26
	Standard Methods 18th Ed. 2580 B Field				07/27/2023 7:26
	Standard Methods 2320 B (Total) 1997, 2011				07/31/2023 12:09
	Standard Methods 2320 B 1997, 2011				07/31/2023 12:09
	Standard Methods 2540 C (Total) 1997, 2011				08/01/2023 12:40
	Standard Methods 2550 B Field				07/27/2023 7:26
	Standard Methods 4500-O G Field				07/27/2023 7:26
	SW-846 9036 (Total)				08/08/2023 13:06
	SW-846 9040B Field				07/27/2023 7:26
	SW-846 9050A				08/09/2023 10:23
	SW-846 9214 (Total)				07/31/2023 13:55
	SW-846 9251 (Total)				08/08/2023 13:06
23070389-040B	G118	07/27/2023 7:26	07/27/2023 16:35		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/28/2023 14:38	08/03/2023 16:34
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/28/2023 14:38	09/16/2023 0:24
23070389-044A	G128	07/26/2023 11:26	07/26/2023 18:05		
	Field Elevation Measurements				07/26/2023 11:26
	Standard Methods 2130 B Field				07/26/2023 11:26
	Standard Methods 18th Ed. 2580 B Field				07/26/2023 11:26



## Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

Sample ID	Client Sample ID Test Name	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	Standard Methods 2320 B (Total) 1997, 2011				07/28/2023 9:32
	Standard Methods 2320 B 1997, 2011				07/28/2023 9:32
	Standard Methods 2510 B Field				07/26/2023 11:26
	Standard Methods 2540 C (Total) 1997, 2011				08/02/2023 12:49
	Standard Methods 2550 B Field				07/26/2023 11:26
	Standard Methods 4500-O G Field				07/26/2023 11:26
	SW-846 9036 (Total)				08/03/2023 18:28
	SW-846 9040B Field				07/26/2023 11:26
	SW-846 9214 (Total)				07/28/2023 9:39
	SW-846 9251 (Total)				08/03/2023 18:29
23070389-044B	G128	07/26/2023 11:26	07/26/2023 18:05		
	Standard Methods 2550 B Field				07/26/2023 11:26
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				07/27/2023 16:49
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/27/2023 15:53
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/27/2023 15:53
	SW-846 9036 (Dissolved)				08/03/2023 16:18
	SW-846 9214 (Dissolved)				07/28/2023 10:03
	SW-846 9251 (Dissolved)				08/02/2023 16:47
23070389-044C	G128	07/26/2023 11:26	07/26/2023 18:05		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/03/2023 14:17
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	09/15/2023 20:52
23070389-044D	G128	07/26/2023 11:26	07/26/2023 18:05		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/28/2023 11:50	08/01/2023 17:24
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/28/2023 11:50	08/03/2023 12:56
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/28/2023 11:50	08/03/2023 12:56
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/28/2023 11:50	08/03/2023 14:16
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/28/2023 11:50	08/03/2023 3:31
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/28/2023 11:50	09/16/2023 20:14
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/28/2023 11:50	09/18/2023 12:20
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/28/2023 11:50	09/18/2023 14:14
	SW-846 7470A (Dissolved)			08/02/2023 12:13	08/03/2023 11:55
23070389-044E	G128	07/26/2023 11:26	07/26/2023 18:05		
	SW-846 9012A (Total)			07/27/2023 16:54	07/28/2023 10:09
23070389-044F	G128	07/26/2023 11:26	07/26/2023 18:05		
	EPA 600 350.1 (Dissolved)				07/28/2023 18:14
23070389-045A	G130	08/01/2023 10:13	08/02/2023 10:00		
	Field Elevation Measurements				08/01/2023 10:13



## Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

Sample ID	Client Sample ID Test Name	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	Standard Methods 2130 B Field				08/01/2023 10:13
	Standard Methods 18th Ed. 2580 B Field				08/01/2023 10:13
	Standard Methods 2320 B (Total) 1997, 2011				08/03/2023 11:12
	Standard Methods 2320 B 1997, 2011				08/03/2023 11:12
	Standard Methods 2510 B Field				08/01/2023 10:13
	Standard Methods 2540 C (Total) 1997, 2011				08/03/2023 11:09
	Standard Methods 2550 B Field				08/01/2023 10:13
	Standard Methods 4500-O G Field				08/01/2023 10:13
	SW-846 9036 (Total)				08/04/2023 15:38
	SW-846 9040B Field				08/01/2023 10:13
	SW-846 9214 (Total)				08/02/2023 13:29
	SW-846 9251 (Total)				08/04/2023 15:33
23070389-045B	G130	08/01/2023 10:13	08/02/2023 10:00		
	Standard Methods 2550 B Field				08/01/2023 10:13
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/02/2023 14:57
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/02/2023 15:19
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/02/2023 15:19
	SW-846 9036 (Dissolved)				08/05/2023 1:18
	SW-846 9214 (Dissolved)				08/04/2023 11:14
	SW-846 9251 (Dissolved)				08/05/2023 1:14
23070389-045C	G130	08/01/2023 10:13	08/02/2023 10:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/02/2023 12:31	08/04/2023 11:05
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/02/2023 12:31	09/16/2023 0:07
23070389-045D	G130	08/01/2023 10:13	08/02/2023 10:00		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/08/2023 14:17	08/09/2023 17:39
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/08/2023 14:17	08/11/2023 10:19
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/08/2023 14:17	08/11/2023 11:24
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/08/2023 14:17	09/14/2023 1:52
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/08/2023 14:17	09/15/2023 15:59
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/08/2023 14:17	09/15/2023 18:42
	SW-846 7470A (Dissolved)			08/02/2023 12:13	08/03/2023 11:57
23070389-045E	G130	08/01/2023 10:13	08/02/2023 10:00		
	SW-846 9012A (Total)			08/04/2023 13:46	08/07/2023 13:10
23070389-045F	G130	08/01/2023 10:13	08/02/2023 10:00		
	EPA 600 350.1 (Dissolved)				08/02/2023 16:53
23070389-046A	G133	08/01/2023 9:45	08/02/2023 10:00		
	Field Elevation Measurements				08/01/2023 9:45



## Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

Sample ID	Client Sample ID Test Name	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	Standard Methods 2130 B Field				08/01/2023 9:45
	Standard Methods 18th Ed. 2580 B Field				08/01/2023 9:45
	Standard Methods 2320 B (Total) 1997, 2011				08/03/2023 11:18
	Standard Methods 2320 B 1997, 2011				08/03/2023 11:18
	Standard Methods 2510 B Field				08/01/2023 9:45
	Standard Methods 2540 C (Total) 1997, 2011				08/03/2023 11:10
	Standard Methods 2550 B Field				08/01/2023 9:45
	Standard Methods 4500-O G Field				08/01/2023 9:45
	SW-846 9036 (Total)				08/04/2023 15:57
	SW-846 9040B Field				08/01/2023 9:45
	SW-846 9214 (Total)				08/02/2023 13:39
	SW-846 9251 (Total)				08/04/2023 15:57
23070389-046B	G133	08/01/2023 9:45	08/02/2023 10:00		
	Standard Methods 2550 B Field				08/01/2023 9:45
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/02/2023 14:58
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/02/2023 15:21
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/02/2023 15:21
	SW-846 9036 (Dissolved)				08/11/2023 13:51
	SW-846 9214 (Dissolved)				08/04/2023 11:06
	SW-846 9251 (Dissolved)				08/11/2023 13:53
23070389-046C	G133	08/01/2023 9:45	08/02/2023 10:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/02/2023 12:31	08/04/2023 11:06
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/02/2023 12:31	09/16/2023 0:13
23070389-046D	G133	08/01/2023 9:45	08/02/2023 10:00		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/08/2023 14:17	08/09/2023 17:41
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/08/2023 14:17	08/11/2023 11:30
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/08/2023 14:17	09/14/2023 1:58
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/08/2023 14:17	09/15/2023 16:04
	SW-846 7470A (Dissolved)			08/02/2023 12:13	08/03/2023 11:59
23070389-046E	G133	08/01/2023 9:45	08/02/2023 10:00		
	SW-846 9012A (Total)			08/04/2023 13:46	08/07/2023 13:14
23070389-046F	G133	08/01/2023 9:45	08/02/2023 10:00		
	EPA 600 350.1 (Dissolved)				08/02/2023 16:55
23070389-050A	G201	07/27/2023 9:58	07/27/2023 16:35		
	Field Elevation Measurements				07/27/2023 9:58
	Standard Methods 2130 B Field				07/27/2023 9:58
	Standard Methods 18th Ed. 2580 B Field				07/27/2023 9:58





## Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

Sample ID	Client Sample ID Test Name	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	Standard Methods 2320 B (Total) 1997, 2011				07/31/2023 12:19
	Standard Methods 2320 B 1997, 2011				07/31/2023 12:19
	Standard Methods 2540 C (Total) 1997, 2011				08/01/2023 12:41
	Standard Methods 2550 B Field				07/27/2023 9:58
	Standard Methods 4500-O G Field				07/27/2023 9:58
	SW-846 9036 (Total)				08/04/2023 16:18
	SW-846 9040B Field				07/27/2023 9:58
	SW-846 9050A				08/09/2023 10:20
	SW-846 9214 (Total)				07/31/2023 13:57
	SW-846 9251 (Total)				08/08/2023 13:22
23070389-050B	G201	07/27/2023 9:58	07/27/2023 16:35		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/28/2023 14:38	08/03/2023 16:35
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/28/2023 14:38	09/16/2023 1:34
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/28/2023 14:38	09/18/2023 8:26
23070389-052A	G203	08/01/2023 13:16	08/02/2023 10:00		
	Field Elevation Measurements				08/01/2023 13:16
	Standard Methods 2130 B Field				08/01/2023 13:16
	Standard Methods 18th Ed. 2580 B Field				08/01/2023 13:16
	Standard Methods 2320 B (Total) 1997, 2011				08/03/2023 11:25
	Standard Methods 2320 B 1997, 2011				08/03/2023 11:25
	Standard Methods 2510 B Field				08/01/2023 13:16
	Standard Methods 2540 C (Total) 1997, 2011				08/03/2023 11:12
	Standard Methods 2550 B Field				08/01/2023 13:16
	Standard Methods 4500-O G Field				08/01/2023 13:16
	SW-846 9036 (Total)				08/04/2023 16:27
	SW-846 9040B Field				08/01/2023 13:16
	SW-846 9214 (Total)				08/02/2023 13:41
	SW-846 9251 (Total)				08/04/2023 16:29
23070389-052B	G203	08/01/2023 13:16	08/02/2023 10:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/02/2023 12:31	08/04/2023 11:22
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/02/2023 12:31	09/16/2023 0:18
23070389-053A	G208	07/25/2023 14:53	07/26/2023 8:15		
	Field Elevation Measurements				07/25/2023 14:53
	Standard Methods 2130 B Field				07/25/2023 14:53
	Standard Methods 18th Ed. 2580 B Field				07/25/2023 14:53
	Standard Methods 2320 B (Total) 1997, 2011				07/27/2023 10:49
	Standard Methods 2320 B 1997, 2011				07/27/2023 10:49



## Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

Sample ID	Client Sample ID Test Name	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	Standard Methods 2540 C (Total) 1997, 2011				07/27/2023 10:23
	Standard Methods 2550 B Field				07/25/2023 14:53
	Standard Methods 4500-O G Field				07/25/2023 14:53
	SW-846 9036 (Total)				08/03/2023 18:57
	SW-846 9040B Field				07/25/2023 14:53
	SW-846 9050A				08/09/2023 10:16
	SW-846 9214 (Total)				07/27/2023 9:56
	SW-846 9251 (Total)				08/02/2023 23:14
23070389-053B	G208	07/25/2023 14:53	07/26/2023 8:15		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/01/2023 18:14
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	09/15/2023 20:57
23070389-056A	G220	07/26/2023 7:51	07/26/2023 18:05		
	Field Elevation Measurements				07/26/2023 7:51
	Standard Methods 2130 B Field				07/26/2023 7:51
	Standard Methods 18th Ed. 2580 B Field				07/26/2023 7:51
	Standard Methods 2320 B (Total) 1997, 2011				07/28/2023 9:41
	Standard Methods 2320 B 1997, 2011				07/28/2023 9:41
	Standard Methods 2510 B Field				07/26/2023 7:51
	Standard Methods 2540 C (Total) 1997, 2011				08/01/2023 10:24
	Standard Methods 2550 B Field				07/26/2023 7:51
	Standard Methods 4500-O G Field				07/26/2023 7:51
	SW-846 9036 (Total)				08/04/2023 2:06
	SW-846 9040B Field				07/26/2023 7:51
	SW-846 9214 (Total)				07/28/2023 9:40
	SW-846 9251 (Total)				08/02/2023 23:24
23070389-056B	G220	07/26/2023 7:51	07/26/2023 18:05		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/01/2023 18:15
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	09/15/2023 21:03
23070389-058A	G222	07/26/2023 11:43	07/26/2023 18:05		
	Field Elevation Measurements				07/26/2023 11:43
	Standard Methods 2130 B Field				07/26/2023 11:43
	Standard Methods 18th Ed. 2580 B Field				07/26/2023 11:43
	Standard Methods 2320 B (Total) 1997, 2011				07/28/2023 9:50
	Standard Methods 2320 B 1997, 2011				07/28/2023 9:50
	Standard Methods 2510 B Field				07/26/2023 11:43
	Standard Methods 2540 C (Total) 1997, 2011				08/01/2023 10:50
	Standard Methods 2550 B Field				07/26/2023 11:43



## Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

Sample ID	Client Sample ID Test Name	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	Standard Methods 4500-O G Field				07/26/2023 11:43
	SW-846 9036 (Total)				08/03/2023 0:01
	SW-846 9040B Field				07/26/2023 11:43
	SW-846 9214 (Total)				07/28/2023 9:42
	SW-846 9251 (Total)				08/03/2023 0:01
23070389-058B	G222	07/26/2023 11:43	07/26/2023 18:05		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/01/2023 18:16
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	09/15/2023 21:08
23070389-059A	G223	07/26/2023 10:24	07/26/2023 18:05		
	Field Elevation Measurements				07/26/2023 10:24
	Standard Methods 2130 B Field				07/26/2023 10:24
	Standard Methods 18th Ed. 2580 B Field				07/26/2023 10:24
	Standard Methods 2320 B (Total) 1997, 2011				07/28/2023 10:00
	Standard Methods 2320 B 1997, 2011				07/28/2023 10:00
	Standard Methods 2510 B Field				07/26/2023 10:24
	Standard Methods 2540 C (Total) 1997, 2011				08/01/2023 10:50
	Standard Methods 2550 B Field				07/26/2023 10:24
	Standard Methods 4500-O G Field				07/26/2023 10:24
	SW-846 9036 (Total)				08/03/2023 19:18
	SW-846 9040B Field				07/26/2023 10:24
	SW-846 9214 (Total)				07/28/2023 9:44
	SW-846 9251 (Total)				08/03/2023 0:09
23070389-059B	G223	07/26/2023 10:24	07/26/2023 18:05		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/01/2023 18:17
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	09/15/2023 21:13
23070389-060A	G224	07/26/2023 12:36	07/26/2023 18:05		
	Field Elevation Measurements				07/26/2023 12:36
	Standard Methods 2130 B Field				07/26/2023 12:36
	Standard Methods 18th Ed. 2580 B Field				07/26/2023 12:36
	Standard Methods 2320 B (Total) 1997, 2011				07/28/2023 10:10
	Standard Methods 2320 B 1997, 2011				07/28/2023 10:10
	Standard Methods 2510 B Field				07/26/2023 12:36
	Standard Methods 2540 C (Total) 1997, 2011				08/01/2023 10:50
	Standard Methods 2550 B Field				07/26/2023 12:36
	Standard Methods 4500-O G Field				07/26/2023 12:36
	SW-846 9036 (Total)				08/03/2023 0:17
	SW-846 9040B Field				07/26/2023 12:36



## Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

Sample ID	Client Sample ID Test Name	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	SW-846 9214 (Total)				07/28/2023 9:45
	SW-846 9251 (Total)				08/03/2023 0:12
23070389-060B	G224	07/26/2023 12:36	07/26/2023 18:05		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/01/2023 18:17
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	09/15/2023 21:19
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	09/18/2023 9:53
23070389-065A	G233	07/25/2023 13:24	07/26/2023 8:15		
	Field Elevation Measurements				07/25/2023 13:24
	Standard Methods 2130 B Field				07/25/2023 13:24
	Standard Methods 18th Ed. 2580 B Field				07/25/2023 13:24
	Standard Methods 2320 B (Total) 1997, 2011				07/27/2023 9:27
	Standard Methods 2320 B 1997, 2011				07/27/2023 9:27
	Standard Methods 2510 B Field				07/25/2023 13:24
	Standard Methods 2540 C (Total) 1997, 2011				07/27/2023 10:23
	Standard Methods 2550 B Field				07/25/2023 13:24
	Standard Methods 4500-O G Field				07/25/2023 13:24
	SW-846 9036 (Total)				08/03/2023 1:05
	SW-846 9040B Field				07/25/2023 13:24
	SW-846 9214 (Total)				07/27/2023 9:27
	SW-846 9251 (Total)				08/03/2023 1:00
23070389-065B	G233	07/25/2023 13:24	07/26/2023 8:15		
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/27/2023 12:40
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/27/2023 12:40
	Standard Methods 2550 B Field				07/25/2023 13:24
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				07/26/2023 18:45
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/26/2023 17:16
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/26/2023 17:16
	SW-846 9036 (Dissolved)				07/31/2023 13:03
	SW-846 9251 (Dissolved)				07/27/2023 15:20
23070389-065C	G233	07/25/2023 13:24	07/26/2023 8:15		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/01/2023 18:24
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	09/15/2023 22:51
23070389-065D	G233	07/25/2023 13:24	07/26/2023 8:15		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	07/28/2023 21:13
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	08/02/2023 17:47
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	07/29/2023 3:25
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	07/31/2023 19:52



## Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

Sample ID	Client Sample ID Test Name	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	09/16/2023 18:47
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	09/18/2023 12:47
	SW-846 7470A (Dissolved)			08/03/2023 10:35	08/04/2023 9:47
23070389-065E	G233	07/25/2023 13:24	07/26/2023 8:15		
	SW-846 9012A (Total)			07/26/2023 15:16	07/27/2023 11:23
23070389-065F	G233	07/25/2023 13:24	07/26/2023 8:15		
	EPA 600 350.1 (Dissolved)				07/28/2023 20:18
23070389-066A	G234	07/25/2023 8:47	07/26/2023 8:15		
	Field Elevation Measurements				07/25/2023 8:48
	Standard Methods 2130 B Field				07/25/2023 8:48
	Standard Methods 18th Ed. 2580 B Field				07/25/2023 8:48
	Standard Methods 2320 B (Total) 1997, 2011				07/27/2023 9:35
	Standard Methods 2320 B 1997, 2011				07/27/2023 9:35
	Standard Methods 2510 B Field				07/25/2023 8:48
	Standard Methods 2540 C (Total) 1997, 2011				07/27/2023 10:24
	Standard Methods 2550 B Field				07/25/2023 8:48
	Standard Methods 4500-O G Field				07/25/2023 8:48
	SW-846 9036 (Total)				08/03/2023 1:12
	SW-846 9040B Field				07/25/2023 8:48
	SW-846 9214 (Total)				07/27/2023 9:29
	SW-846 9251 (Total)				08/03/2023 1:13
23070389-066B	G234	07/25/2023 8:47	07/26/2023 8:15		
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/27/2023 12:47
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/27/2023 12:47
	Standard Methods 2550 B Field				07/25/2023 8:48
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				07/26/2023 18:46
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/26/2023 17:18
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/26/2023 17:18
	SW-846 9036 (Dissolved)				07/27/2023 15:32
	SW-846 9251 (Dissolved)				07/27/2023 15:33
23070389-066C	G234	07/25/2023 8:47	07/26/2023 8:15		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/01/2023 18:25
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	09/15/2023 22:57
23070389-066D	G234	07/25/2023 8:47	07/26/2023 8:15		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	07/28/2023 21:14
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	08/02/2023 17:48
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	07/29/2023 3:32



## Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

Sample ID	Client Sample ID Test Name	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	07/31/2023 19:59
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	09/16/2023 18:52
	SW-846 7470A (Dissolved)			08/03/2023 10:35	08/04/2023 9:49
23070389-066E	G234	07/25/2023 8:47	07/26/2023 8:15		
	SW-846 9012A (Total)			07/26/2023 15:16	07/27/2023 13:41
23070389-066F	G234	07/25/2023 8:47	07/26/2023 8:15		
	EPA 600 350.1 (Dissolved)				07/28/2023 20:10
23070389-067A	G48MG	07/27/2023 10:03	07/27/2023 16:35		
	Field Elevation Measurements				07/27/2023 10:03
	Standard Methods 2130 B Field				07/27/2023 10:03
	Standard Methods 18th Ed. 2580 B Field				07/27/2023 10:03
	Standard Methods 2320 B (Total) 1997, 2011				07/31/2023 12:23
	Standard Methods 2320 B 1997, 2011				07/31/2023 12:23
	Standard Methods 2510 B Field				07/27/2023 10:03
	Standard Methods 2540 C (Total) 1997, 2011				08/01/2023 12:41
	Standard Methods 2550 B Field				07/27/2023 10:03
	Standard Methods 4500-O G Field				07/27/2023 10:03
	SW-846 9036 (Total)				08/08/2023 14:06
	SW-846 9040B Field				07/27/2023 10:03
	SW-846 9214 (Total)				07/31/2023 13:59
	SW-846 9251 (Total)				08/08/2023 14:08
23070389-067B	G48MG	07/27/2023 10:03	07/27/2023 16:35		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/28/2023 14:38	08/03/2023 16:37
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/28/2023 14:38	09/18/2023 8:32
23070389-068A	L1R	07/27/2023 12:30	07/27/2023 16:35		
	Field Elevation Measurements				07/27/2023 12:30
	Standard Methods 2130 B Field				07/27/2023 12:30
	Standard Methods 18th Ed. 2580 B Field				07/27/2023 12:30
	Standard Methods 2320 B (Total) 1997, 2011				08/01/2023 9:12
	Standard Methods 2320 B 1997, 2011				08/01/2023 9:12
	Standard Methods 2510 B Field				07/27/2023 12:30
	Standard Methods 2540 C (Total) 1997, 2011				08/02/2023 12:49
	Standard Methods 2550 B Field				07/27/2023 12:30
	Standard Methods 4500-O G Field				07/27/2023 12:30
	SW-846 9036 (Total)				08/10/2023 12:32
	SW-846 9040B Field				07/27/2023 12:30
	SW-846 9214 (Total)				07/31/2023 14:00





## Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

Sample ID	Client Sample ID Test Name	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
23070389-068B	L1R SW-846 9251 (Total)	07/27/2023 12:30	07/27/2023 16:35		08/08/2023 14:26
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/28/2023 14:38	08/07/2023 13:07
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/28/2023 14:38	08/07/2023 13:12
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/28/2023 14:38	08/08/2023 12:59
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/28/2023 14:38	09/18/2023 8:59
23070389-091A	MW34D	07/27/2023 10:28	07/27/2023 16:35		
	Field Elevation Measurements				07/27/2023 10:28
	Standard Methods 2130 B Field				07/27/2023 10:28
	Standard Methods 18th Ed. 2580 B Field				07/27/2023 10:28
	Standard Methods 2320 B (Total) 1997, 2011				07/31/2023 12:38
	Standard Methods 2320 B 1997, 2011				07/31/2023 12:38
	Standard Methods 2510 B Field				07/27/2023 10:28
	Standard Methods 2540 C (Total) 1997, 2011				08/01/2023 12:41
	Standard Methods 2550 B Field				07/27/2023 10:28
	Standard Methods 4500-O G Field				07/27/2023 10:28
	SW-846 9036 (Total)				08/08/2023 14:31
	SW-846 9040B Field				07/27/2023 10:28
	SW-846 9214 (Total)				07/31/2023 14:02
	SW-846 9251 (Total)				08/08/2023 14:32
23070389-091B	MW34D	07/27/2023 10:28	07/27/2023 16:35		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/28/2023 14:38	08/03/2023 16:51
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/28/2023 14:38	09/18/2023 8:37
23070389-095A	MW43D	07/27/2023 10:58	07/27/2023 16:35		
	Field Elevation Measurements				07/27/2023 10:58
	Standard Methods 2130 B Field				07/27/2023 10:58
	Standard Methods 18th Ed. 2580 B Field				07/27/2023 10:58
	Standard Methods 2320 B (Total) 1997, 2011				07/31/2023 12:52
	Standard Methods 2320 B 1997, 2011				07/31/2023 12:52
	Standard Methods 2510 B Field				07/27/2023 10:58
	Standard Methods 2540 C (Total) 1997, 2011				08/01/2023 12:55
	Standard Methods 2550 B Field				07/27/2023 10:58
	Standard Methods 4500-O G Field				07/27/2023 10:58
	SW-846 9036 (Total)				08/04/2023 17:59
	SW-846 9040B Field				07/27/2023 10:58
	SW-846 9214 (Total)				07/31/2023 14:05
	SW-846 9251 (Total)				08/04/2023 17:54



## Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

Sample ID	Client Sample ID Test Name	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
23070389-095B	MW43D	07/27/2023 10:58	07/27/2023 16:35		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/28/2023 14:38	08/03/2023 16:54
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/28/2023 14:38	09/18/2023 8:48
23070389-099A	R217D	07/26/2023 12:49	07/26/2023 18:05		
	Field Elevation Measurements				07/26/2023 12:49
	Standard Methods 2130 B Field				07/26/2023 12:49
	Standard Methods 18th Ed. 2580 B Field				07/26/2023 12:49
	Standard Methods 2320 B (Total) 1997, 2011				07/28/2023 10:18
	Standard Methods 2320 B 1997, 2011				07/28/2023 10:18
	Standard Methods 2540 C (Total) 1997, 2011				08/01/2023 11:14
	Standard Methods 2550 B Field				07/26/2023 12:49
	Standard Methods 4500-O G Field				07/26/2023 12:49
	SW-846 9036 (Total)				08/03/2023 19:27
	SW-846 9040B Field				07/26/2023 12:49
	SW-846 9050A				08/09/2023 10:40
	SW-846 9214 (Total)				07/28/2023 9:47
	SW-846 9251 (Total)				08/03/2023 1:21
23070389-099B	R217D	07/26/2023 12:49	07/26/2023 18:05		
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/28/2023 9:06
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/28/2023 9:06
	Standard Methods 2550 B Field				07/26/2023 12:49
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				07/27/2023 16:50
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/27/2023 16:15
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/27/2023 16:15
	SW-846 9036 (Dissolved)				08/02/2023 17:51
	SW-846 9251 (Dissolved)				07/31/2023 22:33
23070389-099C	R217D	07/26/2023 12:49	07/26/2023 18:05		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/01/2023 18:26
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	09/15/2023 23:02
23070389-099D	R217D	07/26/2023 12:49	07/26/2023 18:05		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/28/2023 11:50	08/01/2023 17:27
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/28/2023 11:50	08/03/2023 4:01
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/28/2023 11:50	09/16/2023 21:57
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/28/2023 11:50	09/18/2023 15:30
	SW-846 7470A (Dissolved)			07/31/2023 12:42	08/01/2023 9:48
23070389-099E	R217D	07/26/2023 12:49	07/26/2023 18:05		
	SW-846 9012A (Total)			07/27/2023 16:54	07/28/2023 10:51



## Dates Report

<http://www.teklabinc.com/>

**Client:** Ramboll  
**Client Project:** NEW-23Q3

**Work Order:** 23070389  
**Report Date:** 15-Nov-23

Sample ID	Client Sample ID Test Name	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
23070389-099F	R217D EPA 600 350.1 (Dissolved)	07/26/2023 12:49	07/26/2023 18:05		07/28/2023 20:13
23070389-107A	Field Blank Standard Methods 2320 B (Total) 1997, 2011 Standard Methods 2320 B 1997, 2011 Standard Methods 2540 C (Total) 1997, 2011 Standard Methods 4500-NO2 B (Total) 2000, 2011 Standard Methods 4500-NO3 F (Total) 2000, 2011 Standard Methods 4500-NO3 F (Total) 2000, 2011 Standard Methods 4500-P E 1999 Standard Methods 4500-P E 1999, 2011 SW-846 9036 (Total) SW-846 9214 (Total) SW-846 9251 (Total)	08/01/2023 15:09	08/02/2023 10:00		08/03/2023 11:33 08/03/2023 11:33 08/03/2023 11:11 08/02/2023 15:01 08/02/2023 15:43 08/02/2023 15:43 08/02/2023 12:56 08/02/2023 12:51 08/05/2023 2:19 08/04/2023 11:09 08/05/2023 2:18
23070389-107B	Field Blank Standard Methods 2320 B (Dissolved) 1997, 2011 Standard Methods 2320 B (Dissolved) 1997, 2011 Standard Methods 4500-NO2 B (Dissolved) 2000, 2011 Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 Standard Methods 4500-P E (Dissolved) 1999, 2011 Standard Methods 4500-P E (Dissolved) 1999 SW-846 9036 (Dissolved) SW-846 9214 (Dissolved) SW-846 9251 (Dissolved)	08/01/2023 15:09	08/02/2023 10:00		08/03/2023 11:49 08/03/2023 11:49 08/02/2023 14:58 08/02/2023 15:38 08/02/2023 15:38 08/02/2023 12:51 08/02/2023 12:56 08/03/2023 22:58 08/04/2023 11:17 08/03/2023 22:58
23070389-107C	Field Blank SW-846 3005A, 6010B, Metals by ICP (Total) SW-846 3005A, 6020A, Metals by ICPMS (Total) SW-846 3005A, 6020A, Metals by ICPMS (Total) SW-846 3005A, 6020A, Metals by ICPMS (Total) SW-846 7470A (Total)	08/01/2023 15:09	08/02/2023 10:00	08/02/2023 12:31	08/04/2023 10:40 08/04/2023 8:28 09/16/2023 2:01 09/18/2023 8:53 08/04/2023 9:56
23070389-107D	Field Blank SW-846 3005A, 6010B, Metals by ICP (Dissolved) SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) SW-846 7470A (Dissolved)	08/01/2023 15:09	08/02/2023 10:00	08/08/2023 14:17	08/09/2023 19:06 08/11/2023 11:41 09/14/2023 2:08 09/14/2023 22:25 08/04/2023 9:58



## Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

Sample ID	Client Sample ID Test Name	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
23070389-107E	Field Blank	08/01/2023 15:09	08/02/2023 10:00		
	SW-846 9012A (Total)			08/07/2023 12:57	08/08/2023 10:10
23070389-107F	Field Blank	08/01/2023 15:09	08/02/2023 10:00		
	SW-846 9060A				08/15/2023 0:03
23070389-107G	Field Blank	08/01/2023 15:09	08/02/2023 10:00		
	SW-846 9060A				08/14/2023 16:46
23070389-107H	Field Blank	08/01/2023 15:09	08/02/2023 10:00		
	EPA 600 350.1 (Dissolved)				08/02/2023 17:00
23070389-113A	G231 (resample)	08/16/2023 11:30	08/16/2023 15:29		
	Field Elevation Measurements				08/16/2023 11:31
	Standard Methods 2130 B Field				08/16/2023 11:31
	Standard Methods 18th Ed. 2580 B Field				08/16/2023 11:31
	Standard Methods 2320 B (Total) 1997, 2011				08/18/2023 14:38
	Standard Methods 2320 B 1997, 2011				08/18/2023 14:38
	Standard Methods 2510 B Field				08/16/2023 11:31
	Standard Methods 2540 C (Total) 1997, 2011				08/21/2023 10:23
	Standard Methods 2550 B Field				08/16/2023 11:31
	Standard Methods 4500-O G Field				08/16/2023 11:31
	SW-846 9036 (Total)				08/17/2023 23:52
	SW-846 9040B Field				08/16/2023 11:31
	SW-846 9214 (Total)				08/21/2023 9:04
SW-846 9251 (Total)				08/17/2023 23:52	
23070389-113B	G231 (resample)	08/16/2023 11:30	08/16/2023 15:29		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/18/2023 13:07
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/18/2023 13:07
	Standard Methods 2550 B Field				08/16/2023 11:31
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/17/2023 20:45
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/17/2023 14:11
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/17/2023 14:11
	SW-846 9036 (Dissolved)				08/17/2023 23:20
SW-846 9251 (Dissolved)				08/17/2023 23:20	
23070389-113C	G231 (resample)	08/16/2023 11:30	08/16/2023 15:29		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/17/2023 11:14	08/18/2023 17:47
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/17/2023 11:14	08/22/2023 12:11
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/17/2023 11:14	09/17/2023 0:35
23070389-113D	G231 (resample)	08/16/2023 11:30	08/16/2023 15:29		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/17/2023 14:00	08/18/2023 14:19



## Dates Report

<http://www.teklabinc.com/>

**Client:** Ramboll  
**Client Project:** NEW-23Q3

**Work Order:** 23070389  
**Report Date:** 15-Nov-23

Sample ID	Client Sample ID Test Name	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/17/2023 14:00	08/30/2023 12:47
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/17/2023 14:00	09/08/2023 2:52
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/17/2023 14:00	09/08/2023 18:01
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/17/2023 14:00	09/16/2023 1:29
	SW-846 7470A (Dissolved)			08/22/2023 10:04	08/23/2023 20:45
23070389-113E	G231 (resample)	08/16/2023 11:30	08/16/2023 15:29		
	SW-846 9012A (Total)			08/17/2023 18:36	08/18/2023 13:55
23070389-113F	G231 (resample)	08/16/2023 11:30	08/16/2023 15:29		
	EPA 600 350.1 (Dissolved)				08/18/2023 13:31
23070389-114A	G232 (resample)	08/16/2023 12:12	08/16/2023 15:29		
	Field Elevation Measurements				08/16/2023 12:12
	Standard Methods 2130 B Field				08/16/2023 12:12
	Standard Methods 18th Ed. 2580 B Field				08/16/2023 12:12
	Standard Methods 2320 B (Total) 1997, 2011				08/18/2023 14:46
	Standard Methods 2320 B 1997, 2011				08/18/2023 14:46
	Standard Methods 2510 B Field				08/16/2023 12:12
	Standard Methods 2540 C (Total) 1997, 2011				08/21/2023 10:23
	Standard Methods 2550 B Field				08/16/2023 12:12
	Standard Methods 4500-O G Field				08/16/2023 12:12
	SW-846 9036 (Total)				08/18/2023 0:00
	SW-846 9040B Field				08/16/2023 12:12
	SW-846 9214 (Total)				08/21/2023 9:06
	SW-846 9251 (Total)				08/18/2023 0:00
23070389-114B	G232 (resample)	08/16/2023 12:12	08/16/2023 15:29		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/18/2023 13:24
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/18/2023 13:24
	Standard Methods 2550 B Field				08/16/2023 12:12
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/17/2023 20:46
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/17/2023 14:20
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/17/2023 14:20
	SW-846 9036 (Dissolved)				08/17/2023 23:44
	SW-846 9251 (Dissolved)				08/17/2023 23:39
23070389-114C	G232 (resample)	08/16/2023 12:12	08/16/2023 15:29		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/17/2023 11:14	08/18/2023 17:35
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/17/2023 11:14	09/17/2023 0:40
23070389-114D	G232 (resample)	08/16/2023 12:12	08/16/2023 15:29		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/17/2023 14:00	08/18/2023 18:31



## Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

Sample ID	Client Sample ID Test Name	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/17/2023 14:00	08/21/2023 18:19
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/17/2023 14:00	08/30/2023 14:05
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/17/2023 14:00	09/08/2023 4:03
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/17/2023 14:00	09/08/2023 19:37
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/17/2023 14:00	09/16/2023 2:29
	SW-846 7470A (Dissolved)			08/22/2023 10:04	08/23/2023 20:48
23070389-114E	G232 (resample)	08/16/2023 12:12	08/16/2023 15:29		
	SW-846 9012A (Total)			08/17/2023 18:36	08/18/2023 13:59
23070389-114F	G232 (resample)	08/16/2023 12:12	08/16/2023 15:29		
	EPA 600 350.1 (Dissolved)				08/18/2023 13:33





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### STANDARD METHODS 2510 B FIELD

Batch R334750		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-1 230724											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1380	1412	0	98.1	90	110	07/24/2023	

Batch R334750		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-10 230817											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1430	1412	0	101.3	90	110	08/17/2023	

Batch R334750		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-2 230725											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1410	1412	0	100.0	90	110	07/25/2023	

Batch R334750		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-3 230725											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1410	1412	0	100.1	90	110	07/25/2023	

Batch R334750		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-4 230726											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1420	1412	0	100.2	90	110	07/26/2023	

Batch R334750		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-6 230727											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1420	1412	0	100.9	90	110	07/27/2023	

Batch R334750		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-7 230731											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1420	1412	0	100.7	90	110	07/31/2023	

Batch R334750		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-8 230801											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1420	1412	0	100.4	90	110	08/01/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### STANDARD METHODS 2510 B FIELD

Batch R334750		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-9 230816											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1420	1412	0	100.9	90	110	08/16/2023	

### SW-846 9040B FIELD

Batch R334750		SampType: LCS		Units							
SampID: LCS- 2 230725											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.03	7.000	0	100.4	98.57	101.4	07/25/2023	

Batch R334750		SampType: LCS		Units							
SampID: LCS-1 230724											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		6.98	7.000	0	99.7	98.57	101.4	07/24/2023	

Batch R334750		SampType: LCS		Units							
SampID: LCS-10 230817											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.02	7.000	0	100.3	98.57	101.4	08/17/2023	

Batch R334750		SampType: LCS		Units							
SampID: LCS-3 230725											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.02	7.000	0	100.3	98.57	101.4	07/25/2023	

Batch R334750		SampType: LCS		Units							
SampID: LCS-4 230726											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.03	7.000	0	100.4	98.57	101.4	07/26/2023	

Batch R334750		SampType: LCS		Units							
SampID: LCS-5 230727											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.01	7.000	0	100.1	98.57	101.4	07/27/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9040B FIELD

Batch R334750		SampType: LCS		Units							Date Analyzed
SampID: LCS-6 230727											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
pH	*	1.00		7.02	7.000	0	100.3	98.57	101.4	07/27/2023	

Batch R334750		SampType: LCS		Units							Date Analyzed
SampID: LCS-7 230731											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
pH	*	1.00		7.03	7.000	0	100.4	98.57	101.4	07/31/2023	

Batch R334750		SampType: LCS		Units							Date Analyzed
SampID: LCS-8 230801											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
pH	*	1.00		7.02	7.000	0	100.3	98.57	101.4	08/01/2023	

Batch R334750		SampType: LCS		Units							Date Analyzed
SampID: LCS-9 230816											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
pH	*	1.00		7.02	7.000	0	100.3	98.57	101.4	08/16/2023	

### EPA 600 350.1 (DISSOLVED)

Batch R333244		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MB-R333244											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		< 0.10	0.0270	0	0	-100	100	07/28/2023	

Batch R333244		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-R333244											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		1.01	1.000	0	100.9	90	110	07/28/2023	

Batch R333244		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-043EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		1.98	2.000	0.1180	93.0	90	110	07/28/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### EPA 600 350.1 (DISSOLVED)

Batch	R333244	SampType:	MSD	Units	mg/L	RPD Limit:	10					Date
Analyses												Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
SampID: 23070389-043EMSD												
Nitrogen, Ammonia (as N)		0.10		1.99	2.000	0.1180	93.6	1.978	0.55			07/28/2023

Batch	R333244	SampType:	MS	Units	mg/L	RPD Limit:	10	Low Limit	High Limit			Date
Analyses												Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
SampID: 23070389-054EMS												
Nitrogen, Ammonia (as N)		0.10		1.89	2.000	0.05000	92.2	90	110			07/28/2023

Batch	R333244	SampType:	MSD	Units	mg/L	RPD Limit:	10					Date
Analyses												Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
SampID: 23070389-054EMSD												
Nitrogen, Ammonia (as N)		0.10		1.88	2.000	0.05000	91.4	1.894	0.90			07/28/2023

Batch	R333317	SampType:	MBLK	Units	mg/L	RPD Limit:	10	Low Limit	High Limit			Date
Analyses												Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
SampID: MB-R333317												
Nitrogen, Ammonia (as N)		0.10		< 0.10	0.0270	0	0	-100	100			07/31/2023

Batch	R333317	SampType:	LCS	Units	mg/L	RPD Limit:	10	Low Limit	High Limit			Date
Analyses												Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
SampID: LCS-R333317												
Nitrogen, Ammonia (as N)		0.10		1.02	1.000	0	102.1	90	110			07/31/2023

Batch	R333317	SampType:	MS	Units	mg/L	RPD Limit:	10	Low Limit	High Limit			Date
Analyses												Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
SampID: 23070389-028EMS												
Nitrogen, Ammonia (as N)		0.10		2.54	2.000	0.7110	91.4	90	110			07/31/2023

Batch	R333317	SampType:	MSD	Units	mg/L	RPD Limit:	10					Date
Analyses												Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
SampID: 23070389-028EMSD												
Nitrogen, Ammonia (as N)		0.10		2.56	2.000	0.7110	92.2	2.539	0.63			07/31/2023

Batch	R334442	SampType:	MBLK	Units	mg/L	RPD Limit:	10	Low Limit	High Limit			Date
Analyses												Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
SampID: MB-R334442												
Nitrogen, Ammonia (as N)		0.10		< 0.10	0.0270	0	0	-100	100			08/02/2023



## Quality Control Results

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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### EPA 600 350.1 (DISSOLVED)

Batch R334442		SampType: LCS		Units mg/L							
SampID: LCS-R334442											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.02	1.000	0	101.5	90	110	08/02/2023	

Batch R334442		SampType: MS		Units mg/L							
SampID: 23070389-048EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.92	2.000	0	96.2	90	110	08/02/2023	

Batch R334442		SampType: MSD		Units mg/L						RPD Limit: 10		Date Analyzed
SampID: 23070389-048EMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		1.92	2.000	0	95.8	1.925	0.52	08/02/2023		

Batch R335212		SampType: MBLK		Units mg/L							
SampID: MB-R335212											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		< 0.10	0.0270	0	0	-100	100	08/18/2023	

Batch R335212		SampType: LCS		Units mg/L							
SampID: LCS-R335212											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.02	1.000	0	102.1	90	110	08/18/2023	

Batch R335212		SampType: MS		Units mg/L							
SampID: 23070389-112EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.86	2.000	0	93.2	90	110	08/18/2023	

Batch R335212		SampType: MSD		Units mg/L						RPD Limit: 10		Date Analyzed
SampID: 23070389-112EMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		1.83	2.000	0	91.7	1.863	1.62	08/18/2023		



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R333199		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	07/26/2023	

Batch R333199		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Total Dissolved Solids		20		976	1000	0	97.6	90	110	07/26/2023	

Batch R333199		SampType: DUP		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-103ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Total Dissolved Solids		20		358				360.0	0.56	07/26/2023		

Batch R333268		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	07/27/2023	

Batch R333268		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Total Dissolved Solids		20		954	1000	0	95.4	90	110	07/27/2023	

Batch R333268		SampType: DUP		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-005ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Total Dissolved Solids		20		3020				2882	4.61	07/27/2023		

Batch R334473		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	08/01/2023	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	08/01/2023	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	08/01/2023	





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R334473		SampType: LCS		Units mg/L						
SampID: LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		978	1000	0	97.8	90	110	08/01/2023
Total Dissolved Solids		20		972	1000	0	97.2	90	110	08/01/2023
Total Dissolved Solids		20		912	1000	0	91.2	90	110	08/01/2023

Batch R334473		SampType: DUP		Units mg/L						
SampID: 23070389-002ADUP										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		50		2050				2140	4.30	08/01/2023

Batch R334473		SampType: DUP		Units mg/L						
SampID: 23070389-100ADUP										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		50		1240				1225	0.81	08/01/2023

Batch R334530		SampType: MBLK		Units mg/L						
SampID: MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	08/02/2023

Batch R334530		SampType: LCS		Units mg/L						
SampID: LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		930	1000	0	93.0	90	110	08/02/2023

Batch R334530		SampType: DUP		Units mg/L						
SampID: 23070389-014ADUP										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		1060				1056	0.19	08/02/2023

Batch R334586		SampType: MBLK		Units mg/L						
SampID: MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	08/03/2023
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	08/03/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: NEW-23Q3

Work Order: 23070389  
Report Date: 15-Nov-23

### STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R334586		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		928	1000	0	92.8	90	110	08/03/2023	
Total Dissolved Solids		20		936	1000	0	93.6	90	110	08/03/2023	

Batch R334586		SampType: DUP		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-025ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		50		875				875.0	0.00	08/03/2023		

Batch R334586		SampType: DUP		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-052ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		50		985				985.0	0.00	08/03/2023		

Batch R335351		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	08/21/2023	

Batch R335351		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		966	1000	0	96.6	90	110	08/21/2023	

Batch R335351		SampType: DUP		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-112ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		558				548.0	1.81	08/21/2023		

### STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R333091		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-016BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.46	0.5000	0	92.0	85	115	07/25/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch	R333091	SampType:	MSD	Units	mg/L	RPD Limit: 10					Date
SampID: 23070389-016BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.51	0.5000	0	101.6	0.4600	9.92	07/25/2023	

Batch	R333091	SampType:	MS	Units	mg/L	RPD Limit: 10					Date
SampID: 23070389-103BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.46	0.5000	0	93.0	85	115	07/25/2023	

Batch	R333091	SampType:	MSD	Units	mg/L	RPD Limit: 10					Date
SampID: 23070389-103BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.44	0.5000	0	87.0	0.4650	6.67	07/25/2023	

Batch	R333148	SampType:	MS	Units	mg/L	RPD Limit: 10					Date
SampID: 23070389-005BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	100.6	85	115	07/26/2023	

Batch	R333148	SampType:	MSD	Units	mg/L	RPD Limit: 10					Date
SampID: 23070389-005BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0	98.0	0.5030	2.62	07/26/2023	

Batch	R333148	SampType:	MS	Units	mg/L	RPD Limit: 10					Date
SampID: 23070389-009BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	99.0	85	115	07/26/2023	

Batch	R333148	SampType:	MSD	Units	mg/L	RPD Limit: 10					Date
SampID: 23070389-009BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	99.2	0.4950	0.20	07/26/2023	

Batch	R333148	SampType:	MS	Units	mg/L	RPD Limit: 10					Date
SampID: 23070389-043BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0	98.8	85	115	07/27/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch	R333148	SampType:	MSD	Units	mg/L	RPD Limit:	10					Date
Analyses												Analyzed
SampID:	23070389-043BMSD											
		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrite (as N)			0.05		0.46	0.5000	0	92.2	0.4940	6.91		07/27/2023

Batch	R333292	SampType:	MS	Units	mg/L	RPD Limit:	10	Low Limit	High Limit			Date
Analyses												Analyzed
SampID:	23070389-100BMS											
		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)			0.05		0.51	0.5000	0	101.4	85	115		07/28/2023

Batch	R333292	SampType:	MSD	Units	mg/L	RPD Limit:	10					Date
Analyses												Analyzed
SampID:	23070389-100BMSD											
		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrite (as N)			0.05		0.51	0.5000	0	101.4	0.5070	0.00		07/28/2023

Batch	R334350	SampType:	MS	Units	mg/L	RPD Limit:	10	Low Limit	High Limit			Date
Analyses												Analyzed
SampID:	23070389-006BMS											
		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)			0.05		0.51	0.5000	0	101.4	85	115		08/01/2023

Batch	R334350	SampType:	MSD	Units	mg/L	RPD Limit:	10					Date
Analyses												Analyzed
SampID:	23070389-006BMSD											
		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrite (as N)			0.05		0.50	0.5000	0	101.0	0.5070	0.40		08/01/2023

Batch	R334350	SampType:	MS	Units	mg/L	RPD Limit:	10	Low Limit	High Limit			Date
Analyses												Analyzed
SampID:	23070389-007BMS											
		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)			0.05		0.50	0.5000	0	100.0	85	115		08/01/2023

Batch	R334350	SampType:	MSD	Units	mg/L	RPD Limit:	10					Date
Analyses												Analyzed
SampID:	23070389-007BMSD											
		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrite (as N)			0.05		0.50	0.5000	0	100.8	0.5000	0.80		08/01/2023

Batch	R334479	SampType:	MS	Units	mg/L	RPD Limit:	10	Low Limit	High Limit			Date
Analyses												Analyzed
SampID:	23070389-019BMS											
		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)			0.05		0.49	0.5000	0	98.4	85	115		08/02/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R334479		SampType: MSD		Units mg/L			RPD Limit: 10				
SampID: 23070389-019BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0	98.4	0.4920	0.00	08/02/2023	

Batch R335184		SampType: MS		Units mg/L			RPD Limit: 10				
SampID: 23070389-111BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.54	0.5000	0	108.6	85	115	08/17/2023	

Batch R335184		SampType: MSD		Units mg/L			RPD Limit: 10				
SampID: 23070389-111BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.54	0.5000	0	108.2	0.5430	0.37	08/17/2023	

Batch R335184		SampType: MS		Units mg/L			RPD Limit: 10				
SampID: 23070389-112BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.54	0.5000	0	108.2	85	115	08/17/2023	

Batch R335184		SampType: MSD		Units mg/L			RPD Limit: 10				
SampID: 23070389-112BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.54	0.5000	0	108.2	0.5410	0.00	08/17/2023	

Batch R335231		SampType: MS		Units mg/L			RPD Limit: 10				
SampID: 23070389-116BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.53	0.5000	0	106.4	85	115	08/18/2023	

Batch R335231		SampType: MSD		Units mg/L			RPD Limit: 10				
SampID: 23070389-116BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.53	0.5000	0	105.8	0.5320	0.57	08/18/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R333091		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	07/25/2023	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	07/25/2023	

Batch R333091		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.25		1.24	1.250	0	98.8	90	110	07/25/2023	
Nitrogen, Nitrite (as N)		0.25		1.24	1.250	0	98.8	90	110	07/25/2023	

Batch R333148		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	07/26/2023	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	07/26/2023	

Batch R333148		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.25		1.27	1.250	0	101.6	90	110	07/26/2023	
Nitrogen, Nitrite (as N)		0.25		1.27	1.250	0	101.6	90	110	07/26/2023	

Batch R333292		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	07/28/2023	

Batch R333292		SampType: MBLK		Units mg/Kg							Date Analyzed
SampID: MB-R333292											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.50		< 0.50	0.0250	0	0	-100	100	07/28/2023	

Batch R333292		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.25		1.24	1.250	0	99.2	90	110	07/28/2023	





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R333292		SampType: LCS		Units mg/Kg							
SampID: LCS-R333292											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		2.50	J	1.2	1.250	0	99.2	90	110	07/28/2023	

Batch R334350		SampType: MBLK		Units mg/L							
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	07/31/2023	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	07/31/2023	

Batch R334350		SampType: LCS		Units mg/L							
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.25		1.24	1.250	0	98.8	90	110	07/31/2023	
Nitrogen, Nitrite (as N)		0.25		1.24	1.250	0	98.8	90	110	07/31/2023	

Batch R334479		SampType: MBLK		Units mg/L							
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	08/02/2023	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	08/02/2023	

Batch R334479		SampType: MBLK		Units mg/Kg							
SampID: MBLK-230720											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.50		< 0.50	0.0250	0	0	-100	100	08/02/2023	

Batch R334479		SampType: LCS		Units mg/L							
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.25		1.20	1.250	0	96.4	90	110	08/02/2023	
Nitrogen, Nitrite (as N)		0.25		1.20	1.250	0	95.6	90	110	08/02/2023	

Batch R335184		SampType: MBLK		Units mg/L							
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	08/17/2023	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	08/17/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R335184		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.25		1.29	1.250	0	103.2	90	110	08/17/2023	
Nitrogen, Nitrite (as N)		0.25		1.29	1.250	0	103.2	90	110	08/17/2023	

Batch R335231		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	08/18/2023	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	08/18/2023	

Batch R335231		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.25		1.36	1.250	0	108.4	90	110	08/18/2023	
Nitrogen, Nitrite (as N)		0.25		1.36	1.250	0	108.4	90	110	08/18/2023	

### STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R333082		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-015BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.221	0.2500	0	88.4	85	115	07/25/2023	

Batch R333082		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-015BMDS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.222	0.2500	0	88.8	0.2210	0.45	07/25/2023		

Batch R333082		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-105BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.418	0.2500	0.1910	90.8	85	115	07/25/2023	

Batch R333082		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-105BMDS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.421	0.2500	0.1910	92.0	0.4180	0.72	07/25/2023		



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: NEW-23Q3

Work Order: 23070389  
Report Date: 15-Nov-23

### STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R333187		SampType: MS		Units mg/L						
SampID: 23070389-021BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.242</b>	0.2500	0	96.8	85	115	07/26/2023

Batch R333187		SampType: MSD		Units mg/L						
SampID: 23070389-021BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.238</b>	0.2500	0	95.2	0.2420	1.67	07/26/2023

Batch R333252		SampType: MS		Units mg/L						
SampID: 23070389-003BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.250		<b>4.88</b>	1.250	3.565	105.4	85	115	07/27/2023

Batch R333252		SampType: MSD		Units mg/L						
SampID: 23070389-003BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.250		<b>4.78</b>	1.250	3.565	97.1	4.883	2.15	07/27/2023

Batch R333300		SampType: MS		Units mg/L						
SampID: 23070389-100BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.100		<b>1.62</b>	0.5000	1.109	101.6	85	115	07/28/2023

Batch R333300		SampType: MSD		Units mg/L						
SampID: 23070389-100BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.100		<b>1.60</b>	0.5000	1.109	97.2	1.617	1.37	07/28/2023

Batch R334435		SampType: MS		Units mg/L						
SampID: 23070389-012BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.232</b>	0.2500	0	92.8	85	115	08/01/2023

Batch R334435		SampType: MSD		Units mg/L						
SampID: 23070389-012BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.237</b>	0.2500	0	94.8	0.2320	2.13	08/01/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: NEW-23Q3

Work Order: 23070389  
Report Date: 15-Nov-23

### STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R334535		SampType: MS		Units mg/L						
SampID: 23070389-038BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.260</b>	0.2500	0.01000	100.0	85	115	08/02/2023

Batch R334535		SampType: MSD		Units mg/L							RPD Limit: 10
SampID: 23070389-038BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.257</b>	0.2500	0.01000	98.8	0.2600	1.16	08/02/2023	

Batch R335191		SampType: MS		Units mg/L						
SampID: 23070389-113BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.248</b>	0.2500	0.009000	95.6	85	115	08/17/2023

Batch R335191		SampType: MSD		Units mg/L							RPD Limit: 10
SampID: 23070389-113BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.248</b>	0.2500	0.009000	95.6	0.2480	0.00	08/17/2023	

### STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R333082		SampType: MBLK		Units mg/L						
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		< <b>0.050</b>						07/25/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		< <b>0.050</b>	0.0090	0	0	-100	100	07/25/2023

Batch R333082		SampType: LCS		Units mg/L						
SampID: ICV/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.500</b>	0.5000	0	100.0	90	110	07/25/2023

Batch R333082		SampType: MS		Units mg/L						
SampID: 23070389-016AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.262</b>	0.2500	0.02700	94.0	85	115	07/25/2023



## Quality Control Results

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Client: Ramboll  
Client Project: NEW-23Q3

Work Order: 23070389  
Report Date: 15-Nov-23

### STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R333082		SampType: MSD		Units mg/L		RPD Limit: 10				
SampID: 23070389-016AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.258</b>	0.2500	0.02700	92.4	0.2620	1.54	07/25/2023

Batch R333187		SampType: MBLK		Units mg/L						
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		< <b>0.050</b>						07/26/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		< <b>0.050</b>	0.0090	0	0	-100	100	07/26/2023

Batch R333187		SampType: LCS		Units mg/L						
SampID: ICB/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.487</b>	0.5000	0	97.4	90	110	07/26/2023

Batch R333187		SampType: MS		Units mg/L						
SampID: 23070389-009AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.270</b>	0.2500	0.02700	97.2	85	115	07/26/2023

Batch R333187		SampType: MSD		Units mg/L		RPD Limit: 10				
SampID: 23070389-009AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.270</b>	0.2500	0.02700	97.2	0.2700	0.00	07/26/2023

Batch R333252		SampType: MBLK		Units mg/L						
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		< <b>0.050</b>						07/27/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		< <b>0.050</b>	0.0090	0	0	-100	100	07/27/2023

Batch R333252		SampType: LCS		Units mg/L						
SampID: ICB/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.510</b>	0.5000	0	102.0	90	110	07/27/2023



## Quality Control Results

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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R333252		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-104AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.240</b>	0.2500	0	96.0	85	115	07/27/2023	

Batch R333252		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-104AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.243</b>	0.2500	0	97.2	0.2400	1.24	07/27/2023		

Batch R333300		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate (as N)		0.050		<b>&lt; 0.050</b>						07/28/2023	
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>&lt; 0.050</b>	0.0090	0	0	-100	100	07/28/2023	

Batch R333300		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.505</b>	0.5000	0	101.0	90	110	07/28/2023	

Batch R334435		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate (as N)		0.050		<b>&lt; 0.050</b>						08/01/2023	
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>&lt; 0.050</b>	0.0090	0	0	-100	100	08/01/2023	

Batch R334435		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.482</b>	0.5000	0	96.4	90	110	08/01/2023	

Batch R334435		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-013AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.232</b>	0.2500	0	92.8	85	115	08/01/2023	





## Quality Control Results

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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R334435		SampType: MSD		Units mg/L			RPD Limit: 10			
SampID: 23070389-013AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.232</b>	0.2500	0	92.8	0.2320	0.00	08/01/2023

Batch R334435		SampType: MS		Units mg/L			RPD Limit: 10			
SampID: 23070389-020AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.230</b>	0.2500	0	92.0	85	115	08/01/2023

Batch R334435		SampType: MSD		Units mg/L			RPD Limit: 10			
SampID: 23070389-020AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.228</b>	0.2500	0	91.2	0.2300	0.87	08/01/2023

Batch R334535		SampType: MBLK		Units mg/L			RPD Limit: 10			
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		< <b>0.050</b>						08/02/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		< <b>0.050</b>	0.0090	0	0	-100	100	08/02/2023

Batch R334535		SampType: LCS		Units mg/L			RPD Limit: 10			
SampID: ICV/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.530</b>	0.5000	0	106.0	90	110	08/02/2023

Batch R335191		SampType: MBLK		Units mg/L			RPD Limit: 10			
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		< <b>0.050</b>						08/17/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		< <b>0.050</b>	0.0090	0	0	-100	100	08/17/2023

Batch R335191		SampType: LCS		Units mg/L			RPD Limit: 10			
SampID: ICV/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.508</b>	0.5000	0	101.6	90	110	08/17/2023



## Quality Control Results

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Client: Ramboll  
Client Project: NEW-23Q3

Work Order: 23070389  
Report Date: 15-Nov-23

### STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R335253		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate (as N)		0.050		< 0.050						08/18/2023	
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	08/18/2023	

Batch R335253		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.516	0.5000	0	103.2	90	110	08/18/2023	

Batch R335253		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-117AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.293	0.2500	0.04100	100.8	85	115	08/18/2023	

Batch R335253		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-117AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.295	0.2500	0.04100	101.6	0.2930	0.68	08/18/2023		

### STANDARD METHODS 4500-P E (DISSOLVED) 1999, 2011

Batch R333097		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-005BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		0.052	0.0500	0	104.0	85	115	07/26/2023	

Batch R333097		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-005BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Phosphorus, Orthophosphate (as P)		0.010		0.056	0.0500	0	112.0	0.05200	7.41	07/26/2023		

Batch R333097		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-103BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		0.152	0.0500	0.1030	98.0	85	115	07/26/2023	



## Quality Control Results

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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### STANDARD METHODS 4500-P E (DISSOLVED) 1999, 2011

Batch R333097		SampType: MSD		Units mg/L				RPD Limit: 10			
SampID: 23070389-103BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		<b>0.154</b>	0.0500	0.1030	102.0	0.1520	1.31	07/26/2023	

Batch R333282		SampType: MS		Units mg/L				RPD Limit: 10			
SampID: 23070389-104BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		<b>0.069</b>	0.0500	0.01800	102.0	85	115	07/28/2023	

Batch R333282		SampType: MSD		Units mg/L				RPD Limit: 10			
SampID: 23070389-104BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		<b>0.074</b>	0.0500	0.01800	112.0	0.06900	6.99	07/28/2023	

Batch R334477		SampType: MS		Units mg/L				RPD Limit: 10			
SampID: 23070389-006BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		<b>0.108</b>	0.0500	0.05100	114.0	85	115	08/01/2023	

Batch R334477		SampType: MSD		Units mg/L				RPD Limit: 10			
SampID: 23070389-006BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		<b>0.103</b>	0.0500	0.05100	104.0	0.1080	4.74	08/01/2023	

Batch R334477		SampType: MS		Units mg/L				RPD Limit: 10			
SampID: 23070389-007BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		<b>0.062</b>	0.0500	0.005000	114.0	85	115	08/01/2023	

Batch R334477		SampType: MSD		Units mg/L				RPD Limit: 10			
SampID: 23070389-007BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		<b>0.059</b>	0.0500	0.005000	108.0	0.06200	4.96	08/01/2023	

Batch R334477		SampType: MS		Units mg/L				RPD Limit: 10			
SampID: 23070389-107BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		<b>0.043</b>	0.0500	0	86.0	85	115	08/02/2023	



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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### STANDARD METHODS 4500-P E (DISSOLVED) 1999, 2011

Batch R334477		SampType: MSD		Units mg/L			RPD Limit: 10			
SampID: 23070389-107BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		<b>0.047</b>	0.0500	0	94.0	0.04300	8.89	08/02/2023

Batch R335237		SampType: MS		Units mg/L			RPD Limit: 10			
SampID: 23070389-116BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		<b>0.052</b>	0.0500	0	104.0	85	115	08/18/2023

Batch R335237		SampType: MSD		Units mg/L			RPD Limit: 10			
SampID: 23070389-116BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		<b>0.056</b>	0.0500	0	112.0	0.05200	7.41	08/18/2023

Batch R335237		SampType: MS		Units mg/L			RPD Limit: 10			
SampID: 23070389-117BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		<b>0.055</b>	0.0500	0	110.0	85	115	08/18/2023

Batch R335237		SampType: MSD		Units mg/L			RPD Limit: 10			
SampID: 23070389-117BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		<b>0.054</b>	0.0500	0	108.0	0.05500	1.83	08/18/2023

### STANDARD METHODS 4500-P E 1999, 2011

Batch R333097		SampType: MBLK		Units mg/L			RPD Limit: 10			
SampID: MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		<b>&lt; 0.010</b>	0.0020	0	0	-100	100	07/26/2023

Batch R333097		SampType: LCS		Units mg/L			RPD Limit: 10			
SampID: LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		<b>0.097</b>	0.1000	0	97.0	90	110	07/26/2023



## Quality Control Results

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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### STANDARD METHODS 4500-P E 1999, 2011

Batch R333097		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-016AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		<b>0.049</b>	0.0500	0	98.0	85	115	07/26/2023	

Batch R333097		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-016AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Phosphorus, Orthophosphate (as P)		0.010		<b>0.053</b>	0.0500	0	106.0	0.04900	7.84	07/26/2023		

Batch R333282		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		<b>&lt; 0.010</b>	0.0020	0	0	-100	100	07/28/2023	

Batch R333282		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		<b>0.103</b>	0.1000	0	103.0	90	110	07/28/2023	

Batch R334477		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		<b>&lt; 0.010</b>	0.0020	0	0	-100	100	08/01/2023	

Batch R334477		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		<b>0.108</b>	0.1000	0	108.0	90	110	08/01/2023	

Batch R334531		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		<b>&lt; 0.010</b>	0.0020	0	0	-100	100	08/03/2023	

Batch R334531		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		<b>0.103</b>	0.1000	0	103.0	90	110	08/03/2023	



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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

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### STANDARD METHODS 4500-P E 1999, 2011

Batch R335237		SampType: MBLK		Units mg/L							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Phosphorus, Orthophosphate (as P)		0.010		< 0.010	0.0020	0	0	-100	100	08/18/2023	

Batch R335237		SampType: LCS		Units mg/L							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Phosphorus, Orthophosphate (as P)		0.010		0.103	0.1000	0	103.0	90	110	08/18/2023	

### SW-846 9012A (TOTAL)

Batch 210000		SampType: MBLK		Units mg/L							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	07/27/2023	

Batch 210000		SampType: LCS		Units mg/L							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Cyanide		0.005		0.024	0.0250	0	97.9	90	110	07/27/2023	

Batch 210000		SampType: MS		Units mg/L							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Cyanide		0.005		0.028	0.0250	0.004275	93.5	75	125	07/27/2023	

Batch 210000		SampType: MSD		Units mg/L							RPD Limit: 15
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Cyanide		0.005		0.029	0.0250	0.004275	97.6	0.02766	3.62	07/27/2023	

Batch 210084		SampType: MBLK		Units mg/L							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	07/28/2023	





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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

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### SW-846 9012A (TOTAL)

Batch 210084		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS 230727 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		<b>0.025</b>	0.0250	0	98.5	90	110	07/28/2023	

Batch 210084		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-002DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		<b>0.024</b>	0.0250	0	96.6	75	125	07/28/2023	

Batch 210084		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23070389-002DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.005		<b>0.025</b>	0.0250	0	100.3	0.02415	3.80	07/28/2023		

Batch 210146		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK 230728 TCN4											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< <b>0.005</b>	0.0015	0	0	-100	100	07/31/2023	

Batch 210146		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS 230728 TCN4											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		<b>0.023</b>	0.0250	0	90.9	90	110	07/31/2023	

Batch 210146		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-100DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		<b>0.027</b>	0.0250	0	106.0	75	125	07/31/2023	

Batch 210146		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23070389-100DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.005		<b>0.027</b>	0.0250	0	108.3	0.02651	2.09	07/31/2023		

Batch 210262		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK 230801 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< <b>0.005</b>	0.0015	0	0	-100	100	08/02/2023	



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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

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### SW-846 9012A (TOTAL)

Batch 210262		SampType: LCS		Units mg/L							Date
SampID: LCS 230801 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Cyanide		0.005		<b>0.027</b>	0.0250	0	108.0	90	110		08/02/2023

Batch 210262		SampType: MS		Units mg/L							Date
SampID: 23070389-048DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Cyanide		0.005		<b>0.022</b>	0.0250	0	86.3	75	125		08/02/2023

Batch 210262		SampType: MSD		Units mg/L		RPD Limit: 15					Date
SampID: 23070389-048DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Cyanide		0.005		<b>0.025</b>	0.0250	0	98.0	0.02157	12.74		08/02/2023

Batch 210422		SampType: MBLK		Units mg/L							Date
SampID: MBLK 230804 TCN2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Cyanide		0.005		< <b>0.005</b>	0.0015	0	0	-100	100		08/07/2023

Batch 210422		SampType: LCS		Units mg/L							Date
SampID: LCS 230804 TCN2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Cyanide		0.005		<b>0.026</b>	0.0250	0	103.4	90	110		08/07/2023

Batch 210422		SampType: MS		Units mg/L							Date
SampID: 23070389-047DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Cyanide		0.005		<b>0.025</b>	0.0250	0	98.1	75	125		08/07/2023

Batch 210422		SampType: MSD		Units mg/L		RPD Limit: 15					Date
SampID: 23070389-047DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Cyanide		0.005		<b>0.024</b>	0.0250	0	94.7	0.02452	3.53		08/07/2023

Batch 210472		SampType: MBLK		Units mg/L							Date
SampID: MBLK 230807 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Cyanide		0.005		< <b>0.005</b>	0.0015	0	0	-100	100		08/08/2023



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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

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### SW-846 9012A (TOTAL)

Batch 210472		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS 230807 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		<b>0.024</b>	0.0250	0	97.6	90	110	08/08/2023	

Batch 210472		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-107EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		<b>0.025</b>	0.0250	0	98.5	75	125	08/08/2023	

Batch 210472		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23070389-107EMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.005		<b>0.024</b>	0.0250	0	97.9	0.02462	0.61	08/08/2023		

Batch 211020		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK 230817 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		<b>&lt; 0.005</b>	0.0015	0	0	-100	100	08/18/2023	

Batch 211020		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS 230817 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		<b>0.027</b>	0.0250	0	107.2	90	110	08/18/2023	

Batch 211020		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-112DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		<b>0.026</b>	0.0250	0	103.0	75	125	08/18/2023	

Batch 211020		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23070389-112DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.005		<b>0.026</b>	0.0250	0	102.0	0.02576	1.01	08/18/2023		



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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9036 (DISSOLVED)

Batch R334506		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		500		1810	1000	921.6	89.0	85	115	08/02/2023	

Batch R334506		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-002BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		500		1850	1000	921.6	92.9	1812	2.12	08/02/2023		

Batch R334506		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-054BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		1000		4580	2000	2690	94.6	85	115	08/02/2023	

Batch R334506		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-054BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		1000		4720	2000	2690	101.3	4583	2.86	08/02/2023		

Batch R334506		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-102BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		1000		4390	2000	2296	104.9	85	115	08/02/2023	

Batch R334506		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-102BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		1000		4480	2000	2296	109.3	4394	1.97	08/02/2023		

Batch R334506		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-105BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		2000	E	12500	4000	8979	88.1	85	115	08/02/2023	

Batch R334506		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-105BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		2000	E	12900	4000	8979	98.2	12500	3.17	08/02/2023		



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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9036 (DISSOLVED)

Batch R334506		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-108BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		1000		4760	2000	2913	92.1	85	115	08/02/2023	

Batch R334506		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-108BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		1000		4850	2000	2913	97.0	4755	2.03	08/02/2023		

Batch R334639		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-047BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		500		2190	1000	1110	108.1	85	115	08/05/2023	

Batch R334639		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-047BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		500		2130	1000	1110	101.9	2191	2.90	08/05/2023		

Batch R335217		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-111BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50		206	100.0	108.7	96.9	85	115	08/17/2023	

Batch R335217		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-111BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		50		197	100.0	108.7	88.2	205.6	4.34	08/17/2023		

Batch R335341		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-117BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		1000		4570	2000	2860	85.3	85	115	08/22/2023	

Batch R335341		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-117BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		1000		4800	2000	2860	96.9	4566	4.94	08/22/2023		



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9036 (TOTAL)

Batch R333276		SampType: MBLK		Units mg/L						
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		< 10	6.140	0	0	-100	100	07/27/2023

Batch R333276		SampType: LCS		Units mg/L						
SampID: ICB/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		18	20.00	0	92.5	90	110	07/27/2023

Batch R334391		SampType: MBLK		Units mg/L						
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		< 10	6.140	0	0	-100	100	07/31/2023

Batch R334391		SampType: LCS		Units mg/L						
SampID: ICB/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		19	20.00	0	96.8	90	110	07/31/2023

Batch R334391		SampType: MS		Units mg/L						
SampID: 23070389-015AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		468	200.0	267.6	100.2	85	115	07/31/2023

Batch R334391		SampType: MSD		Units mg/L						
SampID: 23070389-015AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		465	200.0	267.6	98.8	468.0	0.57	07/31/2023

Batch R334506		SampType: MBLK		Units mg/L						
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		< 10	6.140	0	0	-100	100	08/02/2023

Batch R334506		SampType: LCS		Units mg/L						
SampID: ICB/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		20	20.00	0	97.9	90	110	08/02/2023





## Quality Control Results

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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9036 (TOTAL)

Batch R334506		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-105AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		2000	E	13000	4000	9422	88.3	85	115	08/02/2023	

Batch R334506		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-105AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		2000	E	13200	4000	9422	93.2	12960	1.50	08/02/2023		

Batch R334559		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	7.620	0	0	-100	100	08/03/2023	

Batch R334559		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		19	20.00	0	96.3	90	110	08/03/2023	

Batch R334559		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-022AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20		85	40.00	49.42	90.2	85	115	08/03/2023	

Batch R334559		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-022AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		20		89	40.00	49.42	98.5	85.48	3.84	08/03/2023		

Batch R334559		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-044AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		2000	E	10200	4000	6164	100.4	85	115	08/03/2023	

Batch R334559		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-044AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		2000	E	10100	4000	6164	99.5	10180	0.36	08/03/2023		



## Quality Control Results

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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9036 (TOTAL)

Batch R334639		SampType: MBLK		Units mg/L						
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		< 10	6.140	0	0	-100	100	08/04/2023

Batch R334639		SampType: LCS		Units mg/L						
SampID: ICB/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		20	20.00	0	101.2	90	110	08/04/2023

Batch R334639		SampType: MS		Units mg/L						
SampID: 23070389-006AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		305	200.0	118.2	93.3	85	115	08/04/2023

Batch R334639		SampType: MSD		Units mg/L						
SampID: 23070389-006AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		317	200.0	118.2	99.2	304.8	3.82	08/04/2023

Batch R334639		SampType: MS		Units mg/L						
SampID: 23070389-050AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		500		1480	1000	534.0	94.1	85	115	08/04/2023

Batch R334639		SampType: MSD		Units mg/L						
SampID: 23070389-050AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		500	S	1350	1000	534.0	82.1	1475	8.53	08/04/2023

Batch R334769		SampType: MBLK		Units mg/L						
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		< 10	6.140	0	0	-100	100	08/08/2023

Batch R334769		SampType: LCS		Units mg/L						
SampID: ICB/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		21	20.00	0	104.6	90	110	08/08/2023



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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9036 (TOTAL)

Batch R334769		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-091AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20	S	76	40.00	48.84	68.6	85	115	08/08/2023	

Batch R334769		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23070389-091AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		20	S	75	40.00	48.84	64.8	76.29	2.01	08/08/2023		

Batch R334863		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	08/10/2023	

Batch R334863		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICB/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		20	20.00	0	97.6	90	110	08/10/2023	

Batch R334945		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	08/11/2023	

Batch R334945		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICB/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		20	20.00	0	101.2	90	110	08/11/2023	

Batch R335217		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	08/17/2023	

Batch R335217		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICB/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		20	20.00	0	99.6	90	110	08/17/2023	



## Quality Control Results

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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9036 (TOTAL)

Batch R335341		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	08/21/2023	

Batch R335341		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		20	20.00	0	98.0	90	110	08/21/2023	

Batch R335452		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	08/23/2023	

Batch R335452		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		19	20.00	0	95.9	90	110	08/23/2023	

### SW-846 9050A

Batch R334775		SampType: LCS		Units µmhos/cm @25C							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Conductivity		10		1280	1412	0	90.7	90	110	08/09/2023	

Batch R334775		SampType: LCS1		Units µmhos/cm @25C							Date Analyzed
SampID: LCS1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Conductivity		10		6300	6667	0	94.5	90	110	08/09/2023	

Batch R334775		SampType: DUP		Units µmhos/cm @25C							Date Analyzed
SampID: 23070389-028ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Conductivity		10		3850				3920	1.80	08/09/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9050A

Batch R334775		SampType: DUP		Units µmhos/cm @25C				RPD Limit: 10			
SampID: 23070389-100ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Conductivity		10		1640				1630	0.61	08/09/2023	

Batch R334775		SampType: DUP		Units µmhos/cm @25C				RPD Limit: 10			
SampID: 23070389-110ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Conductivity		10		1330				1330	0.00	08/09/2023	

### SW-846 9060A

Batch R334837		SampType: MBLK		Units mg/L							
SampID: FILTER MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		1.0		< 1.0	0.4500	0	0	-100	100	08/09/2023	

Batch R334837		SampType: MBLK		Units mg/L							
SampID: MB-R334837											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		1.0		< 1.0	0.4500	0	0	0	0	08/09/2023	

Batch R334837		SampType: LCS		Units mg/L							
SampID: LCS-R334837											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		5.0		20.8	21.60	0	96.2	90	110	08/09/2023	

Batch R334837		SampType: MS		Units mg/L							
SampID: 23070389-005FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		1.0		8.9	5.000	4.490	88.0	85	115	08/10/2023	

Batch R334837		SampType: MSD		Units mg/L				RPD Limit: 10			
SampID: 23070389-005FMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Dissolved Organic Carbon		1.0		8.8	5.000	4.490	86.2	8.890	1.02	08/10/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9060A

Batch R334982 SampType: MBLK Units mg/L

SampID: FILTER MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0		< 1.0	0.4500	0	0	-100	100	08/14/2023

Batch R334982 SampType: MBLK Units mg/L

SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		0.5		< 0.5	0.4500	0	0	-100	100	08/14/2023

Batch R334982 SampType: MBLK Units mg/L

SampID: MB-R334982

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0		< 1.0	0.4500	0	0	-100	100	08/14/2023

Batch R334982 SampType: LCS Units mg/L

SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		2.5		21.0	21.60	0	97.0	90	110	08/14/2023

Batch R334982 SampType: LCS Units mg/L

SampID: LCS-R334982

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		5.0		21.0	21.60	0	97.0	90	110	08/14/2023

Batch R334982 SampType: MS Units mg/L

SampID: 23070389-013FMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		5.0		52.4	50.00	8.030	88.7	85	115	08/14/2023

Batch R334982 SampType: MSD Units mg/L

SampID: 23070389-013FMSD

RPD Limit: 10

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Dissolved Organic Carbon		5.0		51.8	50.00	8.030	87.5	52.37	1.17	08/14/2023

Batch R334982 SampType: MS Units mg/L

SampID: 23070389-020FMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0	E	11.3	5.000	6.530	96.2	85	115	08/14/2023





## Quality Control Results

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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9060A

Batch R334982		SampType: MSD		Units mg/L			RPD Limit: 10				
SampID: 23070389-020FMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Dissolved Organic Carbon		1.0	E	11.3	5.000	6.530	95.4	11.34	0.35	08/14/2023	

Batch R335281		SampType: MBLK		Units mg/L							
SampID: FILTER MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		1.0		< 1.0	0.4500	0	0	-100	100	08/18/2023	

Batch R335281		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		< 1.0	0.4500	0	0	-100	100	08/18/2023	

Batch R335281		SampType: MBLK		Units mg/L							
SampID: MB-R335281											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		1.0		< 1.0	0.4500	0	0	-100	100	08/18/2023	

Batch R335281		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		5.0		21.4	21.60	0	98.8	90	110	08/18/2023	

Batch R335281		SampType: LCS		Units mg/L							
SampID: LCS-R335281											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		5.0		21.4	21.60	0	98.8	90	110	08/18/2023	

Batch R335281		SampType: MS		Units mg/L							
SampID: 23070389-005EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0	S	7.8	5.000	3.580	83.8	85	115	08/18/2023	

Batch R335281		SampType: MSD		Units mg/L			RPD Limit: 10				
SampID: 23070389-005EMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Organic Carbon (TOC)		1.0	S	7.6	5.000	3.580	79.6	7.770	2.74	08/18/2023	



## Quality Control Results

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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9060A

Batch R335281		SampType: MS		Units mg/L							Date
SampID: 23070389-013EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Total Organic Carbon (TOC)		5.0	S	28.5	25.00	9.230	77.2	85	115		08/18/2023

Batch R335281		SampType: MSD		Units mg/L		RPD Limit: 10					Date
SampID: 23070389-013EMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Total Organic Carbon (TOC)		5.0	S	29.5	25.00	9.230	81.1	28.53	3.38		08/18/2023

Batch R335281		SampType: MS		Units mg/L							Date
SampID: 23070389-018EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Total Organic Carbon (TOC)		1.0		5.7	5.000	1.390	85.8	85	115		08/18/2023

Batch R335281		SampType: MSD		Units mg/L		RPD Limit: 10					Date
SampID: 23070389-018EMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Total Organic Carbon (TOC)		1.0		5.7	5.000	1.390	85.8	5.680	0.00		08/18/2023

Batch R335281		SampType: MS		Units mg/L							Date
SampID: 23070389-102EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Total Organic Carbon (TOC)		2.0	S	11.9	10.00	12.04	-1.8	85	115		08/18/2023

Batch R335281		SampType: MSD		Units mg/L		RPD Limit: 10					Date
SampID: 23070389-102EMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Total Organic Carbon (TOC)		2.0	S	12.1	10.00	12.04	0.8	11.86	2.17		08/18/2023

Batch R335506		SampType: MBLK		Units mg/L							Date
SampID: FILTER MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Dissolved Organic Carbon		1.0		< 1.0	0.4500	0	0	-100	100		08/24/2023

Batch R335506		SampType: MBLK		Units mg/L							Date
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Total Organic Carbon (TOC)		1.0		< 1.0	0.4500	0	0	-100	100		08/24/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9060A

Batch R335506		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		5.3	5.000	0	105.6	90	110	08/24/2023	

### SW-846 9214 (DISSOLVED)

Batch R333259		SampType: MS		Units mg/L							
SampID: 23070389-049BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.06	2.000	0.2540	90.1	75	125	07/28/2023	

Batch R333259		SampType: MSD		Units mg/L							
SampID: 23070389-049BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.11	2.000	0.2540	92.8	2.056	2.55	07/28/2023	

Batch R334347		SampType: MS		Units mg/L							
SampID: 23070389-024BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.30	2.000	0.2930	100.5	75	125	07/31/2023	

Batch R334347		SampType: MSD		Units mg/L							
SampID: 23070389-024BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.29	2.000	0.2930	99.9	2.303	0.52	07/31/2023	

Batch R334347		SampType: MS		Units mg/L							
SampID: 23070389-110BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.22	2.000	0.2920	96.5	75	125	07/31/2023	

Batch R334347		SampType: MSD		Units mg/L							
SampID: 23070389-110BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.20	2.000	0.2920	95.6	2.222	0.86	07/31/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9214 (DISSOLVED)

Batch R334593		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-107BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		1.98	2.000	0	99.0	75	125	08/04/2023	

Batch R334593		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23070389-107BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.10		1.94	2.000	0	96.9	1.980	2.14	08/04/2023		

### SW-846 9214 (TOTAL)

Batch R333087		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	07/25/2023	

Batch R333087		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		1.09	1.000	0	108.6	90	110	07/25/2023	

Batch R333087		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-105AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		3.15	2.000	1.540	80.6	75	125	07/26/2023	

Batch R333087		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23070389-105AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.10		3.07	2.000	1.540	76.4	3.152	2.73	07/26/2023		

Batch R333194		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	07/27/2023	



## Quality Control Results

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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9214 (TOTAL)

Batch R333194		SampType: LCS		Units mg/L							
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		1.06	1.000	0	105.8	90	110	07/27/2023	

Batch R333194		SampType: MS		Units mg/L							
SampID: 23070389-011AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.59	2.000	0.4340	107.7	75	125	07/27/2023	

Batch R333194		SampType: MSD		Units mg/L								RPD Limit: 15
SampID: 23070389-011AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.10		2.61	2.000	0.4340	108.6	2.588	0.69	07/27/2023		

Batch R333194		SampType: MS		Units mg/L							
SampID: 23070389-108AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.10	2.000	0.2160	94.2	75	125	07/27/2023	

Batch R333194		SampType: MSD		Units mg/L								RPD Limit: 15
SampID: 23070389-108AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.10		2.08	2.000	0.2160	93.0	2.099	1.10	07/27/2023		

Batch R333259		SampType: MBLK		Units mg/L							
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	07/28/2023	

Batch R333259		SampType: LCS		Units mg/L							
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		0.93	1.000	0	93.3	90	110	07/28/2023	

Batch R333259		SampType: MS		Units mg/L							
SampID: 23070389-104AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		1.00		17.6	20.00	1.110	82.5	75	125	07/28/2023	



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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9214 (TOTAL)

Batch R333259		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23070389-104AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		1.00		18.0	20.00	1.110	84.5	17.61	2.25	07/28/2023	

Batch R334347		SampType: MBLK		Units mg/L							
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	07/31/2023	

Batch R334347		SampType: LCS		Units mg/L							
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		1.00	1.000	0	99.9	90	110	07/31/2023	

Batch R334474		SampType: MBLK		Units mg/L							
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	08/02/2023	

Batch R334474		SampType: LCS		Units mg/L							
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		1.01	1.000	0	100.6	90	110	08/02/2023	

Batch R334474		SampType: MS		Units mg/L							
SampID: 23070389-020AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.79	2.000	0.7220	103.2	75	125	08/02/2023	

Batch R334474		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23070389-020AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.76	2.000	0.7220	101.7	2.787	1.12	08/02/2023	

Batch R334474		SampType: MS		Units mg/L							
SampID: 23070389-045AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		1.92	2.000	0.2300	84.5	75	125	08/02/2023	





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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9214 (TOTAL)

Batch R334474		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23070389-045AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		1.97	2.000	0.2300	87.0	1.920	2.62	08/02/2023	

Batch R334474		SampType: MS		Units mg/L							
SampID: 23070389-052AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.48	2.000	0.4220	102.8	75	125	08/02/2023	

Batch R334474		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23070389-052AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.48	2.000	0.4220	103.0	2.478	0.16	08/02/2023	

Batch R334593		SampType: MBLK		Units mg/L							
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	08/04/2023	

Batch R334593		SampType: LCS		Units mg/L							
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		0.96	1.000	0	96.3	90	110	08/04/2023	

Batch R335249		SampType: MBLK		Units mg/L							
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	08/21/2023	

Batch R335249		SampType: LCS		Units mg/L							
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		0.96	1.000	0	96.5	90	110	08/21/2023	

Batch R335249		SampType: MS		Units mg/L							
SampID: 23070389-117AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.12	2.000	0.1980	96.0	75	125	08/21/2023	



## Quality Control Results

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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9214 (TOTAL)

Batch R335249		SampType: MSD		Units mg/L			RPD Limit: 15			
SampID: 23070389-117AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		2.10	2.000	0.1980	95.2	2.119	0.81	08/21/2023

### SW-846 9251 (DISSOLVED)

Batch R333281		SampType: MS		Units mg/L			RPD Limit: 15			
SampID: 23070389-102BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		20		143	100.0	45.99	96.8	85	115	07/27/2023

Batch R333281		SampType: MSD		Units mg/L			RPD Limit: 15			
SampID: 23070389-102BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		20		142	100.0	45.99	96.0	142.8	0.62	07/27/2023

Batch R333281		SampType: MS		Units mg/L			RPD Limit: 15			
SampID: 23070389-105BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		20	E	281	100.0	191.5	89.7	85	115	07/27/2023

Batch R333281		SampType: MSD		Units mg/L			RPD Limit: 15			
SampID: 23070389-105BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		20	E	283	100.0	191.5	91.9	281.2	0.78	07/27/2023

Batch R334401		SampType: MS		Units mg/L			RPD Limit: 15			
SampID: 23070389-002BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		40		289	200.0	98.29	95.4	85	115	07/31/2023

Batch R334401		SampType: MSD		Units mg/L			RPD Limit: 15			
SampID: 23070389-002BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		40		291	200.0	98.29	96.4	289.1	0.65	07/31/2023



## Quality Control Results

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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9251 (DISSOLVED)

Batch R334401		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-108BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		80		500	400.0	108.7	97.9	85	115	07/31/2023	

Batch R334401		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23070389-108BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		80		503	400.0	108.7	98.6	500.3	0.59	07/31/2023		

Batch R334538		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-054BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		200		1340	1000	407.2	93.1	85	115	08/02/2023	

Batch R334538		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23070389-054BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		200		1360	1000	407.2	94.9	1338	1.30	08/02/2023		

Batch R334646		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-047BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		200		1200	1000	210.9	98.7	85	115	08/05/2023	

Batch R334646		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23070389-047BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		200		1190	1000	210.9	97.5	1198	1.03	08/05/2023		

Batch R335223		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-111BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		20		167	100.0	76.40	90.5	85	115	08/17/2023	

Batch R335223		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23070389-111BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		20		163	100.0	76.40	86.4	166.9	2.51	08/17/2023		



## Quality Control Results

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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9251 (DISSOLVED)

Batch R335479		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-117BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		40		285	200.0	101.8	91.6	85	115	08/23/2023	

Batch R335479		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23070389-117BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		40		287	200.0	101.8	92.8	285.0	0.85	08/23/2023		

### SW-846 9251 (TOTAL)

Batch R333281		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	07/27/2023	

Batch R333281		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		21	20.00	0	102.8	90	110	07/27/2023	

Batch R333281		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-015AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		43	20.00	25.11	89.2	85	115	07/27/2023	

Batch R333281		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23070389-015AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		4		43	20.00	25.11	89.0	42.95	0.12	07/27/2023		

Batch R333281		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-105AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		20	E	282	100.0	185.9	95.6	85	115	07/27/2023	



## Quality Control Results

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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9251 (TOTAL)

Batch R333281		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23070389-105AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		20	E	<b>282</b>	100.0	185.9	96.4	281.6	0.28	07/27/2023	

Batch R334401		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	07/31/2023	

Batch R334401		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		<b>20</b>	20.00	0	101.6	90	110	07/31/2023	

Batch R334538		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	08/02/2023	

Batch R334538		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		<b>20</b>	20.00	0	101.7	90	110	08/02/2023	

Batch R334538		SampType: MS		Units mg/L							
SampID: 23070389-022AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4	S	<b>43</b>	20.00	25.67	84.8	85	115	08/02/2023	

Batch R334538		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23070389-022AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4	S	<b>42</b>	20.00	25.67	84.1	42.64	0.38	08/02/2023	

Batch R334594		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	08/03/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9251 (TOTAL)

Batch R334594		SampType: LCS		Units mg/L						
SampID: ICV/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		21	20.00	0	105.6	90	110	08/03/2023

Batch R334594		SampType: MS		Units mg/L						
SampID: 23070389-006AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		29	20.00	9.860	96.8	85	115	08/03/2023

Batch R334594		SampType: MSD		Units mg/L		RPD Limit: 15				
SampID: 23070389-006AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		29	20.00	9.860	96.9	29.23	0.03	08/03/2023

Batch R334594		SampType: MS		Units mg/L						
SampID: 23070389-044AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		800		6220	4000	2368	96.2	85	115	08/03/2023

Batch R334594		SampType: MSD		Units mg/L		RPD Limit: 15				
SampID: 23070389-044AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		800		6040	4000	2368	91.8	6216	2.90	08/03/2023

Batch R334646		SampType: MBLK		Units mg/L						
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		< 4	0.5000	0	0	-100	100	08/04/2023

Batch R334646		SampType: LCS		Units mg/L						
SampID: ICV/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		20	20.00	0	102.2	90	110	08/04/2023

Batch R334776		SampType: MBLK		Units mg/L						
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		< 4	0.5000	0	0	-100	100	08/08/2023





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9251 (TOTAL)

Batch R334776		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		21	20.00	0	104.0	90	110	08/08/2023	

Batch R334776		SampType: MS		Units mg/L							
SampID: 23070389-050AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		24	20.00	4.690	95.6	85	115	08/08/2023	

Batch R334776		SampType: MSD		Units mg/L							
SampID: 23070389-050AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		24	20.00	4.690	95.6	23.80	0.04	08/08/2023	

Batch R334776		SampType: MS		Units mg/L							
SampID: 23070389-091AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		8		49	40.00	10.23	96.3	85	115	08/08/2023	

Batch R334776		SampType: MSD		Units mg/L							
SampID: 23070389-091AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		8		49	40.00	10.23	96.4	48.76	0.08	08/08/2023	

Batch R334902		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	08/10/2023	

Batch R334902		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		21	20.00	0	103.6	90	110	08/10/2023	

Batch R334956		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	08/11/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 9251 (TOTAL)

Batch R334956		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		21	20.00	0	105.8	90	110	08/11/2023	

Batch R335223		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	08/17/2023	

Batch R335223		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		20	20.00	0	100.8	90	110	08/17/2023	

Batch R335354		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	08/21/2023	

Batch R335354		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		20	20.00	0	98.6	90	110	08/21/2023	

Batch R335479		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	08/23/2023	

Batch R335479		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		20	20.00	0	101.8	90	110	08/23/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210037 SampType: MBLK Units mg/L

SampleID: MBLK-210037

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	07/28/2023
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/02/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	07/28/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/02/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/02/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	07/28/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	07/28/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	07/28/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/02/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/02/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	07/28/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/02/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	07/28/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	07/28/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/02/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	07/28/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	08/02/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	07/28/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/02/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	07/28/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/02/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	07/28/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/02/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/02/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	07/28/2023
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	08/02/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	07/28/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/02/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/02/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	07/28/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/02/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	07/28/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210037 SampType: LCS Units mg/L

SampleID: LCS-210037

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		<b>1.94</b>	2.000	0	96.9	85	115	08/02/2023
Aluminum		0.0250		<b>1.72</b>	2.000	0	85.8	85	115	07/28/2023
Antimony		0.0500		<b>0.445</b>	0.5000	0	88.9	85	115	07/28/2023
Antimony		0.0500		<b>0.490</b>	0.5000	0	98.0	85	115	08/02/2023
Arsenic		0.0250		<b>0.475</b>	0.5000	0	95.0	85	115	07/28/2023
Arsenic		0.0250		<b>0.503</b>	0.5000	0	100.6	85	115	08/02/2023
Boron		0.0200		<b>0.454</b>	0.5000	0	90.7	85	115	07/28/2023
Cadmium		0.0020		<b>0.0499</b>	0.0500	0	99.8	85	115	08/02/2023
Cadmium		0.0020		<b>0.0492</b>	0.0500	0	98.4	85	115	07/28/2023
Calcium		0.100		<b>2.30</b>	2.500	0	91.9	85	115	07/28/2023
Calcium		0.100		<b>2.59</b>	2.500	0	103.4	85	115	08/02/2023
Chromium		0.0050		<b>0.181</b>	0.2000	0	90.6	85	115	07/28/2023
Chromium		0.0050		<b>0.197</b>	0.2000	0	98.6	85	115	08/02/2023
Iron		0.0400		<b>1.80</b>	2.000	0	90.0	85	115	07/28/2023
Iron		0.0400		<b>1.99</b>	2.000	0	99.6	85	115	08/02/2023
Lead		0.0150		<b>0.503</b>	0.5000	0	100.7	85	115	08/02/2023
Lead		0.0150		<b>0.464</b>	0.5000	0	92.9	85	115	07/28/2023
Magnesium		0.0500		<b>2.18</b>	2.500	0	87.1	85	115	07/28/2023
Magnesium		0.0500		<b>2.44</b>	2.500	0	97.5	85	115	08/02/2023
Manganese		0.0070		<b>0.443</b>	0.5000	0	88.7	85	115	07/28/2023
Manganese		0.0070		<b>0.498</b>	0.5000	0	99.7	85	115	08/02/2023
Potassium		0.100		<b>2.53</b>	2.500	0	101.2	85	115	08/02/2023
Potassium		0.100		<b>2.35</b>	2.500	0	94.0	85	115	07/28/2023
Selenium		0.0400		<b>0.500</b>	0.5000	0	100.0	85	115	08/02/2023
Selenium		0.0400		<b>0.447</b>	0.5000	0	89.5	85	115	07/28/2023
Silicon	*	0.0500		<b>0.459</b>	0.5000	0	91.8	85	115	08/02/2023
Sodium		0.0500		<b>2.42</b>	2.500	0	96.8	85	115	08/02/2023
Sodium		0.0500		<b>2.17</b>	2.500	0	86.7	85	115	07/28/2023
Vanadium		0.0100		<b>0.448</b>	0.5000	0	89.6	85	115	07/28/2023
Vanadium		0.0100		<b>0.489</b>	0.5000	0	97.8	85	115	08/02/2023
Zinc		0.0100		<b>0.451</b>	0.5000	0	90.2	85	115	07/28/2023
Zinc		0.0100		<b>0.498</b>	0.5000	0	99.5	85	115	08/02/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210037 SampType: MS Units mg/L

SampID: 23070389-009DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	<b>358</b>	2.500	363.9	-239.6	75	125	08/02/2023
Magnesium		0.0500	S	<b>280</b>	2.500	286.5	-278.9	75	125	08/02/2023
Potassium		0.100		<b>4.16</b>	2.500	1.722	97.5	75	125	07/28/2023
Silicon	*	0.0500	S	<b>10.4</b>	0.5000	10.26	36.3	75	125	08/02/2023
Sodium		0.0500	S	<b>243</b>	2.500	247.2	-163.2	75	125	08/02/2023

Batch 210037 SampType: MSD Units mg/L

RPD Limit: 20

SampID: 23070389-009DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	<b>359</b>	2.500	363.9	-197.6	358.0	0.29	08/02/2023
Magnesium		0.0500	S	<b>282</b>	2.500	286.5	-189.8	279.6	0.79	08/02/2023
Potassium		0.100		<b>4.14</b>	2.500	1.722	96.8	4.160	0.41	07/28/2023
Silicon	*	0.0500	S	<b>10.4</b>	0.5000	10.26	35.4	10.44	0.05	08/02/2023
Sodium		0.0500	S	<b>243</b>	2.500	247.2	-177.2	243.1	0.14	08/02/2023

Batch 210142 SampType: MBLK Units mg/L

SampID: MBLK-210142

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< <b>0.0250</b>	0.0127	0	0	-100	100	08/01/2023
Antimony		0.0500		< <b>0.0500</b>	0.0068	0	0	-100	100	08/01/2023
Arsenic		0.0250		< <b>0.0250</b>	0.0087	0	0	-100	100	08/01/2023
Boron		0.0200		< <b>0.0200</b>	0.0090	0	0	-100	100	08/01/2023
Cadmium		0.0020		< <b>0.0020</b>	0.0005	0	0	-100	100	08/01/2023
Calcium		0.100		< <b>0.100</b>	0.0350	0	0	-100	100	08/01/2023
Chromium		0.0050		< <b>0.0050</b>	0.0028	0	0	-100	100	08/01/2023
Iron		0.0400		< <b>0.0400</b>	0.0200	0	0	-100	100	08/01/2023
Lead		0.0150		< <b>0.0150</b>	0.0014	0	0	-100	100	08/01/2023
Magnesium		0.0500		< <b>0.0500</b>	0.0055	0	0	-100	100	08/01/2023
Manganese		0.0070		< <b>0.0070</b>	0.0025	0	0	-100	100	08/01/2023
Potassium		0.100		< <b>0.100</b>	0.0400	0	0	-100	100	08/01/2023
Selenium		0.0400		< <b>0.0400</b>	0.0170	0	0	-100	100	08/01/2023
Silicon	*	0.0500		< <b>0.0500</b>	0.0122	0	0	-100	100	08/04/2023
Sodium		0.0500		< <b>0.0500</b>	0.0180	0	0	-100	100	08/01/2023
Vanadium		0.0100		< <b>0.0100</b>	0.0009	0	0	-100	100	08/01/2023
Zinc		0.0100		< <b>0.0100</b>	0.0050	0	0	-100	100	08/01/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210142 SampType: LCS Units mg/L

SampID: LCS-210142

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.81	2.000	0	90.5	85	115	08/01/2023
Antimony		0.0500		0.459	0.5000	0	91.9	85	115	08/01/2023
Arsenic		0.0250		0.460	0.5000	0	92.0	85	115	08/01/2023
Boron		0.0200		0.456	0.5000	0	91.2	85	115	08/01/2023
Cadmium		0.0020		0.0464	0.0500	0	92.8	85	115	08/01/2023
Calcium		0.100		2.36	2.500	0	94.4	85	115	08/01/2023
Chromium		0.0050		0.181	0.2000	0	90.7	85	115	08/01/2023
Iron		0.0400		1.83	2.000	0	91.3	85	115	08/01/2023
Lead		0.0150		0.459	0.5000	0	91.9	85	115	08/01/2023
Magnesium		0.0500		2.19	2.500	0	87.6	85	115	08/01/2023
Manganese		0.0070		0.452	0.5000	0	90.3	85	115	08/01/2023
Potassium		0.100		2.52	2.500	0	100.9	85	115	08/01/2023
Selenium		0.0400		0.439	0.5000	0	87.8	85	115	08/01/2023
Silicon	*	0.0500		0.501	0.5000	0	100.2	85	115	08/07/2023
Sodium		0.0500		2.34	2.500	0	93.6	85	115	08/01/2023
Vanadium		0.0100		0.458	0.5000	0	91.6	85	115	08/01/2023
Zinc		0.0100		0.456	0.5000	0	91.2	85	115	08/01/2023

Batch 210142 SampType: MS Units mg/L

SampID: 23070389-043CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	487	2.500	491.4	-165.2	75	125	08/01/2023
Magnesium		0.0500	S	268	2.500	268.6	-14.3	75	125	08/01/2023
Potassium		0.100		6.98	2.500	4.330	106.1	75	125	08/01/2023
Sodium		0.0500	S	154	2.500	153.8	15.2	75	125	08/01/2023

Batch 210142 SampType: MSD Units mg/L

SampID: 23070389-043CMSD

RPD Limit: 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	485	2.500	491.4	-270.4	487.2	0.54	08/01/2023
Magnesium		0.0500	S	265	2.500	268.6	-137.5	268.3	1.16	08/01/2023
Potassium		0.100		6.92	2.500	4.330	103.6	6.984	0.90	08/01/2023
Sodium		0.0500	S	153	2.500	153.8	-25.2	154.2	0.66	08/01/2023





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210298 SampType: MBLK Units mg/L

SampID: MBLK-210298

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/02/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/02/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/02/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/02/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/02/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/02/2023
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	08/02/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/02/2023

Batch 210298 SampType: LCS Units mg/L

SampID: LCS-210298

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.80	2.000	0	90.2	85	115	08/02/2023
Cadmium		0.0020		0.0483	0.0500	0	96.6	85	115	08/03/2023
Calcium		0.100		2.39	2.500	0	95.8	85	115	08/02/2023
Iron		0.0400		1.94	2.000	0	96.9	85	115	08/02/2023
Magnesium		0.0500		2.26	2.500	0	90.5	85	115	08/02/2023
Manganese		0.0070		0.472	0.5000	0	94.3	85	115	08/02/2023
Potassium		0.100		2.47	2.500	0	98.8	85	115	08/02/2023
Silicon	*	0.0500		0.502	0.5000	0	100.4	85	115	08/07/2023
Sodium		0.0500		2.28	2.500	0	91.2	85	115	08/02/2023

Batch 210298 SampType: MS Units mg/L

SampID: 23070389-048CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	591	2.500	597.2	-241.6	75	125	08/02/2023
Magnesium		0.0500	S	395	2.500	398.0	-108.9	75	125	08/02/2023
Potassium		0.100		6.53	2.500	3.799	109.2	75	125	08/02/2023
Sodium		2.50	S	556	2.500	562.0	-240.0	75	125	08/03/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210298		SampType: MSD		Units mg/L			RPD Limit: 20			
SampID: 23070389-048CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	<b>592</b>	2.500	597.2	-214.8	591.2	0.11	08/02/2023
Magnesium		0.0500	S	<b>397</b>	2.500	398.0	-24.8	395.3	0.53	08/02/2023
Potassium		0.100		<b>6.53</b>	2.500	3.799	109.4	6.529	0.08	08/02/2023
Sodium		2.50	S	<b>562</b>	2.500	562.0	0	556.0	1.07	08/03/2023

Batch 210567		SampType: MBLK		Units mg/L						
SampID: MBLK-210567										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< <b>0.0250</b>	0.0127	0	0	-100	100	08/10/2023
Aluminum		0.0250		< <b>0.0250</b>	0.0127	0	0	-100	100	08/09/2023
Calcium		0.100		< <b>0.100</b>	0.0350	0	0	-100	100	08/10/2023
Iron		0.0400		< <b>0.0400</b>	0.0200	0	0	-100	100	08/10/2023
Iron		0.0400		< <b>0.0400</b>	0.0200	0	0	-100	100	08/09/2023
Magnesium		0.0500		< <b>0.0500</b>	0.0055	0	0	-100	100	08/09/2023
Manganese		0.0070		< <b>0.0070</b>	0.0025	0	0	-100	100	08/09/2023
Manganese		0.0070		< <b>0.0070</b>	0.0025	0	0	-100	100	08/10/2023
Potassium		0.100		< <b>0.100</b>	0.0400	0	0	-100	100	08/09/2023
Potassium		0.100		< <b>0.100</b>	0.0400	0	0	-100	100	08/10/2023
Silicon	*	0.0500		< <b>0.0500</b>	0.0122	0	0	-100	100	08/09/2023
Sodium		0.0500		< <b>0.0500</b>	0.0180	0	0	-100	100	08/09/2023
Sodium		0.0500		< <b>0.0500</b>	0.0180	0	0	-100	100	08/10/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210567 SampType: LCS Units mg/L

SampleID: LCS-210567

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.73	2.000	0	86.6	85	115	08/09/2023
Aluminum		0.0250		1.73	2.000	0	86.4	85	115	08/10/2023
Calcium		0.100		2.30	2.500	0	91.9	85	115	08/10/2023
Iron		0.0400		1.84	2.000	0	91.9	85	115	08/09/2023
Iron		0.0400		1.74	2.000	0	87.0	85	115	08/10/2023
Magnesium		0.0500		2.26	2.500	0	90.3	85	115	08/09/2023
Manganese		0.0070		0.461	0.5000	0	92.1	85	115	08/09/2023
Manganese		0.0070		0.431	0.5000	0	86.2	85	115	08/10/2023
Potassium		0.100		2.41	2.500	0	96.4	85	115	08/09/2023
Potassium		0.100		2.43	2.500	0	97.0	85	115	08/10/2023
Silicon	*	0.0500		0.425	0.5000	0	85.0	85	115	08/09/2023
Sodium		0.0500		2.24	2.500	0	89.6	85	115	08/10/2023
Sodium		0.0500		2.21	2.500	0	88.5	85	115	08/09/2023

Batch 210567 SampType: MS Units mg/L

SampleID: 23070389-038CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	66.0	2.500	64.96	39.6	75	125	08/09/2023
Magnesium		0.0500		27.1	2.500	25.20	75.4	75	125	08/09/2023
Potassium		0.100		2.61	2.500	0.2328	95.1	75	125	08/09/2023
Sodium		0.0500	S	100	2.500	100.8	-26.0	75	125	08/09/2023

Batch 210567 SampType: MSD Units mg/L

SampleID: 23070389-038CMSD

RPD Limit: 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	66.0	2.500	64.96	40.0	65.95	0.02	08/09/2023
Magnesium		0.0500		27.2	2.500	25.20	79.9	27.09	0.42	08/09/2023
Potassium		0.100		2.64	2.500	0.2328	96.2	2.611	1.01	08/09/2023
Sodium		0.0500	S	101	2.500	100.8	2.0	100.2	0.70	08/09/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 211013 SampType: MBLK Units mg/L  
SampID: MBLK-211013

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/18/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/18/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/18/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	08/18/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/18/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/18/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/18/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/18/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/18/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/18/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/18/2023

Batch 211013 SampType: LCS Units mg/L  
SampID: LCS-211013

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.71	2.000	0	85.5	85	115	08/18/2023
Calcium		0.100		2.28	2.500	0	91.1	85	115	08/18/2023
Iron		0.0400		1.77	2.000	0	88.3	85	115	08/18/2023
Lead		0.0150		0.448	0.5000	0	89.5	85	115	08/18/2023
Magnesium		0.0500		2.13	2.500	0	85.0	85	115	08/18/2023
Manganese		0.0070		0.440	0.5000	0	88.0	85	115	08/18/2023
Potassium		0.100		2.43	2.500	0	97.1	85	115	08/18/2023
Selenium		0.0400		0.445	0.5000	0	89.0	85	115	08/18/2023
Sodium		0.0500		2.26	2.500	0	90.5	85	115	08/18/2023
Vanadium		0.0100		0.442	0.5000	0	88.4	85	115	08/18/2023
Zinc		0.0100		0.445	0.5000	0	89.0	85	115	08/18/2023

Batch 211013 SampType: MS Units mg/L  
SampID: 23070389-112CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	59.3	2.500	59.96	-25.2	75	125	08/18/2023
Magnesium		0.0500		26.6	2.500	24.56	83.0	75	125	08/21/2023
Potassium		0.100		2.66	2.500	0.1760	99.2	75	125	08/18/2023
Sodium		0.0500		103	2.500	100.7	94.0	75	125	08/18/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 211013		SampType: MSD		Units mg/L		RPD Limit: 20				
SampID: 23070389-112CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	<b>60.5</b>	2.500	59.96	20.8	59.33	1.92	08/18/2023
Magnesium		0.0500		<b>26.7</b>	2.500	24.56	84.2	26.63	0.11	08/21/2023
Potassium		0.100		<b>2.59</b>	2.500	0.1760	96.4	2.657	2.74	08/18/2023
Sodium		0.0500	S	<b>98.8</b>	2.500	100.7	-75.2	103.0	4.19	08/18/2023

Batch 211033		SampType: MBLK		Units mg/L						
SampID: MBLK-211033										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< <b>0.0250</b>	0.0127	0	0	-100	100	08/18/2023
Antimony		0.0500		< <b>0.0500</b>	0.0068	0	0	-100	100	08/18/2023
Arsenic		0.0250		< <b>0.0250</b>	0.0087	0	0	-100	100	08/18/2023
Boron		0.0200		< <b>0.0200</b>	0.0090	0	0	-100	100	08/18/2023
Cadmium		0.0020		< <b>0.0020</b>	0.0005	0	0	-100	100	08/18/2023
Calcium		0.100		< <b>0.100</b>	0.0350	0	0	-100	100	08/18/2023
Chromium		0.0050		< <b>0.0050</b>	0.0028	0	0	-100	100	08/18/2023
Iron		0.0400		< <b>0.0400</b>	0.0200	0	0	-100	100	08/18/2023
Lead		0.0150		< <b>0.0150</b>	0.0014	0	0	-100	100	08/18/2023
Magnesium		0.0500		< <b>0.0500</b>	0.0055	0	0	-100	100	08/18/2023
Manganese		0.0070		< <b>0.0070</b>	0.0025	0	0	-100	100	08/18/2023
Potassium		0.100		< <b>0.100</b>	0.0400	0	0	-100	100	08/18/2023
Selenium		0.0400		< <b>0.0400</b>	0.0170	0	0	-100	100	08/18/2023
Silicon	*	0.0500		< <b>0.0500</b>	0.0122	0	0	-100	100	08/18/2023
Sodium		0.0500		< <b>0.0500</b>	0.0180	0	0	-100	100	08/18/2023
Vanadium		0.0100		< <b>0.0100</b>	0.0009	0	0	-100	100	08/18/2023
Zinc		0.0100		< <b>0.0100</b>	0.0050	0	0	-100	100	08/18/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 211033 SampType: LCS Units mg/L  
SampID: LCS-211033

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.72	2.000	0	86.2	85	115	08/18/2023
Antimony		0.0500		0.448	0.5000	0	89.5	85	115	08/18/2023
Arsenic		0.0250		0.464	0.5000	0	92.9	85	115	08/18/2023
Boron		0.0200		0.444	0.5000	0	88.8	85	115	08/18/2023
Cadmium		0.0020		0.0448	0.0500	0	89.6	85	115	08/18/2023
Calcium		0.100		2.33	2.500	0	93.4	85	115	08/18/2023
Chromium		0.0050		0.179	0.2000	0	89.3	85	115	08/18/2023
Iron		0.0400		1.80	2.000	0	89.8	85	115	08/18/2023
Lead		0.0150		0.454	0.5000	0	90.8	85	115	08/18/2023
Magnesium		0.0500		2.16	2.500	0	86.4	85	115	08/18/2023
Manganese		0.0070		0.445	0.5000	0	88.9	85	115	08/18/2023
Potassium		0.100		2.42	2.500	0	96.8	85	115	08/18/2023
Selenium		0.0400		0.448	0.5000	0	89.7	85	115	08/18/2023
Silicon	*	0.0500		0.472	0.5000	0	94.5	85	115	08/22/2023
Silicon	*	0.0500		0.460	0.5000	0	91.9	85	115	08/21/2023
Sodium		0.0500		2.26	2.500	0	90.4	85	115	08/18/2023
Vanadium		0.0100		0.447	0.5000	0	89.4	85	115	08/18/2023
Zinc		0.0100		0.449	0.5000	0	89.9	85	115	08/18/2023

Batch 211033 SampType: MS Units mg/L  
SampID: 23070389-117DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	480	2.500	491.9	-484.4	75	125	08/18/2023
Magnesium		0.0500	S	443	2.500	447.9	-206.9	75	125	08/18/2023
Potassium		0.100		9.26	2.500	6.709	102.1	75	125	08/18/2023
Silicon	*	0.0500	S	8.12	0.5000	7.889	46.2	75	125	08/18/2023
Sodium		0.0500	S	394	2.500	398.1	-169.2	75	125	08/18/2023

Batch 211033 SampType: MSD Units mg/L  
SampID: 23070389-117DMSD

RPD Limit: 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	469	2.500	491.9	-919.2	479.8	2.29	08/18/2023
Magnesium		0.0500	S	427	2.500	447.9	-852.3	442.7	3.71	08/18/2023
Potassium		0.100		8.97	2.500	6.709	90.3	9.261	3.24	08/18/2023
Silicon	*	0.0500	S	7.92	0.5000	7.889	5.3	8.120	2.55	08/18/2023
Sodium		0.0500	S	382	2.500	398.1	-624.0	393.8	2.93	08/18/2023





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 209945 SampType: MBLK Units mg/L

SampID: MBLK-209945

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	07/26/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	07/26/2023
Magnesium		0.0500		< 0.0500	0.0060	0	0	-100	100	07/26/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	07/26/2023
Silicon	*	0.0500	JS	0.031	0.0122	0	253.3	-100	100	07/26/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	07/26/2023

Batch 209945 SampType: LCS Units mg/L

SampID: LCS-209945

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.70	2.500	0	108.0	85	115	07/26/2023
Iron		0.0400		1.98	2.000	0	99.2	85	115	07/26/2023
Magnesium		0.0500		2.39	2.500	0	95.5	85	115	07/26/2023
Potassium		0.100		2.71	2.500	0	108.2	85	115	07/26/2023
Silicon	*	0.0500	B	0.500	0.5000	0	99.9	85	115	07/26/2023
Sodium		0.0500		2.51	2.500	0	100.6	85	115	07/26/2023

Batch 209945 SampType: MS Units mg/L

SampID: 23070389-103CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	29.2	2.500	27.59	64.8	75	125	07/26/2023
Magnesium		0.0500		2.46	2.500	0.2025	90.3	75	125	07/26/2023
Potassium		1.00	S	19.7	2.500	16.38	134.0	75	125	07/28/2023
Silicon	*	0.0500	B	4.30	0.5000	3.899	80.4	75	125	07/26/2023
Sodium		0.0500	S	69.2	2.500	69.09	5.6	75	125	07/26/2023

Batch 209945 SampType: MSD Units mg/L

SampID: 23070389-103CMSD

RPD Limit: 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	28.8	2.500	27.59	49.6	29.21	1.31	07/26/2023
Magnesium		0.0500		2.43	2.500	0.2025	89.0	2.460	1.29	07/26/2023
Potassium		1.00	S	20.4	2.500	16.38	162.2	19.73	3.51	07/28/2023
Silicon	*	0.0500	BS	4.24	0.5000	3.899	67.7	4.301	1.49	07/26/2023
Sodium		0.0500	S	68.8	2.500	69.09	-10.8	69.23	0.59	07/26/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210094 SampType: MBLK Units mg/L

SampleID: MBLK-210094

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/01/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/01/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/01/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/11/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/01/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/01/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/01/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/01/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/01/2023
Lead		0.0150		< 0.0150	0.0040	0	0	-100	100	08/01/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/01/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/01/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/01/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/01/2023
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	08/04/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/01/2023

Batch 210094 SampType: LCS Units mg/L

SampleID: LCS-210094

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.95	2.000	0	97.6	85	115	08/01/2023
Antimony		0.0500		0.504	0.5000	0	100.7	85	115	08/01/2023
Arsenic		0.0250		0.513	0.5000	0	102.5	85	115	08/01/2023
Boron		0.0200		0.493	0.5000	0	98.5	85	115	08/01/2023
Boron		0.0200		0.510	0.5000	0	101.9	85	115	08/11/2023
Cadmium		0.0020		0.0512	0.0500	0	102.4	85	115	08/01/2023
Calcium		0.100		2.56	2.500	0	102.2	85	115	08/01/2023
Chromium		0.0050		0.198	0.2000	0	98.8	85	115	08/01/2023
Iron		0.0400		1.97	2.000	0	98.7	85	115	08/01/2023
Lead		0.0150		0.498	0.5000	0	99.6	85	115	08/01/2023
Magnesium		0.0500		2.34	2.500	0	93.8	85	115	08/01/2023
Manganese		0.0070		0.491	0.5000	0	98.3	85	115	08/01/2023
Potassium		0.100		2.68	2.500	0	107.1	85	115	08/01/2023
Selenium		0.0400		0.482	0.5000	0	96.4	85	115	08/01/2023
Silicon	*	0.0500		0.439	0.5000	0	87.8	85	115	08/04/2023
Sodium		0.0500		2.53	2.500	0	101.2	85	115	08/01/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210094 SampType: MS Units mg/L

SampID: 23070389-010CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		57.8	5.000	53.71	82.2	75	125	08/01/2023
Magnesium		0.0500		29.0	5.000	24.74	85.9	75	125	08/01/2023
Potassium		0.100		6.48	5.000	1.420	101.1	75	125	08/01/2023
Silicon	*	0.0500	S	6.81	1.000	7.807	-100.2	75	125	08/04/2023
Sodium		0.0500	S	119	5.000	115.0	72.8	75	125	08/01/2023

Batch 210094 SampType: MSD Units mg/L

RPD Limit: 20

SampID: 23070389-010CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	57.2	5.000	53.71	70.2	57.82	1.04	08/01/2023
Magnesium		0.0500		28.7	5.000	24.74	80.2	29.03	0.98	08/01/2023
Potassium		0.100		6.38	5.000	1.420	99.1	6.475	1.56	08/01/2023
Silicon	*	0.0500	S	6.76	1.000	7.807	-104.6	6.805	0.65	08/04/2023
Sodium		0.0500	S	117	5.000	115.0	44.2	118.6	1.21	08/01/2023

Batch 210094 SampType: MS Units mg/L

SampID: 23070389-064CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	177	5.000	175.3	39.2	75	125	08/01/2023
Magnesium		0.0500		68.4	5.000	63.84	91.1	75	125	08/01/2023
Potassium		0.200		11.9	5.000	7.082	95.5	75	125	08/04/2023
Sodium		0.0500	S	101	5.000	97.49	69.6	75	125	08/01/2023

Batch 210094 SampType: MSD Units mg/L

RPD Limit: 20

SampID: 23070389-064CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	175	5.000	175.3	-1.4	177.3	1.15	08/01/2023
Magnesium		0.0500	S	67.1	5.000	63.84	66.0	68.40	1.85	08/01/2023
Potassium		0.200		12.1	5.000	7.082	101.0	11.86	2.33	08/04/2023
Sodium		0.0500		102	5.000	97.49	88.6	101.0	0.94	08/01/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210149 SampType: MBLK Units mg/L

SampID: MBLK-210149

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/03/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/03/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/03/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/03/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/03/2023

Batch 210149 SampType: LCS Units mg/L

SampID: LCS-210149

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.57	2.500	0	102.6	85	115	08/03/2023
Iron		0.0400		1.96	2.000	0	98.0	85	115	08/03/2023
Magnesium		0.0500		2.33	2.500	0	93.4	85	115	08/03/2023
Potassium		0.100		2.58	2.500	0	103.3	85	115	08/03/2023
Sodium		0.0500		2.47	2.500	0	98.8	85	115	08/03/2023

Batch 210149 SampType: MS Units mg/L

SampID: 23070389-068BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		5.00	S	1140	2.500	1159	-720.0	75	125	08/07/2023
Magnesium		2.50		11.2	2.500	8.715	99.2	75	125	08/07/2023
Potassium		50.0	S	1950	2.500	1943	182.0	75	125	08/08/2023
Sodium		5.00	S	15300	2.500	14890	15440	75	125	08/07/2023

Batch 210149 SampType: MSD Units mg/L

SampID: 23070389-068BMSD

RPD Limit: 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		5.00	S	1150	2.500	1159	-400.0	1141	0.70	08/07/2023
Magnesium		2.50		11.1	2.500	8.715	94.6	11.20	1.03	08/07/2023
Potassium		50.0	S	1970	2.500	1943	932.0	1948	0.96	08/08/2023
Sodium		5.00	S	15200	2.500	14890	12080	15280	0.55	08/07/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210259 SampType: MBLK Units mg/L

SampID: MBLK-210259

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/02/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/02/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/02/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/02/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/02/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/02/2023
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	08/02/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/02/2023

Batch 210259 SampType: LCS Units mg/L

SampID: LCS-210259

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.94	2.000	0	96.8	85	115	08/02/2023
Calcium		0.100		2.60	2.500	0	104.2	85	115	08/02/2023
Iron		0.0400		2.14	2.000	0	107.0	85	115	08/02/2023
Magnesium		0.0500		2.44	2.500	0	97.5	85	115	08/02/2023
Manganese		0.0070		0.515	0.5000	0	103.0	85	115	08/02/2023
Potassium		0.100		2.60	2.500	0	103.8	85	115	08/02/2023
Silicon	*	0.0500		0.438	0.5000	0	87.5	85	115	08/02/2023
Sodium		0.0500		2.46	2.500	0	98.4	85	115	08/02/2023

Batch 210259 SampType: MS Units mg/L

SampID: 23070389-014CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		144	5.000	139.8	92.2	75	125	08/02/2023
Magnesium		0.0500		72.5	5.000	67.27	104.4	75	125	08/02/2023
Potassium		0.100		6.48	5.000	1.499	99.5	75	125	08/02/2023
Silicon	*	0.0500		8.61	1.000	7.669	94.2	75	125	08/02/2023
Sodium		0.0500	S	118	5.000	111.9	129.8	75	125	08/02/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210259		SampType: MSD		Units mg/L			RPD Limit: 20				
SampID: 23070389-014CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Calcium		0.100	S	<b>146</b>	5.000	139.8	126.8	144.4	1.19	08/02/2023	
Magnesium		0.0500	S	<b>73.7</b>	5.000	67.27	128.3	72.49	1.64	08/02/2023	
Potassium		0.100		<b>6.52</b>	5.000	1.499	100.4	6.475	0.69	08/02/2023	
Silicon	*	0.0500		<b>8.90</b>	1.000	7.669	122.9	8.610	3.28	08/02/2023	
Sodium		0.0500	S	<b>121</b>	5.000	111.9	181.4	118.4	2.16	08/02/2023	

Batch 210307		SampType: MBLK		Units mg/L							
SampID: MBLK-210307											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		0.0250		< <b>0.0250</b>	0.0127	0	0	-100	100	08/04/2023	
Antimony		0.0500		< <b>0.0500</b>	0.0068	0	0	-100	100	08/04/2023	
Arsenic		0.0250		< <b>0.0250</b>	0.0087	0	0	-100	100	08/04/2023	
Barium		0.0025		< <b>0.0025</b>	0.0007	0	0	-100	100	08/04/2023	
Beryllium		0.0005		< <b>0.0005</b>	0.0002	0	0	-100	100	08/04/2023	
Boron		0.0200		< <b>0.0200</b>	0.0090	0	0	-100	100	08/04/2023	
Cadmium		0.0020	J	<b>0.0005</b>	0.0005	0	100.0	-100	100	08/04/2023	
Calcium		0.100		< <b>0.100</b>	0.0350	0	0	-100	100	08/04/2023	
Chromium		0.0050		< <b>0.0050</b>	0.0028	0	0	-100	100	08/04/2023	
Cobalt		0.0050		< <b>0.0050</b>	0.0020	0	0	-100	100	08/04/2023	
Iron		0.0400		< <b>0.0400</b>	0.0200	0	0	-100	100	08/04/2023	
Lead		0.0150		< <b>0.0150</b>	0.0014	0	0	-100	100	08/04/2023	
Magnesium		0.0500		< <b>0.0500</b>	0.0055	0	0	-100	100	08/04/2023	
Manganese		0.0070		< <b>0.0070</b>	0.0025	0	0	-100	100	08/04/2023	
Molybdenum		0.0100		< <b>0.0100</b>	0.0037	0	0	-100	100	08/04/2023	
Potassium		0.100		< <b>0.100</b>	0.0400	0	0	-100	100	08/04/2023	
Selenium		0.0400		< <b>0.0400</b>	0.0170	0	0	-100	100	08/04/2023	
Silicon	*	0.0500		< <b>0.0500</b>	0.0122	0	0	-100	100	08/04/2023	
Sodium		0.0500		< <b>0.0500</b>	0.0180	0	0	-100	100	08/04/2023	
Thallium		0.0500		< <b>0.0500</b>	0.0111	0	0	-100	100	08/04/2023	





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210307 SampType: LCS Units mg/L

SampID: LCS-210307

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		<b>1.78</b>	2.000	0	88.9	85	115	08/04/2023
Antimony		0.0500		<b>0.477</b>	0.5000	0	95.4	85	115	08/04/2023
Arsenic		0.0250		<b>0.488</b>	0.5000	0	97.5	85	115	08/04/2023
Barium		0.0025		<b>1.87</b>	2.000	0	93.7	85	115	08/04/2023
Beryllium		0.0005		<b>0.0467</b>	0.0500	0	93.4	85	115	08/04/2023
Boron		0.0200		<b>0.467</b>	0.5000	0	93.4	85	115	08/04/2023
Cadmium		0.0020		<b>0.0471</b>	0.0500	0	94.2	85	115	08/04/2023
Calcium		0.100		<b>2.46</b>	2.500	0	98.2	85	115	08/04/2023
Chromium		0.0050		<b>0.184</b>	0.2000	0	92.2	85	115	08/04/2023
Cobalt		0.0050		<b>0.470</b>	0.5000	0	94.0	85	115	08/04/2023
Iron		0.0400		<b>1.85</b>	2.000	0	92.3	85	115	08/04/2023
Lead		0.0150		<b>0.471</b>	0.5000	0	94.1	85	115	08/04/2023
Magnesium		0.0500		<b>2.33</b>	2.500	0	93.4	85	115	08/04/2023
Manganese		0.0070		<b>0.461</b>	0.5000	0	92.2	85	115	08/04/2023
Molybdenum		0.0100		<b>0.456</b>	0.5000	0	91.3	85	115	08/04/2023
Potassium		0.100		<b>2.52</b>	2.500	0	100.9	85	115	08/04/2023
Selenium		0.0400		<b>0.467</b>	0.5000	0	93.5	85	115	08/04/2023
Silicon	*	0.0500		<b>0.471</b>	0.5000	0	94.3	85	115	08/04/2023
Sodium		0.0500		<b>2.32</b>	2.500	0	92.7	85	115	08/04/2023
Thallium		0.0500		<b>0.242</b>	0.2500	0	96.8	85	115	08/04/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210307		SampType: LCSD		Units mg/L				RPD Limit: 20			
SampID: LCSD-210307											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Aluminum		0.0250		1.81	2.000	0	90.7	1.779	2.01	08/04/2023	
Antimony		0.0500		0.483	0.5000	0	96.6	0.4769	1.27	08/04/2023	
Arsenic		0.0250		0.506	0.5000	0	101.2	0.4875	3.70	08/04/2023	
Barium		0.0025		1.91	2.000	0	95.6	1.875	1.91	08/04/2023	
Beryllium		0.0005		0.0476	0.0500	0	95.2	0.04670	1.91	08/04/2023	
Boron		0.0200		0.478	0.5000	0	95.5	0.4669	2.29	08/04/2023	
Cadmium		0.0020		0.0484	0.0500	0	96.8	0.04710	2.72	08/04/2023	
Calcium		0.100		2.47	2.500	0	98.9	2.455	0.67	08/04/2023	
Chromium		0.0050		0.188	0.2000	0	94.1	0.1844	1.99	08/04/2023	
Cobalt		0.0050		0.481	0.5000	0	96.2	0.4701	2.29	08/04/2023	
Iron		0.0400		1.90	2.000	0	94.9	1.845	2.81	08/04/2023	
Lead		0.0150		0.482	0.5000	0	96.3	0.4706	2.33	08/04/2023	
Magnesium		0.0500		2.39	2.500	0	95.6	2.335	2.34	08/04/2023	
Manganese		0.0070		0.470	0.5000	0	94.1	0.4610	2.04	08/04/2023	
Molybdenum		0.0100		0.466	0.5000	0	93.2	0.4563	2.08	08/04/2023	
Potassium		0.100		2.56	2.500	0	102.3	2.523	1.38	08/04/2023	
Selenium		0.0400		0.476	0.5000	0	95.1	0.4673	1.74	08/04/2023	
Silicon	*	0.0500		0.479	0.5000	0	95.8	0.4714	1.58	08/04/2023	
Sodium		0.0500		2.35	2.500	0	93.9	2.317	1.35	08/04/2023	
Thallium		0.0500		0.244	0.2500	0	97.8	0.2419	1.07	08/04/2023	

Batch 210307		SampType: MS		Units mg/L							
SampID: 23070389-025BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100	S	114	5.000	26.12	1766	75	125	08/04/2023	
Potassium		0.100	S	8.29	5.000	0.8466	149.0	75	125	08/07/2023	
Sodium		0.0500	S	197	5.000	45.61	3019	75	125	08/04/2023	

Batch 210307		SampType: MSD		Units mg/L				RPD Limit: 20			
SampID: 23070389-025BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Calcium		0.100	S	119	5.000	26.12	1860	114.4	4.02	08/04/2023	
Potassium		0.100	S	8.46	5.000	0.8466	152.3	8.294	1.99	08/07/2023	
Sodium		0.0500	S	205	5.000	45.61	3186	196.6	4.14	08/04/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210483 SampType: MBLK Units mg/L

SampID: MBLK-210483

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/08/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/08/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/08/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/08/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/08/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/08/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/08/2023
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	08/08/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/08/2023

Batch 210483 SampType: LCS Units mg/L

SampID: LCS-210483

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0200		0.484	0.5000	0	96.7	85	115	08/08/2023
Calcium		0.100		2.51	2.500	0	100.5	85	115	08/08/2023
Iron		0.0400		1.94	2.000	0	97.1	85	115	08/08/2023
Magnesium		0.0500		2.33	2.500	0	93.1	85	115	08/08/2023
Manganese		0.0070		0.480	0.5000	0	96.1	85	115	08/08/2023
Molybdenum		0.0100		0.475	0.5000	0	95.0	85	115	08/08/2023
Potassium		0.100		2.60	2.500	0	104.2	85	115	08/08/2023
Silicon	*	0.0500		0.505	0.5000	0	101.0	85	115	08/08/2023
Sodium		0.0500		2.43	2.500	0	97.2	85	115	08/08/2023

Batch 210483 SampType: LCSD Units mg/L

RPD Limit: 20

SampID: LCSD-210483

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Boron		0.0200		0.495	0.5000	0	98.9	0.4836	2.27	08/08/2023
Calcium		0.100		2.57	2.500	0	103.0	2.512	2.46	08/08/2023
Iron		0.0400		1.97	2.000	0	98.4	1.942	1.27	08/08/2023
Magnesium		0.0500		2.35	2.500	0	94.1	2.328	1.06	08/08/2023
Manganese		0.0070		0.490	0.5000	0	98.1	0.4804	2.04	08/08/2023
Molybdenum		0.0100		0.480	0.5000	0	96.1	0.4748	1.15	08/08/2023
Potassium		0.100		2.64	2.500	0	105.6	2.604	1.31	08/08/2023
Silicon	*	0.0500		0.511	0.5000	0	102.2	0.5048	1.18	08/08/2023
Sodium		0.0500		2.47	2.500	0	98.7	2.430	1.57	08/08/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210625 SampType: MBLK Units mg/L

SampID: MBLK-210625

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/14/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/10/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/10/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/10/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/10/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/10/2023
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	08/14/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/10/2023

Batch 210625 SampType: LCS Units mg/L

SampID: LCS-210625

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.45	2.500	0	98.2	85	115	08/10/2023
Calcium		0.100		2.53	2.500	0	101.1	85	115	08/14/2023
Iron		0.0400		1.93	2.000	0	96.7	85	115	08/10/2023
Magnesium		0.0500		2.30	2.500	0	92.2	85	115	08/10/2023
Manganese		0.0070		0.465	0.5000	0	92.9	85	115	08/10/2023
Potassium		0.100		2.54	2.500	0	101.7	85	115	08/10/2023
Silicon	*	0.0500		0.528	0.5000	0	105.5	85	115	08/14/2023
Sodium		0.0500		2.37	2.500	0	94.8	85	115	08/10/2023

Batch 210625 SampType: LCSD Units mg/L

RPD Limit: 20

SampID: LCSD-210625

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		2.45	2.500	0	98.0	2.454	0.20	08/10/2023
Calcium		0.100		2.47	2.500	0	98.6	2.528	2.48	08/14/2023
Iron		0.0400		1.90	2.000	0	95.1	1.934	1.63	08/10/2023
Magnesium		0.0500		2.29	2.500	0	91.7	2.304	0.53	08/10/2023
Manganese		0.0070		0.460	0.5000	0	92.0	0.4646	1.04	08/10/2023
Potassium		0.100		2.52	2.500	0	101.0	2.542	0.73	08/10/2023
Silicon	*	0.0500		0.511	0.5000	0	102.3	0.5275	3.12	08/14/2023
Sodium		0.0500		2.35	2.500	0	93.9	2.371	0.99	08/10/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 211012 SampType: MBLK Units mg/L

SampleID: MBLK-211012

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/18/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/18/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/18/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/18/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/18/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/18/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/18/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/18/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/18/2023
Lead		0.0150		< 0.0150	0.0040	0	0	-100	100	08/18/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/18/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/18/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/18/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/18/2023
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	08/18/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/18/2023

Batch 211012 SampType: LCS Units mg/L

SampleID: LCS-211012

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.94	2.000	0	97.2	85	115	08/18/2023
Antimony		0.0500		0.514	0.5000	0	102.8	85	115	08/18/2023
Arsenic		0.0250		0.538	0.5000	0	107.5	85	115	08/18/2023
Barium		0.0025		2.03	2.000	0	101.5	85	115	08/18/2023
Boron		0.0200		0.503	0.5000	0	100.5	85	115	08/18/2023
Cadmium		0.0020		0.0504	0.0500	0	100.8	85	115	08/18/2023
Calcium		0.100		2.62	2.500	0	105.0	85	115	08/18/2023
Chromium		0.0050		0.202	0.2000	0	100.8	85	115	08/18/2023
Iron		0.0400		2.07	2.000	0	103.5	85	115	08/18/2023
Lead		0.0150		0.513	0.5000	0	102.6	85	115	08/18/2023
Magnesium		0.0500		2.47	2.500	0	98.9	85	115	08/18/2023
Manganese		0.0070		0.505	0.5000	0	101.0	85	115	08/18/2023
Potassium		0.100		2.64	2.500	0	105.4	85	115	08/18/2023
Selenium		0.0400		0.518	0.5000	0	103.5	85	115	08/18/2023
Silicon	*	0.0500		0.454	0.5000	0	90.8	85	115	08/18/2023
Sodium		0.0500		2.53	2.500	0	101.0	85	115	08/18/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 211012 SampType: MS Units mg/L

SampID: 23070389-114CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		125	2.500	122.4	111.6	75	125	08/18/2023
Magnesium		0.0500		47.0	2.500	44.62	94.6	75	125	08/18/2023
Potassium		0.100		5.78	2.500	3.161	104.8	75	125	08/18/2023
Sodium		0.0500		90.1	2.500	87.99	85.2	75	125	08/18/2023

Batch 211012 SampType: MSD Units mg/L

SampID: 23070389-114CMSD

RPD Limit: 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	127	2.500	122.4	174.8	125.2	1.25	08/18/2023
Magnesium		0.0500		47.7	2.500	44.62	121.8	46.98	1.44	08/18/2023
Potassium		0.100		5.70	2.500	3.161	101.7	5.780	1.35	08/18/2023
Sodium		0.0500		90.2	2.500	87.99	88.0	90.12	0.08	08/18/2023

Batch 211034 SampType: MBLK Units mg/L

SampID: MBLK-211034

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/21/2023
Calcium		0.100	JS	0.051	0.0350	0	146.6	-100	100	08/21/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/21/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/21/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/21/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/21/2023
Silicon	*	0.0500	JS	0.030	0.0122	0	246.7	-100	100	08/23/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/21/2023

Batch 211034 SampType: LCS Units mg/L

SampID: LCS-211034

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		2.03	2.000	0	101.5	85	115	08/21/2023
Calcium		0.100	B	2.76	2.500	0	110.2	85	115	08/21/2023
Iron		0.0400		2.11	2.000	0	105.5	85	115	08/21/2023
Magnesium		0.0500		2.49	2.500	0	99.7	85	115	08/21/2023
Manganese		0.0070		0.520	0.5000	0	104.1	85	115	08/21/2023
Potassium		0.100		2.75	2.500	0	109.9	85	115	08/21/2023
Silicon	*	0.0500	B	0.542	0.5000	0	108.4	85	115	08/23/2023
Sodium		0.0500		2.58	2.500	0	103.0	85	115	08/21/2023





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 211213 SampType: MBLK Units mg/L

SampID: MBLK-211213

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/23/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/23/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/23/2023
Potassium		0.100	JS	0.044	0.0400	0	109.8	-100	100	08/23/2023
Silicon	*	0.0500	JS	0.038	0.0122	0	309.0	-100	100	08/23/2023
Sodium		0.0500	JS	0.045	0.0180	0	251.1	-100	100	08/23/2023

Batch 211213 SampType: LCS Units mg/L

SampID: LCS-211213

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.76	2.500	0	110.4	85	115	08/23/2023
Iron		0.0400		2.12	2.000	0	106.0	85	115	08/23/2023
Magnesium		0.0500		2.50	2.500	0	100.0	85	115	08/23/2023
Potassium		0.100	B	2.70	2.500	0	107.9	85	115	08/23/2023
Silicon	*	0.0500	B	0.537	0.5000	0	107.4	85	115	08/23/2023
Sodium		0.0500	B	2.58	2.500	0	103.1	85	115	08/23/2023

Batch 211213 SampType: MS Units mg/L

SampID: 23070389-116CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	492	5.000	475.1	337.0	75	125	08/23/2023
Magnesium		0.0500	S	449	5.000	429.2	403.1	75	125	08/23/2023
Potassium		0.100	E	11.8	5.000	6.434	106.9	75	125	08/23/2023
Silicon	*	0.0500	BS	10.3	1.000	8.979	133.3	75	125	08/23/2023
Sodium		0.0500	BS	408	5.000	393.8	284.0	75	125	08/23/2023

Batch 211213 SampType: MSD Units mg/L

SampID: 23070389-116CMSD

RPD Limit: 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	490	5.000	475.1	302.2	492.0	0.35	08/23/2023
Magnesium		0.0500	S	446	5.000	429.2	338.6	449.3	0.72	08/23/2023
Potassium		0.100	E	11.7	5.000	6.434	104.5	11.78	1.04	08/23/2023
Silicon	*	0.0500	BS	10.4	1.000	8.979	141.8	10.31	0.82	08/23/2023
Sodium		0.0500	BS	404	5.000	393.8	206.2	408.0	0.96	08/23/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 212096 SampType: MBLK Units mg/L

SampID: MBLK-212096

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	09/19/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	09/19/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	09/19/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	09/19/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	09/19/2023

Batch 212096 SampType: LCS Units mg/L

SampID: LCS-212096

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.54	2.500	0	101.7	85	115	09/19/2023
Iron		0.0400		1.98	2.000	0	99.2	85	115	09/19/2023
Magnesium		0.0500		2.38	2.500	0	95.2	85	115	09/19/2023
Potassium		0.100		2.58	2.500	0	103.3	85	115	09/19/2023
Sodium		0.0500		2.40	2.500	0	96.0	85	115	09/19/2023

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210037 SampType: MBLK Units mg/L

SampID: MBLK-210037

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/16/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	07/29/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	07/29/2023
Boron		0.0250	JS	0.024	0.0093	0	254.0	-100	100	07/29/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	07/29/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	07/29/2023
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	09/16/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	07/29/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/16/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	07/29/2023
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	07/29/2023
Zinc		0.0132		< 0.0132	0.0059	0	0	-100	100	09/16/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210037 SampType: LCS Units mg/L

SampID: LCS-210037

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.99	2.000	0	99.5	80	120	09/16/2023
Aluminum		0.0250	B	1.97	2.000	0	98.6	80	120	07/31/2023
Antimony		0.0010		0.476	0.5000	0	95.2	80	120	07/29/2023
Arsenic		0.0010		0.513	0.5000	0	102.5	80	120	07/29/2023
Boron		0.0250	B	0.478	0.5000	0	95.7	80	120	07/29/2023
Cadmium		0.0010		0.0477	0.0500	0	95.5	80	120	07/29/2023
Chromium		0.0015		0.187	0.2000	0	93.6	80	120	07/29/2023
Iron		0.0250		1.76	2.000	0	88.0	80	120	07/31/2023
Iron		0.0250		1.96	2.000	0	97.8	80	120	09/16/2023
Lead		0.0010		0.481	0.5000	0	96.2	80	120	07/29/2023
Manganese		0.0020		0.451	0.5000	0	90.3	80	120	07/31/2023
Manganese		0.0020		0.502	0.5000	0	100.3	80	120	09/16/2023
Selenium		0.0010		0.485	0.5000	0	97.0	80	120	07/31/2023
Vanadium		0.0050		0.461	0.5000	0	92.3	80	120	07/29/2023
Zinc		0.0132	B	0.408	0.5000	0	81.5	80	120	07/31/2023
Zinc		0.0132		0.414	0.5000	0	82.7	80	120	09/16/2023

Batch 210037 SampType: MS Units mg/L

SampID: 23070389-009DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.88	2.000	0.01332	93.4	75	125	09/16/2023
Iron		0.0250		1.90	2.000	0.05624	92.3	75	125	09/16/2023
Manganese		0.0020		0.889	0.5000	0.4182	94.2	75	125	09/16/2023

Batch 210037 SampType: MSD Units mg/L

RPD Limit: 20

SampID: 23070389-009DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		1.88	2.000	0.01332	93.3	1.882	0.09	09/16/2023
Iron		0.0250		1.89	2.000	0.05624	91.7	1.902	0.63	09/16/2023
Manganese		0.0020		0.884	0.5000	0.4182	93.1	0.8891	0.60	09/16/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210142 SampType: MBLK Units mg/L

SampID: MBLK-210142

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/18/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/03/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/18/2023
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	09/18/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/16/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/18/2023
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	09/18/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/16/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/18/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/03/2023
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/03/2023
Zinc		0.0132		< 0.0132	0.0059	0	0	-100	100	09/16/2023

Batch 210142 SampType: LCS Units mg/L

SampID: LCS-210142

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		2.00	2.000	0	99.8	80	120	09/18/2023
Antimony		0.0010		0.433	0.5000	0	86.6	80	120	08/03/2023
Arsenic		0.0010		0.484	0.5000	0	96.8	80	120	09/18/2023
Boron		0.0250		0.470	0.5000	0	94.0	80	120	09/18/2023
Cadmium		0.0010		0.0455	0.0500	0	90.9	80	120	09/16/2023
Chromium		0.0015		0.194	0.2000	0	97.2	80	120	09/18/2023
Iron		0.0250		1.94	2.000	0	97.1	80	120	09/18/2023
Lead		0.0010		0.488	0.5000	0	97.6	80	120	09/16/2023
Manganese		0.0020		0.492	0.5000	0	98.4	80	120	09/18/2023
Selenium		0.0010		0.447	0.5000	0	89.5	80	120	08/03/2023
Vanadium		0.0050		0.429	0.5000	0	85.8	80	120	08/03/2023
Zinc		0.0132		0.410	0.5000	0	82.0	80	120	09/16/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210142 SampType: MS

Units mg/L

SampID: 23070389-043CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		<b>0.532</b>	0.5000	0.001317	106.2	75	125	09/18/2023
Boron		0.0250	S	<b>0.870</b>	0.5000	0.1308	147.9	75	125	09/18/2023
Cadmium		0.0010		<b>0.0445</b>	0.0500	0	89.0	75	125	09/16/2023
Chromium		0.0015		<b>0.215</b>	0.2000	0.001789	106.5	75	125	09/18/2023
Iron		0.0250	S	<b>1.96</b>	2.000	0.7345	61.5	75	125	09/18/2023
Lead		0.0010		<b>0.498</b>	0.5000	0	99.6	75	125	09/16/2023
Manganese		0.0080	S	<b>1.80</b>	0.5000	2.459	-131.8	75	125	09/18/2023
Selenium		0.0010		<b>0.461</b>	0.5000	0	92.2	75	125	08/03/2023
Zinc		0.0132		<b>0.386</b>	0.5000	0	77.2	75	125	09/16/2023

Batch 210142 SampType: MSD

Units mg/L

RPD Limit: 20

SampID: 23070389-043CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0010		<b>0.491</b>	0.5000	0.001317	97.9	0.5323	8.12	09/18/2023
Boron		0.0250	S	<b>0.855</b>	0.5000	0.1308	144.8	0.8704	1.80	09/18/2023
Cadmium		0.0010		<b>0.0447</b>	0.0500	0	89.4	0.04451	0.46	09/16/2023
Chromium		0.0015		<b>0.186</b>	0.2000	0.001789	92.2	0.2149	14.32	09/18/2023
Iron		0.0250	S	<b>1.88</b>	2.000	0.7345	57.5	1.964	4.15	09/18/2023
Lead		0.0010		<b>0.505</b>	0.5000	0	100.9	0.4981	1.31	09/16/2023
Manganese		0.0080	S	<b>1.83</b>	0.5000	2.459	-125.5	1.800	1.73	09/18/2023
Selenium		0.0010		<b>0.467</b>	0.5000	0	93.3	0.4611	1.21	08/03/2023
Zinc		0.0132		<b>0.392</b>	0.5000	0	78.4	0.3861	1.51	09/16/2023

Batch 210298 SampType: MBLK

Units mg/L

SampID: MBLK-210298

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< <b>0.0250</b>	0.0125	0	0	-100	100	09/16/2023
Arsenic		0.0010		< <b>0.0010</b>	0.0004	0	0	-100	100	09/16/2023
Boron		0.0250		< <b>0.0250</b>	0.0093	0	0	-100	100	09/16/2023
Cadmium		0.0010		< <b>0.0010</b>	0.0001	0	0	-100	100	09/16/2023
Chromium		0.0015		< <b>0.0015</b>	0.0007	0	0	-100	100	09/16/2023
Iron		0.0250		< <b>0.0250</b>	0.0115	0	0	-100	100	09/16/2023
Lead		0.0010		< <b>0.0010</b>	0.0006	0	0	-100	100	09/16/2023
Manganese		0.0020		< <b>0.0020</b>	0.0008	0	0	-100	100	09/16/2023
Selenium		0.0010		< <b>0.0010</b>	0.0006	0	0	-100	100	08/04/2023
Zinc		0.0132		< <b>0.0132</b>	0.0059	0	0	-100	100	09/16/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210298 SampType: LCS Units mg/L

SampleID: LCS-210298

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.86	2.000	0	92.8	80	120	09/16/2023
Arsenic		0.0010		0.478	0.5000	0	95.5	80	120	09/16/2023
Boron		0.0250		0.413	0.5000	0	82.5	80	120	09/16/2023
Cadmium		0.0010		0.0431	0.0500	0	86.3	80	120	09/16/2023
Chromium		0.0015		0.182	0.2000	0	90.8	80	120	09/16/2023
Iron		0.0250		1.82	2.000	0	91.0	80	120	09/16/2023
Lead		0.0010		0.460	0.5000	0	92.1	80	120	09/16/2023
Manganese		0.0020		0.471	0.5000	0	94.2	80	120	09/16/2023
Selenium		0.0010		0.410	0.5000	0	82.1	80	120	08/04/2023
Zinc		0.0132		0.547	0.5000	0	109.4	80	120	09/19/2023

Batch 210298 SampType: MS Units mg/L

SampleID: 23070389-048CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		0.510	0.5000	0.0005942	102.0	75	125	09/16/2023
Boron		0.0250	S	0.504	0.5000	0.5350	-6.1	75	125	09/18/2023
Cadmium		0.0010		0.0441	0.0500	0	88.1	75	125	09/16/2023
Chromium		0.0015		0.181	0.2000	0.0007327	90.2	75	125	09/16/2023
Iron		0.0250		1.86	2.000	0.04155	91.0	75	125	09/16/2023
Lead		0.0010		0.510	0.5000	0	102.1	75	125	09/16/2023
Manganese		0.0080		2.09	0.5000	1.617	94.3	75	125	09/18/2023
Selenium		0.0010		0.439	0.5000	0	87.8	75	125	08/04/2023
Zinc		0.0132		0.419	0.5000	0	83.8	75	125	09/19/2023

Batch 210298 SampType: MSD Units mg/L

RPD Limit: 20

SampleID: 23070389-048CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0010		0.498	0.5000	0.0005942	99.6	0.5105	2.38	09/16/2023
Boron		0.0250	S	0.509	0.5000	0.5350	-5.2	0.5043	0.90	09/18/2023
Cadmium		0.0010		0.0411	0.0500	0	82.2	0.04406	6.96	09/16/2023
Chromium		0.0015		0.178	0.2000	0.0007327	88.7	0.1811	1.65	09/16/2023
Iron		0.0250		1.78	2.000	0.04155	87.1	1.861	4.30	09/16/2023
Lead		0.0010		0.491	0.5000	0	98.1	0.5104	3.95	09/16/2023
Manganese		0.0080		2.15	0.5000	1.617	106.3	2.088	2.82	09/18/2023
Selenium		0.0010		0.436	0.5000	0	87.2	0.4390	0.72	08/04/2023
Zinc		0.0132		0.401	0.5000	0	80.1	0.4188	4.40	09/19/2023





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210567 SampType: MBLK Units mg/L

SampID: MBLK-210567

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/10/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/11/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/10/2023
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	09/10/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/10/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/10/2023
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	09/10/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/10/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/10/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/11/2023
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/11/2023
Zinc		0.0132		< 0.0132	0.0059	0	0	-100	100	09/10/2023

Batch 210567 SampType: LCS Units mg/L

SampID: LCS-210567

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		2.02	2.000	0	100.8	80	120	09/11/2023
Antimony		0.0010		0.462	0.5000	0	92.3	80	120	08/11/2023
Arsenic		0.0010		0.506	0.5000	0	101.2	80	120	09/11/2023
Boron		0.0250		0.470	0.5000	0	94.0	80	120	09/11/2023
Cadmium		0.0010		0.0480	0.0500	0	96.0	80	120	09/11/2023
Chromium		0.0015		0.195	0.2000	0	97.3	80	120	09/11/2023
Iron		0.0250		2.01	2.000	0	100.5	80	120	09/11/2023
Lead		0.0010		0.501	0.5000	0	100.3	80	120	09/11/2023
Manganese		0.0020		0.524	0.5000	0	104.9	80	120	09/14/2023
Selenium		0.0010		0.429	0.5000	0	85.8	80	120	08/11/2023
Vanadium		0.0050		0.453	0.5000	0	90.7	80	120	08/11/2023
Zinc		0.0132		0.466	0.5000	0	93.3	80	120	09/14/2023
Zinc		0.0132		0.440	0.5000	0	87.9	80	120	09/14/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210567 SampType: MS Units mg/L

SampID: 23070389-038CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		<b>0.488</b>	0.5000	0	97.6	75	125	09/14/2023
Boron		0.0250		<b>0.486</b>	0.5000	0	97.3	75	125	09/14/2023
Cadmium		0.0010		<b>0.0460</b>	0.0500	0	92.0	75	125	09/14/2023
Chromium		0.0015		<b>0.187</b>	0.2000	0	93.6	75	125	09/14/2023
Iron		0.0250		<b>1.96</b>	2.000	0.09896	92.8	75	125	09/14/2023
Lead		0.0010		<b>0.499</b>	0.5000	0	99.9	75	125	09/14/2023
Manganese		0.0020		<b>0.495</b>	0.5000	0.01423	96.3	75	125	09/14/2023
Selenium		0.0010		<b>0.435</b>	0.5000	0	87.1	75	125	08/11/2023
Zinc		0.0132		<b>0.451</b>	0.5000	0.007144	88.8	75	125	09/14/2023

Batch 210567 SampType: MSD Units mg/L

RPD Limit: 20

SampID: 23070389-038CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0010		<b>0.517</b>	0.5000	0	103.3	0.4878	5.73	09/14/2023
Boron		0.0250		<b>0.496</b>	0.5000	0	99.2	0.4863	1.95	09/14/2023
Cadmium		0.0010		<b>0.0488</b>	0.0500	0	97.7	0.04598	6.02	09/14/2023
Chromium		0.0015		<b>0.195</b>	0.2000	0	97.3	0.1873	3.79	09/14/2023
Iron		0.0250		<b>2.04</b>	2.000	0.09896	97.2	1.955	4.38	09/14/2023
Lead		0.0010		<b>0.509</b>	0.5000	0	101.8	0.4993	1.93	09/14/2023
Manganese		0.0020		<b>0.515</b>	0.5000	0.01423	100.2	0.4955	3.86	09/14/2023
Selenium		0.0010		<b>0.436</b>	0.5000	0	87.2	0.4353	0.19	08/11/2023
Zinc		0.0132		<b>0.439</b>	0.5000	0.007144	86.4	0.4509	2.68	09/14/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 211013 SampType: MBLK Units mg/L

SampleID: MBLK-211013

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/16/2023
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	09/08/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/08/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/08/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/16/2023
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	09/16/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/08/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/08/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/30/2023
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/30/2023
Zinc		0.0132		< 0.0132	0.0059	0	0	-100	100	09/08/2023

Batch 211013 SampType: LCS Units mg/L

SampleID: LCS-211013

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.454	0.5000	0	90.8	80	120	08/30/2023
Arsenic		0.0010		0.536	0.5000	0	107.3	80	120	09/16/2023
Boron		0.0250		0.467	0.5000	0	93.3	80	120	09/08/2023
Cadmium		0.0010		0.0481	0.0500	0	96.3	80	120	09/08/2023
Chromium		0.0015		0.205	0.2000	0	102.3	80	120	09/16/2023
Iron		0.0250		2.05	2.000	0	102.5	80	120	09/16/2023
Lead		0.0010		0.493	0.5000	0	98.5	80	120	09/08/2023
Manganese		0.0020		0.500	0.5000	0	100.1	80	120	09/08/2023
Selenium		0.0010		0.438	0.5000	0	87.6	80	120	08/30/2023
Vanadium		0.0050		0.454	0.5000	0	90.8	80	120	08/30/2023
Zinc		0.0132		0.411	0.5000	0	82.1	80	120	09/08/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 211013		SampType: MS		Units mg/L						
SampID: 23070389-112CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		<b>0.569</b>	0.5000	0	113.9	75	125	09/16/2023
Boron		0.0250		<b>0.507</b>	0.5000	0.01606	98.1	75	125	09/08/2023
Cadmium		0.0010		<b>0.0491</b>	0.0500	0	98.3	75	125	09/08/2023
Chromium		0.0015		<b>0.217</b>	0.2000	0	108.3	75	125	09/16/2023
Iron		0.0250		<b>2.20</b>	2.000	0.02158	109.1	75	125	09/16/2023
Lead		0.0010		<b>0.505</b>	0.5000	0	101.1	75	125	09/08/2023
Manganese		0.0020		<b>0.517</b>	0.5000	0.02366	98.8	75	125	09/08/2023
Selenium		0.0010		<b>0.438</b>	0.5000	0	87.5	75	125	08/30/2023
Zinc		0.0132		<b>0.390</b>	0.5000	0	78.0	75	125	09/08/2023

Batch 211013		SampType: MSD		Units mg/L		RPD Limit: 20				
SampID: 23070389-112CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0010		<b>0.567</b>	0.5000	0	113.3	0.5693	0.46	09/16/2023
Boron		0.0250		<b>0.489</b>	0.5000	0.01606	94.7	0.5067	3.46	09/08/2023
Cadmium		0.0010		<b>0.0505</b>	0.0500	0	101.0	0.04914	2.77	09/08/2023
Chromium		0.0015		<b>0.219</b>	0.2000	0	109.6	0.2166	1.21	09/16/2023
Iron		0.0250		<b>2.20</b>	2.000	0.02158	108.7	2.203	0.38	09/16/2023
Lead		0.0010		<b>0.530</b>	0.5000	0	106.1	0.5053	4.83	09/08/2023
Manganese		0.0020		<b>0.526</b>	0.5000	0.02366	100.5	0.5174	1.68	09/08/2023
Selenium		0.0010		<b>0.436</b>	0.5000	0	87.3	0.4377	0.29	08/30/2023
Zinc		0.0132		<b>0.408</b>	0.5000	0	81.6	0.3901	4.42	09/08/2023

Batch 211033		SampType: MBLK		Units mg/L						
SampID: MBLK-211033										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< <b>0.0250</b>	0.0125	0	0	-100	100	09/17/2023
Arsenic		0.0010		< <b>0.0010</b>	0.0004	0	0	-100	100	09/17/2023
Boron		0.0250		< <b>0.0250</b>	0.0093	0	0	-100	100	09/17/2023
Cadmium		0.0010		< <b>0.0010</b>	0.0001	0	0	-100	100	09/17/2023
Chromium		0.0015		< <b>0.0015</b>	0.0007	0	0	-100	100	09/17/2023
Iron		0.0250		< <b>0.0250</b>	0.0115	0	0	-100	100	09/17/2023
Lead		0.0010		< <b>0.0010</b>	0.0006	0	0	-100	100	09/17/2023
Manganese		0.0020		< <b>0.0020</b>	0.0008	0	0	-100	100	09/17/2023



## Quality Control Results

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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 211033 SampType: LCS Units mg/L

SampID: LCS-211033

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		<b>2.07</b>	2.000	0	103.3	80	120	09/17/2023
Arsenic		0.0010		<b>0.501</b>	0.5000	0	100.1	80	120	09/17/2023
Boron		0.0250		<b>0.450</b>	0.5000	0	90.0	80	120	09/17/2023
Cadmium		0.0010		<b>0.0451</b>	0.0500	0	90.2	80	120	09/17/2023
Chromium		0.0015		<b>0.195</b>	0.2000	0	97.4	80	120	09/17/2023
Iron		0.0250		<b>1.97</b>	2.000	0	98.4	80	120	09/17/2023
Lead		0.0010		<b>0.485</b>	0.5000	0	96.9	80	120	09/17/2023
Manganese		0.0020		<b>0.504</b>	0.5000	0	100.9	80	120	09/17/2023

Batch 211033 SampType: MS Units mg/L

SampID: 23070389-117DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		<b>1.89</b>	2.000	0	94.6	75	125	09/17/2023
Iron		0.0250		<b>1.87</b>	2.000	0.02484	92.3	75	125	09/17/2023
Manganese		0.0020		<b>0.592</b>	0.5000	0.1396	90.5	75	125	09/17/2023
Zinc		0.0132		<b>0.381</b>	0.5000	0	76.1	75	125	09/17/2023

Batch 211033 SampType: MSD Units mg/L

RPD Limit: 20

SampID: 23070389-117DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		<b>1.89</b>	2.000	0	94.7	1.891	0.16	09/17/2023
Iron		0.0250		<b>1.86</b>	2.000	0.02484	91.5	1.870	0.79	09/17/2023
Manganese		0.0020		<b>0.592</b>	0.5000	0.1396	90.4	0.5920	0.09	09/17/2023
Zinc		0.0132		<b>0.379</b>	0.5000	0	75.7	0.3806	0.52	09/17/2023



## Quality Control Results

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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 209945 SampType: MBLK Units mg/L

SampID: MBLK-209945

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/16/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	07/28/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/16/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	07/28/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	07/28/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/16/2023
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	09/16/2023
Boron	*	0.0250		< 0.0250	0.0093	0	0	-100	100	07/28/2023
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	09/16/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	07/28/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/16/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/16/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	07/28/2023
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	07/28/2023
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	09/16/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/16/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	07/28/2023
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	07/28/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	07/28/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/16/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	09/16/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	07/28/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	07/28/2023
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	07/28/2023





## Quality Control Results

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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 209945 SampType: LCS Units mg/L

SampID: LCS-209945

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		<b>2.19</b>	2.000	0	109.3	80	120	09/16/2023
Antimony		0.0010		<b>0.530</b>	0.5000	0	105.9	85	115	07/28/2023
Arsenic		0.0010		<b>0.534</b>	0.5000	0	106.8	80	120	09/16/2023
Arsenic		0.0010		<b>0.558</b>	0.5000	0	111.5	85	115	07/28/2023
Barium		0.0010		<b>2.31</b>	2.000	0	115.5	80	120	09/16/2023
Barium		0.0010		<b>2.19</b>	2.000	0	109.5	85	115	07/28/2023
Beryllium		0.0010		<b>0.0486</b>	0.0500	0	97.1	80	120	09/16/2023
Boron		0.0250		<b>0.511</b>	0.5000	0	102.2	80	120	09/16/2023
Boron	*	0.0250		<b>0.516</b>	0.5000	0	103.2	85	115	07/28/2023
Cadmium		0.0010		<b>0.0541</b>	0.0500	0	108.1	85	115	07/28/2023
Cadmium		0.0010		<b>0.0498</b>	0.0500	0	99.7	80	120	09/16/2023
Chromium		0.0015		<b>0.211</b>	0.2000	0	105.6	85	115	07/28/2023
Chromium		0.0015		<b>0.210</b>	0.2000	0	105.1	80	120	09/16/2023
Cobalt		0.0010		<b>0.546</b>	0.5000	0	109.2	85	115	07/28/2023
Iron		0.0250		<b>2.09</b>	2.000	0	104.4	80	120	09/16/2023
Lead		0.0010		<b>0.539</b>	0.5000	0	107.7	85	115	07/28/2023
Lead		0.0010		<b>0.523</b>	0.5000	0	104.7	80	120	09/16/2023
Lithium	*	0.0030		<b>0.514</b>	0.5000	0	102.7	85	115	07/28/2023
Manganese		0.0020		<b>0.519</b>	0.5000	0	103.8	85	115	07/28/2023
Manganese		0.0020		<b>0.537</b>	0.5000	0	107.4	80	120	09/16/2023
Molybdenum	*	0.0015		<b>0.516</b>	0.5000	0	103.2	85	115	07/28/2023
Molybdenum	*	0.0015		<b>0.505</b>	0.5000	0	100.9	80	120	09/16/2023
Selenium		0.0010		<b>0.519</b>	0.5000	0	103.9	85	115	07/28/2023
Thallium		0.0020		<b>0.258</b>	0.2500	0	103.3	85	115	07/28/2023



## Quality Control Results

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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 209945 SampType: MS Units mg/L

SampID: 23070389-103CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		<b>2.41</b>	2.000	0.4216	99.5	75	125	09/16/2023
Antimony		0.0010		<b>0.523</b>	0.5000	0.0005572	104.4	75	125	07/28/2023
Arsenic		0.0010		<b>0.480</b>	0.5000	0.06186	83.7	75	125	09/16/2023
Barium		0.0010		<b>2.14</b>	2.000	0.01384	106.1	75	125	09/16/2023
Beryllium		0.0010		<b>0.0470</b>	0.0500	0	94.0	75	125	09/16/2023
Boron		0.0250		<b>2.18</b>	0.5000	1.697	95.6	75	125	09/16/2023
Cadmium		0.0010		<b>0.0471</b>	0.0500	0	94.1	75	125	09/16/2023
Chromium		0.0015		<b>0.186</b>	0.2000	0.0007670	92.4	75	125	09/16/2023
Cobalt		0.0010		<b>0.527</b>	0.5000	0	105.4	75	125	07/28/2023
Iron		0.0250		<b>1.85</b>	2.000	0.04409	90.1	75	125	09/16/2023
Lead		0.0010		<b>0.514</b>	0.5000	0	102.8	75	125	09/16/2023
Lithium	*	0.0030		<b>0.531</b>	0.5000	0.02067	102.1	75	125	07/28/2023
Manganese		0.0020		<b>0.461</b>	0.5000	0.002062	91.8	75	125	09/16/2023
Molybdenum	*	0.0015		<b>0.500</b>	0.5000	0.04906	90.2	75	125	09/16/2023
Selenium		0.0010		<b>0.465</b>	0.5000	0.0007275	92.8	75	125	07/28/2023
Thallium		0.0020		<b>0.262</b>	0.2500	0	104.8	75	125	07/28/2023

Batch 209945 SampType: MSD Units mg/L

RPD Limit: 20

SampID: 23070389-103CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		<b>2.48</b>	2.000	0.4216	102.7	2.411	2.69	09/16/2023
Antimony		0.0010		<b>0.525</b>	0.5000	0.0005572	104.8	0.5226	0.37	07/28/2023
Arsenic		0.0010		<b>0.498</b>	0.5000	0.06186	87.3	0.4804	3.67	09/16/2023
Barium		0.0010		<b>2.25</b>	2.000	0.01384	111.7	2.136	5.06	09/16/2023
Beryllium		0.0010		<b>0.0474</b>	0.0500	0	94.8	0.04700	0.83	09/16/2023
Boron		0.0250		<b>2.23</b>	0.5000	1.697	107.5	2.175	2.69	09/16/2023
Cadmium		0.0010		<b>0.0485</b>	0.0500	0	96.9	0.04707	2.92	09/16/2023
Chromium		0.0015		<b>0.190</b>	0.2000	0.0007670	94.9	0.1856	2.57	09/16/2023
Cobalt		0.0010		<b>0.539</b>	0.5000	0	107.8	0.5272	2.19	07/28/2023
Iron		0.0250		<b>1.91</b>	2.000	0.04409	93.3	1.846	3.48	09/16/2023
Lead		0.0010		<b>0.520</b>	0.5000	0	103.9	0.5139	1.11	09/16/2023
Lithium	*	0.0030		<b>0.537</b>	0.5000	0.02067	103.2	0.5312	1.03	07/28/2023
Manganese		0.0020		<b>0.477</b>	0.5000	0.002062	95.1	0.4609	3.52	09/16/2023
Molybdenum	*	0.0015		<b>0.512</b>	0.5000	0.04906	92.6	0.5000	2.39	09/16/2023
Selenium		0.0010		<b>0.453</b>	0.5000	0.0007275	90.5	0.4646	2.46	07/28/2023
Thallium		0.0020		<b>0.262</b>	0.2500	0	104.9	0.2619	0.12	07/28/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210094 SampType: MBLK Units mg/L

SampID: MBLK-210094

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/10/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	07/29/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/10/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/10/2023
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	09/10/2023
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	09/10/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/10/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/10/2023
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	07/31/2023
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	09/10/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/10/2023
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	07/31/2023
Manganese		0.0020	S	0.0054	0.0008	0	717.6	-100	100	09/10/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	09/10/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	07/29/2023
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	07/29/2023

Batch 210094 SampType: LCS Units mg/L

SampID: LCS-210094

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		2.09	2.000	0	104.4	80	120	09/10/2023
Antimony		0.0010		0.527	0.5000	0	105.4	80	120	07/29/2023
Arsenic		0.0010		0.510	0.5000	0	102.0	80	120	09/10/2023
Barium		0.0010		2.16	2.000	0	107.9	85	115	08/02/2023
Barium		0.0010		2.26	2.000	0	112.8	80	120	09/10/2023
Beryllium		0.0010		0.0447	0.0500	0	89.3	80	120	09/10/2023
Boron		0.0250		0.470	0.5000	0	94.0	80	120	09/10/2023
Cadmium		0.0010		0.0511	0.0500	0	102.2	80	120	09/10/2023
Chromium		0.0015		0.204	0.2000	0	101.8	80	120	09/10/2023
Cobalt		0.0010		0.496	0.5000	0	99.3	80	120	07/31/2023
Iron		0.0250		2.03	2.000	0	101.6	80	120	09/10/2023
Lead		0.0010		0.554	0.5000	0	110.7	80	120	09/10/2023
Lithium	*	0.0030		0.535	0.5000	0	107.0	85	115	08/02/2023
Manganese		0.0020	B	0.513	0.5000	0	102.6	80	120	09/10/2023
Selenium		0.0010		0.503	0.5000	0	100.5	85	115	08/02/2023
Thallium		0.0020		0.263	0.2500	0	105.4	80	120	07/29/2023



## Quality Control Results

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Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210094 SampType: MS Units mg/L

SampID: 23070389-010CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		1.16	1.000	0	116.4	75	125	07/31/2023
Beryllium		0.0010		0.0989	0.1000	0	98.9	75	125	07/31/2023
Boron		0.0250	S	1.18	1.000	0.6045	57.4	75	125	08/02/2023
Cadmium		0.0010		0.108	0.1000	0	107.6	75	125	07/31/2023
Chromium		0.0015		0.392	0.4000	0.0009210	97.8	75	125	07/31/2023
Cobalt		0.0010		1.01	1.000	0.0001714	101.0	75	125	07/31/2023
Lead		0.0010		1.00	1.000	0	100.3	75	125	07/31/2023
Selenium		0.0010		0.956	1.000	0	95.6	75	125	08/02/2023
Thallium		0.0020		0.484	0.5000	0	96.7	75	125	07/31/2023

Batch 210094 SampType: MSD Units mg/L

RPD Limit: 20

SampID: 23070389-010CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		1.16	1.000	0	116.0	1.164	0.39	07/31/2023
Beryllium		0.0010		0.0956	0.1000	0	95.6	0.09893	3.43	07/31/2023
Boron		0.0250	S	1.13	1.000	0.6045	52.6	1.179	4.20	08/02/2023
Cadmium		0.0010		0.108	0.1000	0	108.4	0.1076	0.71	07/31/2023
Chromium		0.0015		0.382	0.4000	0.0009210	95.4	0.3921	2.51	07/31/2023
Cobalt		0.0010		0.989	1.000	0.0001714	98.9	1.010	2.06	07/31/2023
Lead		0.0010		1.00	1.000	0	100.0	1.003	0.30	07/31/2023
Selenium		0.0010		0.983	1.000	0	98.3	0.9558	2.83	08/02/2023
Thallium		0.0020		0.484	0.5000	0	96.8	0.4836	0.04	07/31/2023

Batch 210094 SampType: MS Units mg/L

SampID: 23070389-064CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250		0.949	1.000	0.1017	84.8	75	125	09/15/2023
Iron		0.250	S	38.2	4.000	54.10	-397.6	75	125	09/18/2023

Batch 210094 SampType: MSD Units mg/L

RPD Limit: 20

SampID: 23070389-064CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Boron		0.0250		0.966	1.000	0.1017	86.4	0.9493	1.70	09/15/2023
Iron		0.250	S	39.7	4.000	54.10	-360.0	38.20	3.86	09/18/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210149 SampType: MBLK Units mg/L

SampID: MBLK-210149

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/02/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/02/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	08/02/2023
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	08/04/2023
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	09/10/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	08/02/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	08/02/2023
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	08/02/2023
Iron	*	0.0250		< 0.0250	0.0115	0	0	-100	100	08/02/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/02/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	08/02/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	08/04/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/02/2023
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/02/2023

Batch 210149 SampType: LCS Units mg/L

SampID: LCS-210149

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.480	0.5000	0	96.0	85	115	08/02/2023
Arsenic		0.0010		0.513	0.5000	0	102.5	85	115	08/02/2023
Barium		0.0010		1.99	2.000	0	99.3	85	115	08/02/2023
Beryllium		0.0010		0.0503	0.0500	0	100.5	85	115	08/04/2023
Boron		0.0250		0.472	0.5000	0	94.4	80	120	09/10/2023
Cadmium		0.0010		0.0483	0.0500	0	96.6	85	115	08/02/2023
Chromium		0.0015		0.190	0.2000	0	94.9	85	115	08/02/2023
Cobalt		0.0010		0.485	0.5000	0	97.1	85	115	08/02/2023
Iron	*	0.0250		1.89	2.000	0	94.6	85	115	08/02/2023
Lead		0.0010		0.489	0.5000	0	97.7	85	115	08/02/2023
Manganese		0.0020		0.472	0.5000	0	94.3	85	115	08/02/2023
Molybdenum	*	0.0015		0.502	0.5000	0	100.3	85	115	08/04/2023
Selenium		0.0010		0.487	0.5000	0	97.5	85	115	08/02/2023
Thallium		0.0020		0.233	0.2500	0	93.4	85	115	08/02/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210149 SampType: MS Units mg/L

SampID: 23070389-068BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.250	S	<b>26.5</b>	0.5000	37.52	-2197	75	125	09/18/2023

Batch 210149 SampType: MSD Units mg/L

SampID: 23070389-068BMMSD

RPD Limit: 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Boron		0.250	S	<b>27.0</b>	0.5000	37.52	-2110	26.53	1.63	09/18/2023

Batch 210259 SampType: MBLK Units mg/L

SampID: MBLK-210259

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< <b>0.0250</b>	0.0125	0	0	-100	100	09/10/2023
Antimony		0.0010		< <b>0.0010</b>	0.0004	0	0	-100	100	08/04/2023
Arsenic		0.0010		< <b>0.0010</b>	0.0004	0	0	-100	100	08/04/2023
Arsenic		0.0010		< <b>0.0010</b>	0.0004	0	0	-100	100	09/10/2023
Barium		0.0010		< <b>0.0010</b>	0.0007	0	0	-100	100	09/10/2023
Beryllium		0.0010		< <b>0.0010</b>	0.0002	0	0	-100	100	09/10/2023
Boron		0.0250		< <b>0.0250</b>	0.0093	0	0	-100	100	09/10/2023
Cadmium		0.0010		< <b>0.0010</b>	0.0001	0	0	-100	100	08/04/2023
Cadmium		0.0010		< <b>0.0010</b>	0.0001	0	0	-100	100	09/10/2023
Chromium		0.0015		< <b>0.0015</b>	0.0007	0	0	-100	100	08/04/2023
Chromium		0.0015		< <b>0.0015</b>	0.0007	0	0	-100	100	09/10/2023
Cobalt		0.0010		< <b>0.0010</b>	0.0001	0	0	-100	100	08/04/2023
Iron		0.0250		< <b>0.0250</b>	0.0115	0	0	-100	100	09/10/2023
Lead		0.0010		< <b>0.0010</b>	0.0006	0	0	-100	100	08/04/2023
Lead		0.0010		< <b>0.0010</b>	0.0006	0	0	-100	100	09/10/2023
Lithium	*	0.0030		< <b>0.0030</b>	0.0015	0	0	-100	100	08/04/2023
Manganese		0.0020		< <b>0.0020</b>	0.0008	0	0	-100	100	09/10/2023
Molybdenum	*	0.0015		< <b>0.0015</b>	0.0006	0	0	-100	100	08/04/2023
Molybdenum	*	0.0015		< <b>0.0015</b>	0.0006	0	0	-100	100	09/16/2023
Selenium		0.0010		< <b>0.0010</b>	0.0006	0	0	-100	100	08/04/2023
Thallium		0.0020		< <b>0.0020</b>	0.0010	0	0	-100	100	08/04/2023





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210259 SampType: LCS Units mg/L

SampID: LCS-210259

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		<b>2.06</b>	2.000	0	102.9	80	120	09/10/2023
Antimony		0.0010		<b>0.489</b>	0.5000	0	97.8	85	115	08/04/2023
Arsenic		0.0010		<b>0.498</b>	0.5000	0	99.6	85	115	08/04/2023
Arsenic		0.0010		<b>0.514</b>	0.5000	0	102.8	80	120	09/10/2023
Barium		0.0010		<b>2.15</b>	2.000	0	107.6	80	120	09/10/2023
Beryllium		0.0010		<b>0.0473</b>	0.0500	0	94.7	80	120	09/10/2023
Boron		0.0250		<b>0.491</b>	0.5000	0	98.2	80	120	09/10/2023
Cadmium		0.0010		<b>0.0475</b>	0.0500	0	95.1	85	115	08/04/2023
Cadmium		0.0010		<b>0.0498</b>	0.0500	0	99.5	80	120	09/10/2023
Chromium		0.0015		<b>0.191</b>	0.2000	0	95.7	85	115	08/04/2023
Chromium		0.0015		<b>0.202</b>	0.2000	0	100.9	80	120	09/10/2023
Cobalt		0.0010		<b>0.498</b>	0.5000	0	99.7	85	115	08/04/2023
Iron		0.0250		<b>2.01</b>	2.000	0	100.4	80	120	09/10/2023
Lead		0.0010		<b>0.534</b>	0.5000	0	106.7	85	115	08/04/2023
Lead		0.0010		<b>0.541</b>	0.5000	0	108.3	80	120	09/10/2023
Lithium	*	0.0030		<b>0.529</b>	0.5000	0	105.8	85	115	08/04/2023
Manganese		0.0020		<b>0.517</b>	0.5000	0	103.3	80	120	09/10/2023
Molybdenum	*	0.0015		<b>0.469</b>	0.5000	0	93.9	85	115	08/04/2023
Molybdenum	*	0.0015		<b>0.517</b>	0.5000	0	103.5	80	120	09/16/2023
Selenium		0.0010		<b>0.447</b>	0.5000	0	89.3	85	115	08/04/2023
Thallium		0.0020		<b>0.242</b>	0.2500	0	96.6	85	115	08/04/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210259 SampType: MS Units mg/L

SampID: 23070389-014CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		4.01	4.000	0.07512	98.3	75	125	09/16/2023
Antimony		0.0010		1.17	1.000	0	116.7	75	125	08/04/2023
Arsenic		0.0010		1.06	1.000	0.009417	104.7	75	125	09/16/2023
Barium		0.0010		4.91	4.000	0.03258	122.0	75	125	09/16/2023
Beryllium		0.0010		0.0950	0.1000	0	95.0	75	125	09/16/2023
Boron		0.0250		1.06	1.000	0.09234	97.1	75	125	09/16/2023
Cadmium		0.0010		0.108	0.1000	0	108.4	75	125	09/16/2023
Chromium		0.0015		0.392	0.4000	0.001100	97.7	75	125	09/16/2023
Cobalt		0.0010		0.997	1.000	0.0001756	99.7	75	125	08/04/2023
Iron		0.0250		4.05	4.000	0.1391	97.8	75	125	09/16/2023
Lead		0.0010		1.05	1.000	0	104.8	75	125	09/16/2023
Lithium	*	0.0030		1.06	1.000	0.02149	103.5	75	125	08/08/2023
Manganese		0.0020		1.35	1.000	0.3831	96.5	75	125	09/16/2023
Molybdenum	*	0.0015		1.19	1.000	0.008342	118.7	75	125	09/16/2023
Selenium		0.0010		1.03	1.000	0	102.8	75	125	08/04/2023
Thallium		0.0020		0.507	0.5000	0	101.5	75	125	08/04/2023

Batch 210259 SampType: MSD Units mg/L

RPD Limit: 20

SampID: 23070389-014CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		4.01	4.000	0.07512	98.4	4.009	0.10	09/16/2023
Antimony		0.0010	SE	1.31	1.000	0	130.6	1.167	11.23	08/04/2023
Arsenic		0.0010		1.06	1.000	0.009417	105.0	1.057	0.23	09/16/2023
Barium		0.0010		4.99	4.000	0.03258	124.0	4.912	1.61	09/16/2023
Beryllium		0.0010		0.0950	0.1000	0	95.0	0.09499	0.05	09/16/2023
Boron		0.0250		1.07	1.000	0.09234	97.6	1.063	0.42	09/16/2023
Cadmium		0.0010		0.114	0.1000	0	114.4	0.1084	5.41	09/16/2023
Chromium		0.0015		0.395	0.4000	0.001100	98.4	0.3918	0.70	09/16/2023
Cobalt		0.0010		1.04	1.000	0.0001756	104.5	0.9972	4.67	08/04/2023
Iron		0.0250		4.10	4.000	0.1391	99.0	4.051	1.20	09/16/2023
Lead		0.0010		1.06	1.000	0	105.8	1.048	0.94	09/16/2023
Lithium	*	0.0030		1.05	1.000	0.02149	103.1	1.057	0.39	08/08/2023
Manganese		0.0020		1.37	1.000	0.3831	98.4	1.348	1.39	09/16/2023
Molybdenum	*	0.0015	E	1.25	1.000	0.008342	124.6	1.195	4.84	09/16/2023
Selenium		0.0010		1.15	1.000	0	114.8	1.028	11.02	08/04/2023
Thallium		0.0020		0.527	0.5000	0	105.4	0.5073	3.78	08/04/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210307 SampType: MBLK Units mg/L

SampID: MBLK-210307

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/15/2023
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/10/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/04/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/10/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/04/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/10/2023
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	09/10/2023
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	09/15/2023
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	09/10/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/10/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/10/2023
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	08/04/2023
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	09/10/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/10/2023
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	08/04/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/10/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/15/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	09/15/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/04/2023
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/04/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210307 SampType: LCS Units mg/L

SampID: LCS-210307

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		<b>2.09</b>	2.000	0	104.6	80	120	09/15/2023
Aluminum		0.0250		<b>2.06</b>	2.000	0	103.2	80	120	09/10/2023
Antimony		0.0010		<b>0.484</b>	0.5000	0	96.8	80	120	08/04/2023
Arsenic		0.0010		<b>0.507</b>	0.5000	0	101.4	80	120	09/10/2023
Arsenic		0.0010		<b>0.509</b>	0.5000	0	101.7	80	120	08/04/2023
Barium		0.0010		<b>2.21</b>	2.000	0	110.6	80	120	09/10/2023
Beryllium		0.0010		<b>0.0453</b>	0.0500	0	90.6	80	120	09/10/2023
Boron		0.0250		<b>0.469</b>	0.5000	0	93.7	80	120	09/10/2023
Boron		0.0250		<b>0.447</b>	0.5000	0	89.4	80	120	09/15/2023
Cadmium		0.0010		<b>0.0495</b>	0.0500	0	99.0	80	120	09/10/2023
Chromium		0.0015		<b>0.198</b>	0.2000	0	99.2	80	120	09/10/2023
Cobalt		0.0010		<b>0.522</b>	0.5000	0	104.4	80	120	08/04/2023
Iron		0.0250		<b>1.97</b>	2.000	0	98.7	80	120	09/10/2023
Lead		0.0010		<b>0.538</b>	0.5000	0	107.5	80	120	09/10/2023
Lithium	*	0.0030		<b>0.517</b>	0.5000	0	103.4	80	120	08/04/2023
Manganese		0.0020		<b>0.533</b>	0.5000	0	106.6	80	120	09/15/2023
Manganese		0.0020		<b>0.502</b>	0.5000	0	100.5	80	120	09/10/2023
Molybdenum	*	0.0015		<b>0.494</b>	0.5000	0	98.8	80	120	09/15/2023
Selenium		0.0010		<b>0.446</b>	0.5000	0	89.2	80	120	08/04/2023
Thallium		0.0020		<b>0.244</b>	0.2500	0	97.6	80	120	08/04/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210307		SampType: LCSD		Units mg/L			RPD Limit: 20			
SampID: LCSD-210307										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		2.10	2.000	0	105.1	2.092	0.44	09/15/2023
Antimony		0.0010		0.499	0.5000	0	99.9	0.4841	3.11	08/04/2023
Arsenic		0.0010		0.530	0.5000	0	106.0	0.5087	4.11	08/04/2023
Arsenic		0.0010		0.535	0.5000	0	106.9	0.5087	4.95	09/10/2023
Barium		0.0010		2.23	2.000	0	111.7	1.971	12.51	09/10/2023
Beryllium		0.0010		0.0475	0.0500	0	94.9	0.04778	0.67	09/10/2023
Boron		0.0250		0.448	0.5000	0	89.7	0.4470	0.30	09/15/2023
Cadmium		0.0010		0.0511	0.0500	0	102.2	0.04784	6.58	09/10/2023
Chromium		0.0015		0.202	0.2000	0	101.2	0.1964	2.98	09/10/2023
Cobalt		0.0010		0.538	0.5000	0	107.7	0.5222	3.04	08/04/2023
Iron		0.0250		2.02	2.000	0	101.2	1.958	3.27	09/10/2023
Lead		0.0010		0.559	0.5000	0	111.9	0.5248	6.36	09/10/2023
Lithium	*	0.0030		0.533	0.5000	0	106.7	0.5169	3.13	08/04/2023
Manganese		0.0020		0.535	0.5000	0	107.1	0.5328	0.49	09/15/2023
Manganese		0.0020		0.515	0.5000	0	102.9	0.4812	6.73	09/10/2023
Molybdenum	*	0.0015		0.498	0.5000	0	99.6	0.4940	0.80	09/15/2023
Selenium		0.0010		0.466	0.5000	0	93.2	0.4458	4.38	08/04/2023
Thallium		0.0020		0.254	0.2500	0	101.7	0.2441	4.10	08/04/2023

Batch 210483		SampType: MBLK		Units mg/L						
SampID: MBLK-210483										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/11/2023
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	09/18/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/11/2023

Batch 210483		SampType: LCS		Units mg/L						
SampID: LCS-210483										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		0.563	0.5000	0	112.5	85	115	08/11/2023
Boron		0.0250		0.493	0.5000	0	98.7	80	120	09/18/2023
Selenium		0.0010		0.502	0.5000	0	100.5	85	115	08/11/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210483		SampType: LCSD		Units mg/L			RPD Limit: 20			
SampID: LCSD-210483										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0010		<b>0.548</b>	0.5000	0	109.6	0.5627	2.63	08/11/2023
Boron		0.0250		<b>0.503</b>	0.5000	0	100.7	0.4934	1.97	09/18/2023
Selenium		0.0010		<b>0.483</b>	0.5000	0	96.7	0.5023	3.85	08/11/2023

### Batch 210625 SampType: MBLK Units mg/L

SampID: MBLK-210625										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< <b>0.0250</b>	0.0125	0	0	-100	100	09/15/2023
Antimony		0.0010		< <b>0.0010</b>	0.0004	0	0	-100	100	08/11/2023
Arsenic		0.0010		< <b>0.0010</b>	0.0004	0	0	-100	100	08/11/2023
Arsenic		0.0010		< <b>0.0010</b>	0.0004	0	0	-100	100	09/15/2023
Barium		0.0010		< <b>0.0010</b>	0.0007	0	0	-100	100	09/15/2023
Beryllium		0.0010		< <b>0.0010</b>	0.0002	0	0	-100	100	09/15/2023
Boron		0.0250		< <b>0.0250</b>	0.0093	0	0	-100	100	09/15/2023
Cadmium		0.0010		< <b>0.0010</b>	0.0001	0	0	-100	100	09/15/2023
Chromium		0.0015		< <b>0.0015</b>	0.0007	0	0	-100	100	09/15/2023
Cobalt		0.0010		< <b>0.0010</b>	0.0001	0	0	-100	100	08/11/2023
Iron		0.0250		< <b>0.0250</b>	0.0115	0	0	-100	100	09/15/2023
Lead		0.0010		< <b>0.0010</b>	0.0006	0	0	-100	100	09/15/2023
Lithium	*	0.0030		< <b>0.0030</b>	0.0015	0	0	-100	100	08/11/2023
Manganese		0.0020		< <b>0.0020</b>	0.0008	0	0	-100	100	09/15/2023
Molybdenum	*	0.0015		< <b>0.0015</b>	0.0006	0	0	-100	100	09/15/2023
Selenium		0.0010		< <b>0.0010</b>	0.0006	0	0	-100	100	08/11/2023
Thallium		0.0020		< <b>0.0020</b>	0.0010	0	0	-100	100	08/11/2023





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210625 SampType: LCS Units mg/L

SampID: LCS-210625

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		<b>2.21</b>	2.000	0	110.4	80	120	09/15/2023
Antimony		0.0010		<b>0.498</b>	0.5000	0	99.6	85	115	08/11/2023
Arsenic		0.0010		<b>0.517</b>	0.5000	0	103.4	85	115	08/11/2023
Arsenic		0.0010		<b>0.553</b>	0.5000	0	110.7	80	120	09/15/2023
Barium		0.0010		<b>2.30</b>	2.000	0	114.9	80	120	09/15/2023
Beryllium		0.0010		<b>0.0524</b>	0.0500	0	104.7	80	120	09/15/2023
Boron		0.0250		<b>0.520</b>	0.5000	0	104.0	80	120	09/15/2023
Cadmium		0.0010		<b>0.0547</b>	0.0500	0	109.4	80	120	09/15/2023
Chromium		0.0015		<b>0.215</b>	0.2000	0	107.7	80	120	09/15/2023
Cobalt		0.0010		<b>0.496</b>	0.5000	0	99.1	85	115	08/11/2023
Iron		0.0250		<b>2.23</b>	2.000	0	111.5	80	120	09/15/2023
Lead		0.0010		<b>0.539</b>	0.5000	0	107.8	80	120	09/15/2023
Lithium	*	0.0030		<b>0.472</b>	0.5000	0	94.4	85	115	08/11/2023
Manganese		0.0020		<b>0.559</b>	0.5000	0	111.7	80	120	09/15/2023
Molybdenum	*	0.0015		<b>0.541</b>	0.5000	0	108.2	80	120	09/15/2023
Selenium		0.0010		<b>0.482</b>	0.5000	0	96.4	85	115	08/11/2023
Thallium		0.0020		<b>0.242</b>	0.2500	0	97.0	85	115	08/11/2023

Batch 210625 SampType: LCSD Units mg/L

RPD Limit: 20

SampID: LCSD-210625

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		<b>0.512</b>	0.5000	0	102.4	0.4978	2.84	08/11/2023
Arsenic		0.0010		<b>0.534</b>	0.5000	0	106.8	0.5169	3.24	08/11/2023
Cobalt		0.0010		<b>0.494</b>	0.5000	0	98.9	0.4956	0.26	08/11/2023
Lithium	*	0.0030		<b>0.473</b>	0.5000	0	94.7	0.4721	0.28	08/11/2023
Selenium		0.0010		<b>0.477</b>	0.5000	0	95.4	0.4818	1.06	08/11/2023
Thallium		0.0020		<b>0.246</b>	0.2500	0	98.4	0.2424	1.52	08/11/2023

Batch 211012 SampType: MBLK Units mg/L

SampID: MBLK-211012

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250		< <b>0.0250</b>	0.0093	0	0	-100	100	09/16/2023
Iron		0.0250		< <b>0.0250</b>	0.0175	0	0	-100	100	09/16/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 211012 SampType: LCS Units mg/L

SampID: LCS-211012

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250		<b>0.514</b>	0.5000	0	102.8	80	120	09/17/2023
Iron		0.0250		<b>2.16</b>	2.000	0	108.0	80	120	09/17/2023

Batch 211012 SampType: MS Units mg/L

SampID: 23070389-114CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250		<b>0.590</b>	0.5000	0.09343	99.3	75	125	09/17/2023
Iron		0.0250		<b>9.67</b>	2.000	7.327	117.4	75	125	09/17/2023

Batch 211012 SampType: MSD Units mg/L

RPD Limit: 20

SampID: 23070389-114CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Boron		0.0250		<b>0.590</b>	0.5000	0.09343	99.4	0.5900	0.03	09/17/2023
Iron		0.0250		<b>9.70</b>	2.000	7.327	118.8	9.674	0.30	09/17/2023

Batch 211034 SampType: MBLK Units mg/L

SampID: MBLK-211034

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< <b>0.0250</b>	0.0125	0	0	-100	100	09/16/2023
Antimony		0.0010		< <b>0.0010</b>	0.0004	0	0	-100	100	08/30/2023
Arsenic		0.0010		< <b>0.0010</b>	0.0004	0	0	-100	100	09/16/2023
Barium		0.0010		< <b>0.0010</b>	0.0007	0	0	-100	100	09/16/2023
Beryllium		0.0010		< <b>0.0010</b>	0.0002	0	0	-100	100	09/16/2023
Boron		0.0250		< <b>0.0250</b>	0.0093	0	0	-100	100	09/16/2023
Cadmium		0.0010		< <b>0.0010</b>	0.0001	0	0	-100	100	08/30/2023
Chromium		0.0015		< <b>0.0015</b>	0.0007	0	0	-100	100	09/16/2023
Cobalt		0.0010		< <b>0.0010</b>	0.0001	0	0	-100	100	08/30/2023
Iron		0.0250		< <b>0.0250</b>	0.0115	0	0	-100	100	09/16/2023
Lead		0.0010		< <b>0.0010</b>	0.0006	0	0	-100	100	09/16/2023
Lithium	*	0.0030		< <b>0.0030</b>	0.0015	0	0	-100	100	08/30/2023
Manganese		0.0020		< <b>0.0020</b>	0.0008	0	0	-100	100	09/16/2023
Molybdenum	*	0.0015		< <b>0.0015</b>	0.0006	0	0	-100	100	09/16/2023
Selenium		0.0010		< <b>0.0010</b>	0.0006	0	0	-100	100	08/30/2023
Thallium		0.0020		< <b>0.0020</b>	0.0010	0	0	-100	100	08/30/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 211034 SampType: LCS Units mg/L

SampID: LCS-211034

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250	S	<b>2.50</b>	2.000	0	125.0	80	120	09/16/2023
Antimony		0.0010		<b>0.501</b>	0.5000	0	100.3	85	115	08/30/2023
Arsenic		0.0010		<b>0.598</b>	0.5000	0	119.7	80	120	09/16/2023
Barium		0.0010	S	<b>2.67</b>	2.000	0	133.6	80	120	09/16/2023
Beryllium		0.0010		<b>0.0567</b>	0.0500	0	113.3	80	120	09/16/2023
Boron		0.0250		<b>0.588</b>	0.5000	0	117.7	80	120	09/16/2023
Cadmium		0.0010		<b>0.0479</b>	0.0500	0	95.7	85	115	08/30/2023
Chromium		0.0015	S	<b>0.242</b>	0.2000	0	120.9	80	120	09/16/2023
Cobalt		0.0010		<b>0.501</b>	0.5000	0	100.2	80	120	08/30/2023
Iron		0.0250		<b>2.39</b>	2.000	0	119.5	80	120	09/16/2023
Lead		0.0010	S	<b>0.609</b>	0.5000	0	121.9	80	120	09/16/2023
Lithium	*	0.0030		<b>0.508</b>	0.5000	0	101.6	80	120	08/30/2023
Manganese		0.0020	S	<b>0.618</b>	0.5000	0	123.6	80	120	09/16/2023
Molybdenum	*	0.0015		<b>0.580</b>	0.5000	0	116.1	80	120	09/16/2023
Selenium		0.0010		<b>0.454</b>	0.5000	0	90.8	85	115	08/30/2023
Thallium		0.0020		<b>0.223</b>	0.2500	0	89.2	85	115	08/30/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 211213 SampType: MBLK Units mg/L

SampID: MBLK-211213

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250	S	<b>0.0291</b>	0.0125	0	232.7	-100	100	08/31/2023
Antimony		0.0010		< <b>0.0010</b>	0.0004	0	0	-100	100	08/31/2023
Arsenic		0.0010		< <b>0.0010</b>	0.0004	0	0	-100	100	09/06/2023
Arsenic		0.0010		< <b>0.0010</b>	0.0004	0	0	-100	100	08/31/2023
Barium		0.0010		< <b>0.0010</b>	0.0007	0	0	-100	100	09/16/2023
Barium		0.0010		< <b>0.0010</b>	0.0007	0	0	-100	100	09/10/2023
Beryllium		0.0010		< <b>0.0010</b>	0.0002	0	0	-100	100	08/31/2023
Boron		0.0250		< <b>0.0250</b>	0.0093	0	0	-100	100	08/31/2023
Cadmium		0.0010		< <b>0.0010</b>	0.0001	0	0	-100	100	08/31/2023
Chromium		0.0015		< <b>0.0015</b>	0.0007	0	0	-100	100	08/31/2023
Cobalt		0.0010		< <b>0.0010</b>	0.0001	0	0	-100	100	08/31/2023
Iron		0.0250		< <b>0.0250</b>	0.0115	0	0	-100	100	08/31/2023
Lead		0.0010		< <b>0.0010</b>	0.0006	0	0	-100	100	09/16/2023
Lead		0.0010		< <b>0.0010</b>	0.0006	0	0	-100	100	09/10/2023
Lithium	*	0.0030		< <b>0.0030</b>	0.0015	0	0	-100	100	08/31/2023
Manganese		0.0020		< <b>0.0020</b>	0.0008	0	0	-100	100	08/31/2023
Molybdenum	*	0.0015		< <b>0.0015</b>	0.0006	0	0	-100	100	08/31/2023
Selenium		0.0010		< <b>0.0010</b>	0.0006	0	0	-100	100	08/31/2023
Thallium		0.0020		< <b>0.0020</b>	0.0010	0	0	-100	100	08/31/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 211213 SampType: LCS Units mg/L

SampID: LCS-211213

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250	B	<b>2.12</b>	2.000	0	106.1	80	120	08/31/2023
Antimony		0.0010		<b>0.573</b>	0.5000	0	114.6	80	120	08/31/2023
Arsenic		0.0010		<b>0.506</b>	0.5000	0	101.1	85	115	09/06/2023
Arsenic		0.0010		<b>0.592</b>	0.5000	0	118.4	80	120	08/31/2023
Beryllium		0.0010		<b>0.0537</b>	0.0500	0	107.4	80	120	08/31/2023
Boron		0.0250		<b>0.516</b>	0.5000	0	103.2	80	120	08/31/2023
Cadmium		0.0010		<b>0.0558</b>	0.0500	0	111.5	80	120	08/31/2023
Chromium		0.0015		<b>0.216</b>	0.2000	0	108.2	80	120	08/31/2023
Cobalt		0.0010		<b>0.549</b>	0.5000	0	109.8	80	120	08/31/2023
Iron		0.0250		<b>2.18</b>	2.000	0	109.0	80	120	08/31/2023
Lead		0.0010	S	<b>0.624</b>	0.5000	0	124.7	80	120	09/10/2023
Lithium	*	0.0030		<b>0.546</b>	0.5000	0	109.2	80	120	08/31/2023
Manganese		0.0020		<b>0.533</b>	0.5000	0	106.7	80	120	08/31/2023
Molybdenum	*	0.0015		<b>0.544</b>	0.5000	0	108.9	80	120	08/31/2023
Selenium		0.0010		<b>0.522</b>	0.5000	0	104.4	80	120	08/31/2023
Thallium		0.0020		<b>0.268</b>	0.2500	0	107.3	80	120	08/31/2023

Batch 211213 SampType: MS Units mg/L

SampID: 23070389-116CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250	B	<b>4.46</b>	4.000	0.3459	102.8	75	125	08/31/2023
Antimony		0.0010	SE	<b>1.28</b>	1.000	0	128.0	75	125	08/31/2023
Arsenic		0.0010		<b>1.11</b>	1.000	0.0009230	111.2	75	125	08/31/2023
Beryllium		0.0010		<b>0.104</b>	0.1000	0.0003817	103.6	75	125	08/31/2023
Boron		0.0250		<b>1.18</b>	1.000	0.1889	99.4	75	125	08/31/2023
Cadmium		0.0010		<b>0.112</b>	0.1000	0	111.7	75	125	08/31/2023
Chromium		0.0015		<b>0.405</b>	0.4000	0.002169	100.7	75	125	08/31/2023
Cobalt		0.0010		<b>0.883</b>	1.000	0.001562	88.2	75	125	08/31/2023
Iron		0.0250		<b>4.86</b>	4.000	0.7602	102.5	75	125	08/31/2023
Lead		0.0010		<b>1.23</b>	1.000	0	123.0	75	125	09/10/2023
Lithium	*	0.0030		<b>1.23</b>	1.000	0.1897	103.7	75	125	08/31/2023
Manganese		0.0020		<b>1.19</b>	1.000	0.2869	90.7	75	125	08/31/2023
Molybdenum	*	0.0015		<b>1.15</b>	1.000	0.001515	115.2	75	125	08/31/2023
Selenium		0.0010		<b>0.984</b>	1.000	0	98.4	75	125	08/31/2023
Thallium		0.0020		<b>0.519</b>	0.5000	0	103.9	75	125	08/31/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 211213		SampType: MSD		Units mg/L			RPD Limit: 20				
SampID: 23070389-116CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Aluminum		0.0250	B	4.44	4.000	0.3459	102.5	4.459	0.31	08/31/2023	
Antimony		0.0010	SE	1.27	1.000	0	126.7	1.280	1.06	08/31/2023	
Arsenic		0.0010		1.11	1.000	0.0009230	111.3	1.113	0.11	08/31/2023	
Beryllium		0.0010		0.104	0.1000	0.0003817	103.7	0.1040	0.08	08/31/2023	
Boron		0.0250		1.18	1.000	0.1889	99.5	1.183	0.08	08/31/2023	
Cadmium		0.0010		0.110	0.1000	0	109.9	0.1117	1.63	08/31/2023	
Chromium		0.0015		0.395	0.4000	0.002169	98.2	0.4049	2.49	08/31/2023	
Cobalt		0.0010		0.881	1.000	0.001562	88.0	0.8834	0.22	08/31/2023	
Iron		0.0250		4.88	4.000	0.7602	103.1	4.862	0.43	08/31/2023	
Lead		0.0010		1.20	1.000	0	119.8	1.230	2.61	09/10/2023	
Lithium	*	0.0030		1.19	1.000	0.1897	100.3	1.227	2.82	08/31/2023	
Manganese		0.0020		1.19	1.000	0.2869	90.3	1.194	0.32	08/31/2023	
Molybdenum	*	0.0015		1.13	1.000	0.001515	112.9	1.154	2.06	08/31/2023	
Selenium		0.0010		0.989	1.000	0	98.9	0.9839	0.47	08/31/2023	
Thallium		0.0020		0.509	0.5000	0	101.9	0.5194	1.96	08/31/2023	

### Batch 212096 SampType: MBLK Units mg/L

SampID: MBLK-212096											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/20/2023	
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	09/21/2023	
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/21/2023	
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/20/2023	
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/20/2023	
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/21/2023	
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/20/2023	
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/20/2023	
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	09/21/2023	





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 212096 SampType: LCS Units mg/L

SampID: LCS-212096

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		<b>2.07</b>	2.000	0	103.5	80	120	09/20/2023
Antimony		0.0010		<b>0.501</b>	0.5000	0	100.2	85	115	09/21/2023
Arsenic		0.0010		<b>0.504</b>	0.5000	0	100.8	85	115	09/21/2023
Barium		0.0010		<b>2.14</b>	2.000	0	106.8	80	120	09/20/2023
Chromium		0.0015		<b>0.213</b>	0.2000	0	106.3	80	120	09/20/2023
Lead		0.0010		<b>0.493</b>	0.5000	0	98.5	85	115	09/21/2023
Lead		0.0010		<b>0.529</b>	0.5000	0	105.7	80	120	09/20/2023
Manganese		0.0020		<b>0.520</b>	0.5000	0	104.0	80	120	09/20/2023
Selenium		0.0010		<b>0.507</b>	0.5000	0	101.5	85	115	09/22/2023

Batch 212096 SampType: MS Units mg/L

SampID: 23070389-117CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		<b>4.09</b>	4.000	0.3606	93.3	75	125	09/20/2023
Barium		0.0010		<b>4.73</b>	4.000	0.01058	118.0	75	125	09/20/2023
Chromium		0.0015		<b>0.391</b>	0.4000	0.001907	97.4	75	125	09/20/2023
Lead		0.0010		<b>1.09</b>	1.000	0	109.4	75	125	09/20/2023
Manganese		0.0020		<b>1.03</b>	1.000	0.09165	93.4	75	125	09/20/2023

Batch 212096 SampType: MSD Units mg/L

RPD Limit: 20

SampID: 23070389-117CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		<b>4.44</b>	4.000	0.3606	101.9	4.094	8.02	09/20/2023
Barium		0.0010		<b>4.85</b>	4.000	0.01058	120.9	4.732	2.37	09/20/2023
Chromium		0.0015		<b>0.415</b>	0.4000	0.001907	103.3	0.3915	5.82	09/20/2023
Lead		0.0010		<b>1.13</b>	1.000	0	113.4	1.094	3.56	09/20/2023
Manganese		0.0020		<b>1.10</b>	1.000	0.09165	100.6	1.025	6.85	09/20/2023

Batch 212110 SampType: MBLK Units mg/L

SampID: MBLK-212110

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0010		<b>&lt; 0.0010</b>	0.0007	0	0	-100	100	09/20/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 212110		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-212110											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Barium		0.0010		2.30	2.000	0	114.9	80	120	09/20/2023	

Batch 212110		SampType: LCSD		Units mg/L		RPD Limit: 20					Date Analyzed
SampID: LCSD-212110											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Barium		0.0010		2.25	2.000	0	112.4	2.298	2.15	09/20/2023	

### SW-846 7470A (DISSOLVED)

Batch 210195		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-210195											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/01/2023	

Batch 210195		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-210195											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00463	0.0050	0	92.7	85	115	08/01/2023	

Batch 210305		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-061CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00828	0.0100	0.0001390	81.4	75	125	08/03/2023	

Batch 210305		SampType: MSD		Units mg/L		RPD Limit: 15					Date Analyzed
SampID: 23070389-061CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Mercury		0.00020		0.00857	0.0100	0.0001390	84.3	0.008284	3.39	08/03/2023	

Batch 210306		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-064DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00471	0.0050	0	94.2	75	125	08/04/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 7470A (DISSOLVED)

Batch 210306		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23070389-064DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		<b>0.00458</b>	0.0050	0	91.6	0.004710	2.75	08/04/2023	

Batch 211189		SampType: MS		Units mg/L							
SampID: 23070389-114DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		<b>0.00557</b>	0.0050	0	111.4	75	125	08/23/2023	

Batch 211189		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23070389-114DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		<b>0.00585</b>	0.0050	0	117.0	0.005571	4.86	08/23/2023	

### SW-846 7470A (TOTAL)

Batch 209946		SampType: MBLK		Units mg/L							
SampID: MBLK-209946											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< <b>0.00020</b>	0.0001	0	0	-100	100	07/26/2023	

Batch 209946		SampType: LCS		Units mg/L							
SampID: LCS-209946											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		<b>0.00513</b>	0.0050	0	102.6	85	115	07/26/2023	

Batch 209946		SampType: MS		Units mg/L							
SampID: 23070389-015CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		<b>0.00520</b>	0.0050	0	104.0	75	125	07/26/2023	

Batch 209946		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23070389-015CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		<b>0.00493</b>	0.0050	0	98.7	0.005202	5.29	07/26/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 7470A (TOTAL)

Batch 210195		SampType: MBLK		Units mg/L							
SampID: MBLK-210195											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/01/2023	

Batch 210195		SampType: LCS		Units mg/L							
SampID: LCS-210195											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00463	0.0050	0	92.7	85	115	08/01/2023	

Batch 210195		SampType: MS		Units mg/L							
SampID: 23070389-108CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00472	0.0050	0	94.5	75	125	08/01/2023	

Batch 210195		SampType: MSD		Units mg/L							
SampID: 23070389-108CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00478	0.0050	0	95.5	0.004723	1.11	08/01/2023	

Batch 210255		SampType: MBLK		Units mg/L							
SampID: MBLK-210255											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/02/2023	

Batch 210255		SampType: LCS		Units mg/L							
SampID: LCS-210255											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00535	0.0050	0	107.0	85	115	08/02/2023	

Batch 210255		SampType: MS		Units mg/L							
SampID: 23070389-012CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00530	0.0050	0	106.1	75	125	08/02/2023	

Batch 210255		SampType: MSD		Units mg/L							
SampID: 23070389-012CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00514	0.0050	0	102.7	0.005304	3.21	08/02/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 7470A (TOTAL)

Batch 210305		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-210305											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/03/2023	

Batch 210305		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-210305											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00469	0.0050	0	93.8	85	115	08/03/2023	

Batch 210305		SampType: MS		Units mg/L							Date Analyzed
SampID: 23070389-005CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00810	0.0100	0	81.0	75	125	08/03/2023	

Batch 210305		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23070389-005CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00837	0.0100	0	83.7	0.008104	3.29	08/03/2023		

Batch 210306		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-210306											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/04/2023	

Batch 210306		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-210306											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00454	0.0050	0	90.9	85	115	08/04/2023	

Batch 211189		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-211189											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/25/2023	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/23/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

### SW-846 7470A (TOTAL)

Batch 211189 SampType: LCS Units mg/L

SampID: LCS-211189

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		<b>0.00505</b>	0.0050	0	100.9	85	115	08/23/2023





## Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23070389

Client Project: NEW-23Q3

Report Date: 15-Nov-23

Carrier: Skylar Mathis

Received By: ANC

Completed by:

*Amber Dilallo*

Reviewed by:

*Ellie Hopkins*

On:

02-Aug-23

Amber Dilallo

02-Aug-23

Ellie Hopkins

Pages to follow: Chain of custody

Extra pages included

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C <b>3.8</b>
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input checked="" type="checkbox"/>	Lab <input type="checkbox"/>	NA <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

Water – at least one vial per sample has zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials <input checked="" type="checkbox"/>
Water - TOX containers have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No TOX containers <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	NA <input type="checkbox"/>
NPDES/CWA TCN interferences checked/treated in the field?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

**Any No responses must be detailed below or on the COC.**

pH strip #90719/79929. - TWM/CET/acolin - 7/25/2023 10:12:23 AM  
 Additional HNO3 (90404) was needed in XPWO1 upon arrival at the laboratory. - acolin - 7/25/2023 10:12:26 AM  
 Additional HNO3 (90404) was needed in APWO2, G232 upon arrival at the laboratory. - acolin - 7/26/2023 1:35:53 PM  
 Additional HNO3 (90404) was needed in G225, additional H2SO4 (90128) was needed in G225, and additional NaOH (81662) was needed in G217S, G225, R2170, A213DUP upon arrival at the laboratory. - acolin - 7/27/2023 9:04:36 AM  
 Samples collected on 7/26/23 were delivered to the laboratory on 7/26/23 at 1805 (on ice - 8.4C - LTG#5). pH strip #90719/79929 - ANC/ERH 7/27/23  
 G141 was filtered and preserved with nitric acid (90404) for the dissolved parameters upon arrival at the laboratory. - TM/ehopkins - 7/27/2023 9:36:45 AM  
 L1R was preserved with HNO3 (90404) upon arrival at the laboratory. Sample did not reach the desired pH range. G104, G106, G1139, R219, G104DUP were preserved with NaOH (81662) upon arrival at the laboratory. - MP/acolin - 7/28/2023 9:50:16 AM  
 Samples collected on 7/31/23 were delivered to the laboratory on 8/01/23 at 805 (on ice - 5.8C - LTG#1). pH strip #90719 - CET/ERH 7/27/23  
 Samples collected on 8/01/23 were delivered to the laboratory on 8/02/23 at 1000 (on ice - 3.4C - LTG#1). pH strip #90719 - CET/ERH 7/27/23  
 Samples collected on 8/16/23 were delivered to the laboratory on 8/16/23 at 1529 (on ice - 5.4C - LTG#5). pH strip #90719/79929 - CET/ERH 7/27/23  
 pH strip #90719. - amberdilallo - 8/17/2023 3:34:30 PM  
 Samples collected on 8/17/23 were delivered to the laboratory on 8/17/23 at 1400 (on ice - 1.2C - LTG#1). pH strip #90719/79929 - AMD/ERH 8/17/23

23070389-02  
NEW 23070389

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

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	A207						0																		23070389-001	
2	* A213						5	2																	002	
3	* A214						5	2																	003	
4	* A215						5	2																	004	
5	* APW02					7-25-23	1145	6	2	2															005	
6	* APW03																								006	
7	* APW04																								007	
8	APW05					7-24-23	1352																		008	
9	APW05S					7-25-23	1253																		009	
10	APW06					7-25-23	1222																		010	
11	APW07					7-25-23	1010																		011	
12	APW08																								012	
13	APW09																								013	
14	APW10																								014	
15	APW11					7-24-23	1453																		015	
16	APW12					7-24-23	1523																		016	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
<b>NEW-23Q3 Rev 0</b>	J. Colp	7-24-23	1700*	Justin Colp	7/24/23	1700	Y	N	
	Justin Colp	7/25/23	0840	Justin Colp	7/25/23	840	3.8		

\* Initial relinquished time per Justin Colp.  
EAH 9/28/23

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:	Justin Colp				
SIGNATURE of SAMPLER:	<i>Justin Colp</i>	DATE Signed (MM/DD/YY):	7-24-23		

DTG:1  
PMD07A. GCS 7-25-23





NEW-257-502  
23070389

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

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

Page: 1 of 7

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

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, C-9 / . - ) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE GROUNDWATER DW WATER WF 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				
1	A207						0													
2	A213						5	2	1											
3	A214						5	2	1											
4	A215						5	2	1											
5	APW02				7-25-23	1145	6	2	2	2										
6	APW03																			
7	APW04																			
8	APW05				<del>7-25-23</del>															
9	APW05S				7-15-23	1253														
10	APW06				7-25-23	1222														
11	APW07				7-25-23	1010														
12	APW08																			
13	APW09																			
14	APW10																			
15	APW11																			
16	APW12						6	2	2	2										
ADDITIONAL COMMENTS					RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS							
NEW-23Q3 Rev 0					Justin Colp		7-25	1700*	Justin Colp		7-25	1700*	4 N							
					Justin Colp		7/26	0815	Justin Colp		7/26	815								
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: Justin Colp																				
SIGNATURE of SAMPLER: Justin Colp																DATE Signed (MM/DD/YY): 7-25-23				

\*Initial relinquished time per Justin Colp.  
EAH 9/28/23

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

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

NEW 257-509  
23070389

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: 2 of 7	
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>		<b>REGULATORY AGENCY</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:		NPDES GROUND WATER DRINKING WATER	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:		UST RCRA OTHER	
				Profile #:		Site Location	
						STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								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	Analysis Test	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501		
1	APW13				6	2	2	2												23070389-017		
2	APW14																			018		
3	APW15																			019		
4	APW16																			020		
5	APW17		7-25-23	1036																021		
6	APW18		7-25-23	0942		6	2	2	2											022		
7	G06D					2	1	1												023		
8	G104					5	2	1	1	1										024		
9	G104D					2	1	1												025		
10	G104S					0														026		
11	G105					5	2	1	1	1										027		
12	G106					5	2	1	1	1										028		
13	G108					2	1	1												029		
14	G109					0														030		
15	G110					0														031		
16	G111					0														032		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	5.8	SAMPLE CONDITIONS		
<b>NEW-23Q3 Rev 0</b>	<i>J. Colp</i>	7-25	1700*	<i>Justin Colp</i>	7/25/23	1700*	<i>9.8</i>			
	<i>Justin Colp</i>	7/26/23	0805	<i>Justin Colp</i>	7/20	815	<i>1</i>			

\* Initial relinquished time per Justin Colp.  
EAH 9/28/23

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Justin Colp</i>				
SIGNATURE of SAMPLER:	<i>Justin Colp</i>	DATE Signed (MM/DD/YY):	7-25-23		

# 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:		Page: <b>4</b> of <b>7</b>	
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		<b>REGULATORY AGENCY</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>		NPDES <b>GROUND WATER</b> <b>DRINKING WATER</b>	
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quote Reference:		UST <b>RCRA</b> <b>OTHER</b>	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:		Site Location	
				Profile #:		STATE: <b>IL</b>	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No./ Lab I.D.
						Preservatives											NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000					
						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		
DATE	TIME	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)																									
1	G141				5	2	1	1	1																		23070389-049	
2	G201				2	1	1	1																			050	
3	G202				2	1	1	1																			051	
4	G203				2	1	1	1																			052	
5	G208		7-25-23	1453	2	1	1	1																			053	
6	G217S				5	2	1	1	1																		054	
7	G218				0																						055	
8	G220				2	1	1	1																			056	
9	G221				5	2	1	1	1																		057	
10	G222				2	1	1	1																			058	
11	G223				2	1	1	1																			059	
12	G224				2	1	1	1																			060	
13	G225				5	2	1	1	1																		061	
14	G230	DRY	7-25-23	DRY	6	2	1	2	1																		062	
15	G231		7-25-23	1112	6	2	1	2	1																		063	
16	G232		7-25-23	1151	6	2	1	2	1																		064	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	7-25	1700*	Justin Colp	7/25	1700*	
	Justin Colp	7/20	0815	Justin Colp	7/20	0715	

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:	DATE Signed (MM/DD/YY):				
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):				
Justin Colp	7-25-23				

\*Initial relinquished time per Justin Colp. EAH 9/28/23



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

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

NEW-257-502

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: <b>5</b> of <b>7</b>	
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		<b>REGULATORY AGENCY</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:		NPDES <b>GROUND WATER</b> <b>DRINKING WATER</b>	
				Profile #:		UST <b>RCRA</b> <b>OTHER</b>	
						Site Location <b>IL</b>	
						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 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
1	G233				7-25-23	1327	6	2	1	2	1									23070389-065
2	G234				7-25-23	0848	6	2	1	2	1									066
3	G48MG						2	1		1										067
4	L1R						2	1		1										068
5	L201						0													069
6	L202						0													070
7	L203						0													071
8	L204						0													072
9	L205						0													073
10	L301						2	1		1										074
11	M25-1						0													075
12	M25-2						0													076
13	M25-3						0													077
14	M25-4						0													078
15	M25-5						0													079
16	M25-6						0													080

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	7-25	1700*	Justin Colp	7-25	1700*	
	Justin Colp	7-26	0815	Justin Colp	7-26	815	

\* Initial relinquished time per Justin Colp.  
EAH 9/28/23

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>Justin Colp</i>		DATE Signed (MMDD/YY): <i>7-25-23</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>							

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

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

<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	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives											Requested Analysis Filtered (Y/N)						Residual Chlorine (Y/N)	Project No./ Lab I.D.			
						DATE	TIME	Unpreserved	H <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		
																										Y/N	Y/N
1	MW48S				0																					23070389-097	
2	R216				0																					098	
3	R217D				6	2	1	2																		099	
4	R219				5	2	1	1																		100	
5	SG02				0																					101	
6	XPW01				6	2	2	2																		102	
7	XPW02				6	2	2	2																		103	
8	XPW03				6	2	2	2																		104	
9	XPW04				6	2	2	2																		105	
10	XSG01				0																					106	
11	Field Blank				8	2	2	2		1																107	
12	APW02 Duplicate			7-25-23	1145	6	2	2	2																	108	
13	A213 Duplicate				5	2	1	1																		109	
14	G104 Duplicate				5	2	1	1																		110	
15																											
16																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	7-25	1700*	<i>[Signature]</i>	7-25	1700*	
	<i>[Signature]</i>	7-26	0815	<i>[Signature]</i>	7-26	815	

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>Justin Colp</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	7-25-23		

\*Initial relinquished time per Justin Colp.  
EAH 9/28/23

23070389  
NEW-257-502

### 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:		Page: 1 of 7	
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		<b>REGULATORY AGENCY</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>		NPDES <b>GROUND WATER</b> DRINKING WATER	
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:		UST RCRA OTHER	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:		Site Location	
				Profile #:		STATE: <b>IL</b>	

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)									
							COLLECTED																			
							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	A207					0																				
2	A213		7/26/23	1105		5	2	1	1	1	1															# 90719/79929 Added HNO3 to 6225 (90404) H2SO4(90428) to 6225 Added NaOH(81002) to 6217S, 6225, 62170, 6213 dup Project No./ Lab I.D. 23070389-001
3	A214		7/26/23	1148		5	2	1	1	1	1														002	
4	A215	*	7/26/23	1315		5	2	1	1	1	1														003	
5	APW02					6	2	2	2																004	
6	APW03																									005
7	APW04																									006
8	APW05																									007
9	APW05S																									008
10	APW06																									009
11	APW07																									010
12	APW08																									011
13	APW09																									012
14	APW10																									013
15	APW11																									014
16	APW12																									015
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																
NEW-23Q3 Rev 0			Tracy Carroll	7/26/23	1815	Tracy Carroll		7/26/23	1805	8.4	Y	N														
*Well went Dry during reads										Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)													
SAMPLER NAME AND SIGNATURE																										
PRINT Name of SAMPLER: Tracy Carroll																										
SIGNATURE of SAMPLER: Tracy Carroll										DATE Signed (MM/DD/YY): 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.:	Quote Reference:
Phone: <b>(217) 753-8911</b>	Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>	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	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)	Project No./ Lab I.D.		
						DATE	TIME	Unpreserved	H <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	
																										MATRIX CODE (see valid codes to left)
1	G112				0																				23070389-033	
2	G113				0																					034
3	G114				2	1	1																			035
4	G114D				2	1	1																			036
5	G115				0																					037
6	G116				5	2	1	1	1																	038
7	G117				0																					039
8	G118				2	1	1																			040
9	G119				0																					041
10	G120				0																					042
11	G125				5	2	1	1	1																	043
12	G128				6	2	1	2	1																	044
13	G130				6	2	1	2	1																	045
14	G133				6	2	1	2	1																	046
15	G136				5	2	1	1	1																	047
16	G139				5	2	1	1	1																	048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS									
NEW-23Q3 Rev 0	Jan Farrell	7/26/23	1805	Tracy Carol	7/26/23	1805										

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: Tracy Carol							
SIGNATURE of SAMPLER: Jan Farrell			DATE Signed (MM/DD/YY): 7/26/23				





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

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 CL WPE WF 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	MW48S						0																		2307089-097	
2	R216						0																		098	
3	R217D				7-26-23	1249	6	2	2		1														099	
4	R219						5	2	1		1														100	
5	SG02						0																		101	
6	XPW01						6	2	2	2															102	
7	XPW02						6	2	2	2															103	
8	XPW03				7/26/23	1433	6	2	2	2															104	
9	XPW04						6	2	2	2															105	
10	XSG01						0																		106	
11	Field Blank						8	2	2	2	1														107	
12	APW02 Duplicate						6	2	2	2															108	
13	A213 Duplicate						5	2	1	1	1														109	
14	G104 Duplicate						5	2	1	1	1														110	
15																										
16																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<b>NEW-23Q3 Rev 0</b>	<i>Justin G... [Signature]</i>	7/26/23	1805	<i>[Signature]</i>	7/26/23	1805	

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>Justin G... [Signature]</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	7-26-23		



NEW 257-902  
23070389

### 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:		Page: 2 of 7	
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>		<b>REGULATORY AGENCY</b>	
				Address: <b>see Section A</b>			
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Quote Reference:		Site Location: <b>IL</b> STATE:	
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Project Manager:			
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:			

ITEM #	Section D Required Client Information		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)	Project No./ Lab I.D.				
	SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE					COLLECTED	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		
																										MATRIX CODE	CODE
1	APW13					6	2	2				✓					✓										23070389-017
2	APW14											✓						✓									018
3	APW15											✓						✓									019
4	APW16											✓						✓									020
5	APW17											✓						✓									021
6	APW18					6	2	2				✓						✓									022
7	G06D					2	1	1					✓														023
8	G104		7-27-23	0907		5	2	1	1	1																	024
9	G104D					2	1	1					✓														025
10	G104S					0																					026
11	G105					5	2	1	1	1																	027
12	G106		7-27-23	0814		5	2	1	1	1																	028
13	G108					2	1	1					✓														029
14	G109					0																					030
15	G110					0																					031
16	G111					0																					032

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<b>NEW-23Q3 Rev 0</b>	<i>J. Corp</i>	7-27	1635	<i>Desiree</i>	7/27	1035	0.8			
							#5			
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>Justin Corp</i>						DATE Signed (MM/DD/YY): <i>7-27-23</i>				
SIGNATURE of SAMPLER: <i>[Signature]</i>										

Desiree pH not reached LIR  
 PH checked 79929, 90719  
 pH added NaOH 6104, 6106, 6139, 2219, 6104 dup pH added HNO<sub>3</sub> LIR - WP 7128

# 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:		REGULATORY AGENCY	
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		NPDES    GROUND WATER    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: <b>(217) 753-8911</b> 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  <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    OL 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 ↓	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	G112						0																		23070389-033	
2	G113						0																			034
3	G114						2	1	1																	035
4	G114D						2	1	1																	036
5	G115						0																			037
6	G116						5	2	1	1	1															038
7	G117						0																			039
8	G118					7-17-13	0724	2	1	1																040
9	G119						0																			041
10	G120						0																			042
11	G125						5	2	1	1	1															043
12	G128						6	2	1	2	1															044
13	G130						6	2	1	2	1															045
14	G133						6	2	1	2	1															046
15	G136						5	2	1	1	1															047
16	G139					7-27-13	1258	5	2	1	1	1														048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS					
NEW-23Q3 Rev 0	J. Golp	7-27	1635	Justin Golp	7/27	1635	Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)		
SAMPLER NAME AND SIGNATURE												
PRINT Name of SAMPLER: Justin Golp												
SIGNATURE of SAMPLER: <i>[Signature]</i>							DATE Signed (MM/DD/YYYY): 7-27-13					

# CHAIN-OF-CUSTODY / Analytical Request Document

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
NEWTON POWER PLANT LANDFILL  
NEW-257-502

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

Page: 4 of 7

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

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

ITEM #	Section D Required Client Information  SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE	COLLECTED DATE	COLLECTED 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> O <sub>3</sub>	Methanol	Other												
1	G141					5	2	1											23070389-049							
2	G201		7/27/23	0958		2	1												050							
3	G202					2	1												051							
4	G203					2	1												052							
5	G208					2	1												053							
6	G217S					5	2	1			1								054							
7	G218					0													05T							
8	G220					2	1		1										056							
9	G221					5	2	1			1								057							
10	G222					2	1		1										058							
11	G223					2	1		1										059							
12	G224					2	1		1										060							
13	G225					5	2	1			1								061							
14	G230					6	2	1	2		1								062							
15	G231					6	2	1	2		1								063							
16	G232					6	2	1	2		1								064							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Cab	7-27	1635	Alison Cab	7/27	1035	

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: <u>Jason Cab</u>						
SIGNATURE of SAMPLER: <i>[Signature]</i>		DATE Signed (MM/DD/YY): <u>7-27-23</u>				

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

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

NEW-23Q3  
NEW-23Q3-02

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: 5 of 7	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey			
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp		<b>REGULATORY AGENCY</b>	
				Address: see Section A		NPDES    GROUND WATER    DRINKING WATER	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		UST    RCRA    OTHER	
Phone: (217) 753-8911    Fax:		Project Name:		Project Manager:		Site Location	
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:		STATE: IL	

ITEM #	Section D Required Client Information		Valid Matrix Codes		MATRIX CODE	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.						
	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	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										
1	G233								6	2	1	2															
2	G234								6	2	1	2															
3	G48MG						7-27-23	10:03	2	1		1															23070389-065
4	L1R						7-27-23	12:30	2	1		1															066
5	L201								0																		067
6	L202								0																		068
7	L203								0																		069
8	L204								0																		070
9	L205								0																		071
10	L301								2	1		1															072
11	M25-1								0																		073
12	M25-2								0																		074
13	M25-3								0																		075
14	M25-4								0																		076
15	M25-5								0																		077
16	M25-6								0																		078
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE		TIME		ACCEPTED BY / AFFILIATION			DATE		TIME		SAMPLE CONDITIONS										
NEW-23Q3 Rev 0			J. Cap			7-27		1635		Allison Cole			7/27		11035												

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:	J. Cap					
SIGNATURE OF SAMPLER:	[Signature]		DATE Signed (MMDD/YY):	7-27-23		

# 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:		<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 UST    RCRA    OTHER	
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>		Site Location <b>IL</b> STATE:	
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 #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No / Lab I.D.			
						DATE	TIME	Unpreserved	H <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		
																										MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)
1	M25-7				0																					23070389-081	
2	M26-1				0																						082
3	M26-2				0																						083
4	M26-3				0																						084
5	M26-4				0																						085
6	M26-5				0																						086
7	M26-6				0																						087
8	M26-7				0																						088
9	MW31S				0																						089
10	MW33S				0																						090
11	MW34D		7-27-23	10:28	2	1		1																			091
12	MW35D		7-27-23	9:19	2	1		1																			092
13	MW35S				0																						093
14	MW36S		7-27-23	10:58	0																						094
15	MW43D		<del>7-27-23</del>	<del>14:33</del>	2	1		1																			095
16	MW46D	OKV	7-27-23	OKV	2	1		1																			096

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
<b>NEW-23Q3 Rev 0</b>	J. G. [Signature]	7-27	1635	Allen [Signature]	7/27	1035			

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	J. G. [Signature]				
SIGNATURE of SAMPLER:	[Signature]	DATE Signed (MM/DD/YY):	7-27-23		

# CHAIN-OF-CUSTODY / Analytical Request Document

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

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

NEWTON POWER PLANT, LANDFILL 2

NEW-257-302

APPENDIX A.

Page: 7 of 7

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: 7 of 7	
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		<b>REGULATORY AGENCY</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>		NPDES <b>GROUND WATER</b> DRINKING WATER	
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quote Reference:		UST    RCRA    OTHER	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:		Site Location	
				Profile #:		STATE: <b>IL</b>	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							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	Analysis Test ↓	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501			NEW-NPDES-501	NEW-SUP-000
							MATRIX TYPE (see valid codes to left)	C=COMP	MATRIX CODE (see valid codes to left)	C=COMP	Analysis Test ↓	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000						
1	MW48S					0														23070389-197				
2	R216					0														098				
3	R217D					6	2	1	2	1			✓	✓						099				
4	R219		7-27-13	1210		5	2	1	1	1			✓							100				
5	SG02					0					✓				✓					101				
6	XPW01					6	2	2	2		✓				✓		✓			102				
7	XPW02					6	2	2	2		✓				✓		✓			103				
8	XPW03					6	2	2	2		✓				✓		✓			104				
9	XPW04					6	2	2	2		✓				✓		✓			105				
10	XSG01					0					✓				✓					106				
11	Field Blank					8	2	3	2	1	✓	✓	✓	✓	✓	✓	✓			107				
12	APW02 Duplicate					6	2	2	2		✓				✓	✓	✓			108				
13	A213 Duplicate					5	2	1	1	1			✓							109				
14	G104 Duplicate		7-27-13	09107		5	2	1	1	1				✓						110				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<b>NEW-23Q3 Rev 0</b>	<i>J. Cobb</i>	7-27	1635	<i>Allen Miller</i>	7/27	1635	

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Justin Cobb</i>				
SIGNATURE of SAMPLER:	<i>Justin Cobb</i>	DATE Signed (MM/DD/YY):	7-27-13		



23072389

### 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	GROUND WATER	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>	<b>Site Location</b>	<b>IL</b>	
Phone: <b>(217) 753-8911</b> Fax:	Project Name:	Quote Reference:	<b>STATE:</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	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	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	A207						0																					23072389-001	
2	A213						5	2	1	1																		002	
3	A214						5	2	1	1																		003	
4	A215						5	2	1	1																		004	
5	APW02						6	2	2	2																		005	
6	APW03				7-31-23																								006
7	APW04				7-31-23																								007
8	APW05																												008
9	APW05S																												009
10	APW06																												010
11	APW07																												011
12	APW08				7-31-23																								012
13	APW09				7-31-23																								013
14	APW10				7-31-23																								014
15	APW11																												015
16	APW12																												016

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS							
NEW-23Q3 Rev 0	J. Cobb	7-31	1715	Justin Cobb	7/31/23	1715	Y	N	N	N				
	Jeanne Fazzoli	8/1/23	805	Jeanne Fazzoli	8/1/23	0805	Y	N	N	N				

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:	Justin Cobb				
SIGNATURE of SAMPLER:	J. Cobb				
	DATE Signed (MM/DD/YY):	7-31-23			

PMW07.9. Added HNO3 LTA #1  
Added to total one dissolved from  
APW-13. GRP 8-1-23.

NEW-23Q3  
23070389

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

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

Page: 2 of 7

<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: <b>(217) 753-8911</b> 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	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
1	APW13				7-31-23	1214	6	2	2	2												23070389-017
2	APW14				7-31-23	1233																018
3	APW15																					019
4	APW16				7-31-27	1537																020
5	APW17																					021
6	APW18						6	2	2	2												022
7	G06D						2	1	1													023
8	G104						5	2	1	1	1											024
9	G104D						2	1	1													025
10	G104S						0															026
11	G105						5	2	1	1	1											027
12	G106						5	2	1	1	1											028
13	G108						2	1	1													029
14	G109						0															030
15	G110						0															031
16	G111						0															032

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<b>NEW-23Q3 Rev 0</b>	J. Corp	7/31	1715	Jeanette Corroch	7/31/23	1715	
	Jeanette Corroch	8/1/23	805	Prince, Dallas	8/1/23	0805	

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: <b>Justin Corp</b>					
SIGNATURE of SAMPLER: <i>Justin Corp</i>					
DATE Signed (MM/DD/YY): <b>7-31-23</b>					

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

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

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

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	PRESERVATIVES	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Project No./ Lab I.D.											
					DATE	TIME	# OF CONTAINERS	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>8</sub>	Methanol	Other	Analysis Test ↓													
																MATRIX CODE			SAMPLE TYPE (G=GRAB, C=COMP)	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000			
1	APW13				6	2	2	2											23070389-017										
2	APW14				1														018										
3	APW15		8-1-23	0839															019										
4	APW16																		020										
5	APW17				1														021										
6	APW18				6	2	2	2											022										
7	G06D		8-1-23	064	2	1	1												023										
8	G104				5	2	1	1	1										024										
9	G104D	Went Dry	8-1-23	1131	2	1	1												025										
10	G104S				0														026										
11	G105		8-1-23	064	5	2	1	1	1										027										
12	G106				5	2	1	1	1										028										
13	G108	Ardunduch	8-1-23	N/A	2	1	1												029										
14	G109				0														030										
15	G110				0														031										
16	G111				0														032										
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																		
NEW-23Q3 Rev 0			J. GIP		8-2	1000	Allison Cole		8/2	10:00						3.4													

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: <b>Justin GIP</b>	SIGNATURE of SAMPLER: <b>[Signature]</b>				
DATE Signed (MM/DD/YYYY): <b>8-1-23</b>					

G104D HNO3 container empty. 8/2/23 LG: 1 1000  
Split for metals analysis. Gms 8/2/23 PRO719/7729. ADDED NaOH (91663)  
to 6116, 6130 and 1131 on 8-2-23

# CHAIN-OF-CUSTODY / Analytical Request Document

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

NEWTON POWER PLANT LANDFILL 2

NEW-237-902

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

APPENDIX A.

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: 3 of 7			
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		<b>REGULATORY AGENCY</b>			
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>				NPDES    GROUND WATER    DRINKING WATER	
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>				UST    RCRA    OTHER	
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quote Reference:		Site Location 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	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)	Project No./ Lab I.D.			
						DATE	TIME	Unpreserved	H <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-846-501	NEW-NPDES-501
1	G112				0																			33070389-033
2	G113				0																			034
3	G114		8-1-23	1214	2	1	1																	035
4	G114D		8-1-23	1155	2	1	1																	036
5	G115				0																			037
6	G116		8-1-23	1500	5	2	1	1	1															038
7	G117				0																			039
8	G118				2	1	1																	040
9	G119				0																			041
10	G120				0																			042
11	G125				5	2	1	1	1															043
12	G128				6	2	1	2	1															044
13	G130		8-1-23	1013	6	2	1	2	1															045
14	G133		8-1-23	0945	6	2	1	2	1															046
15	G136		8-1-23	1047	5	2	1	1	1															047
16	G139				5	2	1	1	1															048

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
NEW-23Q3 Rev 0		J. Cap		8-2	1000	Allison Cole		8/2	10:00				
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>JUSTIN CAP</i>													
SIGNATURE of SAMPLER: <i>[Signature]</i>													

# CHAIN-OF-CUSTODY / Analytical Request Document

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: <b>4</b> of <b>7</b>			
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>		<b>REGULATORY AGENCY</b>			
				Address: <b>see Section A</b>				<b>NPDES GROUND WATER DRINKING WATER</b>	
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Quote Reference:				<b>UST RCRA OTHER</b>	
Phone: <b>(217) 753-8911</b>	Fax:	Project Name:		Project Manager:		<b>Site Location</b>			
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:		<b>STATE:</b> 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 Y/N	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)	Project No./ Lab I.D.							
	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		DRINKING WATER	WATER			WASTE WATER	PRODUCT			SOIL/SOLID	OIL	WASTE	AIR	OTHER	TISSUE	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
	DATE	TIME	DW	WT			WW	P			SL	OL	WP	AR	OT	TS																		
1	G141									5	2	1	1	1															23070389-049					
2	G201									2	1	1																	050					
3	G202	7-1-23	DRY							2	1	1																	051					
4	G203	8-1-23	1316							2	1	1																	052					
5	G208									2	1	1																	053					
6	G217S									5	2	1	1	1															054					
7	G218									0																			055					
8	G220									2	1	1																	056					
9	G221									5	2	1	1	1															057					
10	G222									2	1	1																	058					
11	G223									2	1	1																	059					
12	G224									2	1	1																	060					
13	G225									5	2	1	1	1															061					
14	G230									6	2	1	2	1															062					
15	G231									6	2	1	2	1															063					
16	G232									6	2	1	2	1															064					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Cop	8/2	10:00	Justin Cop	8/2	10:00	

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: Justin Cop	SIGNATURE of SAMPLER: <i>Justin Cop</i>				
DATE Signed (MM/DD/YY): 8-1-23					

### 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> NPDES    GROUND WATER    DRINKING WATER USF    RCRA    OTHER Site Location: IL STATE:		
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>		Profile #:				

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	NEW-SUP-000
1	G233						6	2	1	2	1											2307038A-005				
2	G234						6	2	1	2	1												066			
3	G48MG						2	1	1														067			
4	L1R						2	1	1														068			
5	L201						0																069			
6	L202						0																070			
7	L203						0																071			
8	L204						0																072			
9	L205						0																073			
10	L301	inoperable		8-23	N/A		2	1	1														074			
11	M25-1						0																075			
12	M25-2						0																076			
13	M25-3						0																077			
14	M25-4						0																078			
15	M25-5						0																079			
16	M25-6						0																080			
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS															
NEW-23Q3 Rev 0			J. Culp		8-2	10:00	Allison Colm		8/2	10:00																

<b>SAMPLER NAME AND SIGNATURE</b>				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>J. Culp</i>		SIGNATURE of SAMPLER: <i>[Signature]</i>					







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

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<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: <b>(217) 753-8911</b> 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  <b>SAMPLE ID</b> (A-Z, 0-9 / . - ) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE GROUND 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	APW02				8-17-23	1123		6	2	2	2											23070389-116					
2	APW02 Duplicate				8-17-23	1123		6	2	2	2												-117				
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											
13																											
14																											
15																											
16																											

OH ✓ 90719  
JSM 8/17/23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NEW-23Q3 Rev 0 Resampling, only.	J. Colp	8-17	1400	Justin Colp Delaer	8/17/23	1400	1.2	Y	N	Y

UT61

<b>SAMPLER NAME AND SIGNATURE</b>			
PRINT Name of SAMPLER:	Justin Colp		
SIGNATURE of SAMPLER:	<i>Justin Colp</i>		
DATE Signed (MM/DD/YY):	8-17-23		
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-023A
Technician	BG,JC,TAC
Well ID	Date

Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
------	------------	-----	----------	--------------	--------------	---------	-----------------	-------------------------	------------	-----------------	----------	--------------------

G06D

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Newton 3Q 2023														
LIMS Workorder	23070389-050A														
Technician	BG,JC,TAC														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)	
G201	7/27/2023	9:31	0931	17.31		16.3	61.34	7.37			7.98	8.07	47.2		
G201	7/27/2023	9:49	0949	17.31		16.6	61.88	7.47			0.7	15.23	60.6		
G201	7/27/2023	9:52	0952	17.31		16.6	61.88	7.42			0.48	11.82	54.9		
G201	7/27/2023	9:55	0955	17.31		16.8	62.24	7.41			0.42	11.4	50		
G201	7/27/2023	9:58	0958	17.31		16.8	62.24	7.39			0.41	10.27	45.2		

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-051A
Technician	BG,JC,TAC
Well ID	Date

Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
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G202



Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Newton 3Q 2023														
LIMS Workorder	23070389-052A														
Technician	BG,JC,TAC														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)	
G203	8/1/2023	13:07	1307	42.23		14.3	57.74	7.36	2080.5	2080.5	1.36	136.83	63.2		
G203	8/1/2023	13:10	1310	42.23		14.3	57.74	7.33	2066.5	2066.5	1.27	98.54	51.8		
G203	8/1/2023	13:13	1313	42.23		14.3	57.74	7.32	2053	2053	1.1	40.21	40.8		
G203	8/1/2023	13:16	1316	42.23		14.2	57.56	7.31	2038.5	2038.5	1.15	24.97	30.9		

APPENDIX A.  
 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 NEWTON POWER PLANT, LANDFILL 2  
 NEW-257-502

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Newton 3Q 2023														
LIMS Workorder	23070389-053A														
Technician	BG,JC,TAC														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)	
G208	7/25/2023	14:32	1432	28.55				7.14			0.88	50.59	73.7		
G208	7/25/2023	14:35	1435	28.55				7.13			0.57	53.26	45.2		
G208	7/25/2023	14:38	1438	28.55				7.14			0.48	40.64	17.5		
G208	7/25/2023	14:41	1441	28.55				7.15			0.58	33.09	-6.5		
G208	7/25/2023	14:44	1444	28.55				7.17			0.6	25	-24		
G208	7/25/2023	14:47	1447	28.55		17.1	62.78	7.18			0.6	17.51	-35.7		
G208	7/25/2023	14:50	1450	28.55		17.3	63.14	7.19			0.58	15.21	-43.5		
G208	7/25/2023	14:53	1453	28.55		17	62.6	7.2			0.6	11.41	-48.8		

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Newton 3Q 2023														
LIMS Workorder	23070389-056A														
Technician	BG,JC,TAC														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)	
G220	7/26/2023	7:42	0742	18.51		14.8	58.64	6.69	919.6	919.6	0.33	74.09	-41		
G220	7/26/2023	7:45	0745	18.51		14.9	58.82	6.7	919.2	919.2	0.34	67.9	-43.9		
G220	7/26/2023	7:48	0748	18.51		14.9	58.82	6.72	921	921	0.3	65.49	-46.5		
G220	7/26/2023	7:51	0751	18.51		14.9	58.82	6.73	920.8	920.8	0.27	62.09	-48.8		

APPENDIX A.  
 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 NEWTON POWER PLANT, LANDFILL 2  
 NEW-257-502

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Newton 3Q 2023													
LIMS Workorder	23070389-058A													
Technician	BG,JC,TAC													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G222	7/26/2023	11:37	1137	15.42		15	59	6.93	1302.1	1302.1	0.43	10.64	-21.6	
G222	7/26/2023	11:40	1140	15.42		15	59	6.94	1306.7	1306.7	0.39	5.85	-30.7	
G222	7/26/2023	11:43	1143	15.42		15.2	59.36	6.94	1300.6	1300.6	0.4	4.15	-37.6	

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
NEWTON POWER PLANT, LANDFILL 2  
NEW-257-502

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Newton 3Q 2023														
LIMS Workorder	23070389-059A														
Technician	BG,JC,TAC														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)	
G223	7/26/2023	10:06	1006	32.78		15.9	60.62	6.54	5134.7	5134.7	0.46	185.53	-84.2		
G223	7/26/2023	10:09	1009	32.78		16	60.8	6.57	5184.7	5184.7	0.45	147.25	-75.3		
G223	7/26/2023	10:12	1012	32.78		15.9	60.62	6.59	5196	5196	0.45	96.42	-71.4		
G223	7/26/2023	10:15	1015	32.78		15.3	59.54	6.6	5194.5	5194.5	0.45	64.99	-71.9		
G223	7/26/2023	10:18	1018	32.78		15.2	59.36	6.61	5172.6	5172.6	0.45	34.16	-75.1		
G223	7/26/2023	10:21	1021	32.78		15.2	59.36	6.61	5117	5117	0.44	20.74	-79.6		
G223	7/26/2023	10:24	1024	32.78		15.3	59.54	6.61	5053.8	5053.8	0.44	14.89	-84.8		

APPENDIX A.  
 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 NEWTON POWER PLANT, LANDFILL 2  
 NEW-257-502

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Newton 3Q 2023														
LIMS Workorder	23070389-060A														
Technician	BG,JC,TAC														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)	
G224	7/26/2023	12:24	1224	42.94		16.5	61.7	7.12	1764.9	1764.9	0.46	389	-63.6		
G224	7/26/2023	12:27	1227	42.94		16.4	61.52	7.1	1761.6	1761.6	0.45	276.71	-72.5		
G224	7/26/2023	12:30	1230	42.94		16.5	61.7	7.09	1760.4	1760.4	0.43	208.36	-79.2		
G224	7/26/2023	12:33	1233	42.94		16.6	61.88	7.08	1755.3	1755.3	0.42	176.73	-84.7		
G224	7/26/2023	12:36	1236	42.94		16.5	61.7	7.08	1753.1	1753.1	0.42	150.28	-89		



APPENDIX A.  
 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 NEWTON POWER PLANT, LANDFILL 2  
 NEW-257-502

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-063A
Technician	BG,JC,TAC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G231	7/25/2023	11:06	1106	49.98		17.3	63.14	7.21	18.3	18.3	9.39	12.38	129.6	
G231	7/25/2023	11:09	1109	49.98		19.9	67.82	7.22	14.3	14.3	9.22	7.31	131.1	
G231	7/25/2023	11:12	1112	49.98		22.4	72.32	7.39	13.7	13.7	8.81	7.14	129.3	

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Newton 3Q 2023													
LIMS Workorder	23070389-064A													
Technician	BG,JC,TAC													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G232	7/25/2023	11:51	1151	46.32		17.4	63.32	7.09	17.9	17.9	8.87	6.22	-69.8	
G232	7/25/2023	11:54	1154	46.32		19.6	67.28	7.36	14.6	14.6	9.2	6.39	-35.6	
G232	7/25/2023	11:57	1157	46.32		22	71.6	7.49	13.3	13.3	8.85	6.83	-22.3	

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Newton 3Q 2023														
LIMS Workorder	23070389-065A														
Technician	BG,JC,TAC														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)	
G233	7/25/2023	13:15	1315	44.33		15.1	59.18	7.12	1406.5	1406.5	0.97	9.88	-94.7		
G233	7/25/2023	13:18	1318	44.33		15.7	60.26	7.1	15.3	15.3	8.92	29.35	-57.9		
G233	7/25/2023	13:21	1321	44.33		16.8	62.24	7	1552	1552	1.69	11.93	-72.5		
G233	7/25/2023	13:24	1324	44.33		16.2	61.16	6.96	1639.4	1639.4	1.45	12.57	-84.5		

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-099A
Technician	BG,JC,TAC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
R217D	7/26/2023	12:43	1243	19.31		16.3	61.34	6.34			0.19	480.75	27.1	
R217D	7/26/2023	12:46	1246	19.31		16.5	61.7	6.35			0.19	411	25.1	
R217D	7/26/2023	12:49	1249	19.31		16.8	62.24	6.36			0.18	442.07	23.2	

R217D

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Newton 3Q 2023													
LIMS Workorder	23070389-113A													
Technician	BG,JC,TAC													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G231 (resample)	8/16/2023	11:24	1124	49.98		15.5	59.9	7.37	1955.6	1955.6	0.47	130.75	-131	
G231 (resample)	8/16/2023	11:27	1127	49.98		15.4	59.72	7.37	1944.3	1944.3	0.47	123.49	-132.2	
G231 (resample)	8/16/2023	11:30	1130	49.98		15.6	60.08	7.37	1938.4	1938.4	0.47	114.65	-133.3	

APPENDIX A.  
 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 NEWTON POWER PLANT, LANDFILL 2  
 NEW-257-502

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-114A
Technician	BG,JC,TAC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G232 (resample)	8/16/2023	12:06	1206	46.32		15.5	59.9	7.42	1955.8	1955.8	0.48	110.15	-132.3	
G232 (resample)	8/16/2023	12:09	1209	46.32		15.4	59.72	7.41	1945.6	1945.6	0.47	98.15	-133.2	
G232 (resample)	8/16/2023	12:12	1212	46.32		15.1	59.18	7.41	1931.6	1931.6	0.48	93.09	-133.9	



### Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other: _____					
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/units		
LCS	7-24-23	1046	26.1		6.98			1385							
ccv	7-24-23	1603	25.4		7.01			1536							

\*\*\*\* Field Meter ID for Temp, pH & Conductivity : \_\_\_\_\_

\*\*\*\* Field Meter ID for ( \_\_\_\_\_ ) : \_\_\_\_\_

	SW846	Std Methods		Lot #		Lot #	Lot #
Field Temp SOP 1156		2550 B	pH 4.0 Buffer	WC230418A	Conductivity Std. _____	_____	Std. _____
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer	WC230210B	Conductivity Std. _____	_____	Std. _____
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer	WC230504C	Conductivity Std. _____	_____	Std. _____
Other: _____			pH LCS/LCSD _7_	WC230504B	Conductivity LCS/LCSD _____	_____	LCS/LCSD _____

pH Calibration  
 Date: 7-24-23  
 Time: 0758

Reading	4.01
	7.02
	10.01

Field Analyst Sig & Date: MLA Cu 7-24-23  
 Reviewed By & Date: \_\_\_\_\_  
 Reviewed By & Date: \_\_\_\_\_

Conductivity Calibration

_____	μS	0-199.9	Reading	_____	units	_____
_____	μS	0-1999		1410	μS	_____
_____	mS	0-19.99		_____	mS	_____

Field Analyst Sig & Date: MLA Cu 7-24-23  
 Reviewed By & Date: \_\_\_\_\_  
 Reviewed By & Date: \_\_\_\_\_

\_\_\_\_\_ Calibration Reading

Std _____	Units _____	_____
Std _____	Units _____	_____
Std _____	Units _____	_____

Field Analyst Sig & Date: \_\_\_\_\_  
 Reviewed By & Date: \_\_\_\_\_  
 Reviewed By & Date: \_\_\_\_\_

Comments:

## Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other: _____				
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/units	
LCS	7-25-23	0712	25.6		7.03			1412						
CCV	7-25-23	0319	24.8		7.06			1471						

\*\*\*\* Field Meter ID for Temp, pH & Conductivity : \_\_\_\_\_

SW846	Std Methods	Lot #	pH 4.0 Buffer	pH 7.0 Buffer	pH 10.0 Buffer	pH LCS/LCSD _7_	Conductivity Std. _____	Conductivity Std. _____	Conductivity Std. _____	Conductivity LCS/LCSD _____
Field Temp SOP 1156	2550 B		WC230418A	WC230210B	WC230504C	WC230504B	_____	_____	_____	_____
pH in the Field SOP 1152	4500-H B						_____	_____	_____	_____
Field Cond. SOP 1155	2510 B						_____	_____	_____	_____
Other: _____							_____	_____	_____	_____

pH Calibration	Reading	Conductivity Calibration	Reading	units	Calibration	Reading
Date: 7-25-23	4.01	_____	0-199.9	_____	Std _____	_____
Time: 0651	6.98	_____	0-1999	1497 JK 1457	Std _____	_____
	9.98	_____	0-19.99	_____	Std _____	_____

Field Analyst Sig & Date: MAW CW 7-25-23

Reviewed By & Date: \_\_\_\_\_

Reviewed By & Date: \_\_\_\_\_

Comments:

## Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other:					
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/units		
LCS	7-25-23	9:22	24.7		7.02			1413							
ccv	7-25-23	0314	23.8		7.04			1443							

\*\*\*\* Field Meter ID for Temp, pH & Conductivity : \_\_\_\_\_

Field Temp SOP 1156	SW846	Std Methods	pH 4.0 Buffer	Lot #	Conductivity Std. _____	Std. _____	Lot #
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer	WC230418A	Conductivity Std. _____	Std. _____	Lot #
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer	WC230210B	Conductivity Std. _____	Std. _____	Lot #
Other: _____			pH LCS/LCSD _7_	WC230504C	Conductivity LCS/LCSD _____	Std. _____	Lot #
				WC230504B		LCS/LCSD _____	

<p>pH Calibration</p> <p>Date: 7-25-23</p> <p>Time: 9:09</p> <p>Field Analyst Sig &amp; Date: <u>Bert Gilman 7-25-23</u></p> <p>Reviewed By &amp; Date: _____</p> <p>Reviewed By &amp; Date: _____</p>	<p>Conductivity Calibration</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td>_____ μS</td> <td>0-199.9</td> <td>_____ μS</td> </tr> <tr> <td>_____ μS</td> <td>0-1999</td> <td>1425 μS</td> </tr> <tr> <td>_____ mS</td> <td>0-19.99</td> <td>_____ mS</td> </tr> </table> <p>Field Analyst Sig &amp; Date: <u>Bert Gilman 7-25-23</u></p> <p>Reviewed By &amp; Date: _____</p> <p>Reviewed By &amp; Date: _____</p>	_____ μS	0-199.9	_____ μS	_____ μS	0-1999	1425 μS	_____ mS	0-19.99	_____ mS	<p>_____ Calibration</p> <p>Std _____ Units _____</p> <p>Std _____ Units _____</p> <p>Std _____ Units _____</p> <p>Field Analyst Sig &amp; Date: _____</p> <p>Reviewed By &amp; Date: _____</p> <p>Reviewed By &amp; Date: _____</p>
_____ μS	0-199.9	_____ μS									
_____ μS	0-1999	1425 μS									
_____ mS	0-19.99	_____ mS									

Comments:

### Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other:				
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/units	
LCS	7-26-23	0706	24.8		7.03			1415						
ccv	7-26-23	1458	23.2		6.98			1436						

\*\*\*\* Field Meter ID for Temp, pH & Conductivity : \_\_\_\_\_

Field Temp SOP 1156	SW846	Std Methods	2550 B	pH 4.0 Buffer	WC230418A	Conductivity Std. _____	Lot # _____
pH in the Field SOP 1152	9040B	4500-H B		pH 7.0 Buffer	WC230210B	Conductivity Std. _____	Lot # _____
Field Cond. SOP 1155	9050A	2510 B		pH 10.0 Buffer	WC230504C	Conductivity Std. _____	Lot # _____
Other: _____				pH LCS/LCSD _7_	WC230504B	Conductivity LCS/LCSD _____	Lot # _____

pH Calibration	Reading	4.01	Conductivity Calibration	Reading	units	Std	Calibration	Reading
Date: 7-26-23		7.01			μS			
Time: 0649		9.98			0-199.9			
					μS			
					0-1999			
					mS			
					0-19.99			

Field Analyst Sig & Date: <u>ADG CL 7-26-23</u>	Field Analyst Sig & Date: <u>ADG CL 7-26-23</u>	Field Analyst Sig & Date: _____
Reviewed By & Date: _____	Reviewed By & Date: _____	Reviewed By & Date: _____
Reviewed By & Date: _____	Reviewed By & Date: _____	Reviewed By & Date: _____

Comments:

## Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other:				
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/units	
LCS	7-27-23	7:54	28.01	7.02	7.05									
ccv	7-27-23	13:04	27.09	7.05	7.06									

\*\*\*\* Field Meter ID for Temp, pH & Conductivity : \_\_\_\_\_

\*\*\*\* Field Meter ID for ( \_\_\_\_\_ ) : \_\_\_\_\_

	SW846	Std Methods	pH 4.0 Buffer	Lot #	Conductivity Std.	Lot #	Lot #
Field Temp SOP 1156		2550 B	pH 4.0 Buffer	WC230418A	_____	_____	_____
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer	WC230210B	_____	_____	_____
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer	WC230504C	_____	_____	_____
Other: _____			pH LCS/LCSD _7_	WC230504B	_____	_____	_____

pH Calibration  
 Date: 7-27-23  
 Time: 7:30  
 Reading: 4.01  
 Reading: 7.0  
 Reading: 10.02  
 Field Analyst Sig & Date: Brent Gill - 7-27-23  
 Reviewed By & Date: \_\_\_\_\_  
 Reviewed By & Date: \_\_\_\_\_

Conductivity Calibration  
 Reading: 1412  
 Reading: 1412  
 Reading: 1412  
 units: μS, μS, mS  
 0-199.9, 0-1999, 0-19.99  
 Field Analyst Sig & Date: Brent Gill: 7-27-23  
 Reviewed By & Date: \_\_\_\_\_  
 Reviewed By & Date: \_\_\_\_\_

Calibration  
 Std \_\_\_\_\_ Units \_\_\_\_\_  
 Std / \_\_\_\_\_ Units \_\_\_\_\_  
 Std \_\_\_\_\_ Units \_\_\_\_\_  
 Field Analyst Sig & Date: \_\_\_\_\_  
 Reviewed By & Date: \_\_\_\_\_  
 Reviewed By & Date: \_\_\_\_\_

Comments:

### Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other:					
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/units		
LCS	7-27-23	0709	26.3		7.02			1425							
ccv	7-27-23	1325	26.8		7.03			1442							

\*\*\*\* Field Meter ID for Temp, pH & Conductivity : \_\_\_\_\_

Field Temp SOP 1156	SW846	Std Methods	Lot #	**** Field Meter ID for ( _____ ) :	Lot #	Lot #
pH in the Field SOP 1152	9040B	4500-H B	WC230418A	Conductivity Std. _____	_____	_____
Field Cond. SOP 1155	9050A	2510 B	WC230210B	Conductivity Std. _____	_____	_____
Other: _____			WC230504C	Conductivity Std. _____	_____	_____
			WC230504B	Conductivity LCS/LCSD _____	_____	_____

pH Calibration	Reading	Conductivity Calibration	Reading	units	_____	Calibration	Reading
Date: 7-27-23	4.01	_____	0-199.9	µS	_____	Std _____	Units _____
Time: 0649	7.00	_____	0-1999	µS	1412	Std _____	Units _____
	9.99	_____	0-19.99	mS	_____	Std _____	Units _____

Field Analyst Sig & Date: <u>[Signature]</u> 7-27-23	Field Analyst Sig & Date: <u>[Signature]</u> 7-27-23	Field Analyst Sig & Date: _____
Reviewed By & Date: _____	Reviewed By & Date: _____	Reviewed By & Date: _____
Reviewed By & Date: _____	Reviewed By & Date: _____	Reviewed By & Date: _____

Comments:



## Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other:				
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/units	
LCS	7-31-23	24.8 107	24.8		7.03			1422						
CCV	7-31-23	1552	21.3		7.02			1457						

\*\*\*\* Field Meter ID for Temp, pH & Conductivity : \_\_\_\_\_

\*\*\*\* Field Meter ID for ( \_\_\_\_\_ ) : \_\_\_\_\_

	SW846	Std Methods	pH Buffer	Lot #	Conductivity Std.	Lot #	Lot #
Field Temp SOP 1156		2550 B	pH 4.0 Buffer	WC230418A	_____	_____	_____
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer	WC230210B	_____	_____	_____
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer	WC230504C	_____	_____	_____
Other: _____			pH LCS/LCSD _7_	WC230504B	_____	_____	_____

pH Calibration	Conductivity Calibration	Calibration	Calibration
Reading	Reading	Reading	Reading
4.00	μS 0-199.9	_____	_____
7.01	μS 0-1999	_____	_____
9.99	mS 0-19.99	_____	_____
Date: 7-31-23		Std _____ Units _____	Std _____ Units _____
Time: 1050		Std _____ Units _____	Std _____ Units _____
Field Analyst Sig & Date: <u>[Signature]</u> 7-31-23	Field Analyst Sig & Date: <u>[Signature]</u> 7-31-23	Field Analyst Sig & Date: _____	Field Analyst Sig & Date: _____
Reviewed By & Date: _____	Reviewed By & Date: _____	Reviewed By & Date: _____	Reviewed By & Date: _____
Reviewed By & Date: _____	Reviewed By & Date: _____	Reviewed By & Date: _____	Reviewed By & Date: _____

Comments:

## Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other:				
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/units	
LCS	8-1-23	0806	21.6		7.02			1418						
CCV	8-1-23	1521	22.3		7.02			1459						

\*\*\*\* Field Meter ID for Temp, pH & Conductivity : \_\_\_\_\_

Field Temp SOP 1156	SW846	Std Methods	pH 4.0 Buffer	Lot #	Conductivity Std. _____	Lot #	Lot #
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer	WC230418A	_____	_____	_____
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer	WC230210B	_____	_____	_____
Other: _____			pH LCS/LCSD _7_	WC230504C	_____	_____	_____
				WC230504B	_____	_____	_____

<p>pH Calibration</p> <p>Date: 8-1-23</p> <p>Time: 0746</p>	<p>Reading</p> <p>4.00</p> <hr/> <p>6.99</p> <hr/> <p>9.98</p>	<p>Conductivity Calibration</p> <p>_____ μS 0-199.9</p> <p>_____ μS 0-1999</p> <p>_____ mS 0-19.99</p>	<p>Reading</p> <p>1413</p>	<p>units</p> <p>μS</p> <p>μS</p> <p>mS</p>	<p>_____ Calibration</p> <p>Std _____ Units _____</p> <p>Std _____ Units _____</p> <p>Std _____ Units _____</p>
<p>Field Analyst Sig &amp; Date: <u>MSW 8-1-23</u></p> <p>Reviewed By &amp; Date: _____</p> <p>Reviewed By &amp; Date: _____</p>		<p>Field Analyst Sig &amp; Date: <u>MSW 8-1-23</u></p> <p>Reviewed By &amp; Date: _____</p> <p>Reviewed By &amp; Date: _____</p>			<p>Field Analyst Sig &amp; Date: _____</p> <p>Reviewed By &amp; Date: _____</p> <p>Reviewed By &amp; Date: _____</p>

Comments:

## Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time Temp °C	Temp. Time	pH Results			Conductivity			Other: _____				
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/units	
LCS	8-16-23	20.8	1009		7.02			1425						
CCV	8-16-23	1329	21.2		7.03			1439						

\*\*\*\* Field Meter ID for Temp, pH & Conductivity : \_\_\_\_\_

Field Temp SOP 1156	SW846	Std Methods	pH 4.0 Buffer	Lot #	Conductivity Std. _____	Lot #	Std. _____
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer	_____	Conductivity Std. _____	_____	Std. _____
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer	_____	Conductivity Std. _____	_____	Std. _____
Other: _____			pH LCS/LCSD __7__	_____	Conductivity LCS/LCSD _____	_____	LCS/LCSD _____

\*\*\*\* Field Meter ID for ( \_\_\_\_\_ ) : \_\_\_\_\_

pH Calibration	Reading	Conductivity Calibration	Reading	units	Calibration	Reading
Date: 8-16-23	4.00	_____ μS	0-199.9	μS	Std. _____	_____
Time: 0851	7.01	_____ μS	0-1999	μS	Std. _____	_____
	10.01	_____ mS	0-19.99	mS	Std. _____	_____

Field Analyst Sig & Date: <u>Mister Coker 8-16-23</u>	Field Analyst Sig & Date: <u>8-16-23 [Signature]</u>	Field Analyst Sig & Date: _____
Reviewed By & Date: _____	Reviewed By & Date: _____	Reviewed By & Date: _____
Reviewed By & Date: _____	Reviewed By & Date: _____	Reviewed By & Date: _____

Comments:

## Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other: _____				
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/units	
LCS	8-17-23	1051	20.8		7.02			1431						
CCV	8-17-23	1135	21.3		7.02			1429						

\*\*\*\* Field Meter ID for Temp, pH & Conductivity : \_\_\_\_\_

SW846	Std Methods	Lot #	Lot #
Field Temp SOP 1156	2550 B	pH 4.0 Buffer	_____
pH in the Field SOP 1152	9040B	pH 7.0 Buffer	_____
Field Cond. SOP 1155	9050A	pH 10.0 Buffer	_____
Other: _____		pH LCS/LCSD __7__	_____

\*\*\*\* Field Meter ID for ( \_\_\_\_\_ ) : \_\_\_\_\_

Conductivity Std.	Lot #	Std.	Lot #
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

pH Calibration	Conductivity Calibration	Calibration
Reading _____	Reading _____ units	_____
4.01	_____ μS 0-199.9	Std _____ Units _____
7.00	_____ μS 0-1999	Std _____ Units _____
9.99	_____ mS 0-19.99	Std _____ Units _____
Date: 8-17-23	Field Analyst Sig & Date: <u>AWA CW 8-17-23</u>	Field Analyst Sig & Date: _____
Time: 1037	Reviewed By & Date: _____	Reviewed By & Date: _____
Field Analyst Sig & Date: <u>AWA CW 8-17-23</u>	Reviewed By & Date: _____	Reviewed By & Date: _____

Comments:

November 17, 2023

Eric Bauer  
Ramboll  
234 W. Florida Street  
Fifth Floor  
Milwaukee, WI 53204  
TEL: (414) 837-3607  
FAX: (414) 837-3608



Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

**RE: NEW-23Q4**

**WorkOrder: 23091794**

Dear Eric Bauer:

TEKLAB, INC received 5 samples for NEW\_257\_502 on 10/12/2023 5:02:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Elizabeth A. Hurley  
Director of Customer Service  
(618)344-1004 ex 33  
[ehurley@teklabinc.com](mailto:ehurley@teklabinc.com)



## Report Contents

<http://www.teklabinc.com/>

**Client:** Ramboll

**Work Order:** 23091794

**Client Project:** NEW-23Q4

**Report Date:** 17-Nov-23

**This reporting package includes the following:**

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Quality Control Results	12
Receiving Check List	86
Chain of Custody	Appended



**Client:** Ramboll

**Work Order:** 23091794

**Client Project:** NEW-23Q4

**Report Date:** 17-Nov-23

## Abbr Definition

\* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)



## Definitions

<http://www.teklabinc.com/>

**Client:** Ramboll

**Work Order:** 23091794

**Client Project:** NEW-23Q4

**Report Date:** 17-Nov-23

### Qualifiers

- # - Unknown hydrocarbon
- C - RL shown is a Client Requested Quantitation Limit
- H - Holding times exceeded
- J - Analyte detected below quantitation limits
- ND - Not Detected at the Reporting Limit
- S - Spike Recovery outside recovery limits
- X - Value exceeds Maximum Contaminant Level
- B - Analyte detected in associated Method Blank
- E - Value above quantitation range
- I - Associated internal standard was outside method criteria
- M - Manual Integration used to determine area response
- R - RPD outside accepted recovery limits
- T - TIC(Tentatively identified compound)



### Case Narrative

<http://www.teklabinc.com/>

**Client:** Ramboll  
**Client Project:** NEW-23Q4

**Work Order:** 23091794  
**Report Date:** 17-Nov-23

### Cooler Receipt Temp: 3.2 °C

An employee of Teklab, Inc. collected the sample(s).

T101 and T102 went dry; no sample volume was collected.

Date/times of collection for depth, only wells are per field file(s). EAH 10/13/23

G104 Duplicate collection date/time per G104 markings. EAH 10/19/23

Per Eric Bauer's request, only NEW\_257\_502 data is included in this report. EAH 11/17/23

### Locations

#### Collinsville

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
**Phone** (618) 344-1004  
**Fax** (618) 344-1005  
**Email** jhriley@teklabinc.com

#### Collinsville Air

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
**Phone** (618) 344-1004  
**Fax** (618) 344-1005  
**Email** EHurley@teklabinc.com

#### Springfield

**Address** 3920 Pintail Dr  
Springfield, IL 62711-9415  
**Phone** (217) 698-1004  
**Fax** (217) 698-1005  
**Email** KKlostermann@teklabinc.com

#### Chicago

**Address** 1319 Butterfield Rd.  
Downers Grove, IL 60515  
**Phone** (630) 324-6855  
**Fax**  
**Email** arenner@teklabinc.com

#### Kansas City

**Address** 8421 Nieman Road  
Lenexa, KS 66214  
**Phone** (913) 541-1998  
**Fax** (913) 541-1998  
**Email** jhriley@teklabinc.com



**Accreditations**

<http://www.teklabinc.com/>

**Client:** Ramboll

**Work Order:** 23091794

**Client Project:** NEW-23Q4

**Report Date:** 17-Nov-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q4  
Lab ID: 23091794-023  
Matrix: GROUNDWATER

Work Order: 23091794  
Report Date: 17-Nov-23

Client Sample ID: G06D

Collection Date: 10/11/2023 13:42

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		28.30	ft	1	10/11/2023 13:42	R338100
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		22	NTU	1	10/11/2023 13:42	R338100
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		-98	mV	1	10/11/2023 13:42	R338100
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		1280	µS/cm	1	10/11/2023 13:42	R338100
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		13.5	°C	1	10/11/2023 13:42	R338100
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.84	mg/L	1	10/11/2023 13:42	R338100
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		7.19		1	10/11/2023 13:42	R338100
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		818	mg/L	1	10/16/2023 14:55	R337809
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		0	mg/L	1	10/16/2023 14:55	R337809
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		840	mg/L	2.5	10/16/2023 10:14	R337858
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	6	10		11	mg/L	1	10/16/2023 23:31	R337819
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.92	mg/L	1	10/16/2023 11:40	R337786
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	5	40		50	mg/L	10	10/16/2023 23:36	R337841
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.035	0.100		117	mg/L	1	10/18/2023 17:55	213274
Magnesium	NELAP	0.006	0.050		51.0	mg/L	1	10/18/2023 17:55	213274
Potassium	NELAP	0.040	0.100		3.47	mg/L	1	10/18/2023 17:55	213274
Sodium	NELAP	0.018	0.050		158	mg/L	1	10/18/2023 17:55	213274
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	9.2	25.0		200	µg/L	5	10/16/2023 14:16	213274



**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q4  
Lab ID: 23091794-047  
Matrix: GROUNDWATER

Work Order: 23091794  
Report Date: 17-Nov-23

Client Sample ID: G202

Collection Date: 10/11/2023 13:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		48.29	ft	1	10/11/2023 13:40	R338100
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		23	NTU	1	10/11/2023 13:40	R338100
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		-154	mV	1	10/11/2023 13:40	R338100
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		1270	µS/cm	1	10/11/2023 13:40	R338100
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		15.8	°C	1	10/11/2023 13:40	R338100
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.63	mg/L	1	10/11/2023 13:40	R338100
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		7.27		1	10/11/2023 13:40	R338100
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )	NELAP	0	0		530	mg/L	1	10/16/2023 14:59	R337809
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO <sub>3</sub> )	NELAP	0	0		0	mg/L	1	10/16/2023 14:59	R337809
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	16	20		754	mg/L	1	10/16/2023 10:38	R337858
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	61	100		109	mg/L	10	10/16/2023 23:44	R337819
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.54	mg/L	1	10/16/2023 11:45	R337786
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	5	40		55	mg/L	10	10/16/2023 23:44	R337841
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.035	0.100	S	123	mg/L	1	10/18/2023 17:56	213274
Magnesium	NELAP	0.006	0.050	S	44.6	mg/L	1	10/18/2023 17:56	213274
Potassium	NELAP	0.040	0.100		2.00	mg/L	1	10/18/2023 17:56	213274
Sodium	NELAP	0.018	0.050	S	103	mg/L	1	10/18/2023 17:56	213274
<i>Matrix spike control limits are not applicable due to high sample/spike ratio.</i>									
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	9.2	25.0		113	µg/L	5	10/16/2023 15:48	213274





**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q4  
Lab ID: 23091794-057  
Matrix: GROUNDWATER

Work Order: 23091794  
Report Date: 17-Nov-23

Client Sample ID: G230

Collection Date: 10/11/2023 14:44

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		48.33	ft	1	10/11/2023 14:44	R338100
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		630	NTU	1	10/11/2023 14:44	R338100
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		-162	mV	1	10/11/2023 14:44	R338100
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		1640	µS/cm	1	10/11/2023 14:44	R338100
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		16.9	°C	1	10/11/2023 14:44	R338100
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.53	mg/L	1	10/11/2023 14:44	R338100
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		7.16		1	10/11/2023 14:44	R338100
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		562	mg/L	1	10/16/2023 15:03	R337809
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		0	mg/L	1	10/16/2023 15:03	R337809
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	80	100		1010	mg/L	5	10/16/2023 10:39	R337858
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	61	100		275	mg/L	10	10/16/2023 23:52	R337819
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.51	mg/L	1	10/16/2023 11:46	R337786
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	5	40		66	mg/L	10	10/16/2023 23:52	R337841
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.035	0.100		205	mg/L	1	10/18/2023 17:58	213274
Magnesium	NELAP	0.006	0.050		83.9	mg/L	1	10/18/2023 17:58	213274
Potassium	NELAP	0.040	0.100		7.38	mg/L	1	10/18/2023 17:58	213274
Sodium	NELAP	0.018	0.050		144	mg/L	1	10/18/2023 17:58	213274
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	9.2	25.0		173	µg/L	5	10/16/2023 15:05	213274



**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q4  
Lab ID: 23091794-100  
Matrix: AQUEOUS

Work Order: 23091794  
Report Date: 17-Nov-23  
Client Sample ID: Field Blank  
Collection Date: 10/12/2023 13:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		2	mg/L	1	10/13/2023 13:55	R337721
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		0	mg/L	1	10/13/2023 13:55	R337721
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	16	20		26	mg/L	1	10/17/2023 10:55	R337912
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	6	10		< 10	mg/L	1	10/17/2023 0:38	R337819
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		< 0.10	mg/L	1	10/16/2023 10:46	R337786
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	1	4		< 4	mg/L	1	10/17/2023 0:37	R337841
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.035	0.100		< 0.100	mg/L	1	10/18/2023 18:04	213274
Magnesium	NELAP	0.006	0.050		< 0.050	mg/L	1	10/18/2023 18:04	213274
Potassium	NELAP	0.040	0.100		< 0.100	mg/L	1	10/18/2023 18:04	213274
Sodium	NELAP	0.018	0.050	J	0.022	mg/L	1	10/18/2023 18:04	213274
<b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b>									
Boron	NELAP	9.2	25.0		< 25.0	µg/L	5	10/16/2023 15:36	213274



**Laboratory Results**

Client: Ramboll  
Client Project: NEW-23Q4  
Lab ID: 23091794-103  
Matrix: GROUNDWATER

Work Order: 23091794  
Report Date: 17-Nov-23  
Client Sample ID: G06D Duplicate  
Collection Date: 10/11/2023 13:42

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>FIELD ELEVATION MEASUREMENTS</b>									
Depth to water from measuring point	*	0	0		28.30	ft	1	10/11/2023 13:42	R338100
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		22	NTU	1	10/11/2023 13:42	R338100
<b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>									
Oxidation-Reduction Potential	*	-300	-300		-98	mV	1	10/11/2023 13:42	R338100
<b>STANDARD METHODS 2510 B FIELD</b>									
Spec. Conductance, Field	*	0	0		1280	µS/cm	1	10/11/2023 13:42	R338100
<b>STANDARD METHODS 2550 B FIELD</b>									
Temperature	*	0	0		13.5	°C	1	10/11/2023 13:42	R338100
<b>STANDARD METHODS 4500-O G FIELD</b>									
Oxygen, Dissolved	*	0	0		0.84	mg/L	1	10/11/2023 13:42	R338100
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		7.19		1	10/11/2023 13:42	R338100
<b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>									
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )	NELAP	0	0		820	mg/L	1	10/18/2023 12:10	R337915
<b>STANDARD METHODS 2320 B 1997, 2011</b>									
Alkalinity, Carbonate (as CaCO <sub>3</sub> )	NELAP	0	0		0	mg/L	1	10/18/2023 12:10	R337915
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	40	50		920	mg/L	2.5	10/16/2023 11:37	R337858
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	6	10	S	11	mg/L	1	10/17/2023 0:43	R337819
<i>Matrix spike did not recover within control limits due to matrix interference.</i>									
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.93	mg/L	1	10/16/2023 11:48	R337786
<b>SW-846 9251 (TOTAL)</b>									
Chloride	NELAP	5	40		49	mg/L	10	10/17/2023 0:53	R337841
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Calcium	NELAP	0.035	0.100		116	mg/L	1	10/18/2023 18:05	213274
Magnesium	NELAP	0.006	0.050		51.6	mg/L	1	10/18/2023 18:05	213274
Potassium	NELAP	0.040	0.100		3.55	mg/L	1	10/18/2023 18:05	213274
Sodium	NELAP	0.018	0.050		159	mg/L	1	10/18/2023 18:05	213274
<b>SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)</b>									
Boron	NELAP	9.2	25.0		165	µg/L	5	10/16/2023 15:42	213274



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### STANDARD METHODS 2510 B FIELD

Batch R338100		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R338100-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1410	1412	0	100.0	90	110	10/10/2023	

Batch R338100		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R338100-2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1420	1412	0	100.4	90	110	10/11/2023	

Batch R338100		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R338100-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1410	1412	0	99.9	90	110	10/12/2023	

Batch R338100		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R338100-4											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1410	1412	0	100.1	90	110	10/10/2023	

Batch R338100		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R338100-5											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1410	1412	0	100.0	90	110	10/11/2023	

Batch R338100		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R338100-6											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1410	1412	0	100.1	90	110	10/12/2023	

### SW-846 9040B FIELD

Batch R338100		SampType: LCS		Units							
SampID: LCS-R338100-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.01	7.000	0	100.1	98.57	101.4	10/10/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9040B FIELD

Batch R338100		SampType: LCS		Units							Date Analyzed
SampID: LCS-R338100-2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
pH	*	1.00		<b>7.02</b>	7.000	0	100.3	98.57	101.4	10/11/2023	

Batch R338100		SampType: LCS		Units							Date Analyzed
SampID: LCS-R338100-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
pH	*	1.00		<b>7.02</b>	7.000	0	100.3	98.57	101.4	10/12/2023	

Batch R338100		SampType: LCS		Units							Date Analyzed
SampID: LCS-R338100-4											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
pH	*	1.00		<b>7.01</b>	7.000	0	100.1	98.57	101.4	10/10/2023	

Batch R338100		SampType: LCS		Units							Date Analyzed
SampID: LCS-R338100-6											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
pH	*	1.00		<b>7.06</b>	7.000	0	100.9	98.57	101.4	10/12/2023	

### EPA 600 350.1 (DISSOLVED)

Batch R337718		SampType: MS		Units mg/L							Date Analyzed
SampID: 23091794-004EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10	E	<b>6.80</b>	2.000	4.927	93.6	90	110	10/13/2023	

Batch R337718		SampType: MSD		Units mg/L		RPD Limit: 10					Date Analyzed
SampID: 23091794-004EMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Ammonia (as N)		0.10	E	<b>6.89</b>	2.000	4.927	98.4	6.798	1.40	10/13/2023	

Batch R337718		SampType: MS		Units mg/L							Date Analyzed
SampID: 23100805-003EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		<b>1.92</b>	2.000	0.08500	91.6	90	110	10/13/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### EPA 600 350.1 (DISSOLVED)

Batch	R337718	SampType:	MSD	Units	mg/L	RPD Limit:	10					Date
Analyses												Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
SampID: 23100805-003EMSD												
Nitrogen, Ammonia (as N)		0.10		1.90	2.000	0.08500	90.8	1.917	0.89			10/13/2023

Batch	R337718	SampType:	MS	Units	mg/L	RPD Limit:	10	Low Limit	High Limit			Date
Analyses												Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
SampID: 23100942-003EMS												
Nitrogen, Ammonia (as N)		0.10		2.08	2.000	0.2160	93.2	90	110			10/13/2023

Batch	R337718	SampType:	MSD	Units	mg/L	RPD Limit:	10					Date
Analyses												Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
SampID: 23100942-003EMSD												
Nitrogen, Ammonia (as N)		0.10		2.06	2.000	0.2160	92.4	2.079	0.68			10/13/2023

Batch	R337782	SampType:	MS	Units	mg/L	RPD Limit:	10	Low Limit	High Limit			Date
Analyses												Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
SampID: 23091794-002EMS												
Nitrogen, Ammonia (as N)		0.50		16.1	10.00	6.729	94.1	90	110			10/16/2023

Batch	R337782	SampType:	MSD	Units	mg/L	RPD Limit:	10					Date
Analyses												Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
SampID: 23091794-002EMSD												
Nitrogen, Ammonia (as N)		0.50		16.1	10.00	6.729	93.3	16.14	0.52			10/16/2023

Batch	R337782	SampType:	MS	Units	mg/L	RPD Limit:	10	Low Limit	High Limit			Date
Analyses												Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
SampID: 23091794-003EMS												
Nitrogen, Ammonia (as N)		0.50		14.9	10.00	5.058	98.0	90	110			10/16/2023

Batch	R337782	SampType:	MSD	Units	mg/L	RPD Limit:	10					Date
Analyses												Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
SampID: 23091794-003EMSD												
Nitrogen, Ammonia (as N)		0.50		14.9	10.00	5.058	98.0	14.85	0.02			10/16/2023

Batch	R337782	SampType:	MS	Units	mg/L	RPD Limit:	10	Low Limit	High Limit			Date
Analyses												Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
SampID: 23091794-027EMS												
Nitrogen, Ammonia (as N)		0.50		9.92	10.00	0.5480	93.8	90	110			10/16/2023





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### EPA 600 350.1 (DISSOLVED)

Batch	R337782	SampType:	MSD	Units	mg/L	RPD Limit: 10					Date
SampID: 23091794-027EMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Ammonia (as N)		0.50		<b>9.96</b>	10.00	0.5480	94.1	9.924	0.36	10/16/2023	

### EPA 600 350.1 (TOTAL)

Batch	R337718	SampType:	MBLK	Units	mg/L	RPD Limit: 10					Date
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		< <b>0.10</b>	0.0270	0	0	-100	100	10/13/2023	

### Batch R337718 SampType: LCS Units mg/L

SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		<b>1.00</b>	1.000	0	100.4	90	110	10/13/2023	

### Batch R337718 SampType: MS Units mg/L

SampID: 23100664-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		<b>1.90</b>	2.000	0	94.8	90	110	10/13/2023	

### Batch R337718 SampType: MSD Units mg/L

SampID: 23100664-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		<b>1.91</b>	2.000	0	95.6	1.897	0.79	10/13/2023	

### Batch R337718 SampType: MS Units mg/L

SampID: 23100810-007BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		<b>1.89</b>	2.000	0	94.7	90	110	10/13/2023	

### Batch R337718 SampType: MSD Units mg/L

SampID: 23100810-007BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		<b>1.91</b>	2.000	0	95.4	1.894	0.74	10/13/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### EPA 600 350.1 (TOTAL)

Batch R337718		SampType: MS		Units mg/L							Date Analyzed
SampID: 23100839-002CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		<b>2.06</b>	2.000	0.2120	92.4	90	110	10/13/2023	

Batch R337718		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23100839-002CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		<b>2.07</b>	2.000	0.2120	93.1	2.061	0.63	10/13/2023		

Batch R337718		SampType: MS		Units mg/L							Date Analyzed
SampID: 23100873-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10	S	<b>1.85</b>	2.000	0.06000	89.6	90	110	10/13/2023	

Batch R337718		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23100873-002BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		<b>1.89</b>	2.000	0.06000	91.4	1.852	1.93	10/13/2023		

Batch R337718		SampType: MS		Units mg/L							Date Analyzed
SampID: 23100938-001EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		<b>1.97</b>	2.000	0.06800	94.9	90	110	10/13/2023	

Batch R337718		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23100938-001EMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		<b>1.94</b>	2.000	0.06800	93.6	1.966	1.38	10/13/2023		

Batch R337718		SampType: MS		Units mg/L							Date Analyzed
SampID: 23101006-002CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		<b>2.00</b>	2.000	0.1650	92.0	90	110	10/13/2023	

Batch R337718		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23101006-002CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		<b>2.02</b>	2.000	0.1650	93.0	2.004	0.99	10/13/2023		



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### EPA 600 350.1 (TOTAL)

Batch R337782		SampType: MBLK		Units mg/L						
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		< 0.10	0.0270	0	0	-100	100	10/16/2023

Batch R337782		SampType: LCS		Units mg/L						
SampID: ICB/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		0.99	1.000	0	98.7	90	110	10/16/2023

Batch R337782		SampType: MS		Units mg/L						
SampID: 23101137-004AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		1.91	2.000	0.06300	92.6	90	110	10/16/2023

Batch R337782		SampType: MSD		Units mg/L						
SampID: 23101137-004AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		1.94	2.000	0.06300	93.8	1.914	1.25	10/16/2023

### STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R337735		SampType: MBLK		Units mg/L						
SampID: MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	10/12/2023
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	10/12/2023
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	10/12/2023

Batch R337735		SampType: LCS		Units mg/L						
SampID: LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		948	1000	0	94.8	90	110	10/12/2023
Total Dissolved Solids		20		928	1000	0	92.8	90	110	10/12/2023

Batch R337735		SampType: DUP		Units mg/L						
SampID: 23091794-020ADUP										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		760				768.0	1.05	10/12/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: NEW-23Q4

Work Order: 23091794  
Report Date: 17-Nov-23

### STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R337735		SampType: DUP		Units mg/L				RPD Limit: 10			Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Total Dissolved Solids		20		368				362.0	1.64	10/12/2023	

Batch R337808		SampType: MBLK		Units mg/L				RPD Limit: 10			Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	10/13/2023	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	10/13/2023	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	10/13/2023	

Batch R337808		SampType: LCS		Units mg/L				RPD Limit: 10			Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Total Dissolved Solids		20		936	1000	0	93.6	90	110	10/13/2023	
Total Dissolved Solids		20		942	1000	0	94.2	90	110	10/13/2023	
Total Dissolved Solids		20		940	1000	0	94.0	90	110	10/13/2023	

Batch R337808		SampType: DUP		Units mg/L				RPD Limit: 10			Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Total Dissolved Solids		20		742				732.0	1.36	10/13/2023	

Batch R337808		SampType: DUP		Units mg/L				RPD Limit: 10			Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Total Dissolved Solids		20		884				902.0	2.02	10/13/2023	

Batch R337808		SampType: DUP		Units mg/L				RPD Limit: 10			Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Total Dissolved Solids		20		528				550.0	4.08	10/13/2023	

Batch R337808		SampType: DUP		Units mg/L				RPD Limit: 10			Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Total Dissolved Solids		20		924				908.0	1.75	10/13/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R337858 SampType: MBLK Units mg/L

SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	10/16/2023
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	10/16/2023

Batch R337858 SampType: LCS Units mg/L

SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		952	1000	0	95.2	90	110	10/16/2023
Total Dissolved Solids		20		920	1000	0	92.0	90	110	10/16/2023

Batch R337858 SampType: DUP Units mg/L

SampID: 23091794-040ADUP

RPD Limit: 10

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		50		3600				3545	1.54	10/16/2023

Batch R337858 SampType: DUP Units mg/L

SampID: 23100935-003ADUP

RPD Limit: 10

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		530				530.0	0.00	10/16/2023

Batch R337912 SampType: MBLK Units mg/L

SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	10/17/2023
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	10/17/2023
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	10/17/2023

Batch R337912 SampType: LCS Units mg/L

SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		984	1000	0	98.4	90	110	10/17/2023
Total Dissolved Solids		20		952	1000	0	95.2	90	110	10/17/2023
Total Dissolved Solids		20		964	1000	0	96.4	90	110	10/17/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R337912		SampType: DUP		Units mg/L				RPD Limit: 10			Date Analyzed
SampID: 23091794-035ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		20		536				548.0	2.21	10/17/2023	

Batch R337912		SampType: DUP		Units mg/L				RPD Limit: 10			Date Analyzed
SampID: 23101026-004ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		20		370				358.0	3.30	10/17/2023	

Batch R337912		SampType: DUP		Units mg/L				RPD Limit: 10			Date Analyzed
SampID: 23101248-001ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		50		415				380.0	8.81	10/17/2023	

Batch R338395		SampType: MBLK		Units mg/L				RPD Limit: 10		Date Analyzed
SampID: MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	10/26/2023
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	10/26/2023

Batch R338395		SampType: LCS		Units mg/L				RPD Limit: 10		Date Analyzed
SampID: LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		964	1000	0	96.4	90	110	10/26/2023
Total Dissolved Solids		20		976	1000	0	97.6	90	110	10/26/2023

Batch R338395		SampType: DUP		Units mg/L				RPD Limit: 10			Date Analyzed
SampID: 23100903-001ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		20		318				308.0	3.19	10/26/2023	

Batch R338395		SampType: DUP		Units mg/L				RPD Limit: 10			Date Analyzed
SampID: 23100903-002ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		20		188				204.0	8.16	10/26/2023	





## Quality Control Results

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Client: Ramboll  
Client Project: NEW-23Q4

Work Order: 23091794  
Report Date: 17-Nov-23

### STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R338465 SampType: MBLK Units mg/L  
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	10/27/2023
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	10/27/2023
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	10/27/2023

Batch R338465 SampType: LCS Units mg/L  
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		964	1000	0	96.4	90	110	10/27/2023
Total Dissolved Solids		20		954	1000	0	95.4	90	110	10/27/2023
Total Dissolved Solids		20		964	1000	0	96.4	90	110	10/27/2023

Batch R338465 SampType: DUP Units mg/L  
SampID: 23091794-098ADUP

RPD Limit: 10

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		200	H	13600				14040	3.33	10/27/2023

Batch R338465 SampType: DUP Units mg/L  
SampID: 23100902-003ADUP

RPD Limit: 10

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		638				624.0	2.22	10/27/2023

Batch R338465 SampType: DUP Units mg/L  
SampID: 23100903-006ADUP

RPD Limit: 10

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		610				618.0	1.30	10/27/2023

Batch R338465 SampType: DUP Units mg/L  
SampID: 23100903-042ADUP

RPD Limit: 10

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		290				286.0	1.39	10/27/2023

Batch R338465 SampType: DUP Units mg/L  
SampID: 23101972-006ADUP

RPD Limit: 10

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		314				320.0	1.89	10/27/2023



## Quality Control Results

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Client: Ramboll  
Client Project: NEW-23Q4

Work Order: 23091794  
Report Date: 17-Nov-23

### STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R338465		SampType: DUP		Units mg/L				RPD Limit: 10			
SampID: 23102042-002BDUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		20		556				584.0	4.91	10/27/2023	

### STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R337684		SampType: MS		Units mg/L				RPD Limit: 10			
SampID: 23091794-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.48	0.5000	0	97.0	85	115	10/13/2023	

Batch R337684		SampType: MSD		Units mg/L				RPD Limit: 10			
SampID: 23091794-002BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0	97.6	0.4850	0.62	10/13/2023	

Batch R337684		SampType: MS		Units mg/L				RPD Limit: 10			
SampID: 23091794-027BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.51	0.5000	0	101.4	85	115	10/13/2023	

Batch R337684		SampType: MSD		Units mg/L				RPD Limit: 10			
SampID: 23091794-027BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.51	0.5000	0	101.6	0.5070	0.20	10/13/2023	

Batch R337684		SampType: MS		Units mg/L				RPD Limit: 10			
SampID: 23091794-052BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.45	0.5000	0	89.2	85	115	10/13/2023	

Batch R337684		SampType: MSD		Units mg/L				RPD Limit: 10			
SampID: 23091794-052BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.44	0.5000	0	88.2	0.4460	1.13	10/13/2023	



## Quality Control Results

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Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R337684		SampType: MS		Units mg/L							Date Analyzed
SampID: 23091794-101BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.48	0.5000	0	97.0	85	115	10/13/2023	

Batch R337684		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23091794-101BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0	97.2	0.4850	0.21	10/13/2023		

Batch R337684		SampType: MS		Units mg/L							Date Analyzed
SampID: 23100942-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.52	0.5000	0	104.2	85	115	10/12/2023	

Batch R337684		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23100942-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05		0.52	0.5000	0	104.6	0.5210	0.38	10/12/2023		

Batch R337684		SampType: MS		Units mg/L							Date Analyzed
SampID: 23100942-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.52	0.5000	0	103.8	85	115	10/12/2023	

Batch R337684		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23100942-002BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05		0.52	0.5000	0	104.8	0.5190	0.96	10/12/2023		

### STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R337684		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	10/12/2023	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	10/12/2023	



## Quality Control Results

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Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R337684		SampType: MBLK		Units mg/L							
SampID: MBLK-213161											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)	*	0.05		< 0.05	0.0250	0	0	-100	100	10/12/2023	

Batch R337684		SampType: MBLK		Units mg/Kg							
SampID: MBLK-231011											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.50		< 0.50	0.0250	0	0	-100	100	10/12/2023	

Batch R337684		SampType: LCS		Units mg/L							
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.25		1.18	1.250	0	94.8	90	110	10/12/2023	
Nitrogen, Nitrite (as N)		0.25		1.18	1.250	0	94.8	90	110	10/12/2023	

Batch R337684		SampType: MS		Units mg/L							
SampID: 23091794-090AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.51	0.5000	0.006000	100.2	85	115	10/13/2023	

Batch R337684		SampType: MSD		Units mg/L							
SampID: 23091794-090AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.52	0.5000	0.006000	102.0	0.5070	1.76	10/13/2023	

Batch R337684		SampType: MS		Units mg/L							
SampID: 23101003-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	99.8	85	115	10/12/2023	

Batch R337684		SampType: MSD		Units mg/L							
SampID: 23101003-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	99.6	0.4990	0.20	10/12/2023	



## Quality Control Results

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Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R337689		SampType: MS		Units mg/L							Date Analyzed
SampID: 23091794-052BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.239</b>	0.2500	0	95.6	85	115	10/13/2023	

Batch R337689		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23091794-052BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.242</b>	0.2500	0	96.8	0.2390	1.25	10/13/2023		

Batch R337689		SampType: MS		Units mg/L							Date Analyzed
SampID: 23091794-059BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.249</b>	0.2500	0.01200	94.8	85	115	10/13/2023	

Batch R337689		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23091794-059BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.246</b>	0.2500	0.01200	93.6	0.2490	1.21	10/13/2023		

Batch R337689		SampType: MS		Units mg/L							Date Analyzed
SampID: 23091794-088BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.239</b>	0.2500	0.01900	88.0	85	115	10/13/2023	

Batch R337689		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23091794-088BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.239</b>	0.2500	0.01900	88.0	0.2390	0.00	10/13/2023		

Batch R337689		SampType: MS		Units mg/L							Date Analyzed
SampID: 23091794-089BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.250		<b>4.84</b>	1.250	3.524	105.6	85	115	10/13/2023	

Batch R337689		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23091794-089BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.250		<b>4.96</b>	1.250	3.524	114.6	4.844	2.31	10/13/2023		



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R337778		SampType: MS		Units mg/L							Date Analyzed
SampID: 23091794-043BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.243</b>	0.2500	0.01600	90.8	85	115	10/13/2023	

Batch R337778		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23091794-043BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.245</b>	0.2500	0.01600	91.6	0.2430	0.82	10/13/2023		

### STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R337689		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate (as N)		0.050		< <b>0.050</b>						10/13/2023	
Nitrogen, Nitrate-Nitrite (as N)		0.050		< <b>0.050</b>	0.0090	0	0	-100	100	10/13/2023	

Batch R337689		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.521</b>	0.5000	0	104.2	90	110	10/13/2023	

Batch R337689		SampType: MS		Units mg/L							Date Analyzed
SampID: 23100943-004AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.287</b>	0.2500	0.05000	94.8	85	115	10/13/2023	

Batch R337689		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23100943-004AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		<b>0.286</b>	0.2500	0.05000	94.4	0.2870	0.35	10/13/2023		

Batch R337778		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate (as N)		0.050		< <b>0.050</b>						10/13/2023	
Nitrogen, Nitrate-Nitrite (as N)		0.050		< <b>0.050</b>	0.0090	0	0	-100	100	10/13/2023	





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: NEW-23Q4

Work Order: 23091794  
Report Date: 17-Nov-23

### STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R337778		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-213161											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate (as N)	*	0.050		< 0.050						10/13/2023	
Nitrogen, Nitrate-Nitrite (as N)	*	0.050		< 0.050	0.0090	0	0	-100	100	10/13/2023	

Batch R337778		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.512	0.5000	0	102.4	90	110	10/13/2023	

Batch R337778		SampType: MS		Units mg/L							Date Analyzed
SampID: 23101027-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.387	0.2500	0.1530	93.6	90	110	10/13/2023	

Batch R337778		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23101027-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.388	0.2500	0.1530	94.0	0.3870	0.26	10/13/2023		

### STANDARD METHODS 5220 D (TOTAL) 1997

Batch R337798		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chemical Oxygen Demand		50		< 50	17.00	0	0	-100	100	10/16/2023	

Batch R337798		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chemical Oxygen Demand		50		160	164.1	0	97.7	90	110	10/16/2023	

Batch R337798		SampType: MS		Units mg/L							Date Analyzed
SampID: 23091794-091FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chemical Oxygen Demand		100		1030	1000	28.49	99.7	85	115	10/16/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### STANDARD METHODS 5220 D (TOTAL) 1997

Batch R337798		SampType: MSD		Units mg/L			RPD Limit: 10				Date Analyzed
SampID: 23091794-091FMDS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Chemical Oxygen Demand		100		1130	1000	28.49	110.1	1026	9.63	10/16/2023	

Batch R337798		SampType: MS		Units mg/L			RPD Limit: 10				Date Analyzed
SampID: 23100390-005BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chemical Oxygen Demand		100		1070	1000	17.68	105.5	85	115	10/16/2023	

Batch R337798		SampType: MSD		Units mg/L			RPD Limit: 10				Date Analyzed
SampID: 23100390-005BMDS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Chemical Oxygen Demand		100		991	1000	17.68	97.3	1073	7.96	10/16/2023	

Batch R337798		SampType: MS		Units mg/L			RPD Limit: 10				Date Analyzed
SampID: 23101055-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chemical Oxygen Demand		100		1030	1000	19.85	101.4	90	110	10/16/2023	

Batch R337798		SampType: MSD		Units mg/L			RPD Limit: 10				Date Analyzed
SampID: 23101055-001CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Chemical Oxygen Demand		100		974	1000	19.85	95.4	1034	6.03	10/16/2023	

### SW-846 9012A (TOTAL)

Batch 213268		SampType: MBLK		Units mg/L			RPD Limit: 10				Date Analyzed
SampID: MBLK 231013 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	10/16/2023	

Batch 213268		SampType: LCS		Units mg/L			RPD Limit: 10				Date Analyzed
SampID: LCS 231013 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Cyanide		0.005		0.025	0.0250	0	99.6	90	110	10/16/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9012A (TOTAL)

Batch 213268		SampType: MS		Units mg/L							Date Analyzed
SampID: 23091794-027DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		<b>0.025</b>	0.0250	0	99.4	75	125	10/16/2023	

Batch 213268		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23091794-027DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.005		<b>0.025</b>	0.0250	0	100.1	0.02484	0.76	10/16/2023		

Batch 213268		SampType: MS		Units mg/L							Date Analyzed
SampID: 23091794-052DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		<b>0.024</b>	0.0250	0	97.4	75	125	10/16/2023	

Batch 213268		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23091794-052DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.005		<b>0.024</b>	0.0250	0	97.2	0.02435	0.16	10/16/2023		

Batch 213269		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK 231013 TCN2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		<b>&lt; 0.005</b>	0.0015	0	0	-100	100	10/16/2023	

Batch 213269		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS 231013 TCN2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		<b>0.025</b>	0.0250	0	100.2	90	110	10/16/2023	

Batch 213269		SampType: MS		Units mg/L							Date Analyzed
SampID: 23091794-088DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		<b>0.025</b>	0.0250	0	101.2	75	125	10/16/2023	

Batch 213269		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23091794-088DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.005		<b>0.024</b>	0.0250	0	96.9	0.02530	4.30	10/16/2023		



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9012A (TOTAL)

Batch 213269		SampType: MS		Units mg/L							
SampID: 23100760-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005	S	<b>0.022</b>	0.0250	0.001695	82.4	90	110	10/16/2023	

Batch 213269		SampType: MSD		Units mg/L							
SampID: 23100760-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Cyanide		0.005	S	<b>0.023</b>	0.0250	0.001695	84.9	0.02230	2.72	10/16/2023	

### SW-846 9036 (DISSOLVED)

Batch R337770		SampType: MS		Units mg/L							
SampID: 23100805-003BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		<b>46</b>	20.00	27.53	93.4	85	115	10/13/2023	

Batch R337770		SampType: MSD		Units mg/L							
SampID: 23100805-003BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		10		<b>48</b>	20.00	27.53	102.0	46.21	3.63	10/13/2023	

Batch R337770		SampType: MS		Units mg/L							
SampID: 23100942-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50		<b>186</b>	100.0	98.41	87.6	85	115	10/13/2023	

Batch R337770		SampType: MSD		Units mg/L							
SampID: 23100942-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		50		<b>190</b>	100.0	98.41	91.9	186.0	2.30	10/13/2023	

Batch R337819		SampType: MS		Units mg/L							
SampID: 23091794-006BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50		<b>209</b>	100.0	118.2	91.2	85	115	10/16/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9036 (DISSOLVED)

Batch R337819		SampType: MSD		Units mg/L			RPD Limit: 10			
SampID: 23091794-006BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		50		209	100.0	118.2	90.6	209.4	0.29	10/16/2023

Batch R337819		SampType: MS		Units mg/L			RPD Limit: 10			
SampID: 23091794-060BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		458	200.0	275.7	91.0	85	115	10/16/2023

Batch R337819		SampType: MSD		Units mg/L			RPD Limit: 10			
SampID: 23091794-060BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		459	200.0	275.7	91.7	457.7	0.32	10/16/2023

Batch R337819		SampType: MS		Units mg/L			RPD Limit: 10			
SampID: 23091794-101BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		500		1880	1000	929.5	95.1	85	115	10/16/2023

Batch R337819		SampType: MSD		Units mg/L			RPD Limit: 10			
SampID: 23091794-101BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		500		1840	1000	929.5	91.3	1881	2.04	10/16/2023

Batch R337929		SampType: MS		Units mg/L			RPD Limit: 10			
SampID: 23091794-027BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		500		1780	1000	826.9	95.0	85	115	10/18/2023

Batch R337929		SampType: MSD		Units mg/L			RPD Limit: 10			
SampID: 23091794-027BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		500		1780	1000	826.9	95.8	1777	0.41	10/18/2023

Batch R338019		SampType: MS		Units mg/L			RPD Limit: 10			
SampID: 23101443-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		50		186	100.0	92.03	93.7	85	115	10/19/2023



## Quality Control Results

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Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9036 (DISSOLVED)

Batch R338019		SampType: MSD		Units mg/L				RPD Limit: 10			
SampID: 23101443-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		50		193	100.0	92.03	100.6	185.7	3.66	10/19/2023	

Batch R338161		SampType: MS		Units mg/L				RPD Limit: 10			
SampID: 23101550-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50		185	100.0	92.14	93.1	85	115	10/23/2023	

Batch R338161		SampType: MSD		Units mg/L				RPD Limit: 10			
SampID: 23101550-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		50		192	100.0	92.14	99.4	185.3	3.32	10/23/2023	

Batch R338161		SampType: MS		Units mg/L				RPD Limit: 10			
SampID: 23101668-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		294	200.0	123.0	85.7	85	115	10/23/2023	

Batch R338161		SampType: MSD		Units mg/L				RPD Limit: 10			
SampID: 23101668-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		100		299	200.0	123.0	88.0	294.3	1.56	10/23/2023	

### SW-846 9036 (TOTAL)

Batch R337770		SampType: MBLK		Units mg/L				RPD Limit: 10			
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	10/13/2023	

Batch R337770		SampType: LCS		Units mg/L				RPD Limit: 10			
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		18	20.00	0	90.1	90	110	10/13/2023	





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9036 (TOTAL)

Batch R337770		SampType: MS		Units mg/L							Date
SampID: 23091794-010AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Sulfate		10	S	27	20.00	10.93	80.6	85	115		10/13/2023

Batch R337770		SampType: MSD		Units mg/L		RPD Limit: 10					Date
SampID: 23091794-010AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Sulfate		10	S	27	20.00	10.93	81.6	27.05	0.70		10/13/2023

Batch R337770		SampType: MS		Units mg/L							Date
SampID: 23100806-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Sulfate		10	S	20	20.00	7.110	65.4	85	115		10/13/2023

Batch R337770		SampType: MSD		Units mg/L		RPD Limit: 10					Date
SampID: 23100806-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Sulfate		10	S	20	20.00	7.110	65.2	20.18	0.15		10/13/2023

Batch R337770		SampType: MS		Units mg/L							Date
SampID: 23100880-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Sulfate		20		99	40.00	60.17	96.6	90	110		10/13/2023

Batch R337770		SampType: MSD		Units mg/L		RPD Limit: 10					Date
SampID: 23100880-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Sulfate		20		100	40.00	60.17	98.6	98.80	0.83		10/13/2023

Batch R337770		SampType: MS		Units mg/L							Date
SampID: 23100941-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Sulfate		50		186	100.0	97.00	89.5	85	115		10/13/2023

Batch R337770		SampType: MSD		Units mg/L		RPD Limit: 10					Date
SampID: 23100941-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Sulfate		50		188	100.0	97.00	91.4	186.5	1.05		10/13/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9036 (TOTAL)

Batch R337819		SampType: MBLK		Units mg/L						
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		< 10	6.140	0	0	-100	100	10/16/2023

Batch R337819		SampType: LCS		Units mg/L						
SampID: ICV/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		19	20.00	0	95.5	90	110	10/16/2023

Batch R337819		SampType: MS		Units mg/L						
SampID: 23091794-006AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		50		211	100.0	113.2	97.6	85	115	10/16/2023

Batch R337819		SampType: MSD		Units mg/L						
SampID: 23091794-006AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		50		207	100.0	113.2	94.0	210.8	1.69	10/16/2023

Batch R337819		SampType: MS		Units mg/L						
SampID: 23091794-103AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10	S	22	20.00	10.85	55.8	85	115	10/17/2023

Batch R337819		SampType: MSD		Units mg/L						
SampID: 23091794-103AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10	S	22	20.00	10.85	56.8	22.02	0.86	10/17/2023

Batch R337819		SampType: MS		Units mg/L						
SampID: 23101081-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		28	20.00	10.73	88.5	85	115	10/17/2023

Batch R337819		SampType: MSD		Units mg/L						
SampID: 23101081-001AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10		28	20.00	10.73	88.2	28.43	0.25	10/17/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9036 (TOTAL)

Batch R337890		SampType: MBLK		Units mg/L						
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		< 10	6.140	0	0	-100	100	10/17/2023

Batch R337890		SampType: LCS		Units mg/L						
SampID: ICV/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		19	20.00	0	93.9	90	110	10/17/2023

Batch R337890		SampType: MS		Units mg/L						
SampID: 23101090-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		499	200.0	325.3	86.9	85	115	10/17/2023

Batch R337890		SampType: MSD		Units mg/L						
SampID: 23101090-001AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		496	200.0	325.3	85.3	499.1	0.64	10/17/2023

Batch R337890		SampType: MS		Units mg/L						
SampID: 23101094-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		410	200.0	232.2	89.0	85	115	10/17/2023

Batch R337890		SampType: MSD		Units mg/L						
SampID: 23101094-001AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		412	200.0	232.2	90.0	410.2	0.47	10/17/2023

Batch R337890		SampType: MS		Units mg/L						
SampID: 23101248-002AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10	S	24	20.00	8.620	75.2	85	115	10/17/2023

Batch R337890		SampType: MSD		Units mg/L						
SampID: 23101248-002AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10	S	25	20.00	8.620	79.4	23.65	3.57	10/17/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9036 (TOTAL)

Batch R337929		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	10/18/2023	

Batch R337929		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICB/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		19	20.00	0	93.6	90	110	10/18/2023	

Batch R337929		SampType: MS		Units mg/L							Date Analyzed
SampID: 23101091-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		500		1750	1000	788.0	96.5	85	115	10/18/2023	

Batch R337929		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23101091-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		500		1740	1000	788.0	95.6	1753	0.47	10/18/2023		

Batch R337929		SampType: MS		Units mg/L							Date Analyzed
SampID: 23101234-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10	E	50	20.00	31.49	93.6	85	115	10/18/2023	

Batch R337929		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23101234-002AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		10	E	50	20.00	31.49	93.6	50.21	0.00	10/18/2023		

Batch R337929		SampType: MS		Units mg/L							Date Analyzed
SampID: 23101315-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10	S	21	20.00	6.290	73.9	85	115	10/18/2023	

Batch R337929		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23101315-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		10	S	21	20.00	6.290	71.8	21.07	2.01	10/18/2023		



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9036 (TOTAL)

Batch R337929		SampType: MS		Units mg/L							Date Analyzed
SampID: 23101339-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50		170	100.0	79.36	91.0	85	115	10/18/2023	

Batch R337929		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23101339-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		50		174	100.0	79.36	94.5	170.4	2.00	10/18/2023		

Batch R338019		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	10/19/2023	

Batch R338019		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-213454											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate	*	10		< 10	6.000	0	0	-100	100	10/19/2023	

Batch R338019		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		20	20.00	0	98.6	90	110	10/19/2023	

Batch R338019		SampType: MS		Units mg/L							Date Analyzed
SampID: 23101474-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20		92	40.00	53.29	97.9	90	110	10/19/2023	

Batch R338019		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23101474-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		20		94	40.00	53.29	101.1	92.46	1.37	10/19/2023		

Batch R338161		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	10/23/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9036 (TOTAL)

Batch R338161		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		<b>20</b>	20.00	0	100.8	90	110	10/23/2023	

Batch R338161		SampType: MS		Units mg/L							Date Analyzed
SampID: 23101504-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		5000		<b>18100</b>	10000	8607	94.5	90	110	10/23/2023	

Batch R338161		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23101504-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		5000		<b>18600</b>	10000	8607	100.4	18060	3.22	10/23/2023		

Batch R338161		SampType: MS		Units mg/L							Date Analyzed
SampID: 23101548-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		<b>39</b>	20.00	21.70	87.2	85	115	10/23/2023	

Batch R338161		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23101548-002AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		10		<b>40</b>	20.00	21.70	89.3	39.15	1.04	10/23/2023		

Batch R338161		SampType: MS		Units mg/L							Date Analyzed
SampID: 23101593-004CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		<b>352</b>	200.0	167.7	92.1	90	110	10/23/2023	

Batch R338161		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 23101593-004CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		100	S	<b>334</b>	200.0	167.7	83.0	352.0	5.35	10/23/2023		

Batch R338161		SampType: MS		Units mg/L							Date Analyzed
SampID: 23101670-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		<b>300</b>	200.0	124.5	87.8	85	115	10/23/2023	





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9036 (TOTAL)

Batch R338161		SampType: MSD		Units mg/L				RPD Limit: 10			
SampID: 23101670-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		100		<b>304</b>	200.0	124.5	89.9	300.0	1.42	10/23/2023	

Batch R338161		SampType: MS		Units mg/L							
SampID: 23101709-006AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20		<b>80</b>	40.00	42.50	94.0	85	115	10/23/2023	

Batch R338161		SampType: MSD		Units mg/L				RPD Limit: 10			
SampID: 23101709-006AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		20		<b>80</b>	40.00	42.50	93.5	80.11	0.29	10/23/2023	

Batch R338345		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< <b>10</b>	6.140	0	0	-100	100	10/26/2023	

Batch R338345		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		<b>20</b>	20.00	0	99.0	90	110	10/26/2023	

Batch R338345		SampType: MS		Units mg/L							
SampID: 23100903-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		<b>33</b>	20.00	14.78	92.0	85	115	10/26/2023	

Batch R338345		SampType: MSD		Units mg/L				RPD Limit: 10			
SampID: 23100903-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		10		<b>34</b>	20.00	14.78	96.8	33.18	2.88	10/26/2023	

Batch R338345		SampType: MS		Units mg/L							
SampID: 23100903-018AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20	E	<b>103</b>	40.00	64.43	97.0	85	115	10/26/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9036 (TOTAL)

Batch R338345		SampType: MSD		Units mg/L				RPD Limit: 10			
SampID: 23100903-018AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		20	E	106	40.00	64.43	103.2	103.2	2.38	10/26/2023	

Batch R338345		SampType: MS		Units mg/L				RPD Limit: 10			
SampID: 23100903-025AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10	E	58	20.00	40.35	89.9	85	115	10/26/2023	

Batch R338345		SampType: MSD		Units mg/L				RPD Limit: 10			
SampID: 23100903-025AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		10	E	59	20.00	40.35	93.2	58.33	1.13	10/26/2023	

Batch R338345		SampType: MS		Units mg/L				RPD Limit: 10			
SampID: 23100903-030AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20		90	40.00	51.65	95.5	85	115	10/26/2023	

Batch R338345		SampType: MSD		Units mg/L				RPD Limit: 10			
SampID: 23100903-030AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		20		91	40.00	51.65	97.7	89.85	0.96	10/26/2023	

Batch R338345		SampType: MS		Units mg/Kg-dry				RPD Limit: 10			
SampID: 23101757-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		2090		4120	4186	0	98.4	85	115	10/26/2023	

Batch R338345		SampType: MSD		Units mg/Kg-dry				RPD Limit: 10			
SampID: 23101757-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		2090		4170	4186	0	99.5	4120	1.13	10/26/2023	

Batch R338345		SampType: MS		Units mg/L				RPD Limit: 10			
SampID: 23101895-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		500		1520	1000	589.6	92.9	90	110	10/26/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9036 (TOTAL)

Batch R338345		SampType: MSD		Units mg/L				RPD Limit: 10			
SampID: 23101895-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		500		1530	1000	589.6	94.2	1519	0.87	10/26/2023	

### SW-846 9060A

Batch R337923		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		< 1.0	0.4500	0	0	-100	100	10/18/2023	

Batch R337923		SampType: LCS		Units mg/L							
SampID: ICB/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		5.1	5.000	0	101.6	90	110	10/18/2023	

Batch R337923		SampType: DUP		Units mg/L				RPD Limit: 10			
SampID: 23101051-001ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Organic Carbon (TOC)		1.0		< 1.0				0	0.00	10/18/2023	

Batch R337923		SampType: DUP		Units mg/L				RPD Limit: 10			
SampID: 23101148-001DDUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Organic Carbon (TOC)		10.0		22.3				23.26	4.39	10/18/2023	

Batch R337923		SampType: DUP		Units mg/L				RPD Limit: 15			
SampID: 23101316-001KDUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Organic Carbon (TOC)		1.0		6.2				6.060	2.77	10/18/2023	

Batch R338054		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		< 1.0	0.4500	0	0	-100	100	10/20/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9060A

Batch R338054		SampType: LCS		Units mg/L							Date
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Total Organic Carbon (TOC)		1.0		5.0	5.000	0	101.0	90	110		10/20/2023

Batch R338054		SampType: MS		Units mg/L							Date
SampID: 23091794-062EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Total Organic Carbon (TOC)		5.0	S	28.2	25.00	8.760	77.6	85	115		10/20/2023

Batch R338054		SampType: MSD		Units mg/L		RPD Limit: 10					Date
SampID: 23091794-062EMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Total Organic Carbon (TOC)		5.0	S	28.6	25.00	8.760	79.2	28.17	1.34		10/20/2023

Batch R338054		SampType: DUP		Units mg/L		RPD Limit: 10					Date
SampID: 23101395-001ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Total Organic Carbon (TOC)		1.0		6.4				6.390	0.47		10/20/2023

Batch R338054		SampType: DUP		Units mg/L		RPD Limit: 10					Date
SampID: 23101395-002ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Total Organic Carbon (TOC)		1.0		3.7				3.740	1.62		10/20/2023

Batch R338054		SampType: DUP		Units mg/L		RPD Limit: 10					Date
SampID: 23101408-003DDUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Total Organic Carbon (TOC)		10.0		16.6				16.80	1.20		10/20/2023

Batch R338054		SampType: DUP		Units mg/L		RPD Limit: 10					Date
SampID: 23101408-004DDUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Total Organic Carbon (TOC)		1.0		4.0				3.980	0.25		10/20/2023

Batch R338054		SampType: DUP		Units mg/L		RPD Limit: 10					Date
SampID: 23101408-005DDUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Total Organic Carbon (TOC)		1.0		8.5				8.390	0.95		10/20/2023



## Quality Control Results

<http://www.teklabinc.com/>

**Client:** Ramboll  
**Client Project:** NEW-23Q4

**Work Order:** 23091794  
**Report Date:** 17-Nov-23

### SW-846 9060A

Batch R338054		SampType: DUP		Units mg/L				RPD Limit: 10			
SampID: 23101408-006DDUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Organic Carbon (TOC)		10.0		11.2				11.39	2.13	10/20/2023	

### SW-846 9214 (DISSOLVED)

Batch R337650		SampType: MS		Units mg/L							
SampID: 23100805-008BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.49	2.000	0.3950	104.6	75	125	10/12/2023	

Batch R337650		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23100805-008BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.45	2.000	0.3950	102.8	2.488	1.54	10/12/2023	

Batch R337786		SampType: MS		Units mg/L							
SampID: 23091794-028BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.06	2.000	0.2180	92.4	75	125	10/16/2023	

Batch R337786		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23091794-028BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.12	2.000	0.2180	94.9	2.065	2.44	10/16/2023	

Batch R337786		SampType: MS		Units mg/L							
SampID: 23091794-046BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.30	2.000	0.3240	98.8	75	125	10/16/2023	

Batch R337786		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23091794-046BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.37	2.000	0.3240	102.2	2.299	2.91	10/16/2023	



## Quality Control Results

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Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9214 (DISSOLVED)

Batch R337786		SampType: MS		Units mg/L							Date Analyzed
SampID: 23091794-104BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.35	2.000	0.2700	104.0	75	125	10/16/2023	

Batch R337786		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23091794-104BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.10		2.32	2.000	0.2700	102.4	2.350	1.33	10/16/2023		

### SW-846 9214 (TOTAL)

Batch R337650		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	10/12/2023	

Batch R337650		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		0.99	1.000	0	98.9	90	110	10/12/2023	

Batch R337650		SampType: MS		Units mg/L							Date Analyzed
SampID: 23091794-012AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.56	2.000	0.4790	103.9	75	125	10/12/2023	

Batch R337650		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23091794-012AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.10		2.55	2.000	0.4790	103.4	2.557	0.39	10/12/2023		

Batch R337650		SampType: MS		Units mg/L							Date Analyzed
SampID: 23091794-021AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.55	2.000	0.5430	100.3	75	125	10/12/2023	





## Quality Control Results

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Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9214 (TOTAL)

Batch R337650		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23091794-021AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.62	2.000	0.5430	103.6	2.549	2.59	10/12/2023	

Batch R337650		SampType: MS		Units mg/L				RPD Limit: 15			
SampID: 23091794-102AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		1.95	2.000	0.2040	87.4	75	125	10/12/2023	

Batch R337650		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23091794-102AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		1.98	2.000	0.2040	89.0	1.952	1.63	10/12/2023	

Batch R337650		SampType: MS		Units mg/L				RPD Limit: 15			
SampID: 23092056-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.88	2.000	0.9050	98.8	75	125	10/12/2023	

Batch R337650		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23092056-002BMSS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.91	2.000	0.9050	100.4	2.882	1.10	10/12/2023	

Batch R337650		SampType: MS		Units mg/L				RPD Limit: 15			
SampID: 23100530-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.59	2.000	0.6590	96.6	75	125	10/12/2023	

Batch R337650		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23100530-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.61	2.000	0.6590	97.8	2.590	0.92	10/12/2023	

Batch R337650		SampType: MS		Units mg/L				RPD Limit: 15			
SampID: 23100712-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.53	2.000	0.6370	94.8	75	125	10/12/2023	



## Quality Control Results

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Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9214 (TOTAL)

Batch R337650		SampType: MSD		Units mg/L			RPD Limit: 15				
SampID: 23100712-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.58	2.000	0.6370	97.2	2.532	1.92	10/12/2023	

Batch R337650		SampType: MS		Units mg/L			RPD Limit: 15				
SampID: 23100860-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.66	2.000	0.7130	97.2	75	125	10/12/2023	

Batch R337650		SampType: MSD		Units mg/L			RPD Limit: 15				
SampID: 23100860-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.67	2.000	0.7130	97.8	2.657	0.49	10/12/2023	

Batch R337786		SampType: MBLK		Units mg/L			RPD Limit: 15				
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	10/16/2023	

Batch R337786		SampType: LCS		Units mg/L			RPD Limit: 15				
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		1.01	1.000	0	101.1	90	110	10/16/2023	

Batch R337786		SampType: MS		Units mg/L			RPD Limit: 15				
SampID: 23091794-016AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.35	2.000	0.2150	106.6	75	125	10/16/2023	

Batch R337786		SampType: MSD		Units mg/L			RPD Limit: 15				
SampID: 23091794-016AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.66	2.000	0.2150	122.2	2.348	12.39	10/16/2023	

Batch R337786		SampType: MS		Units mg/L			RPD Limit: 15				
SampID: 23091794-023AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.98	2.000	0.9210	103.1	75	125	10/16/2023	



## Quality Control Results

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Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9214 (TOTAL)

Batch R337786		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23091794-023AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.98	2.000	0.9210	102.9	2.983	0.13	10/16/2023	

Batch R337786		SampType: MS		Units mg/L				RPD Limit: 15			
SampID: 23100953-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.76	2.000	0.6310	106.4	75	125	10/16/2023	

Batch R337786		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23100953-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.72	2.000	0.6310	104.2	2.759	1.61	10/16/2023	

Batch R337786		SampType: MS		Units mg/L				RPD Limit: 15			
SampID: 23101030-004AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.32	2.000	0.3580	98.0	75	125	10/16/2023	

Batch R337786		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23101030-004AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.40	2.000	0.3580	102.2	2.317	3.64	10/16/2023	

Batch R337786		SampType: MS		Units mg/L				RPD Limit: 15			
SampID: 23101081-008AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		1.92	2.000	0	96.2	75	125	10/16/2023	

Batch R337786		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23101081-008AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		1.93	2.000	0	96.4	1.925	0.16	10/16/2023	

Batch R337786		SampType: MS		Units mg/L				RPD Limit: 15			
SampID: 23101092-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.53	2.000	0.4170	105.8	75	125	10/16/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: NEW-23Q4

Work Order: 23091794  
Report Date: 17-Nov-23

### SW-846 9214 (TOTAL)

Batch R337786		SampType: MSD		Units mg/L			RPD Limit: 15				
SampID: 23101092-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.52	2.000	0.4170	105.2	2.533	0.47	10/16/2023	

### SW-846 9251 (DISSOLVED)

Batch R337794		SampType: MS		Units mg/L			RPD Limit: 15				
SampID: 23091794-006BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		26	20.00	7.920	90.6	85	115	10/13/2023	

Batch R337794		SampType: MSD		Units mg/L			RPD Limit: 15				
SampID: 23091794-006BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		26	20.00	7.920	90.2	26.05	0.35	10/13/2023	

Batch R337794		SampType: MS		Units mg/L			RPD Limit: 15				
SampID: 23100805-003BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4	E	51	20.00	32.39	90.8	85	115	10/13/2023	

Batch R337794		SampType: MSD		Units mg/L			RPD Limit: 15				
SampID: 23100805-003BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4	E	51	20.00	32.39	90.8	50.54	0.02	10/13/2023	

Batch R337794		SampType: MS		Units mg/L			RPD Limit: 15				
SampID: 23100942-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		25	20.00	6.470	90.5	85	115	10/13/2023	

Batch R337794		SampType: MSD		Units mg/L			RPD Limit: 15				
SampID: 23100942-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		24	20.00	6.470	90.1	24.57	0.33	10/13/2023	



## Quality Control Results

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Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9251 (DISSOLVED)

Batch R337841		SampType: MS		Units mg/L							Date Analyzed
SampID: 23091794-027BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		20		119	100.0	26.60	92.3	85	115	10/16/2023	

Batch R337841		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23091794-027BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		20		117	100.0	26.60	90.0	118.9	1.95	10/16/2023		

Batch R337841		SampType: MS		Units mg/L							Date Analyzed
SampID: 23091794-060BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		20		136	100.0	46.37	90.0	85	115	10/16/2023	

Batch R337841		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23091794-060BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		20		136	100.0	46.37	89.9	136.4	0.12	10/16/2023		

Batch R337841		SampType: MS		Units mg/L							Date Analyzed
SampID: 23091794-101BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		40	S	328	200.0	161.9	83.2	85	115	10/16/2023	

Batch R337841		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23091794-101BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		40	S	327	200.0	161.9	82.8	328.3	0.26	10/16/2023		

Batch R338024		SampType: MS		Units mg/L							Date Analyzed
SampID: 23101443-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4	E	53	20.00	35.15	90.2	85	115	10/19/2023	

Batch R338024		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23101443-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		4	E	52	20.00	35.15	86.4	53.19	1.46	10/19/2023		



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9251 (DISSOLVED)

Batch R338166		SampType: MS		Units mg/L							Date Analyzed
SampID: 23101550-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		4	E	<b>63</b>	20.00	44.46	94.4	85	115	10/23/2023	

Batch R338166		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23101550-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Chloride		4	E	<b>64</b>	20.00	44.46	97.4	63.34	0.94	10/23/2023		

Batch R338166		SampType: MS		Units mg/L							Date Analyzed
SampID: 23101668-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		4		<b>31</b>	20.00	12.95	90.0	85	115	10/23/2023	

Batch R338166		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23101668-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Chloride		4		<b>31</b>	20.00	12.95	90.0	30.96	0.03	10/23/2023		

### SW-846 9251 (TOTAL)

Batch R337794		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		4		<b>&lt; 4</b>	0.5000	0	0	-100	100	10/13/2023	

Batch R337794		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		4		<b>20</b>	20.00	0	98.8	90	110	10/13/2023	

Batch R337794		SampType: MS		Units mg/L							Date Analyzed
SampID: 23091794-006AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		4		<b>26</b>	20.00	7.440	90.8	85	115	10/13/2023	





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9251 (TOTAL)

Batch R337794		SampType: MSD		Units mg/L			RPD Limit: 15			
SampID: 23091794-006AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		26	20.00	7.440	91.2	25.59	0.39	10/13/2023

Batch R337794		SampType: MS		Units mg/L			RPD Limit: 15			
SampID: 23091794-010AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		40	20.00	22.51	86.2	85	115	10/13/2023

Batch R337794		SampType: MSD		Units mg/L			RPD Limit: 15			
SampID: 23091794-010AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		40	20.00	22.51	86.6	39.74	0.25	10/13/2023

Batch R337794		SampType: MS		Units mg/L			RPD Limit: 15			
SampID: 23100806-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		27	20.00	8.750	89.8	85	115	10/13/2023

Batch R337794		SampType: MSD		Units mg/L			RPD Limit: 15			
SampID: 23100806-001AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		27	20.00	8.750	89.9	26.70	0.11	10/13/2023

Batch R337794		SampType: MS		Units mg/L			RPD Limit: 15			
SampID: 23100941-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		25	20.00	6.510	90.8	85	115	10/13/2023

Batch R337794		SampType: MSD		Units mg/L			RPD Limit: 15			
SampID: 23100941-001AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		25	20.00	6.510	91.2	24.66	0.36	10/13/2023

Batch R337841		SampType: MBLK		Units mg/L			RPD Limit: 15			
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		< 4	0.5000	0	0	-100	100	10/16/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9251 (TOTAL)

Batch R337841		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		19	20.00	0	95.0	90	110	10/16/2023	

Batch R337841		SampType: MS		Units mg/L							Date Analyzed
SampID: 23091794-103AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		40		248	200.0	48.59	99.7	85	115	10/17/2023	

Batch R337841		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23091794-103AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		40		243	200.0	48.59	97.1	248.0	2.15	10/17/2023		

Batch R337841		SampType: MS		Units mg/L							Date Analyzed
SampID: 23101081-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		20	20.00	0	99.6	85	115	10/17/2023	

Batch R337841		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23101081-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		4		20	20.00	0	99.7	19.91	0.10	10/17/2023		

Batch R337892		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	10/17/2023	

Batch R337892		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		19	20.00	0	92.6	90	110	10/17/2023	

Batch R337892		SampType: MS		Units mg/L							Date Analyzed
SampID: 23101090-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		40		468	200.0	279.7	94.2	85	115	10/17/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9251 (TOTAL)

Batch R337892		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23101090-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		40		<b>462</b>	200.0	279.7	91.0	468.2	1.38	10/17/2023	

Batch R337892		SampType: MS		Units mg/L				RPD Limit: 15			
SampID: 23101094-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		<b>30</b>	20.00	12.21	90.0	85	115	10/17/2023	

Batch R337892		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23101094-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		<b>30</b>	20.00	12.21	90.9	30.20	0.59	10/17/2023	

Batch R337892		SampType: MS		Units mg/L				RPD Limit: 15			
SampID: 23101248-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		<b>47</b>	20.00	27.40	97.6	85	115	10/17/2023	

Batch R337892		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 23101248-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		<b>46</b>	20.00	27.40	95.2	46.91	0.99	10/17/2023	

Batch R337955		SampType: MBLK		Units mg/L				RPD Limit: 15			
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	10/18/2023	

Batch R337955		SampType: LCS		Units mg/L				RPD Limit: 15			
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		<b>20</b>	20.00	0	100.2	90	110	10/18/2023	

Batch R337955		SampType: MS		Units mg/L				RPD Limit: 15			
SampID: 23101091-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		200		<b>1160</b>	1000	204.0	96.0	85	115	10/18/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9251 (TOTAL)

Batch R337955		SampType: MSD		Units mg/L			RPD Limit: 15				
SampID: 23101091-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		200		1170	1000	204.0	96.3	1164	0.23	10/18/2023	

Batch R337955		SampType: MS		Units mg/L			RPD Limit: 15				
SampID: 23101234-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		20		170	100.0	78.40	91.2	85	115	10/18/2023	

Batch R337955		SampType: MSD		Units mg/L			RPD Limit: 15				
SampID: 23101234-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		20		173	100.0	78.40	94.6	169.6	1.98	10/18/2023	

Batch R337955		SampType: MS		Units mg/L			RPD Limit: 15				
SampID: 23101315-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		32	20.00	13.45	94.6	85	115	10/18/2023	

Batch R337955		SampType: MSD		Units mg/L			RPD Limit: 15				
SampID: 23101315-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		32	20.00	13.45	92.5	32.38	1.34	10/18/2023	

Batch R337955		SampType: MS		Units mg/L			RPD Limit: 15				
SampID: 23101339-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		20		187	100.0	97.26	89.5	85	115	10/18/2023	

Batch R337955		SampType: MSD		Units mg/L			RPD Limit: 15				
SampID: 23101339-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		20		191	100.0	97.26	93.6	186.8	2.18	10/18/2023	

Batch R338024		SampType: MBLK		Units mg/L			RPD Limit: 15				
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	10/19/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9251 (TOTAL)

Batch R338024		SampType: MBLK		Units mg/L							
SampID: MBLK-213454											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride	*	4		< 4	0.5000	0	0	-100	100	10/19/2023	

Batch R338024		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		20	20.00	0	100.7	90	110	10/19/2023	

Batch R338166		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	10/23/2023	

Batch R338166		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		21	20.00	0	102.6	90	110	10/23/2023	

Batch R338166		SampType: MS		Units mg/L							
SampID: 23101504-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		2000		13800	10000	4542	92.9	85	115	10/23/2023	

Batch R338166		SampType: MSD		Units mg/L							
SampID: 23101504-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		2000		13900	10000	4542	93.8	13830	0.68	10/23/2023	

Batch R338166		SampType: MS		Units mg/L							
SampID: 23101548-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		35	20.00	16.94	89.7	85	115	10/23/2023	

Batch R338166		SampType: MSD		Units mg/L							
SampID: 23101548-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		35	20.00	16.94	90.7	34.87	0.60	10/23/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9251 (TOTAL)

Batch R338166		SampType: MS		Units mg/L							Date
SampID: 23101593-004CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Chloride		40	S	<b>364</b>	200.0	195.3	84.3	85	115		10/23/2023

Batch R338166		SampType: MSD		Units mg/L		RPD Limit: 15					Date
SampID: 23101593-004CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Chloride		40	S	<b>361</b>	200.0	195.3	83.0	363.9	0.72		10/23/2023

Batch R338166		SampType: MS		Units mg/L							Date
SampID: 23101670-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Chloride		4		<b>31</b>	20.00	12.77	90.8	85	115		10/23/2023

Batch R338166		SampType: MSD		Units mg/L		RPD Limit: 15					Date
SampID: 23101670-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Chloride		4		<b>31</b>	20.00	12.77	91.8	30.94	0.58		10/23/2023

Batch R338363		SampType: MBLK		Units mg/L							Date
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Chloride		4		< 4	0.5000	0	0	-100	100		10/26/2023

Batch R338363		SampType: MBLK		Units mg/Kg							Date
SampID: MB-R338363											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Chloride	*	40		< 40	0.5000	0	0	-100	100		10/26/2023

Batch R338363		SampType: LCS		Units mg/L							Date
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Chloride		4		<b>20</b>	20.00	0	100.6	90	110		10/26/2023

Batch R338363		SampType: LCS		Units mg/Kg							Date
SampID: LCS-R338363											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Chloride	*	40	J	<b>20</b>	20.00	0	100.6	90	110		10/26/2023





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9251 (TOTAL)

Batch R338363		SampType: MS		Units mg/L							Date Analyzed
SampID: 23100903-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		40	20.00	21.82	90.0	85	115	10/26/2023	

Batch R338363		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23100903-002AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		4		40	20.00	21.82	90.6	39.82	0.33	10/26/2023		

Batch R338363		SampType: MS		Units mg/L							Date Analyzed
SampID: 23100903-018AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		36	20.00	17.17	92.6	85	115	10/26/2023	

Batch R338363		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23100903-018AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		4		36	20.00	17.17	93.0	35.68	0.22	10/26/2023		

Batch R338363		SampType: MS		Units mg/L							Date Analyzed
SampID: 23100903-025AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		39	20.00	20.92	91.8	85	115	10/26/2023	

Batch R338363		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23100903-025AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		4		39	20.00	20.92	92.8	39.29	0.46	10/26/2023		

Batch R338363		SampType: MS		Units mg/L							Date Analyzed
SampID: 23100903-030AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		30	20.00	11.59	94.4	85	115	10/26/2023	

Batch R338363		SampType: MSD		Units mg/L							RPD Limit: 15	Date Analyzed
SampID: 23100903-030AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		4		30	20.00	11.59	94.3	30.46	0.03	10/26/2023		



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 9251 (TOTAL)

Batch R338363 SampType: MS Units mg/Kg-dry

SampID: 23101757-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride	*	837		<b>4220</b>	4186	161.4	96.9	85	115	10/26/2023

Batch R338363 SampType: MSD Units mg/Kg-dry

RPD Limit: 15

SampID: 23101757-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride	*	837		<b>4200</b>	4186	161.4	96.4	4220	0.51	10/26/2023

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 213337 SampType: MBLK Units mg/L

SampID: MBLK-213337

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		< <b>0.0500</b>	0.0068	0	0	-100	100	10/18/2023
Arsenic		0.0250		< <b>0.0250</b>	0.0087	0	0	-100	100	10/18/2023
Boron		0.0200		< <b>0.0200</b>	0.0090	0	0	-100	100	10/18/2023
Cadmium		0.0020		< <b>0.0020</b>	0.0005	0	0	-100	100	10/18/2023
Calcium		0.100		< <b>0.100</b>	0.0350	0	0	-100	100	10/18/2023
Chromium		0.0050		< <b>0.0050</b>	0.0028	0	0	-100	100	10/18/2023
Iron		0.0400		< <b>0.0400</b>	0.0200	0	0	-100	100	10/18/2023
Lead		0.0150		< <b>0.0150</b>	0.0014	0	0	-100	100	10/18/2023
Magnesium		0.0500		< <b>0.0500</b>	0.0055	0	0	-100	100	10/18/2023
Manganese		0.0070		< <b>0.0070</b>	0.0025	0	0	-100	100	10/18/2023
Potassium		0.100		< <b>0.100</b>	0.0400	0	0	-100	100	10/18/2023
Selenium		0.0400		< <b>0.0400</b>	0.0170	0	0	-100	100	10/18/2023
Sodium		0.0500		< <b>0.0500</b>	0.0180	0	0	-100	100	10/18/2023
Vanadium		0.0100		< <b>0.0100</b>	0.0009	0	0	-100	100	10/18/2023
Zinc		0.0100		< <b>0.0100</b>	0.0050	0	0	-100	100	10/18/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 213337 SampType: LCS Units mg/L  
SampID: LCS-213337

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		<b>0.484</b>	0.5000	0	96.9	85	115	10/18/2023
Arsenic		0.0250		<b>0.490</b>	0.5000	0	97.9	85	115	10/18/2023
Boron		0.0200		<b>0.482</b>	0.5000	0	96.4	85	115	10/18/2023
Cadmium		0.0020		<b>0.0485</b>	0.0500	0	97.0	85	115	10/18/2023
Calcium		0.100		<b>2.54</b>	2.500	0	101.5	85	115	10/18/2023
Chromium		0.0050		<b>0.195</b>	0.2000	0	97.3	85	115	10/18/2023
Iron		0.0400		<b>2.04</b>	2.000	0	102.0	85	115	10/18/2023
Lead		0.0150		<b>0.489</b>	0.5000	0	97.8	85	115	10/18/2023
Magnesium		0.0500		<b>2.31</b>	2.500	0	92.4	85	115	10/18/2023
Manganese		0.0070		<b>0.488</b>	0.5000	0	97.5	85	115	10/18/2023
Potassium		0.100		<b>2.53</b>	2.500	0	101.1	85	115	10/18/2023
Selenium		0.0400		<b>0.465</b>	0.5000	0	93.0	85	115	10/18/2023
Sodium		0.0500		<b>2.48</b>	2.500	0	99.3	85	115	10/18/2023
Vanadium		0.0100		<b>0.487</b>	0.5000	0	97.4	85	115	10/18/2023
Zinc		0.0100		<b>0.485</b>	0.5000	0	97.0	85	115	10/18/2023

Batch 213337 SampType: MS Units mg/L  
SampID: 23091794-049CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	<b>539</b>	2.500	545.5	-244.0	75	125	10/18/2023
Magnesium		0.050	S	<b>418</b>	2.500	425.1	-288.4	75	125	10/18/2023
Potassium		0.100		<b>8.65</b>	2.500	6.102	102.0	75	125	10/18/2023
Sodium		0.050	S	<b>424</b>	2.500	432.1	-313.6	75	125	10/18/2023

Batch 213337 SampType: MSD Units mg/L  
SampID: 23091794-049CMSD

RPD Limit: 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	<b>534</b>	2.500	545.5	-472.4	539.4	1.06	10/18/2023
Magnesium		0.050	S	<b>416</b>	2.500	425.1	-372.2	417.8	0.50	10/18/2023
Potassium		0.100		<b>8.63</b>	2.500	6.102	101.0	8.651	0.27	10/18/2023
Sodium		0.050	S	<b>423</b>	2.500	432.1	-363.2	424.2	0.29	10/18/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 213337 SampType: MS Units mg/L

SampID: 23100899-005CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Iron		0.0400		<b>5.73</b>	2.000	3.650	104.0	75	125	10/18/2023
Manganese		0.0070		<b>2.15</b>	0.5000	1.680	95.1	75	125	10/18/2023

Batch 213337 SampType: MSD Units mg/L

RPD Limit: 20

SampID: 23100899-005CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Iron		0.0400		<b>5.68</b>	2.000	3.650	101.5	5.730	0.88	10/18/2023
Manganese		0.0070		<b>2.14</b>	0.5000	1.680	91.4	2.155	0.86	10/18/2023

Batch 213338 SampType: MBLK Units mg/L

SampID: MBLK-213338

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		< <b>0.0500</b>	0.0068	0	0	-100	100	10/18/2023
Arsenic		0.0250		< <b>0.0250</b>	0.0087	0	0	-100	100	10/18/2023
Boron		0.0200		< <b>0.0200</b>	0.0090	0	0	-100	100	10/18/2023
Cadmium		0.0020		< <b>0.0020</b>	0.0005	0	0	-100	100	10/18/2023
Calcium		0.100		< <b>0.100</b>	0.0350	0	0	-100	100	10/18/2023
Calcium		0.100		< <b>0.100</b>	0.0350	0	0	-100	100	10/18/2023
Chromium		0.0050		< <b>0.0050</b>	0.0028	0	0	-100	100	10/18/2023
Iron		0.0400		< <b>0.0400</b>	0.0200	0	0	-100	100	10/18/2023
Lead		0.0150		< <b>0.0150</b>	0.0014	0	0	-100	100	10/18/2023
Magnesium		0.050		< <b>0.050</b>	0.0055	0	0	-100	100	10/18/2023
Magnesium		0.0500		< <b>0.0500</b>	0.0055	0	0	-100	100	10/18/2023
Manganese		0.0070		< <b>0.0070</b>	0.0025	0	0	-100	100	10/18/2023
Potassium		0.100		< <b>0.100</b>	0.0400	0	0	-100	100	10/18/2023
Potassium		0.100		< <b>0.100</b>	0.0400	0	0	-100	100	10/18/2023
Selenium		0.0400		< <b>0.0400</b>	0.0170	0	0	-100	100	10/18/2023
Sodium		0.050		< <b>0.050</b>	0.0180	0	0	-100	100	10/18/2023
Sodium		0.0500		< <b>0.0500</b>	0.0180	0	0	-100	100	10/18/2023
Vanadium		0.0100		< <b>0.0100</b>	0.0009	0	0	-100	100	10/18/2023
Zinc		0.0100		< <b>0.0100</b>	0.0050	0	0	-100	100	10/18/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 213338 SampType: LCS Units mg/L

SampID: LCS-213338

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		<b>0.436</b>	0.5000	0	87.1	85	115	10/18/2023
Arsenic		0.0250		<b>0.488</b>	0.5000	0	97.6	85	115	10/18/2023
Boron		0.0200		<b>0.487</b>	0.5000	0	97.4	85	115	10/18/2023
Cadmium		0.0020		<b>0.0462</b>	0.0500	0	92.4	85	115	10/18/2023
Calcium		0.100		<b>2.55</b>	2.500	0	102.0	85	115	10/18/2023
Calcium		0.100		<b>2.55</b>	2.500	0	102.0	85	115	10/18/2023
Chromium		0.0050		<b>0.195</b>	0.2000	0	97.3	85	115	10/18/2023
Iron		0.0400		<b>1.99</b>	2.000	0	99.3	85	115	10/18/2023
Lead		0.0150		<b>0.481</b>	0.5000	0	96.3	85	115	10/18/2023
Magnesium		0.050		<b>2.19</b>	2.500	0	87.8	85	115	10/18/2023
Magnesium		0.0500		<b>2.19</b>	2.500	0	87.8	85	115	10/18/2023
Manganese		0.0070		<b>0.496</b>	0.5000	0	99.1	85	115	10/18/2023
Potassium		0.100		<b>2.54</b>	2.500	0	101.6	85	115	10/18/2023
Potassium		0.100		<b>2.54</b>	2.500	0	101.6	85	115	10/18/2023
Selenium		0.0400		<b>0.478</b>	0.5000	0	95.5	85	115	10/18/2023
Sodium		0.050		<b>2.41</b>	2.500	0	96.2	85	115	10/18/2023
Sodium		0.0500		<b>2.41</b>	2.500	0	96.2	85	115	10/18/2023
Vanadium		0.0100		<b>0.481</b>	0.5000	0	96.2	85	115	10/18/2023
Zinc		0.0100		<b>0.485</b>	0.5000	0	97.1	85	115	10/18/2023

Batch 213338 SampType: MS Units mg/L

SampID: 23100935-006BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	<b>93.8</b>	2.500	93.08	30.0	75	125	10/18/2023
Iron		0.0400		<b>1.99</b>	2.000	0	99.7	75	125	10/18/2023
Magnesium		0.0500		<b>32.2</b>	2.500	30.02	87.5	75	125	10/18/2023
Potassium		0.100		<b>5.41</b>	2.500	2.967	97.5	75	125	10/18/2023
Sodium		0.0500		<b>13.4</b>	2.500	11.28	82.8	75	125	10/18/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 213338		SampType: MSD		Units mg/L		RPD Limit: 20				
SampID: 23100935-006BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	<b>93.1</b>	2.500	93.08	0.8	93.83	0.78	10/18/2023
Iron		0.0400		<b>1.98</b>	2.000	0	98.8	1.994	0.95	10/18/2023
Magnesium		0.0500		<b>31.9</b>	2.500	30.02	76.3	32.21	0.88	10/18/2023
Potassium		0.100		<b>5.37</b>	2.500	2.967	96.3	5.406	0.59	10/18/2023
Sodium		0.0500		<b>13.3</b>	2.500	11.28	80.0	13.35	0.53	10/18/2023

Batch 213380		SampType: MBLK		Units mg/L						
SampID: MBLK-213380										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		< <b>0.0500</b>	0.0068	0	0	-100	100	10/18/2023
Arsenic		0.0250		< <b>0.0250</b>	0.0087	0	0	-100	100	10/18/2023
Boron		0.0200		< <b>0.0200</b>	0.0090	0	0	-100	100	10/18/2023
Cadmium		0.0020		< <b>0.0020</b>	0.0005	0	0	-100	100	10/18/2023
Calcium		0.100		< <b>0.100</b>	0.0350	0	0	-100	100	10/18/2023
Calcium		0.100		< <b>0.100</b>	0.0350	0	0	-100	100	10/18/2023
Chromium		0.0050		< <b>0.0050</b>	0.0028	0	0	-100	100	10/18/2023
Iron		0.0400		< <b>0.0400</b>	0.0200	0	0	-100	100	10/18/2023
Lead		0.0150		< <b>0.0150</b>	0.0014	0	0	-100	100	10/18/2023
Magnesium		0.050		< <b>0.050</b>	0.0055	0	0	-100	100	10/18/2023
Magnesium		0.0500		< <b>0.0500</b>	0.0055	0	0	-100	100	10/18/2023
Manganese		0.0070		< <b>0.0070</b>	0.0025	0	0	-100	100	10/18/2023
Potassium		0.100		< <b>0.100</b>	0.0400	0	0	-100	100	10/18/2023
Potassium		0.100		< <b>0.100</b>	0.0400	0	0	-100	100	10/18/2023
Potassium		0.100		< <b>0.100</b>	0.0400	0	0	-100	100	10/18/2023
Selenium		0.0400		< <b>0.0400</b>	0.0170	0	0	-100	100	10/18/2023
Sodium		0.0500		< <b>0.0500</b>	0.0180	0	0	-100	100	10/18/2023
Sodium		0.050		< <b>0.050</b>	0.0180	0	0	-100	100	10/18/2023
Vanadium		0.0100		< <b>0.0100</b>	0.0009	0	0	-100	100	10/18/2023
Zinc		0.0100		< <b>0.0100</b>	0.0050	0	0	-100	100	10/18/2023





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 213380 SampType: LCS Units mg/L

SampleID: LCS-213380

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		<b>0.442</b>	0.5000	0	88.4	85	115	10/18/2023
Arsenic		0.0250		<b>0.496</b>	0.5000	0	99.2	85	115	10/18/2023
Boron		0.0200		<b>0.482</b>	0.5000	0	96.5	85	115	10/18/2023
Cadmium		0.0020		<b>0.0508</b>	0.0500	0	101.6	85	115	10/18/2023
Calcium		0.100		<b>2.51</b>	2.500	0	100.5	85	115	10/18/2023
Chromium		0.0050		<b>0.193</b>	0.2000	0	96.6	85	115	10/18/2023
Iron		0.0400		<b>1.98</b>	2.000	0	99.1	85	115	10/18/2023
Lead		0.0150		<b>0.483</b>	0.5000	0	96.6	85	115	10/18/2023
Magnesium		0.0500		<b>2.23</b>	2.500	0	89.1	85	115	10/18/2023
Manganese		0.0070		<b>0.475</b>	0.5000	0	95.0	85	115	10/18/2023
Potassium		0.100		<b>2.58</b>	2.500	0	103.3	85	115	10/18/2023
Selenium		0.0400		<b>0.484</b>	0.5000	0	96.8	85	115	10/18/2023
Sodium		0.0500		<b>2.48</b>	2.500	0	99.2	85	115	10/18/2023
Vanadium		0.0100		<b>0.488</b>	0.5000	0	97.6	85	115	10/18/2023
Zinc		0.0100		<b>0.491</b>	0.5000	0	98.2	85	115	10/18/2023

Batch 213380 SampType: MS Units mg/L

SampleID: 23091794-027CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	<b>213</b>	2.500	215.4	-90.0	75	125	10/18/2023
Magnesium		0.050	S	<b>167</b>	2.500	167.8	-28.7	75	125	10/18/2023
Potassium		0.100		<b>5.43</b>	2.500	2.876	102.3	75	125	10/18/2023
Sodium		0.050	S	<b>96.5</b>	2.500	96.11	14.0	75	125	10/18/2023

Batch 213380 SampType: MSD Units mg/L

RPD Limit: 20

SampleID: 23091794-027CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	<b>214</b>	2.500	215.4	-54.4	213.2	0.42	10/18/2023
Magnesium		0.050	S	<b>168</b>	2.500	167.8	-8.0	167.1	0.31	10/18/2023
Potassium		0.100		<b>5.55</b>	2.500	2.876	107.1	5.434	2.17	10/18/2023
Sodium		0.050	S	<b>96.8</b>	2.500	96.11	29.2	96.46	0.39	10/18/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 213380 SampType: MS Units mg/L

SampID: 23091794-043CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	515	2.500	524.6	-370.4	75	125	10/18/2023
Magnesium		0.050	S	368	2.500	371.4	-133.0	75	125	10/18/2023
Potassium		0.100		9.06	2.500	6.399	106.3	75	125	10/18/2023
Sodium		0.050	S	412	2.500	418.1	-260.8	75	125	10/18/2023

Batch 213380 SampType: MSD Units mg/L

RPD Limit: 20

SampID: 23091794-043CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	517	2.500	524.6	-312.4	515.4	0.28	10/18/2023
Magnesium		0.050	S	368	2.500	371.4	-148.6	368.0	0.11	10/18/2023
Potassium		0.100		9.05	2.500	6.399	106.0	9.057	0.09	10/18/2023
Sodium		0.050	S	414	2.500	418.1	-173.6	411.6	0.53	10/18/2023

Batch 213410 SampType: MBLK Units mg/L

SampID: MBLK-213410

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	10/19/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	10/19/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	10/19/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	10/19/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	10/19/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	10/19/2023

Batch 213410 SampType: LCS Units mg/L

SampID: LCS-213410

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.45	2.500	0	98.0	85	115	10/19/2023
Iron		0.0400		1.91	2.000	0	95.6	85	115	10/19/2023
Magnesium		0.0500		2.22	2.500	0	88.9	85	115	10/19/2023
Manganese		0.0070		0.467	0.5000	0	93.5	85	115	10/19/2023
Potassium		0.100		2.36	2.500	0	94.5	85	115	10/19/2023
Sodium		0.0500		2.35	2.500	0	94.0	85	115	10/19/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 213410 SampType: MS Units mg/L

SampID: 23091794-100DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.47	2.500	0	98.9	75	125	10/19/2023
Magnesium		0.050		2.24	2.500	0	89.5	75	125	10/19/2023
Potassium		0.100		2.39	2.500	0	95.7	75	125	10/19/2023
Sodium		0.050		2.39	2.500	0	95.4	75	125	10/19/2023

Batch 213410 SampType: MSD Units mg/L

RPD Limit: 20

SampID: 23091794-100DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		2.50	2.500	0	100.0	2.471	1.19	10/19/2023
Magnesium		0.050		2.25	2.500	0	89.8	2.238	0.34	10/19/2023
Potassium		0.100		2.43	2.500	0	97.1	2.393	1.39	10/19/2023
Sodium		0.050		2.42	2.500	0	96.6	2.386	1.27	10/19/2023

Batch 213410 SampType: MS Units mg/L

SampID: 23101133-013CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Iron		0.0400		5.76	4.000	2.220	88.5	75	125	10/19/2023
Manganese		0.0070		2.73	1.000	1.912	81.3	75	125	10/19/2023

Batch 213410 SampType: MSD Units mg/L

RPD Limit: 20

SampID: 23101133-013CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Iron		0.0400		5.83	4.000	2.220	90.2	5.760	1.21	10/19/2023
Manganese		0.0070		2.75	1.000	1.912	83.6	2.726	0.84	10/19/2023

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 213214 SampType: MBLK Units mg/L

SampID: MBLK-213214

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	10/13/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	10/13/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	10/13/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	10/13/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 213214 SampType: LCS Units mg/L

SampID: LCS-213214

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.66	2.500	0	106.4	85	115	10/13/2023
Magnesium		0.0500		2.46	2.500	0	98.2	85	115	10/13/2023
Potassium		0.100		2.64	2.500	0	105.4	85	115	10/13/2023
Sodium		0.0500		2.54	2.500	0	101.5	85	115	10/13/2023

Batch 213214 SampType: MS Units mg/L

SampID: 23091794-095BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		14.4	2.500	12.36	83.2	75	125	10/13/2023
Magnesium		0.050		3.44	2.500	1.078	94.3	75	125	10/13/2023
Potassium		2.00		49.5	2.500	46.89	103.1	75	125	10/16/2023
Sodium		1.00	S	2100	2.500	2113	-512.0	75	125	10/16/2023

Batch 213214 SampType: MSD Units mg/L

SampID: 23091794-095BMSD

RPD Limit: 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	14.2	2.500	12.36	73.6	14.44	1.68	10/13/2023
Magnesium		0.050		3.33	2.500	1.078	90.2	3.436	3.05	10/13/2023
Potassium		2.00	S	50.2	2.500	46.89	131.4	49.47	1.42	10/16/2023
Sodium		1.00	S	2130	2.500	2113	856.0	2100	1.62	10/16/2023

Batch 213222 SampType: MBLK Units mg/L

SampID: MBLK-213222

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	10/13/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	10/13/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	10/13/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	10/13/2023

Batch 213222 SampType: LCS Units mg/L

SampID: LCS-213222

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.64	2.500	0	105.4	85	115	10/13/2023
Magnesium		0.0500		2.45	2.500	0	97.9	85	115	10/13/2023
Potassium		0.100		2.65	2.500	0	106.0	85	115	10/13/2023
Sodium		0.0500		2.53	2.500	0	101.2	85	115	10/13/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 213222 SampType: MS Units mg/L

SampID: 23091794-098BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	126	2.500	121.9	167.6	75	125	10/13/2023
Magnesium		0.050		2.95	2.500	0.5865	94.6	75	125	10/13/2023
Potassium		10.0	S	97.2	2.500	93.69	140.4	75	125	10/16/2023
Sodium		5.00	S	4110	2.500	4078	1400	75	125	10/16/2023

Batch 213222 SampType: MSD Units mg/L

RPD Limit: 20

SampID: 23091794-098BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	126	2.500	121.9	154.4	126.1	0.26	10/13/2023
Magnesium		0.050		2.98	2.500	0.5865	95.9	2.952	1.04	10/13/2023
Potassium		10.0	S	98.5	2.500	93.69	190.8	97.20	1.29	10/16/2023
Sodium		5.00	S	4180	2.500	4078	4280	4113	1.74	10/16/2023

Batch 213274 SampType: MBLK Units mg/L

SampID: MBLK-213274

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	10/18/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	10/17/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	10/17/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	10/17/2023
Magnesium		0.050		< 0.050	0.0055	0	0	-100	100	10/17/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	10/17/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	10/17/2023
Sodium		0.050		< 0.050	0.0180	0	0	-100	100	10/17/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	10/17/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 213274 SampType: LCS Units mg/L

SampID: LCS-213274

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0250		<b>0.553</b>	0.5000	0	110.6	85	115	10/18/2023
Calcium		0.100		<b>2.61</b>	2.500	0	104.5	85	115	10/17/2023
Calcium		0.100		<b>2.61</b>	2.500	0	104.5	85	115	10/17/2023
Iron		0.0400		<b>2.22</b>	2.000	0	111.0	85	115	10/18/2023
Magnesium		0.050		<b>2.51</b>	2.500	0	100.5	85	115	10/17/2023
Magnesium		0.0500		<b>2.51</b>	2.500	0	100.5	85	115	10/17/2023
Potassium		0.100		<b>2.61</b>	2.500	0	104.3	85	115	10/17/2023
Potassium		0.100		<b>2.61</b>	2.500	0	104.3	85	115	10/17/2023
Sodium		0.0500		<b>2.59</b>	2.500	0	103.7	85	115	10/17/2023
Sodium		0.050		<b>2.59</b>	2.500	0	103.7	85	115	10/17/2023

Batch 213274 SampType: MS Units mg/L

SampID: 23091794-047BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	<b>130</b>	2.500	123.2	264.4	75	125	10/18/2023
Magnesium		0.050	S	<b>48.5</b>	2.500	44.61	154.8	75	125	10/18/2023
Potassium		0.100		<b>4.91</b>	2.500	2.002	116.5	75	125	10/18/2023
Sodium		0.050	S	<b>110</b>	2.500	103.2	271.2	75	125	10/18/2023

Batch 213274 SampType: MSD Units mg/L

RPD Limit: 20

SampID: 23091794-047BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	<b>129</b>	2.500	123.2	216.0	129.8	0.94	10/18/2023
Magnesium		0.050	S	<b>48.4</b>	2.500	44.61	151.2	48.48	0.18	10/18/2023
Potassium		0.100		<b>4.97</b>	2.500	2.002	118.6	4.915	1.05	10/18/2023
Sodium		0.050	S	<b>109</b>	2.500	103.2	227.2	110.0	1.00	10/18/2023

Batch 213274 SampType: MS Units mg/L

SampID: 23100784-003AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Potassium		1.00	S	<b>22.2</b>	2.500	20.76	56.6	75	125	10/18/2023

Batch 213274 SampType: MSD Units mg/L

RPD Limit: 20

SampID: 23100784-003AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Potassium		1.00		<b>23.4</b>	2.500	20.76	104.5	22.18	5.25	10/18/2023





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 213337 SampType: MBLK Units µg/L

SampID: MBLK-213337

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	10/17/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	10/17/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	10/17/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	10/17/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	10/18/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	10/17/2023
Iron		25.0		< 25.0	11.50	0	0	-100	100	10/18/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	10/17/2023
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	10/17/2023
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	10/17/2023
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	10/18/2023
Zinc		15.0		< 15.0	5.900	0	0	-100	100	10/17/2023

Batch 213337 SampType: LCS Units µg/L

SampID: LCS-213337

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		461	500.0	0	92.3	80	120	10/17/2023
Arsenic		1.0		488	500.0	0	97.6	80	120	10/17/2023
Boron		25.0		453	500.0	0	90.7	80	120	10/17/2023
Cadmium		1.0		47.6	50.00	0	95.3	80	120	10/17/2023
Chromium		1.5		184	200.0	0	91.9	80	120	10/18/2023
Chromium		1.5		183	200.0	0	91.5	80	120	10/17/2023
Iron		25.0		1870	2000	0	93.5	80	120	10/18/2023
Lead		1.0		487	500.0	0	97.5	80	120	10/17/2023
Manganese		2.0		458	500.0	0	91.7	80	120	10/17/2023
Selenium		1.0		437	500.0	0	87.4	80	120	10/17/2023
Vanadium		5.0		452	500.0	0	90.5	80	120	10/18/2023
Zinc		15.0		440	500.0	0	88.0	80	120	10/17/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 213337		SampType: MS		Units µg/L							Date Analyzed
SampID: 23091794-049CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		1.0		<b>463</b>	500.0	0	92.5	75	125	10/17/2023	
Arsenic		1.0		<b>501</b>	500.0	0.5128	100.1	75	125	10/17/2023	
Boron		25.0	S	<b>558</b>	500.0	187.4	74.2	75	125	10/17/2023	
Cadmium		1.0		<b>44.0</b>	50.00	0	88.1	75	125	10/17/2023	
Chromium		1.5		<b>170</b>	200.0	0	85.1	75	125	10/18/2023	
Lead		1.0		<b>404</b>	500.0	0	80.9	75	125	10/17/2023	
Selenium		1.0		<b>443</b>	500.0	0	88.7	75	125	10/17/2023	
Vanadium		5.0		<b>444</b>	500.0	0	88.9	75	125	10/18/2023	
Zinc		15.0		<b>393</b>	500.0	0	78.7	75	125	10/17/2023	

Batch 213337		SampType: MSD		Units µg/L							RPD Limit: 20	Date Analyzed
SampID: 23091794-049CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Antimony		1.0		<b>459</b>	500.0	0	91.9	462.6	0.72	10/18/2023		
Arsenic		1.0		<b>497</b>	500.0	0.5128	99.4	500.9	0.69	10/18/2023		
Boron		25.0	S	<b>558</b>	500.0	187.4	74.2	558.3	0.01	10/18/2023		
Cadmium		1.0		<b>43.5</b>	50.00	0	86.9	44.03	1.28	10/18/2023		
Chromium		1.5		<b>169</b>	200.0	0	84.7	170.1	0.41	10/18/2023		
Lead		1.0		<b>402</b>	500.0	0	80.4	404.3	0.56	10/18/2023		
Selenium		1.0		<b>443</b>	500.0	0	88.5	443.3	0.18	10/18/2023		
Vanadium		5.0		<b>448</b>	500.0	0	89.7	444.4	0.89	10/18/2023		
Zinc		15.0		<b>387</b>	500.0	0	77.4	393.4	1.64	10/18/2023		



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 213338 SampType: MBLK Units µg/L

SampID: MBLK-213338

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	10/18/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	10/18/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	10/18/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	10/18/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	10/18/2023
Iron		25.0		< 25.0	11.50	0	0	-100	100	10/18/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	10/18/2023
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	10/18/2023
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	10/18/2023
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	10/18/2023
Zinc		15.0		< 15.0	5.900	0	0	-100	100	10/18/2023

Batch 213338 SampType: LCS Units µg/L

SampID: LCS-213338

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		437	500.0	0	87.5	80	120	10/18/2023
Arsenic		1.0		481	500.0	0	96.1	80	120	10/18/2023
Boron		25.0		436	500.0	0	87.2	80	120	10/18/2023
Cadmium		1.0		45.0	50.00	0	89.9	80	120	10/18/2023
Chromium		1.5		176	200.0	0	88.0	80	120	10/18/2023
Iron		25.0		1800	2000	0	90.0	80	120	10/18/2023
Lead		1.0		473	500.0	0	94.7	80	120	10/18/2023
Manganese		2.0		458	500.0	0	91.7	80	120	10/18/2023
Selenium		1.0		451	500.0	0	90.2	80	120	10/18/2023
Vanadium		5.0		436	500.0	0	87.2	80	120	10/18/2023
Zinc		15.0		439	500.0	0	87.8	80	120	10/18/2023

Batch 213338 SampType: MS Units µg/L

SampID: 23091794-102DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Manganese		2.0		641	500.0	249.2	78.3	75	125	10/18/2023
Zinc		15.0		409	500.0	6.656	80.5	75	125	10/18/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 213338		SampType: MSD		Units µg/L			RPD Limit: 20			
SampID: 23091794-102DMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Manganese		2.0		<b>627</b>	500.0	249.2	75.6	640.8	2.12	10/18/2023
Zinc		15.0		<b>383</b>	500.0	6.656	75.3	409.0	6.57	10/18/2023

Batch 213338		SampType: MS		Units µg/L						
SampID: 23100935-006BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		1.0		<b>481</b>	500.0	1.197	95.9	75	125	10/18/2023
Cadmium		1.0		<b>45.0</b>	50.00	0	90.1	75	125	10/18/2023
Chromium		1.5		<b>177</b>	200.0	0	88.5	75	125	10/19/2023
Manganese		2.0		<b>452</b>	500.0	8.386	88.7	75	125	10/19/2023

Batch 213338		SampType: MSD		Units µg/L			RPD Limit: 20			
SampID: 23100935-006BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		1.0		<b>480</b>	500.0	1.197	95.8	480.9	0.13	10/18/2023
Cadmium		1.0		<b>45.2</b>	50.00	0	90.3	45.04	0.26	10/18/2023
Chromium		1.5		<b>174</b>	200.0	0	87.2	176.9	1.42	10/19/2023
Manganese		2.0		<b>440</b>	500.0	8.386	86.2	451.7	2.72	10/19/2023

Batch 213380		SampType: MBLK		Units µg/L						
SampID: MBLK-213380										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	10/19/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	10/19/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	10/20/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	10/19/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	10/19/2023
Iron		25.0		< 25.0	11.50	0	0	-100	100	10/19/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	10/19/2023
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	10/19/2023
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	10/19/2023
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	10/19/2023
Zinc		15.0		< 15.0	5.900	0	0	-100	100	10/19/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 213380 SampType: LCS Units µg/L

SampID: LCS-213380

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		452	500.0	0	90.4	80	120	10/19/2023
Arsenic		1.0		472	500.0	0	94.5	80	120	10/19/2023
Boron		25.0		459	500.0	0	91.8	80	120	10/20/2023
Cadmium		1.0		46.0	50.00	0	92.0	80	120	10/19/2023
Chromium		1.5		177	200.0	0	88.7	80	120	10/19/2023
Iron		25.0		1720	2000	0	85.9	80	120	10/19/2023
Lead		1.0		455	500.0	0	91.0	80	120	10/19/2023
Manganese		2.0		482	500.0	0	96.4	80	120	10/19/2023
Selenium		1.0		428	500.0	0	85.6	80	120	10/20/2023
Vanadium		5.0		463	500.0	0	92.7	80	120	10/19/2023
Zinc		15.0		422	500.0	0	84.5	80	120	10/19/2023

Batch 213380 SampType: MS Units µg/L

SampID: 23091794-027CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		1.0		471	500.0	0.6336	94.1	75	125	10/20/2023
Boron		25.0		664	500.0	220.4	88.8	75	125	10/20/2023
Cadmium		1.0		43.7	50.00	0	87.4	75	125	10/20/2023
Chromium		1.5		186	200.0	0	92.9	75	125	10/20/2023
Iron		25.0		1990	2000	123.1	93.2	75	125	10/20/2023
Lead		1.0		438	500.0	0	87.6	75	125	10/20/2023
Manganese		2.0		927	500.0	502.9	84.8	75	125	10/23/2023
Selenium		1.0		416	500.0	0	83.2	75	125	10/20/2023
Zinc		15.0		413	500.0	0	82.6	75	125	10/20/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 213380		SampType: MSD		Units µg/L				RPD Limit: 20			Date Analyzed
SampID: 23091794-027CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Arsenic		1.0		503	500.0	0.6336	100.5	471.0	6.61	10/20/2023	
Boron		25.0		694	500.0	220.4	94.8	664.4	4.39	10/20/2023	
Cadmium		1.0		46.3	50.00	0	92.7	43.70	5.86	10/20/2023	
Chromium		1.5		190	200.0	0	94.8	185.8	2.01	10/20/2023	
Iron		25.0		2030	2000	123.1	95.5	1987	2.27	10/20/2023	
Lead		1.0		457	500.0	0	91.4	437.9	4.23	10/20/2023	
Manganese		2.0		986	500.0	502.9	96.7	927.1	6.20	10/23/2023	
Selenium		1.0		447	500.0	0	89.4	415.9	7.18	10/20/2023	
Zinc		15.0		435	500.0	0	87.0	412.9	5.20	10/20/2023	

Batch 213380		SampType: MS		Units µg/L						Date Analyzed
SampID: 23091794-043CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		1.0		488	500.0	0	97.5	75	125	10/19/2023
Boron		25.0		596	500.0	164.9	86.1	75	125	10/20/2023
Cadmium		1.0		41.3	50.00	0	82.7	75	125	10/19/2023
Chromium		1.5		162	200.0	0	80.8	75	125	10/19/2023
Iron		25.0		1800	2000	52.16	87.3	75	125	10/19/2023
Lead		1.0		453	500.0	0	90.7	75	125	10/19/2023
Manganese		2.0		798	500.0	314.0	96.9	75	125	10/19/2023
Selenium		1.0		439	500.0	0	87.7	75	125	10/20/2023
Zinc		15.0		382	500.0	0	76.4	75	125	10/19/2023

Batch 213380		SampType: MSD		Units µg/L				RPD Limit: 20			Date Analyzed
SampID: 23091794-043CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Arsenic		1.0		489	500.0	0	97.9	487.7	0.37	10/19/2023	
Boron		25.0		589	500.0	164.9	84.8	595.6	1.14	10/20/2023	
Cadmium		1.0		42.0	50.00	0	83.9	41.34	1.48	10/19/2023	
Chromium		1.5		164	200.0	0	81.8	161.7	1.16	10/19/2023	
Iron		25.0		1780	2000	52.16	86.3	1797	1.11	10/19/2023	
Lead		1.0		454	500.0	0	90.8	453.3	0.16	10/19/2023	
Manganese		2.0		795	500.0	314.0	96.1	798.4	0.49	10/19/2023	
Selenium		1.0		423	500.0	0	84.5	438.5	3.69	10/20/2023	
Zinc		15.0		382	500.0	0	76.5	381.9	0.12	10/19/2023	





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 213410 SampType: MBLK Units µg/L

SampID: MBLK-213410

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	10/20/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	10/19/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	10/20/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	10/19/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	10/19/2023
Iron		25.0		< 25.0	11.50	0	0	-100	100	10/19/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	10/19/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	10/19/2023
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	10/19/2023
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	10/19/2023
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	10/19/2023
Zinc		15.0		< 15.0	5.900	0	0	-100	100	10/19/2023

Batch 213410 SampType: LCS Units µg/L

SampID: LCS-213410

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		454	500.0	0	90.8	80	120	10/20/2023
Arsenic		1.0		485	500.0	0	97.0	80	120	10/19/2023
Boron		25.0		474	500.0	0	94.8	80	120	10/20/2023
Cadmium		1.0		45.6	50.00	0	91.3	80	120	10/19/2023
Chromium		1.5		186	200.0	0	93.0	80	120	10/19/2023
Iron		25.0		1920	2000	0	95.8	80	120	10/19/2023
Lead		1.0		486	500.0	0	97.1	80	120	10/19/2023
Lead		1.0		468	500.0	0	93.7	80	120	10/19/2023
Manganese		2.0		486	500.0	0	97.3	80	120	10/19/2023
Selenium		1.0		426	500.0	0	85.3	80	120	10/19/2023
Vanadium		5.0		481	500.0	0	96.2	80	120	10/19/2023
Zinc		15.0		435	500.0	0	87.1	80	120	10/19/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 213410		SampType: MS		Units µg/L						
SampID: 23091794-100DMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		450	500.0	0	89.9	75	125	10/20/2023
Arsenic		1.0		450	500.0	0	90.0	75	125	10/19/2023
Boron		25.0		466	500.0	0	93.1	75	125	10/20/2023
Cadmium		1.0		43.6	50.00	0	87.3	75	125	10/19/2023
Chromium		1.5		172	200.0	0	85.8	75	125	10/19/2023
Iron		25.0		1870	2000	0	93.3	75	125	10/20/2023
Lead		1.0		426	500.0	0	85.2	75	125	10/19/2023
Manganese		2.0		460	500.0	0	92.0	75	125	10/20/2023
Selenium		1.0		386	500.0	0	77.2	75	125	10/19/2023
Vanadium		5.0		447	500.0	0	89.5	75	125	10/19/2023
Zinc		15.0		400	500.0	0	80.0	75	125	10/19/2023

Batch 213410		SampType: MSD		Units µg/L		RPD Limit: 20				
SampID: 23091794-100DMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		1.0		441	500.0	0	88.2	449.6	1.87	10/20/2023
Arsenic		1.0		469	500.0	0	93.8	449.9	4.16	10/19/2023
Boron		25.0		469	500.0	0	93.9	465.5	0.82	10/20/2023
Cadmium		1.0		44.0	50.00	0	88.0	43.65	0.85	10/19/2023
Chromium		1.5		180	200.0	0	90.2	171.7	4.99	10/19/2023
Iron		25.0		1840	2000	0	92.0	1867	1.48	10/20/2023
Lead		1.0		431	500.0	0	86.2	426.1	1.12	10/19/2023
Manganese		2.0		460	500.0	0	92.0	460.0	0.05	10/20/2023
Selenium		1.0		391	500.0	0	78.1	385.9	1.21	10/19/2023
Vanadium		5.0		463	500.0	0	92.6	447.3	3.46	10/19/2023
Zinc		15.0		425	500.0	0	85.0	400.2	5.99	10/19/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 213214 SampType: MBLK Units µg/L

SampID: MBLK-213214

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	10/13/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	10/13/2023
Barium		1.0		< 1.0	0.7000	0	0	-100	100	10/13/2023
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	10/16/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	10/13/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	10/13/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	10/13/2023
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	10/13/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	10/13/2023
Lithium	*	3.0		< 3.0	1.450	0	0	-100	100	10/13/2023
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	10/13/2023
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	10/13/2023
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	10/13/2023

Batch 213214 SampType: LCS Units µg/L

SampID: LCS-213214

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		501	500.0	0	100.2	80	120	10/13/2023
Arsenic		1.0		514	500.0	0	102.7	80	120	10/13/2023
Barium		1.0		2250	2000	0	112.4	80	120	10/13/2023
Beryllium		1.0		44.4	50.00	0	88.9	80	120	10/16/2023
Boron		25.0		447	500.0	0	89.4	80	120	10/16/2023
Cadmium		1.0		46.3	50.00	0	92.6	80	120	10/13/2023
Chromium		1.5		193	200.0	0	96.7	80	120	10/13/2023
Cobalt		1.0		496	500.0	0	99.1	80	120	10/18/2023
Lead		1.0		493	500.0	0	98.6	80	120	10/13/2023
Lithium	*	3.0		456	500.0	0	91.3	80	120	10/16/2023
Molybdenum		1.5		483	500.0	0	96.7	80	120	10/13/2023
Selenium		1.0		474	500.0	0	94.7	80	120	10/13/2023
Thallium		2.0		235	250.0	0	94.1	80	120	10/16/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 213214 SampType: MS Units µg/L

SampID: 23091794-095BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		447	500.0	0.6869	89.2	75	125	10/16/2023
Arsenic		1.0		560	500.0	67.41	98.4	75	125	10/13/2023
Barium		1.0		1830	2000	65.16	88.0	75	125	10/13/2023
Beryllium		1.0		46.5	50.00	0.6711	91.6	75	125	10/16/2023
Boron		25.0	S	13500	500.0	12170	273.5	75	125	10/16/2023
Cadmium		1.0		39.5	50.00	0	78.9	75	125	10/13/2023
Chromium		1.5		188	200.0	10.14	88.8	75	125	10/13/2023
Cobalt		2.0		450	500.0	1.584	89.7	75	125	10/18/2023
Lead		2.0		413	500.0	5.555	81.5	75	125	10/18/2023
Lithium	*	3.0		569	500.0	58.04	102.2	75	125	10/16/2023
Molybdenum		1.5		675	500.0	225.8	89.8	75	125	10/13/2023
Selenium		2.0		446	500.0	44.81	80.3	75	125	10/18/2023
Thallium		4.0		209	250.0	0	83.7	75	125	10/18/2023

Batch 213214 SampType: MSD Units µg/L

RPD Limit: 20

SampID: 23091794-095BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		1.0		452	500.0	0.6869	90.2	446.8	1.08	10/16/2023
Arsenic		1.0		563	500.0	67.41	99.2	559.6	0.67	10/13/2023
Barium		1.0		1870	2000	65.16	90.1	1825	2.31	10/13/2023
Beryllium		1.0		45.7	50.00	0.6711	90.1	46.46	1.57	10/16/2023
Boron		25.0	S	13300	500.0	12170	217.7	13540	2.08	10/16/2023
Cadmium		1.0		39.7	50.00	0	79.4	39.47	0.60	10/13/2023
Chromium		1.5		186	200.0	10.14	87.7	187.7	1.15	10/13/2023
Cobalt		2.0		441	500.0	1.584	87.8	450.2	2.18	10/18/2023
Lead		2.0		406	500.0	5.555	80.2	412.8	1.55	10/18/2023
Lithium	*	3.0		555	500.0	58.04	99.3	569.2	2.60	10/16/2023
Molybdenum		1.5		725	500.0	225.8	99.9	674.7	7.25	10/13/2023
Selenium		2.0		440	500.0	44.81	79.0	446.5	1.47	10/18/2023
Thallium		4.0		207	250.0	0	82.8	209.3	1.05	10/18/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 213222 SampType: MBLK Units µg/L

SampID: MBLK-213222

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	10/13/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	10/13/2023
Barium		1.0		< 1.0	0.7000	0	0	-100	100	10/13/2023
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	10/13/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	10/13/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	10/13/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	10/13/2023
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	10/13/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	10/13/2023
Lithium	*	3.0		< 3.0	1.450	0	0	-100	100	10/13/2023
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	10/13/2023
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	10/13/2023
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	10/13/2023

Batch 213222 SampType: LCS Units µg/L

SampID: LCS-213222

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		486	500.0	0	97.2	80	120	10/13/2023
Arsenic		1.0		487	500.0	0	97.5	80	120	10/13/2023
Barium		1.0		2290	2000	0	114.4	80	120	10/13/2023
Beryllium		1.0		48.9	50.00	0	97.9	80	120	10/13/2023
Boron		25.0		506	500.0	0	101.2	80	120	10/13/2023
Cadmium		1.0		45.4	50.00	0	90.8	80	120	10/13/2023
Chromium		1.5		190	200.0	0	95.1	80	120	10/13/2023
Lead		1.0		485	500.0	0	96.9	80	120	10/13/2023
Molybdenum		1.5		467	500.0	0	93.4	80	120	10/13/2023
Selenium		1.0		457	500.0	0	91.4	80	120	10/13/2023
Thallium		2.0		248	250.0	0	99.0	80	120	10/13/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 213222 SampType: MS Units µg/L

SampID: 23091794-098BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		433	500.0	0	86.6	75	125	10/13/2023
Arsenic		1.0		498	500.0	40.52	91.5	75	125	10/13/2023
Barium		1.0		1950	2000	113.6	91.9	75	125	10/13/2023
Beryllium		1.0		41.3	50.00	0	82.7	75	125	10/13/2023
Boron		50.0		3610	500.0	3070	107.3	75	125	10/20/2023
Cadmium		2.0		39.0	50.00	0	78.0	75	125	10/18/2023
Chromium		1.5		182	200.0	12.83	84.4	75	125	10/13/2023
Cobalt		1.0		462	500.0	0.5650	92.3	75	125	10/13/2023
Lithium	*	6.0		515	500.0	26.01	97.9	75	125	10/20/2023
Molybdenum		3.0		1110	500.0	629.2	95.8	75	125	10/18/2023
Selenium		2.0		486	500.0	103.8	76.4	75	125	10/18/2023
Thallium		2.0		211	250.0	0	84.5	75	125	10/13/2023

Batch 213222 SampType: MSD Units µg/L

RPD Limit: 20

SampID: 23091794-098BMDS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		1.0		422	500.0	0	84.4	433.2	2.56	10/13/2023
Arsenic		1.0		513	500.0	40.52	94.5	497.9	2.96	10/13/2023
Barium		1.0		2000	2000	113.6	94.2	1952	2.32	10/13/2023
Beryllium		1.0		40.2	50.00	0	80.4	41.34	2.79	10/13/2023
Boron		50.0		3550	500.0	3070	96.4	3607	1.51	10/20/2023
Cadmium		2.0		40.8	50.00	0	81.6	39.01	4.44	10/18/2023
Chromium		1.5		181	200.0	12.83	83.9	181.7	0.60	10/13/2023
Cobalt		1.0		468	500.0	0.5650	93.5	462.0	1.34	10/13/2023
Lithium	*	6.0		505	500.0	26.01	95.8	515.3	2.06	10/20/2023
Molybdenum		3.0		1110	500.0	629.2	96.7	1108	0.40	10/18/2023
Selenium		2.0		486	500.0	103.8	76.5	485.8	0.10	10/18/2023
Thallium		2.0		206	250.0	0	82.6	211.4	2.37	10/13/2023





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 213274 SampType: MBLK Units µg/L

SampID: MBLK-213274

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	10/16/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	10/16/2023
Barium		1.0		< 1.0	0.7000	0	0	-100	100	10/16/2023
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	10/16/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	10/16/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	10/16/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	10/16/2023
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	10/16/2023
Iron		25.0		< 25.0	11.50	0	0	-100	100	10/18/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	10/16/2023
Lithium	*	3.0		< 3.0	1.450	0	0	-100	100	10/16/2023
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	10/18/2023
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	10/16/2023
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	10/16/2023
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	10/16/2023

Batch 213274 SampType: LCS Units µg/L

SampID: LCS-213274

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		502	500.0	0	100.3	80	120	10/16/2023
Arsenic		1.0		523	500.0	0	104.5	80	120	10/16/2023
Barium		1.0		2260	2000	0	113.0	80	120	10/16/2023
Beryllium		1.0		48.7	50.00	0	97.3	80	120	10/16/2023
Boron		25.0		503	500.0	0	100.7	80	120	10/16/2023
Cadmium		1.0		48.2	50.00	0	96.4	80	120	10/16/2023
Chromium		1.5		181	200.0	0	90.5	80	120	10/16/2023
Cobalt		1.0		483	500.0	0	96.5	80	120	10/16/2023
Iron		25.0		2000	2000	0	99.9	80	120	10/18/2023
Lead		1.0		492	500.0	0	98.3	80	120	10/16/2023
Lithium	*	3.0		521	500.0	0	104.2	80	120	10/16/2023
Manganese		2.0		488	500.0	0	97.7	80	120	10/18/2023
Molybdenum		1.5		481	500.0	0	96.3	80	120	10/16/2023
Selenium		1.0		497	500.0	0	99.5	80	120	10/16/2023
Thallium		2.0		235	250.0	0	94.1	80	120	10/16/2023



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 213274		SampType: MS		Units µg/L							Date Analyzed
SampID: 23091794-047BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Boron		25.0		<b>583</b>	500.0	113.0	93.9	75	125	10/16/2023	

Batch 213274		SampType: MSD		Units µg/L							RPD Limit: 20	Date Analyzed
SampID: 23091794-047BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Boron		25.0		<b>588</b>	500.0	113.0	94.9	582.7	0.84	10/16/2023		

Batch 213566		SampType: MBLK		Units µg/L							Date Analyzed
SampID: MBLK-213566											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Boron		25.0		< <b>25.0</b>	9.250	0	0	-100	100	10/25/2023	
Lead		1.0		< <b>1.0</b>	0.6000	0	0	-100	100	10/24/2023	

Batch 213566		SampType: LCS		Units µg/L							Date Analyzed
SampID: LCS-213566											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Boron		25.0		<b>476</b>	500.0	0	95.2	80	120	10/25/2023	
Lead		1.0		<b>496</b>	500.0	0	99.2	80	120	10/24/2023	

Batch 213566		SampType: MS		Units µg/L							Date Analyzed
SampID: 23091794-098BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Lead		1.0	S	<b>201</b>	500.0	0	40.2	75	125	10/24/2023	

Batch 213566		SampType: MSD		Units µg/L							RPD Limit: 20	Date Analyzed
SampID: 23091794-098BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Lead		1.0	S	<b>198</b>	500.0	0	39.5	201.2	1.74	10/24/2023		

### SW-846 7470A (DISSOLVED)

Batch 213442		SampType: MS		Units µg/L							Date Analyzed
SampID: 23091794-041CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20	S	<b>1.98</b>	5.000	0	39.5	75	125	10/19/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 7470A (DISSOLVED)

Batch 213442		SampType: MSD		Units µg/L				RPD Limit: 15			
SampID: 23091794-041CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.20	S	1.87	5.000	0	37.4	1.976	5.50	10/19/2023	

Batch 213443		SampType: MS		Units µg/L							
SampID: 23091794-049CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.86	5.000	0	97.1	75	125	10/19/2023	

Batch 213443		SampType: MSD		Units µg/L				RPD Limit: 15			
SampID: 23091794-049CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.20		4.80	5.000	0	96.0	4.857	1.20	10/19/2023	

### SW-846 7470A (TOTAL)

Batch 213366		SampType: MBLK		Units µg/L							
SampID: MBLK-213366											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	10/18/2023	

Batch 213366		SampType: LCS		Units µg/L							
SampID: LCS-213366											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.97	5.000	0	99.4	85	115	10/18/2023	

Batch 213366		SampType: MS		Units µg/L							
SampID: 23091794-008BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		5.04	5.000	0	100.9	75	125	10/18/2023	

Batch 213366		SampType: MSD		Units µg/L				RPD Limit: 15			
SampID: 23091794-008BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.20		4.93	5.000	0	98.6	5.043	2.25	10/18/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 7470A (TOTAL)

Batch 213442		SampType: MBLK		Units µg/L							
SampID: MBLK-213442											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	10/19/2023	

Batch 213442		SampType: LCS		Units µg/L							
SampID: LCS-213442											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.51	5.000	0	90.2	85	115	10/19/2023	

Batch 213442		SampType: MS		Units µg/L							
SampID: 23091794-015BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.78	5.000	0	95.6	75	125	10/19/2023	

Batch 213442		SampType: MSD		Units µg/L							
SampID: 23091794-015BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.20		4.83	5.000	0	96.5	4.781	0.94	10/19/2023	

Batch 213443		SampType: MBLK		Units µg/L							
SampID: MBLK-213443											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	10/19/2023	

Batch 213443		SampType: LCS		Units µg/L							
SampID: LCS-213443											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		5.03	5.000	0	100.6	85	115	10/19/2023	

Batch 213443		SampType: MS		Units µg/L							
SampID: 23091794-091CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.72	5.000	0	94.4	75	125	10/19/2023	

Batch 213443		SampType: MSD		Units µg/L							
SampID: 23091794-091CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.20		4.77	5.000	0	95.4	4.720	1.06	10/19/2023	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

### SW-846 7470A (TOTAL)

Batch 213444 SampType: MBLK Units µg/L

SampID: MBLK-213444

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	10/19/2023

Batch 213444 SampType: LCS Units µg/L

SampID: LCS-213444

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		4.95	5.000	0	99.1	85	115	10/19/2023

Batch 213626 SampType: MBLK Units µg/L

SampID: MBLK-213626

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	10/24/2023

Batch 213626 SampType: LCS Units µg/L

SampID: LCS-213626

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		4.64	5.000	0	92.7	85	115	10/24/2023

Batch 213626 SampType: MS Units µg/L

SampID: 23091794-095BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20	S	7.98	5.000	6.553	28.6	75	125	10/24/2023

Batch 213626 SampType: MSD Units µg/L

RPD Limit: 15

SampID: 23091794-095BMDS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.20	S	7.79	5.000	6.553	24.7	7.982	2.47	10/24/2023



## Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

Carrier: Employee

Received By: TWM

Completed by:

Reviewed by:

On:

12-Oct-23

Lindsey Maddox

On:

13-Oct-23

Ellie Hopkins

Pages to follow: Chain of custody

Extra pages included

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C <b>3.2</b>
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input checked="" type="checkbox"/>	Lab <input type="checkbox"/>	NA <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
<i>When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.</i>				
Water – at least one vial per sample has zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials <input checked="" type="checkbox"/>	
Water - TOX containers have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No TOX containers <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	NA <input type="checkbox"/>	
NPDES/CWA TCN interferences checked/treated in the field?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	

**Any No responses must be detailed below or on the COC.**

pH strip #90719. - TWM/lmaddox - 10/12/2023 9:56:08 AM

Additional nitric acid (92447) was needed in APW04, APW05, APW14, XPW01, and APW02 Duplicate upon arrival at the laboratory. - TWM/lmaddox - 10/12/2023 9:56:28 AM

Additional Nitric Acid (93387) was needed in PW12, G06D, G125, G128, G202, G230, L1R and G06D Dup upon arrival at the laboratory. Additional Sulfuric Acid (90128) was needed in L1R and R219 upon arrival at the laboratory. L1R was filtered and preserved with Nitric Acid (93387) and Sulfuric Acid (90128) for the dissolved parameters upon arrival at the laboratory. pH strip #79929/90719. - amberdilallo - 10/13/2023 9:58:00 AM

Additional Sulfuric Acid (90128) was needed in S101 upon arrival at the laboratory. S101 and S102 were filtered and preserved with Nitric Acid (93387) and Sulfuric Acid (90128) for the dissolved parameters upon arrival at the laboratory. pH strip #79929/90719. - amberdilallo - 10/13/2023 9:59:46 AM

Samples collected on 10/11/23 were delivered to the laboratory on 10/12/23 at 1230 (on ice - 2.2C - LTG1). AMD/ERH 10/13/23

Samples collected on 10/12/23 were delivered to the laboratory on 10/12/23 at 1702 (on ice - 5.0C - LTG5). AMD/ERH 10/13/23



NEW-257-502  
23091794

### 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: Vistra Corp-Newton		Report To: Brian Voelker		Attention: Terry Hanratty		NPDES    GROUND WATER    DRINKING WATER	
Address: 6725 N 500th St Newton, IL 62448		Copy To: Terry Hanratty - Terry.Hanratty@vistracorp.com Sam Davies - samantha.davies@vistracorp.com		Company Name: Vistra Corp Address: see Section A		UST    RCRA    OTHER	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		Site Location	
Phone: (217) 753-8911    Fax:		Project Name:		Project Manager:		STATE: IL	
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:			

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / .) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX    C.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 (S=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	A207						0																23091794-001		
2	A213						5	2	1	1	X												002		
3	A214						5	2	1	1	X												003		
4	A215						5	2	1	1	X												004		
5	APW02				10-10-23	1156	4	2	2		TE	EM											005		
6	APW03				↓	1400	4	2	2														006		
7	APW04 *				↓	1523	4	2	2														007		
8	APW05 *				10/10/23	1118	2	1															008		
9	APW05S				10/10/23	1042	2	1															009		
10	APW06				10/10/23	1007	2	1															010		
11	APW07				10-10-23	1106	2	1															011		
12	APW08				↓	1215	2	1															012		
13	APW09				↓	1345	2	1															013		
14	APW10				↓	1505	2	1															014		
15	APW11				10/10/23	1502	2	1															015		
16	APW12						2	1															016		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
NEW-23Q4 Rev 0	<i>[Signature]</i>	10/11/23	1325	<i>[Signature]</i>	10/11/23	1325	5	✓	✓	✓	✓
	<i>[Signature]</i>	10/11/23	1600	<i>[Signature]</i>	10/11/23	1500	3.2				

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>Tracy Conrad</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	10/10/23		

NEW-257-502  
25041794

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

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

Page: 2 of 7

<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: Vistra Corp-Newton		Report To: Brian Voelker		Attention: Terry Hanratty		NPDES GROUND WATER DRINKING WATER		
Address: 6725 N 500th St Newton, IL 62448		Copy To: Terry Hanratty - Terry.Hanratty@vistracorp.com Sam Davies - samantha.davies@vistracorp.com		Company Name: Vistra Corp		UST RCRA OTHER		
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		Site Location		
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		STATE: IL		
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:				

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Requested Analysis Filtered (Y/N)						Residual Chlorine (Y/N)	Project No./ Lab I.D.				
						DATE	TIME	Unpreserved	H <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			
																									MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	
1	APW13		10-10-23	1444	2	1																				23091794-017	
2	APW14 *			1421	2	1																					228
3	APW15			1316	2	1																					219
4	APW16			1239	2	1																					222
5	APW17			1126	2	1																					221
6	APW18			1045	2	1																					222
7	G06D				2	1																					223
8	G104				5	2	1																				224
9	G104D				0																						225
10	G104S				0																						226
11	G105				5	2	1																				227
12	G106				5	2	1																				228
13	G109				0																						229
14	G111				0																						230
15	G112				0																						231
16	G113				0																						232

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS						
NEW-23Q4 Rev 0	Juan Carlos	10/11/23	1325	Terry Hanratty	10/11/23	1325							
	Terry Hanratty	10/11/23	1500		10/11/23	1500							

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: Terry Hanratty	SIGNATURE of SAMPLER: Terry Hanratty				
DATE Signed (MM/DD/YY): 10/10/23					

NEW-257-502  
20091794

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

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

Page: **6** of **7**

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <b>Vistra Corp-Newton</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Terry Hanratty</b>	
Address: <b>6725 N 500th St</b> <b>Newton, IL 62448</b>		Copy To: <b>Terry Hanratty - Terry.Hanratty@vistracorp.com</b> <b>Sam Davies - samantha.davies@vistracorp.com</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				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							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	Analysis Test	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503			NEW-845-501	NEW-NPDES-501		
																										DATE	TIME
1	M26-7						0																				23091794-081
2	MW31S						0																				082
3	MW33S						0																				083
4	MW36S						0																				084
5	MW36S						0																				085
6	MW48S						0																				086
7	R216						0																				087
8	R217D						5	2	1	1	1																088
9	R219						5	2	1	1	1																089
10	S101						7	2	2	2	1																090
11	S102						7	2	2	2	1																091
12	SG02						0																				092
13	T101						7	2	2	2	1																093
14	T102						7	2	2	2	1																094
15	XPW01 *					10-10-23	1018	2	1	1																	095
16	XPW02					10-10-23	0926	2	1	1																	096

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<b>NEW-23Q4 Rev 0</b>	<i>[Signature]</i>	10/11/23	1325	<i>[Signature]</i>	10/11/23	1325	
	<i>[Signature]</i>	10/11/23	1500	<i>[Signature]</i>	10/12/23	1500	

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Tracy Carroll</i>	SIGNATURE of SAMPLER: <i>[Signature]</i>				
DATE Signed (MM/DD/YY): <i>10/10/23</i>					

NEW-257-502  
2504774

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

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

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <u>Vistra Corp-Newton</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Terry Hanratty</u>	
Address: <u>6725 N 500th St</u> <u>Newton, IL 62448</u>		Copy To: <u>Terry Hanratty - Terry.Hanratty@vistracorp.com</u> <u>Sam Davies - samantha.davies@vistracorp.com</u>		Company Name: <u>Vistra Corp</u>	
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.:		Address: <u>see Section A</u>	
Phone: <u>(217) 753-8911</u> Fax:		Project Name:		Quote Reference:	
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>2285</u>		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	Preservatives							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	Analysis Test ↓	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503			NEW-845-501	NEW-NPDES-501
1	XPW03		10/10/23	1223	2	1																23091794-097	
2	XPW04		10/10/23	1320	2	1																098	
3	XSG01				0																	099	
4	Field Blank				0	2	3	2														100	
5	A213 Duplicate				5	2	1	1														101	
6	APW02 Duplicate	*	10-10-23	1156	4	2	2															102	
7	G06D Duplicate				2	1	1															103	
8	G104 Duplicate				5	2	1	1														104	
9																							
10																							
11																							
12																							
13																							
14																							
15																							
16																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<b>NEW-23Q4 Rev 0</b>	<i>[Signature]</i>	10/11/23	1325	<i>[Signature]</i>	10/11/23	1325	
	<i>[Signature]</i>	10/11/23	1500	<i>[Signature]</i>	10/11/23	1500	

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>Troy Cowd</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	10/10/22		

23091794

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

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

Page: 1 of 7

<b>Section A</b> Required Client Information: Company: <b>Vistra Corp-Newton</b> Address: <b>6725 N 500th St</b> Newton, IL 62448 Email To: <b>Brian.Voelker@VistraCorp.com</b> Phone: (217) 753-8911 Fax: _____ Requested Due Date/TAT: <b>10 day</b>		<b>Section B</b> Required Project Information: Report To: <b>Brian Voelker</b> Copy To: <b>Terry Hanratty - Terry.Hanratty@vistracorp.com</b> Sam Davies - samantha.davies@vistracorp.com Purchase Order No.: _____ Project Name: _____ Project Number: <b>2285</b>		<b>Section C</b> Invoice information: Attention: <b>Terry Hanratty</b> Company Name: <b>Vistra Corp</b> Address: <b>see Section A</b> Quote Reference: _____ Project Manager: _____ Profile #: _____		<b>REGULATORY AGENCY</b> NPDES    GROUND WATER    DRINKING WATER UST       RCRA                    OTHER Site Location: _____ STATE: <b>IL</b>		
---	--	--	--	---	--	--	--	--

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
1	A207						0											23091794-201								
2	A213				10-11-23	1708	5	2	1	X								202								
3	A214						5	2	1	X	1							203								
4	A215						5	2	1	X	1							204								
5	APW02						4	2	2		TE SW							205								
6	APW03						4	2	2		1/2 1/3							206								
7	APW04						4	2	2									207								
8	APW05						2	1	1									208								
9	APW05S						2	1	1									209								
10	APW06						2	1	1									010								
11	APW07						2	1	1									011								
12	APW08						2	1	1									012								
13	APW09						2	1	1									013								
14	APW10						2	1	1									014								
15	APW11						2	1	1									015								
16	APW12				10/11/23	931	2	1	1									016								

ADDITIONAL COMMENTS <b>NEW-23Q4 Rev 0</b>	RELINQUISHED BY / AFFILIATION <i>Mary Carroll</i>	DATE 10/12/23	TIME 1030	ACCEPTED BY / AFFILIATION <i>Troy Cannon</i>	DATE 10/12/23	TIME 1030	TEMP IN °C 22	RECEIVED ON ICE (Y/N) Y	CUSTODY SEALED COOLER (Y/N) N	SAMPLES INFECT (Y/N) Y
--	--	------------------	--------------	---	------------------	--------------	------------------	----------------------------	----------------------------------	---------------------------

SAMPLER NAME AND SIGNATURE <i>Troy Cannon</i>		Temp in °C 22	Received on Ice (Y/N) Y	Custody Sealed Cooler (Y/N) N	Samples Infected (Y/N) Y
PRINT Name of SAMPLER: <i>Troy Cannon</i>	SIGNATURE of SAMPLER: <i>Mary Carroll</i>				

Added HNO<sub>3</sub> (93387) to APW12, G060, G125, G128, G202, G230, LR, & G060 DW. Added H<sub>2</sub>SO<sub>4</sub> (90128) to LR & R219 pH v 79929/9079 SW

LTU1

NEW-257-502  
13091194

**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-Newton</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Terry Hanratty</b>		NPDES    GROUND WATER    DRINKING WATER		
Address: <b>6725 N 500th St</b>		Copy To: <b>Terry Hanratty - Terry.Hanratty@vistracorp.com</b>		Company Name: <b>Vistra Corp</b>		UST    RCRA    OTHER		
Newton, IL 62448		Sam Davies - samantha.davies@vistracorp.com		Address: <b>see Section A</b>		Site Location		
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Quote Reference:		STATE: <b>IL</b>		
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Project Manager:		Requested Due Date/TAT: <b>10 day</b>		
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:				

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see vailid 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
1		APW13						2	1												23091194-017
2		APW14						2	1												08
3		APW15						2	1												019
4		APW16						2	1												020
5		APW17						2	1												021
6		APW18						2	1												022
7		G06D			10-11-23	1342		2	1												023
8		G104			10-11-23	1540		5	2	1	1	1									024
9		G104D						0													025
10		G104S						0													026
11		G105						5	2	1	1	1									027
12		G106			10-11-23	1415		5	2	1	1	1									028
13		G109						0													029
14		G111						0													030
15		G112						0													031
16		G113						0													032

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
<b>NEW-23Q4 Rev 0</b>	<i>Tracy Carroll</i>	10/12/23	1030	<i>Tracy Carroll</i>	10/12	10/30			
	<i>Tracy Carroll</i>	10/12/23	1230	<i>Tracy Carroll</i>	10/12/23	1230			

<b>SAMPLER NAME AND SIGNATURE</b>			
PRINT Name of SAMPLER:	<i>Tracy Carroll</i>		
SIGNATURE of SAMPLER:	<i>Tracy Carroll</i>		
DATE Signed (MM/DD/YYYY):	10/11/23		



NEW-257-502  
23091794

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

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

Page: 3 of 7

<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-Newton</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Terry Hanratty</b>		NPDES <b>GROUND WATER</b> DRINKING WATER	
Address: <b>6725 N 500th St</b>		Copy To: <b>Terry Hanratty - Terry.Hanratty@vistracorp.com</b>		Company Name: <b>Vistra Corp</b>		UST RCRA OTHER	
<b>Newton, IL 62448</b>		<b>Sam Davies - samantha.davies@vistracorp.com</b>		Address: <b>see Section A</b>		Site Location	
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Quote Reference:		STATE: <b>IL</b>	
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Project Manager:		Residual Chlorine (Y/N)	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:		Project No./ Lab I.D.	

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		G114					0																			23091794-033
2		G115					0																			034
3		G116					5	2	1	1																035
4		G117					0																			036
5		G118					0																			037
6		G119					0																			038
7		G120					0																			039
8		G125			10-11-23	10-18	5	2	1	1																040
9		G128			10-11-23	1445	5	2	1	1																041
10		G130					5	2	1	1																042
11		G133					5	2	1	1																043
12		G136					5	2	1	1																044
13		G139					5	2	1	1																045
14		G141					5	2	1	1																046
15		G202			10/11/23	1340	2	1	1																	047
16		G208					0																			048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<b>NEW-23Q4 Rev 0</b>	<i>Jessica Carroll</i>	10/12	1030	<i>[Signature]</i>	10/12	1030	
	<i>[Signature]</i>	10/12	1230	<i>Smice Delo</i>	10/12/23	1250	

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Suited Gear (%)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Jessica Carroll</i>				
SIGNATURE OF SAMPLER:	<i>Jessica Carroll</i>	DATE Signed (MM/DD/YY):	10/11/23		



NEW-23Q4  
23091794

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

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:			
Company: Vistra Corp-Newton		Report To: Brian Voelker		Attention: Terry Hanratty			
Address: 6725 N 500th St Newton, IL 62448		Copy To: Terry Hanratty - Terry.Hanratty@vistracorp.com Sam Davies - samantha.davies@vistracorp.com		Company Name: Vistra Corp		<b>REGULATORY AGENCY</b> NPDES    GROUND WATER    DRINKING WATER UST    RCRA    OTHER	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A			
Phone: (217)753-8911    Fax:		Project Name:		Quote Reference:		Site Location	
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:		STATE: IL	
				Profile #:			

ITEM #	Section D Required Client Information  SAMPLE ID (A-Z, 0-9 / .) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	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		
		DRINKING WATER DW																								
1	M26-7								0																23091794-081	
2	MW31S								0																082	
3	MW33S								0																083	
4	MW35S								0																084	
5	MW36S								0																085	
6	MW48S								0																086	
7	R216								0																087	
8	R217D					10/11/23	7357		5	2	1	1	1												088	
9	R219					10-11-23	1509		5	2	1	1	1												089	
10	S101								7	2	2	2	1												090	
11	S102								7	2	2	2	1												091	
12	SG02								0																092	
13	T101								7	2	2	2	1												093	
14	T102								7	2	2	2	1												094	
15	XPW01								2	1	1	1													095	
16	XPW02								2	1	1	1													096	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q4 Rev 0	<i>Tracy Carrel</i>	10/12	1030	<i>[Signature]</i>	10/12	1030	
	<i>[Signature]</i>	10/12	1230	<i>Tracy Carrel</i>	10/12	1230	

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: Tracy Carrel					
SIGNATURE of SAMPLER: <i>Tracy Carrel</i>	DATE Signed (MM/DD/YY): 10/11/23				

NEW-257-502  
23091794

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

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

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<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-Newton</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Terry Hanratty</b>		NPDES    GROUND WATER    DRINKING WATER	
Address: <b>6725 N 500th St</b>		Copy To: <b>Terry Hanratty - Terry.Hanratty@vistracorp.com</b>		Company Name: <b>Vistra Corp</b>		UST    RCRA    OTHER	
<b>Newton, IL 62448</b>		<b>Sam Davies - samantha.davies@vistracorp.com</b>		Address: <b>see Section A</b>		Site Location: <b>IL</b>	
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Quote Reference:		STATE: <b>IL</b>	
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Project Manager:			
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:			

ITEM #	Section D Required Client Information	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				
1		XPW03					2	1	1									23091794-097	
2		XPW04					2	1	1									098	
3		XSG01					0											099	
4		Field Blank					2	2	3	2	1							100	
5		A213 Duplicate			10-11-23	1208	5	2	1	1	1							101	
6		APW02 Duplicate					4	2	2									102	
7		G06D Duplicate			10-11-23	1342	2	1	1									103	
8		G104 Duplicate			10/11/23	1540	5	2	1	1	1							104	
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<b>NEW-23Q4 Rev 0</b>	<i>Jenny Carroll</i>	10/12	1030	<i>[Signature]</i>	10/12	1030	
	<i>[Signature]</i>	10/12	1230	<i>Iman Cicale</i>	10/12	1230	

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Jenny Carroll</i>	DATE Signed (MM/DD/YY): <i>10/11/23</i>				
SIGNATURE of SAMPLER: <i>Jenny Carroll</i>					

G104 Duplicate collection date/time per G104 markings: EAH 10/19/23

23091794

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

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

Page: 1 of 7

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:	
Company: Vistra Corp-Newton	Report To: Brian Voelker	Attention: Terry Hanratty	
Address: 6725 N 500th St Newton, IL 62448	Copy To: Terry Hanratty - Terry.Hanratty@vistracorp.com Sam Davies - samantha.davies@vistracorp.com	Company Name: Vistra Corp Address: see Section A	<b>REGULATORY AGENCY</b> NPDES GROUND WATER DRINKING WATER UST RCRA OTHER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:	<b>Site Location</b> IL
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:	<b>STATE:</b> IL
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:	

ITEM #	Section D Required Client Information  SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (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.
		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			
		DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID OIL WPE AIR OTHER TISSUE	DW WT WW P SL CL WP AR OT TS																								
1	A207							0																		23091794-001	
2	A213							5	2	1	X	1														002	
3	A214					10-12-23	1058	5	2	1	X	1														003	
4	A215					10-12-23	1020	5	2	1	X	1														004	
5	APW02							4	2	2		TE EAR														005	
6	APW03							4	2	2		11/1/15														006	
7	APW04							4	2	2																007	
8	APW05							2	1	1																008	
9	APW05S							2	1	1																009	
10	APW06							2	1	1																010	
11	APW07							2	1	1																011	
12	APW08							2	1	1																012	
13	APW09							2	1	1																013	
14	APW10							2	1	1																014	
15	APW11							2	1	1																015	
16	APW12							2	1	1																016	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NEW-23Q4 Rev 0	Tracy Carroll	10/12/23	1702	Tracy Carroll	10/12/23	1702	16#5	Y	N	Y
							15:0			

\* Filter In Lab. TE  
Address HNO<sub>3</sub> (93387)  
H<sub>2</sub>SO<sub>4</sub> (9018) to S101.  
PHV 79929/90719 Gm 10/13/23

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: Tracy Carroll	
SIGNATURE of SAMPLER: Tracy Carroll	DATE Signed (MM/DD/YY): 10/12/23

NEW-257-502  
23091794

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

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

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<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: <u>Vistra Corp-Newton</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Terry Hanratty</u>		NPDES    GROUND WATER    DRINKING WATER		
Address: <u>6725 N 500th St</u>		Copy To: <u>Terry Hanratty - Terry.Hanratty@vistracorp.com</u>		Company Name: <u>Vistra Corp</u>		UST    RCRA    OTHER		
<u>Newton, IL 62448</u>		<u>Sam Davies - samantha.davies@vistracorp.com</u>		Address: <u>see Section A</u>		Site Location		
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.:		Quote Reference:		STATE: <u>IL</u>		
Phone: <u>(217) 753-8911</u> Fax:		Project Name:		Project Manager:				
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>2285</u>		Profile #:				

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX    CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Requested Analysis Filtered (Y/N)						Residual Chlorine (Y/N)	Project No. / Lab I.D.		
					DATE	TIME			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	
1	APW13						2	1																		23091794-017
2	APW14						2	1																		028
3	APW15						2	1																		019
4	APW16						2	1																		020
5	APW17						2	1																		021
6	APW18						2	1																		022
7	G06D						2	1																		023
8	G104						5	2	1																	024
9	G104D						0																			025
10	G104S						0																			026
11	G105						5	2	1																	027
12	G106						5	2	1																	028
13	G109						0																			029
14	G111						0																			030
15	G112						0																			031
16	G113						0																			032

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q4 Rev 0	<i>Jerry Bazzell</i>	10/12/23	1702	<i>Tracy Hand</i>	10/12/23	1702	

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>Tracy Hand</i>		DATE Signed (MM/DD/YY): <i>10/12/23</i>					
SIGNATURE of SAMPLER: <i>Jerry Bazzell</i>							



NEW-257-502  
23091794

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

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

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<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-Newton</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Terry Hanratty</b>		NPDES    GROUND WATER    DRINKING WATER	
Address: <b>6725 N 500th St</b>		Copy To: <b>Terry Hanratty - Terry.Hanratty@vistracorp.com</b>		Company Name: <b>Vistra Corp</b>		UST    RCRA    OTHER	
<b>Newton, IL 62448</b>		<b>Sam Davies - samantha.davies@vistracorp.com</b>		Address: <b>see Section A</b>		Site Location	
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Quote Reference:		STATE: <b>IL</b>	
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Project Manager:			
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:			

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				
								DW	WT	WW	P	SL	CL	WFE	WP				
1		G114					0											23091794-033	
2		G115					0											034	
3		G116		10/12/23	1434		5	2	1	1								035	
4		G117					0											036	
5		G118					0											037	
6		G119					0											038	
7		G120					0											039	
8		G125					5	2	1	1								040	
9		G128					5	2	1	1								041	
10		G130		10-12-23	1219		5	2	1	1								042	
11		G133		10-12-23	1141		5	2	1	1								043	
12		G136		10/12/23	1301		5	2	1	1								044	
13		G139		10/12/23	1222		5	2	1	1								045	
14		G141		10-12-23	0917		5	2	1	1								046	
15		G202					2	1	1									047	
16		G208					0											048	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<b>NEW-23Q4 Rev 0</b>	<i>[Signature]</i>	10/12/23	1702	<i>[Signature]</i>	10/12/23	1702	

<b>SAMPLER NAME AND SIGNATURE</b>			
PRINT Name of SAMPLER:	<i>Troy Carroll</i>		
SIGNATURE of SAMPLER:	<i>[Signature]</i>		
DATE Signed (MM/DD/YY):	10/12/23		



NEW-257-502  
23091794

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

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

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <b>Vistra Corp-Newton</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Terry Hanratty</b>	
Address: <b>6725 N 500th St</b>		Copy To: <b>Terry Hanratty - Terry.Hanratty@vistracorp.com</b>		Company Name: <b>Vistra Corp</b>	
<b>Newton, IL 62448</b>		Sam Davies - samantha.davies@vistracorp.com		Address: <b>see Section A</b>	
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Quote Reference:	
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Project Manager:	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:	
<b>REGULATORY AGENCY</b>					
NPDES		GROUND WATER		DRINKING WATER	
UST		RCRA		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											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	Analysis Test	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501				
																					Y	N		
1	M26-7				0																			23091794-081
2	MW31S				0																			082
3	MW33S				0																			083
4	MW35S				0																			084
5	MW36S				0																			085
6	MW48S				0																			086
7	R216				0																			087
8	R217D				5	2	1	1	1															088
9	R219				5	2	1	1	1															089
10	S101		10/12/23	1333	7	2	2	2	1															090
11	S102		10/12/23	1322	7	2	2	2	1															091
12	SG02				0																			092
13	T101 went DRY		10-12-23	DRY	7	2	2	2	1															093
14	T102 went DRY		10-12-23	DRY	7	2	2	2	1															094
15	XPW01				2	1	1	1																095
16	XPW02				2	1	1	1																096

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q4 Rev 0	<i>Tracy Carroll</i>	10/12/23	1702	<i>Tracy Carroll</i>	10/11/23	1702	

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>Tracy Carroll</i>		DATE Signed (MM/DD/YY): <i>10/12/23</i>					
SIGNATURE of SAMPLER: <i>Tracy Carroll</i>							

NEW-257-502  
25091794

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

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

Page: 7 of 7

<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: Vistra Corp-Newton		Report To: Brian Voelker		Attention: Terry Hanratty		NPDES GROUND WATER DRINKING WATER		
Address: 6725 N 500th St		Copy To: Terry Hanratty - Terry.Hanratty@vistracorp.com		Company Name: Vistra Corp		UST RCRA OTHER		
Newton, IL 62448		Sam Davies - samantha.davies@vistracorp.com		Address: see Section A		Site Location		
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		STATE: IL		
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		Residual Chlorine (Y/N)		
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:		Project No./ Lab I.D.		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	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				
1	XPW03				2	1	1											23091794-097	
2	XPW04				2	1	1											098	
3	XSG01				0													099	
4	Field Blank		10-12-23 1345		2	2	3	2	1									100	
5	A213 Duplicate				5	2	1	1	1									101	
6	APW02 Duplicate				4	2	2	2										102	
7	G06D Duplicate				2	1	1	1										103	
8	G104 Duplicate				5	2	1	1	1									104	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q4 Rev 0	Tracy Carradi	10/12/23	1702	Tracy Carradi	10/12/23	1701	

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:	Tracy Carradi					
SIGNATURE of SAMPLER:	Tracy Carradi		DATE Signed (MM/DD/YY):	10/12/23		

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
NEWTON POWER PLANT, LANDFILL 2  
NEW-257-502

Site Sampling Event	Newton 4Q 2023													
LIMS Workorder	2091794-023A													
Technician	BG, JC, TAC													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G06D	10/11/2023	13:21	1321	28.3		14	57.2	7.18	1276.7	1276.7	0.87	66.93	-95.6	
G06D	10/11/2023	13:24	1324	28.3		13.9	57.02	7.19	1274.7	1274.7	0.76	31.52	-95.7	
G06D	10/11/2023	13:27	1327	28.3		13.8	56.84	7.19	1277	1277	0.78	35.02	-96	
G06D	10/11/2023	13:30	1330	28.3		13.7	56.66	7.19	1275.5	1275.5	0.93	65.55	-96.5	
G06D	10/11/2023	13:33	1333	28.3		13.7	56.66	7.19	1276.9	1276.9	0.89	20.78	-96.7	
G06D	10/11/2023	13:36	1336	28.3		13.6	56.48	7.19	1276.1	1276.1	1	81.07	-97	
G06D	10/11/2023	13:39	1339	28.3		13.5	56.3	7.19	1240.5	1240.5	0.72	34.04	-97.6	
G06D	10/11/2023	13:42	1342	28.3		13.5	56.3	7.19	1277.1	1277.1	0.84	22.43	-97.8	

APPENDIX A.  
 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 NEWTON POWER PLANT, LANDFILL 2  
 NEW-257-502

Site Sampling Event	Newton 4Q 2023														
LIMS Workorder	2091794-047A														
Technician	BG, JC, TAC														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)	
G202	10/11/2023	13:34	1334	48.29		15.7	60.26	7.31	1309.2	1309.2	0.65	15.48	-143.4		
G202	10/11/2023	13:37	1337	48.29		15.8	60.44	7.28	1288	1288	0.64	16.75	-150.1		
G202	10/11/2023	13:40	1340	48.29		15.8	60.44	7.27	1274.1	1274.1	0.63	22.61	-153.7		



APPENDIX A.  
 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 NEWTON POWER PLANT, LANDFILL 2  
 NEW-257-502

Site Sampling Event	Newton 4Q 2023														
LIMS Workorder	2091794-057A														
Technician	BG, JC, TAC														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)	
G230	10/11/2023	14:35	1435	48.33		17	62.6	7.16	1751.8	1751.8	0.55	784.3	-157.9		
G230	10/11/2023	14:38	1438	48.33		16.9	62.42	7.16	1715.8	1715.8	0.54	725.66	-159.7		
G230	10/11/2023	14:41	1441	48.33		16.9	62.42	7.15	1679.8	1679.8	0.53	695.39	-161.1		
G230	10/11/2023	14:44	1444	48.33		16.9	62.42	7.16	1641.7	1641.7	0.53	628.58	-162.4		

## Field Calibration Log

Field Temp SOP 1156 - SM 2550 B  
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B  
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: 49551  
Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.00	10/10/23 8:39
7.0 Buffer	wc230616f	7.01	10/10/23 8:43
10.0 Buffer	wc230504c	10.00	10/10/23 8:47
LCS (7.0 Buffer)	wc230504b		

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1,409	10/10/23 8:52

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	10/10/23 8:55	18.5	7.01	1,412	
ccv	10/10/23 15:38	18.7	7.02	1,423	

Field Meter ID: 49551  
Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.00	10/11/23 8:28
7.0 Buffer	wc230616f	7.02	10/11/23 8:33
10.0 Buffer	wc230504c	9.99	10/11/23 8:38
LCS (7.0 Buffer)	wc230504b		

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1,415	10/11/23 8:43

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	10/11/23 8:45	18.9	7.02	1,418	
ccv	10/11/23 16:23	20.1	7.03	1,429	

Field Meter ID: 49551  
Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.01	10/12/23 8:17
7.0 Buffer	wc230616f	7.02	10/12/23 8:21
10.0 Buffer	wc230504c	9.98	10/12/23 8:25
LCS (7.0 Buffer)	wc230504b		

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1,405	10/12/23 8:29

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	10/12/23 8:32	18.2	7.02	1,410	
ccv	10/12/23 13:32	19.7	7.04	1,438	

## Field Calibration Log

Field Temp SOP 1156 - SM 2550 B  
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B  
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID:                     Pine 49331                      
Technician:                     Tracy Carroll                    

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230720G	4.00	10/10/23 8:52
7.0 Buffer	WC230616F	7.00	10/10/23 8:54
10.0 Buffer	WC230504C	10.00	10/10/23 8:59
LCS (7.0 Buffer)	WC230504B		

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1,413	10/10/23 9:01

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	10/10/23 9:05	11.5	7.01	1,413	
ccv	10/10/23 15:45	18.7	7.05	1,418	

Field Meter ID:                     Pine 49331                      
Technician:                     Tracy Carroll                    

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230720G	4.00	10/11/23 8:44
7.0 Buffer	WC230616F	7.00	10/11/23 8:50
10.0 Buffer	WC230504C	10.00	10/11/23 8:57
LCS (7.0 Buffer)	WC230504B		

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1,412	10/11/23 8:57

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	10/11/23 9:06	11.7	7.07	1,412	
ccv	10/11/23 16:13	21.4	7.03	1,446	

Field Meter ID:                     Pine 49331                      
Technician:                     Tracy Carroll                    

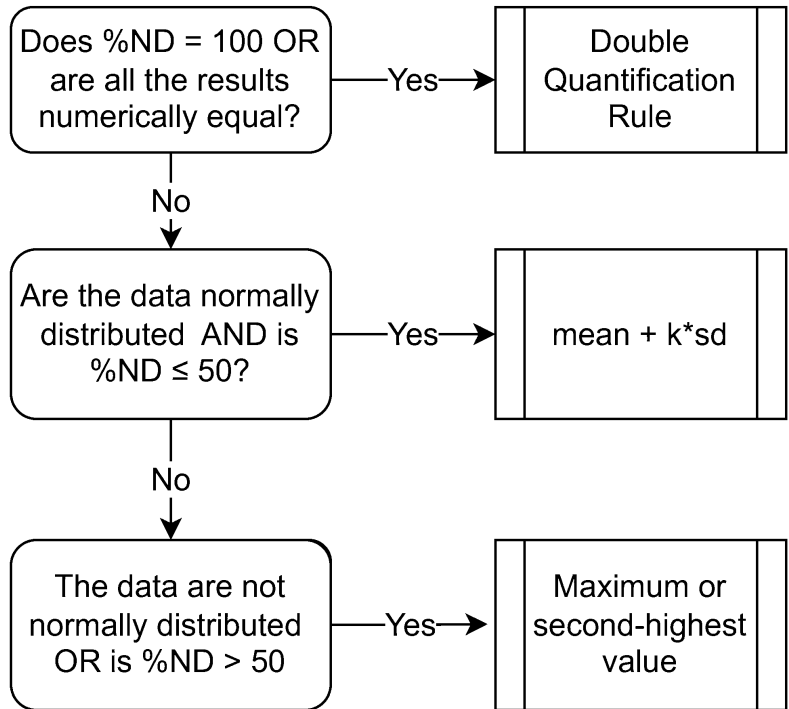
pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230720G	4.00	10/12/23 8:48
7.0 Buffer	WC230616F	7.04	10/12/23 8:50
10.0 Buffer	WC230504C	10.02	10/12/23 8:51
LCS (7.0 Buffer)	WC230504B		

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1,412	10/12/23 8:53

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	10/12/23 8:54	19.5	7.06	1,413	
ccv	10/12/23 14:40	24.2	7.02	1,453	

**APPENDIX B  
STATISTICAL METHODOLOGY FOR DETERMINATION  
OF BACKGROUND VALUES**

Notes
%ND = Percent non-detected samples
sd = standard deviation
k = kappa for site-wide false positive rate (SWFPR)
SWFPR = 0.1



When data are not normally distributed or %ND > 50, the maximum value is used if the background sample size is < 60. Where the background sample size is ≥ 60, the achievable per-constituent false positive rates for the maximum and second-highest background values will be compared, and the background value with the achievable per-constituent false positive rate that is closest to, but does not exceed, the target per-constituent false positive rate of 0.015% is used.

**APPENDIX C**  
**ALTERNATIVE SOURCE DEMONSTRATIONS**

Intended for  
**Illinois Power Generating Company**

Date **Te**  
**September 10, 2023**

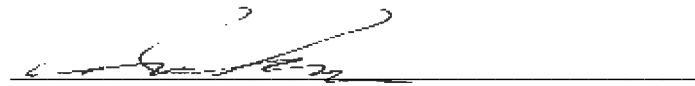
Project No.  
**1940103649-013**

**40 C.F.R. § 257.94(e)(2): ALTERNATE  
SOURCE DEMONSTRATION  
LANDFILL 2  
NEWTON POWER PLANT  
NEWTON, ILLINOIS**



## CERTIFICATIONS

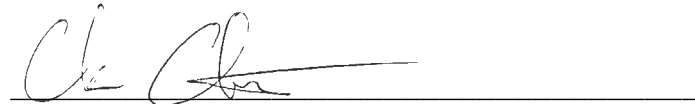
I, Anne Frances Ackerman, a qualified professional engineer in good standing in the State of Illinois, certify that the information in this report is accurate as of the date of my signature below. The content of this report is not to be used other than for its intended purpose and meaning, or for extrapolations beyond the interpretations contained herein.



Anne Frances Ackerman  
Qualified Professional Engineer  
062-060586  
Illinois  
Ramboll Americas Engineering Solutions, Inc.  
Date: September 10, 2023



I, Chase J. Christenson, a professional geologist in good standing in the State of Illinois, certify that the information in this report is accurate as of the date of my signature below. The content of this report is not to be used other than for its intended purpose and meaning, or for extrapolations beyond the interpretations contained herein.



Chase J. Christenson  
Professional Geologist  
196-001467  
Illinois  
Ramboll Americas Engineering Solutions, Inc.  
Date: September 10, 2023



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Figure 1      Sampling Locations and Potentiometric Surface Map – January 30, 2023

### APPENDICES

Appendix A      Potential Mechanism of Natural pH Variability

## ACRONYMS AND ABBREVIATIONS

40 C.F.R.	Title 40 of the Code of Federal Regulations
ASD	Alternate Source Demonstration
CCR	coal combustion residuals
cm/s	centimeters per second
D12	Detection Monitoring Round 12
LCU	lower confining unit
LF1	Landfill 1
LF2	Landfill 2
LOE(s)	line(s) of evidence
mg/L	milligrams per liter
NAVD88	North American Vertical Datum of 1988
NPP	Newton Power Plant
NRT/OBG	Natural Resource Technology, an OBG Company
ORP	oxidation reduction potential
PMP	potential migration pathway
PCA	principal component analysis
pe	redox potential
Ramboll	Ramboll Americas Engineering Solutions, Inc.
SSI	Statistically Significant Increase
SU	Standard Units
UA	uppermost aquifer
UCU	upper confining unit
UD	upper drift
UPL	upper prediction limit

## 1. INTRODUCTION

Title 40 of the Code of Federal Regulations (40 C.F.R.) § 257.94(e)(2) allows the owner or operator of a coal combustion residuals (CCR) unit 90 days from the date of determination of a Statistically Significant Increase (SSI) over background for groundwater constituents listed in Appendix III of 40 C.F.R. § 257 to complete a written demonstration that a source other than the CCR unit being monitored caused the SSI(s), or that the SSI(s) resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality (Alternate Source Demonstration [ASD]).

This ASD has been prepared on behalf of Illinois Power Generating Company, by Ramboll Americas Engineering Solutions, Inc. (Ramboll), to provide pertinent information pursuant to 40 C.F.R. § 257.94(e)(2) for the Newton Power Plant (NPP) Landfill 2 (LF2), located near Newton, Illinois.

The most recent Detection Monitoring sampling event (Detection Monitoring Round 12 [D12]) samples were collected from January 31 to February 2, 2023, and analytical data were received on March 14, 2023. In accordance with 40 C.F.R. § 257.94(e)(2), statistical analysis of the data to identify SSIs of 40 C.F.R. § 257 Subpart D Appendix III parameters over background concentrations was completed by June 12, 2023, within 90 days of receipt of the analytical data. The statistical determination identified the following SSI at compliance monitoring wells:

- pH at well G231

In accordance with the Multi-Site Statistical Analysis Plan (Ramboll, 2022), well G231 was resampled on April 26, 2023, and analyzed only for pH to confirm the SSI. Following evaluation of analytical data from the resample event, the following SSI remained:

- pH at well G231

Pursuant to 40 C.F.R. § 257.94(e)(2), the lines of evidence (LOEs) presented in **Section 3** demonstrate that sources other than LF2 were the cause of the pH SSI listed above. This ASD was completed by September 10, 2023, within 90 days of determination of the SSI (June 12, 2023), as required by 40 C.F.R. § 257.94(e)(2).

## 2. BACKGROUND

### 2.1 Site Location and Description

The NPP is located in Jasper County in the southeastern part of central Illinois, approximately seven miles southwest of the town of Newton. LF2 is located in the northwest quarter of Section 26 and the northeast quarter of Section 27, Township 6 North, Range 8 East in Jasper County, Illinois. The NPP is bounded by Newton Lake and agricultural land to the west, south, and east, and agricultural land to the north. Beyond the lake is additional agricultural land.

### 2.2 Description of Landfill 2 CCR Unit

LF2 includes three lined disposal cells (**Figure 1**). Cells 1 and 2, encompassing approximately 12 acres, are adjacent to each other and located south and east of Landfill 1 (LF1). Cell 3 encompasses approximately 7 acres and is located approximately 1,100 feet west of Cells 1 and 2. All three cells of LF2 are constructed with composite liners and leachate collection systems that exceed the landfill liner design criteria of 40 C.F.R. § 257.70. Cell 3 is inactive and has not received CCR since it was constructed in 2011.

### 2.3 Geology and Hydrogeology

The information used to describe the hydrogeology is based on the local geology obtained from published sources, hydrogeologic investigation data, and boring data collected during site investigations conducted from 1997 to 2021 (Natural Resource Technology, an OBG Company [NRT/OBG], 2017; Ramboll, 2021).

In addition to the CCR present in LF2, there are six layers of unlithified material present above the bedrock, which are categorized into the four hydrostratigraphic units below based on stratigraphic relationships and common hydrogeologic characteristics:

- 1) Upper Drift (UD): This unit is composed of the low permeability silts and clays of the Peoria Silt and Sangamon Soil and the sandier soils of the Hagarstown Member (*i.e.*, potential migration pathway [PMP]).
- 2) Upper Confining Unit (UCU): This unit consists of the low permeability clay and silt of the Vandalia Till Member.
- 3) Uppermost Aquifer (UA): This unit is composed of the of the Mulberry Grove Formation, which onsite has been classified as poorly graded sand, silty sand, clayey sand, and gravel.
- 4) Lower Confining Unit (LCU): This unit is comprised of low permeability silt and clay of the Smithboro Till Member and the Banner Formation.

Groundwater elevations (referenced to North American Vertical Datum of 1988 [NAVD88]) across LF2 ranged from approximately 527 to 491 feet during D12 (**Figure 1**). Depth to groundwater measurements used to generate the groundwater elevation contours shown on **Figure 1** were collected on January 30, 2023. Overall groundwater flow within the UA at the NPP is southward with flow converging along the major axis of LF2 Cells 1 and 2, and a predominantly eastward flow near LF2 Cell 3.

## 2.4 Groundwater and Landfill Monitoring

The UA monitoring system for LF2 Cells 1, 2, and 3 is shown on **Figure 1**.

A total of eight background wells and seven compliance wells are used to monitor groundwater quality at LF2 (Ramboll, 2023). Monitoring wells G48MG and G201 are used to monitor UA background groundwater quality for LF2 (all cells). Groundwater quality in the UA at LF2 Cells 1 and 2 is monitored using three background wells (R217D, G223, and G224) and six compliance wells (G202, G230, G231, G232, G233, and G203). Groundwater quality in the UA at LF2 Cell 3 is monitored using three background wells (G208, G220, and G222) and one compliance well (G06D). Leachate from LF2 is monitored using leachate sample location L301 (**Figure 1**).

### 3. ALTERNATE SOURCE DEMONSTRATION: LINES OF EVIDENCE

As allowed by 40 C.F.R. § 257.94(e)(2), this ASD demonstrates that sources other than LF2 caused the SSI(s), or that the SSI(s) was a result of natural variation in groundwater quality. This ASD is based on the following LOEs:

- 1) The pH value is consistent with natural variation in groundwater quality.
- 2) LF2 composite liner design.
- 3) The ionic composition of well G231 groundwater is indistinguishable from background.
- 4) Downgradient concentrations of boron do not exceed background limits.

These LOEs are described and supported in greater detail below.

#### 3.1 LOE #1: The pH Value is Consistent with Natural Variation in Groundwater Quality.

Over the last 6 rounds of sampling (*i.e.*, since February 2021), pH at G231 has remained between 7.8 and 8.1 standard units (SU) (**Table A**). This represents an elevation of 0.1 to 0.4 pH units<sup>1</sup> above background (7.7 SU). This variability in groundwater pH is within the range that can be driven by natural biogeochemical reactions in the groundwater. Some specific chemical reactions that naturally increase pH include dissolution of carbonate minerals, reduction of nitrate to ammonia, or reduction of ferrihydrite to ferrous iron. These and other reactions may occur simultaneously in the groundwater.

**Table A. pH Results at G231**

Date <sup>1</sup>	pH (SU)
05/25/2021	8.9
08/05/2021	8.7
11/10/2021	7.9
02/23/2022	7.9
05/25/2022	7.9
08/17/2022	7.8
11/01/2022	8.1
02/01/2023	7.8
04/26/2023	7.8

<sup>1</sup> The range of pH results in the above table reflects the installation date of G231, which was installed on April 14, 2021.

As detailed in **Appendix A**, multivariate statistical analysis and geochemical modeling were used to assess what reactions may be responsible for the pH variability observed at G231. Principal component analysis (PCA), a multivariate statistical approach, was used to evaluate which upgradient locations contribute most to the groundwater signature at the downgradient location

---

<sup>1</sup> The uncertainty in the stabilization measurement of the groundwater pH is itself  $\pm 0.2$  SU.



G231. A comparison of the geochemical differences for these locations was used to hypothesize what reactions may account for the differences in geochemical signature between the upgradient and downgradient groundwater quality. The PCA of the groundwater data upgradient and downgradient of LF2 showed that the groundwater signature at G231 is driven by low alkalinity and high pH relative to other locations. The upgradient locations with groundwater signatures most similar to G231 were A214 and G224. An evaluation of the specific differences in upgradient and G231 groundwater chemistry showed that, in addition to higher pH, groundwater at G231 had lower alkalinity and oxidation reduction potential (ORP) field readings, and lower concentrations of magnesium and calcium. Based on these observations and the presence of iron in the groundwater, it was postulated that organic matter oxidation coupled to iron oxide reductive dissolution combined with carbonate mineral precipitation could account for these differences in groundwater signature.

Geochemical modeling was then used to confirm that the posited reactions are possible under the observed groundwater conditions and that the outcome is consistent with the observed differences between the upgradient and downgradient locations. Details of the equilibrium geochemical model are included in **Appendix A**. The results of the geochemical modeling showed decreases in bicarbonate alkalinity and redox potential (pe) and increases in pH with increasing organic carbon oxidation for both upgradient wells A214 and G224, which is the same pattern that was observed between upgradient groundwater and G231. The ability of natural geochemical reactions within the groundwater to cause the same degree of variability observed in the environment suggests that the pH SSI at G231 could be due to natural variation in groundwater quality.

### **3.2 LOE #2: LF2 Composite Liner Design**

The constructed liner and leachate collection system for LF2 Cells 1, 2, and 3 include the following design components from top to bottom:

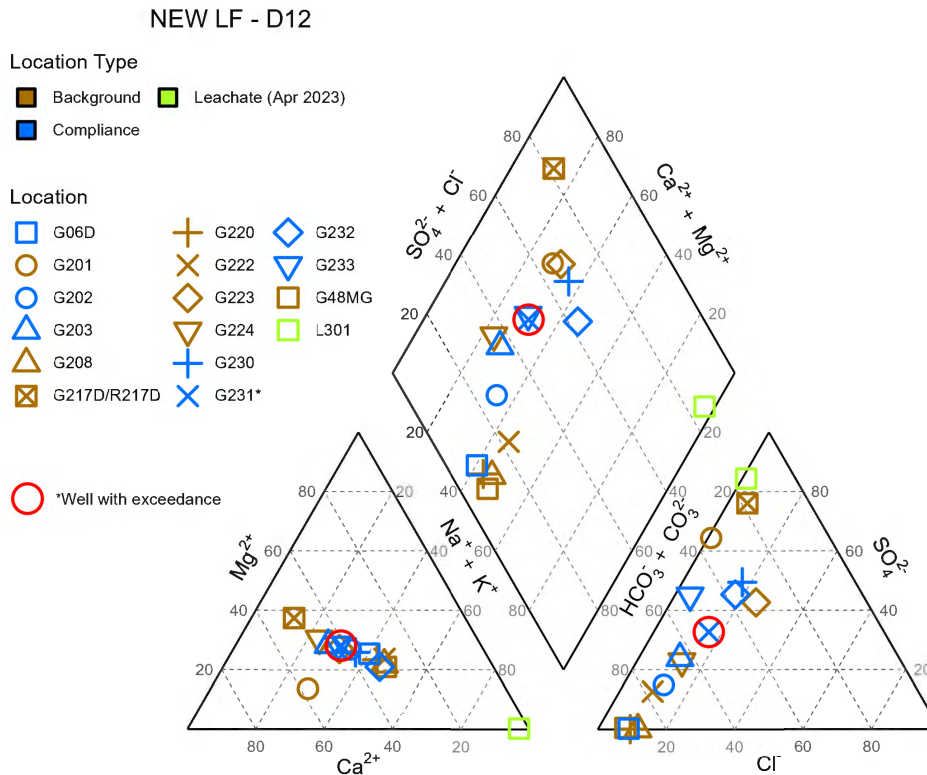
- Soil cover for liner frost protection
- 10-ounce per square yard geotextile separation layer between the leachate management system and the frost protection soil cover
- 1-foot-thick sand drainage layer
- 60-mil high-density polyethylene geomembrane
- Three-foot-thick compacted, low-permeability soil having a maximum hydraulic conductivity of  $1.0 \times 10^{-7}$  centimeters per second (cm/s)

These components exceed the landfill liner design criteria of 40 C.F.R. § 257. The landfill design criteria were intended to provide protection to the UA. Therefore, the presence of the composite liner suggests that LF2 is not contributing CCR constituents to the groundwater in the vicinity of LF2.

### **3.3 LOE #3: The Ionic Composition of Well G231 Groundwater Is Indistinguishable from Background**

Piper diagrams graphically represent ionic composition of aqueous solutions. A Piper diagram displays the position of water samples relative to their major cation and anion content on the two lower triangular portions of the diagram, providing the information which, when combined on the central, diamond-shaped portion of the diagram, identifies the compositional categories or groupings (hydrochemical facies). **Figure A** below is a Piper diagram that displays the ionic

composition of samples collected from the background and compliance monitoring wells associated with LF2 (D12 sampling event), and leachate sampling location L301 (associated with LF2).



**Figure A. Piper Diagram Showing Ionic Composition of LF2 Background and Compliance Groundwater and Leachate During the D12 Sampling Event.**

It is evident from the Piper diagram (**Figure A**) that leachate from LF2 (L301; green symbols) are in the sodium-chloride hydrochemical facies, while the LF2 compliance groundwater samples (blue and cyan symbols) and background samples (brown symbols) are in the calcium-bicarbonate and calcium-sulfate hydrochemical facies. Therefore, groundwater samples from compliance well G231 have similar ionic compositions to background, indicating that LF2 is not the source of the SSI identified in G231.

### **3.4 LOE #4: Downgradient Concentrations of Boron Do Not Exceed Background Limits**

Boron is an indicator of CCR impacts due to its leachability from CCR and mobility in groundwater. If the groundwater in LF2 compliance wells had been impacted by CCR from the unit, boron concentrations would be expected to be elevated above the background upper prediction limit (UPL). The UPL is an upper bound on background concentrations calculated for the purpose of comparing compliance measurements to background. Compliance monitoring well G231 shows concentrations of boron below the UPL (0.317 milligrams per liter [mg/L]), indicating that this well has not been affected by CCR impacts from LF2.

## 4. CONCLUSIONS

Based on the four LOEs below, it has been demonstrated that the SSI at G231 is not due to LF2 but are from a source other than the CCR unit being monitored:

- 1) The pH value is consistent with natural variation in groundwater quality.
- 2) LF2 composite liner design.
- 3) The ionic composition of well G231 groundwater is indistinguishable from background.
- 4) Downgradient concentrations of boron do not exceed background limits.

This information serves as the written ASD prepared in accordance with 40 C.F.R. § 257.94(e)(2) that the SSI observed during D12 was not due to LF2. Therefore, an assessment monitoring program is not required, and the NPP LF2 will remain in detection monitoring.

## 5. REFERENCES

Code of Federal Regulations, Title 40, Chapter I, Subchapter I, Part 257, Subpart D, Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, effective April 17, 2015. Accessed from URL <https://www.ecfr.gov/current/title-40/chapter-I/subchapter-I/part-257/subpart-D#page-top>.

Natural Resource Technology, an OBG Company (NRT/OBG), 2017. Hydrogeologic Monitoring Plan, Newton Primary Ash Pond – CCR Unit ID 501, Newton Landfill 2 – CCR Unit ID 502, Newton Power Station, Canton, Illinois, Illinois Power Generating Company. October 17, 2017.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Hydrogeologic Site Characterization Report*. Newton Power Plant, Primary Ash Pond, Newton, Illinois. Illinois Power Generating Company. October 25, 2021.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022. *Multi-Site Statistical Analysis Plan*, Vistra Corp. December 28, 2022.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2023. 40 C.F.R. § 257 Groundwater Monitoring Plan, Newton Power Plant, Newton Landfill 2 Newton, Illinois, Illinois Power Generating Company. March 27, 2023.

## FIGURES





- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- LEACHATE WELL
- PORE WATER WELL
- STAFF GAGE, CCR UNIT
- STAFF GAGE, LAKE
- GROUNDWATER ELEVATION CONTOUR (5-FT CONTOUR INTERVAL, NAVD88)
- - - INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE

**NOTES:**  
 1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.  
 2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)



**SAMPLING LOCATIONS AND POTENTIOMETRIC SURFACE MAP  
 JANUARY 30, 2023**

**ALTERNATE SOURCE DEMONSTRATION  
 LANDFILL PHASE 2  
 NEWTON POWER PLANT  
 NEWTON, ILLINOIS**

**FIGURE 1**





**APPENDIX A**  
**POTENTIAL MECHANISM OF pH NATURAL VARIABILITY**



# TECHNICAL MEMORANDUM

**Project no.** 1940103649-013  
**Client** Illinois Power Generating Company  
**Prepared by** Allison O'Connor, Ph.D.

**Potential Mechanism of Natural pH Variability  
*Newton Power Plant, Landfill 2***

**1 INTRODUCTION**

September 10, 2023

This document serves as Appendix A for the September 10, 2023, Alternate Source Demonstration (ASD) for Newton Power Plant (NPP) Landfill 2 (LF2) for Detection Monitoring Round 12 (D12), completed to fulfil the requirements of Title 40 of the Code of Federal Regulations (40 C.F.R.) § 257.94(e)(2). Multivariate statistical analysis and geochemical modeling are used to demonstrate one possible mechanism by which the statistically significant increase (SSI) in pH observed at compliance monitoring well G231 may be due to natural variation in groundwater quality. Principal component analysis (PCA), a multivariate statistical approach, is used to evaluate which upgradient locations contribute most to the groundwater signature at the downgradient location G231. A comparison of the geochemistry between these locations is used to postulate what reactions may account for the differences in geochemical signature between the upgradient and downgradient concentrations. Geochemical modeling is then used to confirm that the posited reactions are possible under the observed groundwater conditions, and that the outcome is consistent with the observed differences between the upgradient and downgradient locations. The ability to demonstrate that natural geochemical reactions within the groundwater can drive the observed pH exceedance supports the conclusion that the pH SSI at location G231 is due to natural variability.

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**2 METHODS**

**2.1 Principal Component Analysis**

Groundwater data is frequently defined by many chemical parameters and may therefore be described statistically as "multivariate". PCA is a common multivariate statistical approach that simplifies multivariate data by combining those variables into a smaller number of new variables called principal components. This is possible because in multivariate data sets, there is often some correlation between variables. These correlations represent "redundant" information that may be mathematically removed by PCA. The principal components represent linear combinations of the original data which maximize the variance between the samples, and which are uncorrelated with one another. PCA thereby allows patterns in the data to be more easily recognized and correlations between input variables to be assessed.

The dataset for PCA included only wells immediately upgradient and downgradient of the unit. The data set was not limited to wells included in the uppermost aquifer (UA) 40 C.F.R. § 257 monitoring system for LF2, and well G223 was excluded due to being screened over 10 feet deeper than any downgradient well. Geochemical parameters included in the PCA were required to have been measured in the dissolved fraction, to have at least five measurements per well, and to have an overall proportion of detected measurements exceeding 50 percent (%). Individual samples missing data for more than half of the parameters (rounded to 5) were excluded from the analysis. Any measurements that were below the reporting limit were assumed to be half the reporting limit. Results for pH were converted to milligrams per liter (mg/L) H<sup>+</sup> ion for consistency with other analytes, and all measurements were log-transformed. Any missing values were imputed (*i.e.*, interpolated based on the available data) using the nearest neighbor method. The final data set contained 1,221 parameter measurements (31 of which were imputed) from 111 individual groundwater samples at 12 wells in the vicinity of LF2. All data were scaled and centered so that parameters with larger concentrations did not have disproportionate influence on the results.

Results of the PCA analysis are presented in a biplot (**Figure A-1**). In a PCA biplot, the axes represent the new “variables,” or principal components (PCs). The length of the arrows represents how strongly each individual variable contributes to the PCs, and the direction of the arrow along the respective axis represents the direction of the contribution (positive or negative). Each data point represents a sample plotted according to the PCs.

## 2.2 Groundwater and Solid Phase Characterization

As discussed in the NPP LF2 D12 ASD, redox reactions and mineral precipitation/dissolution often affect groundwater pH. Primary indicators of the redox state of groundwater include nitrate, nitrite, ammonia, manganese, iron, sulfate, and sulfide. As microbes oxidize organic matter, they use electron acceptors in a thermodynamically favorable order: first oxygen is used, followed by nitrate (reduced to nitrite and then ammonia) and manganese oxides (reduced to Mn<sup>2+</sup>), iron oxides (reduced to Fe<sup>2+</sup>), and sulfate (reduced to sulfide) as each previous electron acceptor is depleted. The predominant redox condition present in a groundwater environment is determined by evaluating the relative concentrations of these electron acceptors and donors in the aqueous phase and the presence of metal oxide solids phases. Identifying the predominant redox reactions in groundwater is integral to explaining the geochemistry of the groundwater and understanding what reactions may influence pH.

Nitrate, ammonia, aqueous iron, and sulfate groundwater concentrations are available for wells of interest (summarized in **Table A-1**) and were used in the evaluation. Limited aqueous iron data, including one total iron concentration at G224, and one dissolved iron concentration at G231 were also used in the evaluation. The closest solid phase data are available from one UA sample collected at APW18, located on the west side of the NPP PAP near G202 (NPP LF2 D12 ASD Figure 1). This material was analyzed using a sequential extraction procedure (SEP) which exposes solid materials to reagents of increasing reactivity in order to determine what elements are present in which functionally-defined mineral phases. The non-crystalline material phase and the metal hydroxide phase represent the metal oxide phases in the soil. Iron found in these phases represents iron data available for reaction in the groundwater. The SEP analysis found 2,500 milligrams per kilogram (mg/kg) of iron were associated with the poorly crystalline metal oxide phases (*e.g.*, ferrihydrite) and 3,800 mg/kg of iron were associated with the crystalline metal phases (*e.g.*, hematite, goethite) (**Table A-2**).

Carbonate minerals are common controls on alkalinity and pH in groundwater. X-ray diffraction analysis of the APW18 UA solid phase material showed the presence of the minerals calcite (CaCO<sub>3</sub>) and

dolomite ( $\text{CaMg}(\text{CO}_3)_2$ ) (**Table A-3**). Groundwater data for the constituents that comprise these minerals (calcium, magnesium, and bicarbonate) are available for the wells of interest and are summarized in **Table A-1**.

### 2.3 Geochemical Modeling

Geochemical modeling was used to understand how increasing organic matter oxidation may affect the groundwater composition as it moves downgradient. Geochemical models take chemical data and apply thermodynamic (and sometimes kinetic) equations to understand chemical reactions in the environment. A thermodynamic geochemical model in which all reactions are allowed to reach equilibrium conditions was used for this evaluation. This is an approximation of actual groundwater conditions, which are often not in thermodynamic equilibrium.

The first step of the modeling was to evaluate existing groundwater conditions using a speciation model of the groundwater compositions at the wells of interest. The inputs were determined by evaluating data availability for the wells of interest from February 2021 to April 2023<sup>1</sup> and selecting samples close in date range which had data for all the parameters to be included in the model: temperature, pH,  $pe^2$  (a unitless geochemical measure of oxidation reduction potential), dissolved bicarbonate, dissolved calcium, dissolved magnesium, and dissolved sulfate. Iron data were excluded due to the limited availability, but a sensitivity analysis showed that the ultimate conclusions do not strongly depend on initial iron concentration. The values used in the geochemical modeling are included in **Table A-4**. The primary outputs of interest from the speciation model are the mineral saturation indices (SI). A mineral SI is a value that indicates if a mineral is expected to dissolve into (undersaturated,  $SI < 0$ ), or precipitate from (supersaturated,  $SI > 0$ ), solution under equilibrium conditions. The further the SI for a given mineral is from 0, the more out of equilibrium the solution is with respect to the mineral.

To simulate the effect of organic matter oxidation on iron reduction on groundwater composition along the flow path, mineral precipitation, and pH, simulations were run in which upgradient groundwater was allowed to reach equilibrium in the presence of calcite, dolomite, and ferrihydrite (as inferred from the solid phase data discussed in **Section 2.2**). Siderite and gypsum were allowed to precipitate from solution. Calcite, dolomite, and siderite are carbonate minerals, and therefore affect alkalinity. Ferrihydrite is a reactive iron hydroxide mineral that may be used as an electron acceptor during organic matter oxidation. Gypsum ( $\text{CaSO}_4$ ) may be a control on calcium availability for precipitation in calcite or dolomite. Organic carbon was then added step-wise to the solution. At each carbon addition step, all of the organic carbon was consumed by oxidation to  $\text{CO}_2$  and the resulting solution reached a new equilibrium with the mineral phases. Organic carbon was approximated as the acetate ion, which is used by iron-reducing microbes in the environment (Appelo and Postma, 2005). Acetate concentrations were added up to an equivalent of 0.1 mg/L organic carbon. Although no organic carbon data are available for the wells in this analysis, groundwater from other UA wells around LF2 typically contain between 1 and 10 mg/L organic carbon. Therefore, the amount of organic carbon available for oxidation in this analysis represents only 1% to 10% of the estimated available organic carbon.

<sup>1</sup> Samples from January 31 – February 1, 2023 were excluded due to a miscalibrated groundwater quality meter.

<sup>2</sup> Oxidation reduction potential measurements made by water quality meters are specific to the meter and must be converted for geochemical use. To calculate  $pe$ , oxidation reduction potential measurements from water quality meters are first converted to Eh according to the manufacturer's instructions, and then to  $pe$  using a standard equation.

### 3 RESULTS AND DISCUSSION

#### 3.1 Groundwater Signature and Flow Path Evolution

The goal of the PCA analysis was to identify correlations between variables in the LF2 groundwater and to characterize how the groundwater signature at G231 relates to upgradient groundwater. **Figure A-1** shows the locations included in the analysis and the results of the PCA on a biplot. PC 1, plotted on the x-axis, represents approximately 45% of the variance in the data. The primary contributors to PC1 are sulfate, magnesium, and calcium. PC2, plotted on the y-axis, represents 22% of the variance in the data. The primary contributors to PC2 are ammonia and boron. Bicarbonate alkalinity and  $H^+$  plot in a positive direction along both PC1 and PC2 (*i.e.*, they plot in the upper right quadrant). This indicates a correlation between bicarbonate alkalinity and  $H^+$ , suggesting that bicarbonate alkalinity tends to be high when pH is low. This relationship is the inverse of what is typically expected given the capacity of alkalinity to neutralize acidity.

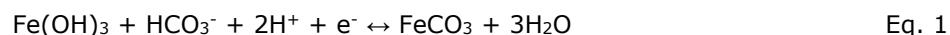
Samples from G231 generally plot further in the lower left quadrant of the biplot than upgradient samples. These points fall directly “opposite” the direction of the bicarbonate alkalinity and  $H^+$  influence, suggesting that the groundwater signature at G231 is inversely related to bicarbonate alkalinity and  $H^+$ . The upgradient locations with samples closest in composition to G231 are A214 and G224, both located on the northwest side of LF2. Groundwater contours (NPP LF2 ASD Figure 1) indicate that groundwater moves generally in the direction from A214 and G224 toward G231. Based on this analysis, wells A214 and G224 were identified as the most likely upgradient contributors to G231.

The individual geochemical parameters at A214, G224, and G231 were investigated further to better understand potential reactions in the groundwater. **Figure A-2** shows boxplots<sup>3</sup> of bicarbonate alkalinity, oxidation reduction potential (ORP), and pH at these locations from February 2021 through April 2023. Bicarbonate alkalinity is lower and pH is higher at G231 compared to the upgradient locations, consistent with the results of the PCA. Additionally, groundwater at G231 is more reducing than at G224 and A214 (shown by the higher ORP values in upgradient groundwater). Increasingly reducing groundwater along a flow path is consistent with increasing organic matter oxidation by microbes along the flow path.

Available redox indicator data (**Figure A-3**) were used to assess the predominant redox environment in the upgradient and downgradient wells. Nitrate is low relative to ammonia at all locations, and ammonia is relatively consistent between upgradient and downgradient wells. This indicates that the redox state of the groundwater is not being primarily controlled by nitrogen redox chemistry. The limited observations of aqueous iron show that iron is present in the groundwater, consistent with iron reduction. Additionally, SEP results show that iron oxides are present in the UA (**Table A-2**), which are required for iron reduction to occur. These results are consistent with an iron-reducing redox environment. Sulfate concentrations are similar between upgradient and downgradient wells, suggesting that sulfate reduction is not a dominant process. These combined observations suggest that the predominant redox environment as water moves downgradient is iron reducing.

<sup>3</sup> Box plots graphically represent the range of values of a given dataset using lines to construct a box where the lower line, midline, and upper lines of the box represent the values of the first quartile, median, and third quartile values, respectively. The minimum and maximum values of the dataset (excluding outliers) are illustrated by whisker lines extending beyond the first and third quartiles (*i.e.*, below and above) of the box. The interquartile range (IQR) is the distance between the first and third quartiles. Outliers (values that are at least 1.5 times the IQR away from the edges of the box) are represented by single points plotted outside of the range of the whiskers.

Increasing concentrations of dissolved iron would typically be expected as more organic matter is oxidized. However, available data show groundwater iron concentrations lower at downgradient locations compared to upgradient. A potential mechanism for the observed dissolved iron removal is precipitation of the mineral siderite ( $\text{FeCO}_3$ ). The redox reaction describing the dissolution of iron oxide (specifically, the reactive mineral ferrihydrite,  $\text{Fe}(\text{OH})_3$ ) and precipitate to siderite is:



In this reaction, both bicarbonate alkalinity ( $\text{HCO}_3^-$ ) and acidity ( $\text{H}^+$ ) are consumed as ferrihydrite is reduced and siderite is precipitated. This is consistent with the pattern observed moving from upgradient wells A214 and G224 to G231.

The presence of calcite and dolomite as dominant minerals (13 and 27 percent, respectively) in the solid phase (Table A-3) suggest that these phases may influence alkalinity in addition to potential siderite formation. Additionally, calcium and magnesium are lower in G231 than in upgradient wells A214 and G224 (**Figure A-4**). The relative concentrations of calcium, magnesium, iron, and bicarbonate alkalinity will ultimately affect the extent of each reaction along the groundwater flow path and determine the outcome on groundwater pH. Therefore, it is hypothesized that organic matter oxidation coupled to iron oxide reductive dissolution combined with carbonate mineral precipitation could account for these differences in groundwater signature.

### 3.2 Geochemical Modeling

Results from geochemical modeling support the hypothesis that organic matter oxidation coupled to iron oxide reductive dissolution combined with carbonate mineral precipitation could increase groundwater pH. **Figure A-5** shows the SIs for calcite, dolomite, and gypsum for A214, G224, and G231 determined by the initial speciation model. The SIs for calcite and dolomite are greater than 0 at G224 and G231, indicating that these groundwaters are supersaturated with respect to these minerals (*i.e.*, they are expected to precipitate from solution). The SIs for calcite and dolomite at A214 are slightly undersaturated, which indicates that these minerals may dissolve. The greater saturation of carbonate minerals downgradient compared to upgradient groundwater supports the proposed mechanism of bicarbonate alkalinity decrease between upgradient and downgradient wells by mineral precipitation. Gypsum is undersaturated at all locations, indicating that it is not expected to be a major control on calcium concentrations.

The effect of organic carbon oxidation on groundwater composition were only evaluated for upgradient wells A214 and G224 because the goal of the model is to evaluate potential reaction as water flows from upgradient to downgradient. The geochemical model shows that as organic carbon is added and oxidized, the following reactions occur:

- Decrease in reduction potential
- Increase in pH
- Decrease in calcium, magnesium, and bicarbonate alkalinity concentrations
- Reductive dissolution of ferrihydrite
- Precipitation of calcite, dolomite, and siderite

**Figure A-6** shows the effect of organic carbon oxidation on bicarbonate alkalinity, redox potential (pe), and pH. The horizontal line represents the values of each constituent as used in the G231 speciation model (**Table A-4**) and is used to compare the modeled outputs to downgradient groundwater

observations. The orange data points (“Initial Solution”) represent the solutions for groundwater at A214 and G224 (inputs from **Table A-4**) before equilibration or addition of carbon. As carbon is added, bicarbonate alkalinity decreases, pe decreases, and pH increases for both A214 and G224 groundwater; the same pattern that was observed between upgradient groundwater and G231. This supports the conclusion that organic matter oxidation coupled to reductive dissolution of iron oxides along with carbonate mineral precipitation could result in an increase in pH between upgradient and downgradient wells.

**Figure A-7** shows the effect of organic carbon oxidation on the mineral phases. The x-axis represents the total quantity of organic carbon added, and the y-axis represents the total amount of each mineral that dissolved or precipitated as organic carbon was added (in millimoles). Calcite and siderite are predicted to precipitate, while dolomite is expected to dissolve initially and then precipitate as more carbonate ion is generated by iron reduction. Ferrihydrite is predicted to dissolve, consistent with reductive dissolution. Gypsum was not predicted to precipitate (not shown).

The pH change observed (**Figure A-6**) in both wells (A214 and G224) from equilibration to the end of the organic carbon addition is 0.4 to 0.5 pH units. This degree of pH increase is consistent with the differences observed between the upgradient wells and G231. The absolute pH predicted by the model is not as elevated as those observed in the groundwater at G231, and more alkalinity is consumed than is expected given the concentrations at G231. This disparity is likely because in the model carbonate minerals precipitate until equilibrium conditions are reached. At G231, however, the groundwater is observed to be saturated with respect to carbonate minerals, indicating that the groundwater does not reach equilibrium. Therefore, the model likely overestimates alkalinity consumption, and therefore underestimates the extent of the pH increase.

## 4 CONCLUSIONS

Multivariate statistical analysis (*i.e.*, PCA) of the groundwater data upgradient and downgradient of LF2 shows that the groundwater signature at G231 is driven by low alkalinity and high pH relative to other locations. The upgradient locations with groundwater signatures most similar to G231 were A214 and G224. An evaluation of the specific differences in upgradient and G231 groundwater chemistry showed that, in addition to higher pH, G231 had lower alkalinity and reduction potential, and lower concentrations of magnesium and calcium. Based on these comparisons and the presence of iron in the groundwater, it was hypothesized that organic matter oxidation coupled to iron oxide reductive dissolution combined with carbonate mineral precipitation could account for these differences in groundwater signature. Equilibrium geochemical modeling was used to simulate the reactions that occur in groundwater from A214 and G224 when organic carbon is oxidized. This modeling confirmed that organic matter oxidation coupled to iron oxide reductive dissolution combined with carbonate mineral precipitation could generate the alkalinity decreases and pH increases consistent with those observed between upgradient wells and G231. Therefore, based on site-specific upgradient and downgradient groundwater data, PCA, solid phase data (SEP and X-ray diffraction), and geochemical modeling results, the pH SSI at well G231 is likely due to natural variation in groundwater quality.

## 5 REFERENCES

Appelo, C.A.J. and D. Postma. 2005. *Geochemistry, Groundwater and Pollution* (2<sup>nd</sup> ed.). A.A. Balkema Publishers.

**FIGURES (ATTACHED)**

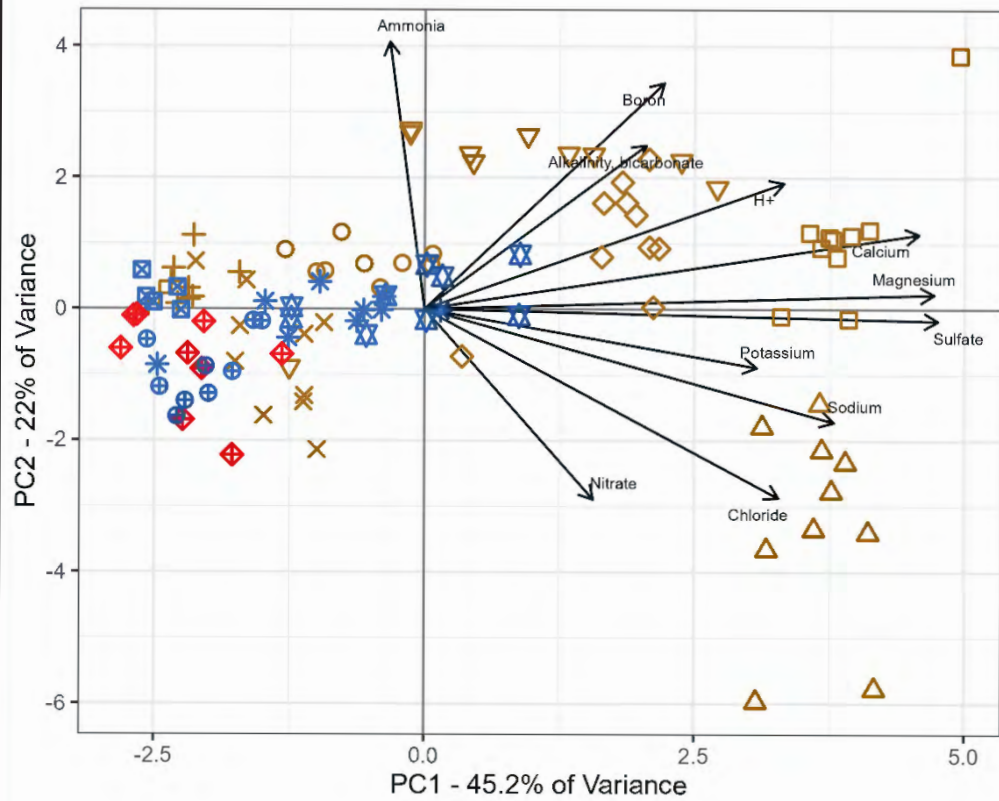
- Figure A-1 Principal Component Analysis of Landfill 2 Groundwater
- Figure A-2 Boxplot Representations of Bicarbonate Alkalinity, Oxidation Reduction Potential, and pH
- Figure A-3 Boxplot Representation of Redox Indicators
- Figure A-4 Boxplot Representations of Calcium and Magnesium
- Figure A-5 Saturation Indices at Observed Groundwater Concentrations
- Figure A-6 Response of Bicarbonate Alkalinity, pe, and pH to Organic Carbon Oxidation
- Figure A-7 Mineral Response to Organic Carbon Oxidation

**TABLES (ATTACHED)**

- Table A-1 Summary of Geochemical Parameters
- Table A-2 Sequential Extraction Procedure Data
- Table A-3 X-ray Diffraction Data
- Table A-4 Geochemical Model Inputs



## **APPENDIX A FIGURES**



Location Type

- Downgradient
- Downgradient (pH SSI)
- Upgradient

Location

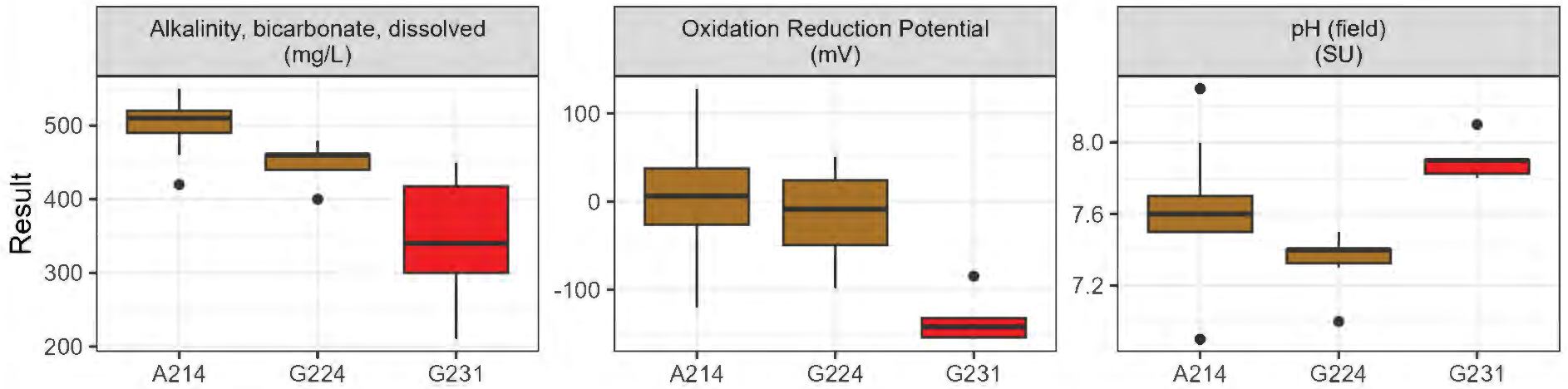
- ▽ A207
- ◇ A213
- × A214
- △ A215
- ⊠ G202
- + G224
- \* G230
- ◆ G231
- ⊕ G232
- ⊗ G233
- R216
- R217D



**Principal Component Analysis of Landfill 2 Groundwater**  
 Alternate Source Demonstration  
 Landfill 2 (LF2)  
 Newton Power Plant  
 Newton, Illinois

**Figure A-1**

Location Description ■ Downgradient (pH SSI) ■ Upgradient



**Boxplot Representations of Bicarbonate Alkalinity, Oxidation Reduction Potential, and pH**  
 Alternate Source Demonstration  
 Landfill 2 (LF2)  
 Newton Power Plant  
 Newton, Illinois

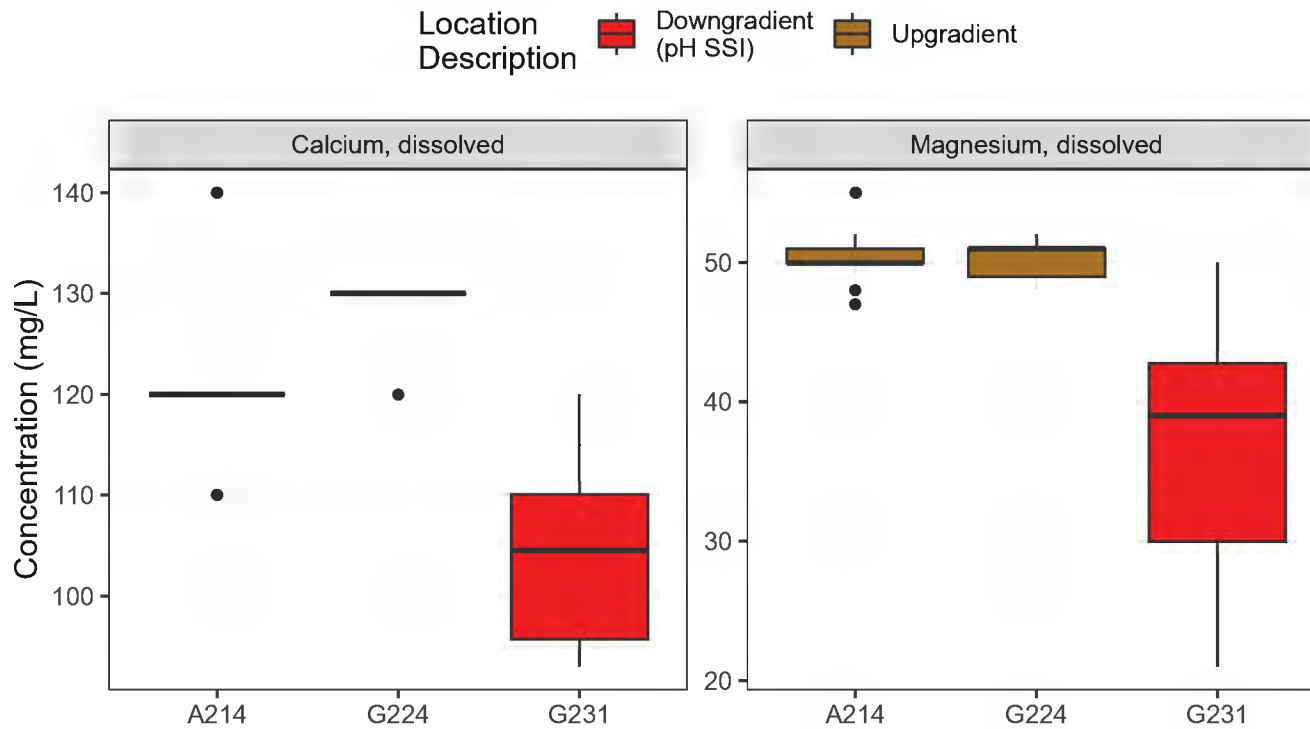
**Figure A-2**



**Boxplot Representations of Redox Indicators**

Alternate Source Demonstration  
 Landfill 2 (LF2)  
 Newton Power Plant  
 Newton, Illinois

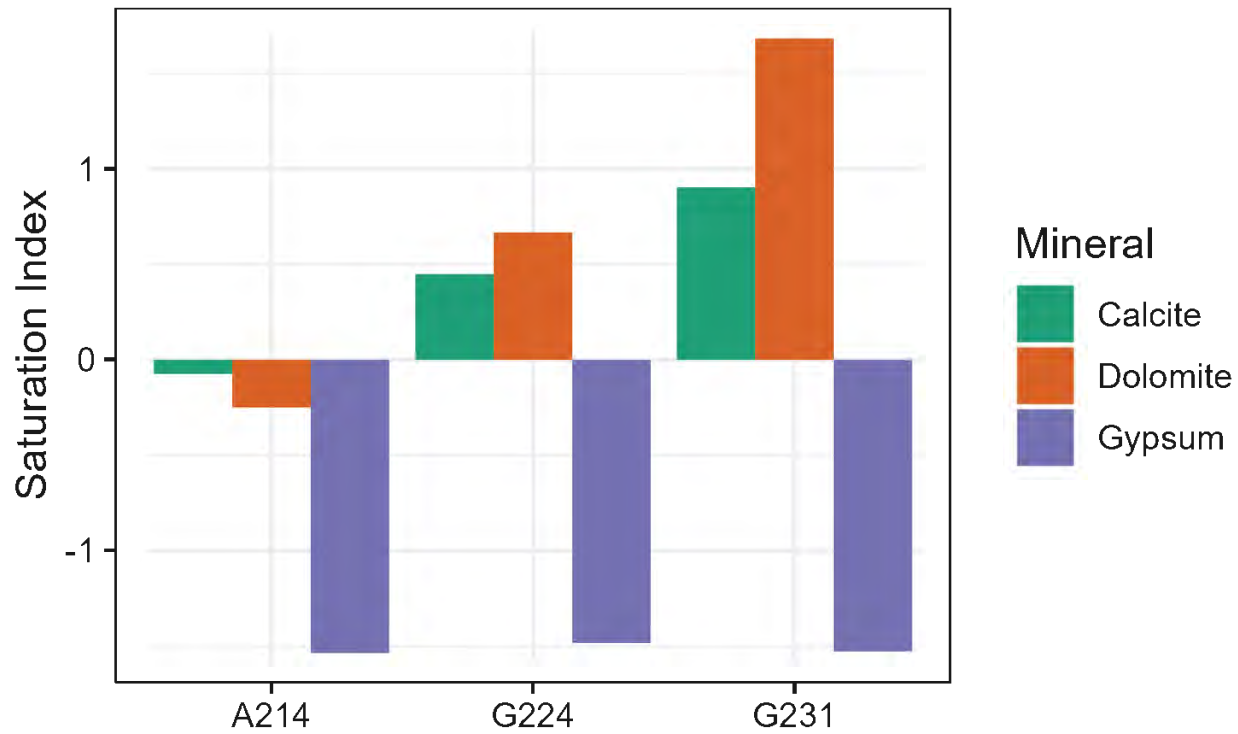
**Figure  
 A-3**



**Boxplot Representations of Calcium and Magnesium**

Alternate Source Demonstration  
 Landfill 2 (LF2)  
 Newton Power Plant  
 Newton, Illinois

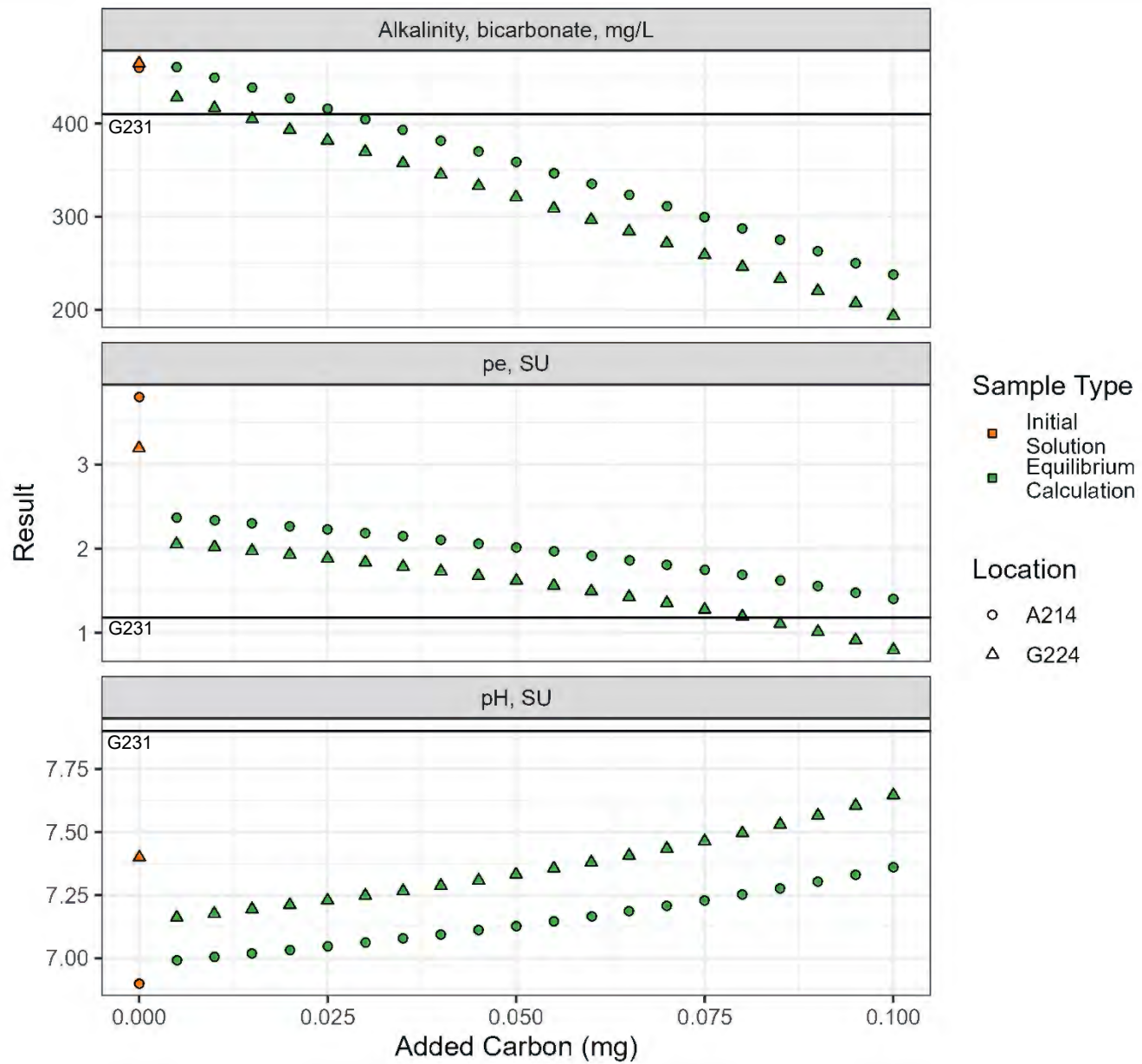
**Figure A-4**



**Saturation Indices at Observed Groundwater Concentrations**

Alternate Source Demonstration  
 Landfill 2 (LF2)  
 Newton Power Plant  
 Newton, Illinois

**Figure  
A-5**

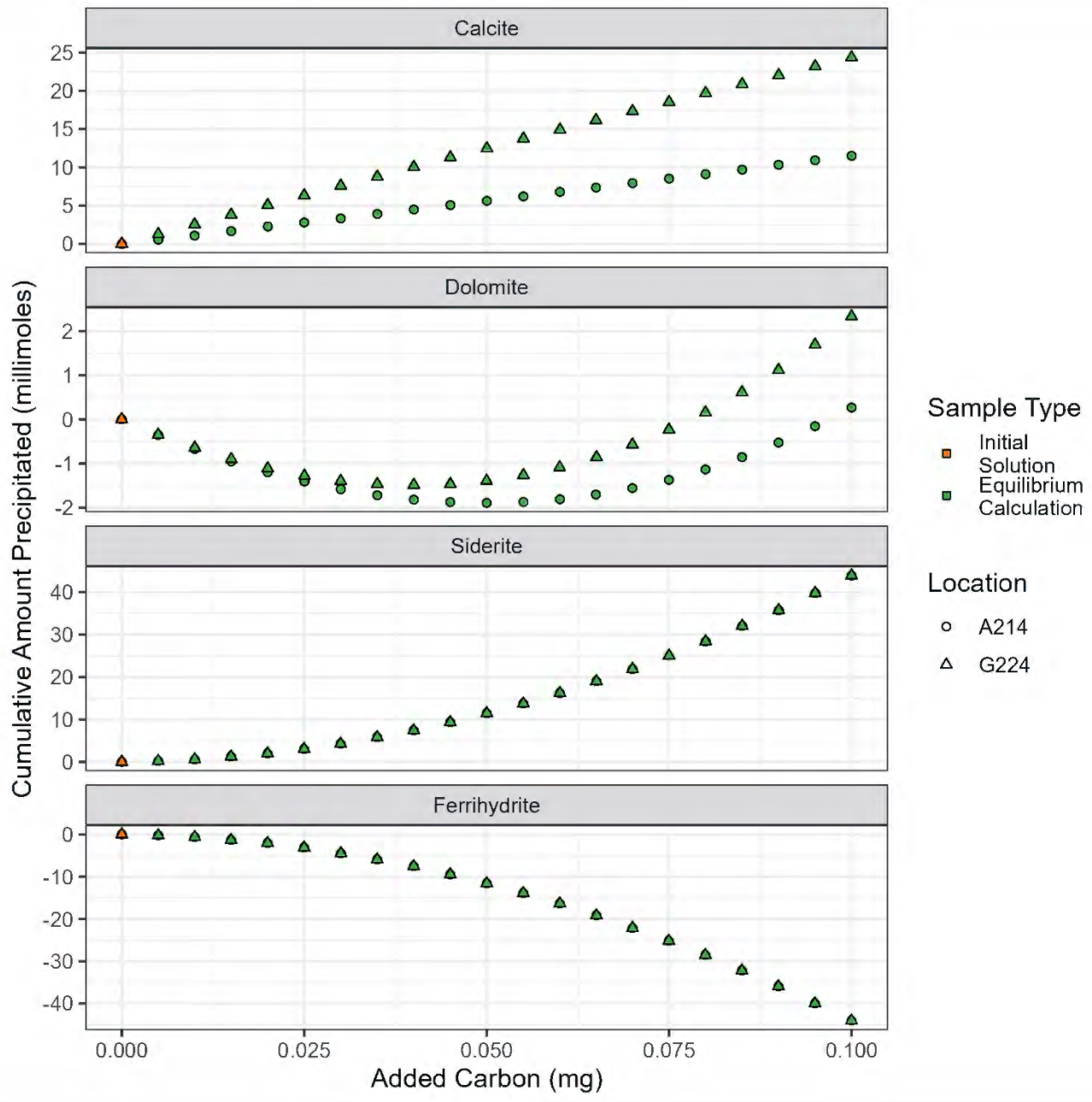


**Response of Bicarbonate Alkalinity, pe, and pH to Organic Carbon Oxidation**

Alternate Source Demonstration  
 Landfill 2 (LF2)  
 Newton Power Plant  
 Newton, Illinois

**Figure A-6**





**Sample Type**

- Initial
- Solution
- Equilibrium
- Calculation

**Location**

- A214
- △ G224



**Mineral Response to Organic Carbon Oxidation**  
 Alternate Source Demonstration  
 Landfill 2 (LF2)  
 Newton Power Plant  
 Newton, Illinois

**Figure A-7**

## **APPENDIX A TABLES**

**TABLE A-1. SUMMARY OF GEOCHEMICAL PARAMETERS**

ALTERNATE SOURCE DEMONSTRATION  
 LANDFILL 2 (LF2)  
 NEWTON POWER PLANT  
 NEWTON, ILLINOIS

Parameter <sup>a</sup>	Unit	A214					G224					G231				
		Sample Count	Minimum	Median	Mean	Maximum	Sample Count	Minimum	Median	Mean	Maximum	Sample Count	Minimum	Median	Mean	Maximum
Alkalinity, bicarbonate	mg/L	9	420	510	498	550	5	400	460	448	480	8	210	340	349	450
Ammonia	mg/L	8	1	3.95	3.41	4.8	5	4.4	4.4	4.52	4.7	7	4.3	4.7	4.63	4.9
Calcium	mg/L	9	110	120	122	140	5	120	130	128	130	8	93	104.5	104	120
Iron	mg/L	0	--	--	--	--	1	16.9	16.9	16.9	16.9	1	2.45	2.45	2.45	2.45
Magnesium	mg/L	9	47	50	50.3	55	5	49	51	50.4	52	8	21	39	36.5	50
Nitrate	mg/L	9	0.03	0.16	0.789	2.7	5	0.03	0.03	0.036	0.05	8	0.03	0.04	0.115	0.44
Oxidation Reduction Potential	mV	4	-120	6.25	5.12	128	4	-98.3	-8.65	-16.2	50.7	5	-156	-142	-134	-84.5
Sulfate	mg/L	9	87	150	150	230	5	100	130	128	140	8	110	175	191	360
Temperature	°C	4	16.8	18.05	18.3	20.4	4	6.7	13.3	13	18.5	5	9.1	17.1	15.4	18.1
pH	SU	9	6.9	7.6	7.63	8.3	6	7	7.4	7.33	7.5	6	7.8	7.9	7.9	8.1

**Notes:**

°C = degrees Celcius

mg/L = milligrams per liter

mV = millivolts

SU = standard units

-- = data not available

Data represent samples collected from February 2021 to April 2023 (excluding January 31 – February 1, 2023 due to a miscalibrated groundwater quality meter)

<sup>a</sup> All parameters represent dissolved fractions except for field parameters and iron at G224.

**TABLE A-2. SEQUENTIAL EXTRACTION PROCEDURE DATA**  
 ALTERNATE SOURCE DEMONSTRATION  
 LANDFILL 2 (LF2)  
 NEWTON POWER PLANT  
 NEWTON, ILLINOIS

<b>SEP Fraction</b>	<b>Iron Concentration</b>	<b>Unit</b>
Exchangeable	< 22	mg/kg
Carbonate	440	mg/kg
Non-Crystalline Materials	2500	mg/kg
Metal Hydroxide	3800	mg/kg
Organic	< 82	mg/kg
Acid/Sulfide	8500	mg/kg
Residual	3300	mg/kg

**Notes:**

mg/kg = milligrams per kilogram

Phases representing iron oxide mineral occurrence

**TABLE A-3. X-RAY DIFFRACTON DATA**  
 ALTERNATE SOURCE DEMONSTRATION  
 LANDFILL 2 (LF2)  
 NEWTON POWER PLANT  
 NEWTON, ILLINOIS

Mineral	Mineral Composition	APW-18 (wt %)
Quartz	SiO <sub>2</sub>	33%
Albite	NaAlSi <sub>3</sub> O <sub>8</sub>	4%
Calcite	CaCO <sub>3</sub>	13%
Dolomite	CaMg(CO <sub>3</sub> ) <sub>2</sub>	27%
Ankerite	CaFe(CO <sub>3</sub> ) <sub>2</sub>	8%
Microcline	KAlSi <sub>3</sub> O <sub>8</sub>	4%
Muscovite	KAl <sub>2</sub> (AlSi <sub>3</sub> O <sub>10</sub> )(OH) <sub>2</sub>	1%
Diopside	CaMgSi <sub>2</sub> O <sub>6</sub>	2%
Biotite	K(Mg,Fe) <sub>3</sub> (AlSi <sub>3</sub> O <sub>10</sub> )(OH) <sub>2</sub>	1%
Actinolite	Ca <sub>2</sub> (Mg,Fe) <sub>5</sub> Si <sub>8</sub> O <sub>22</sub> (OH) <sub>2</sub>	2%
Chlorite	(Fe,(Mg,Mn) <sub>5</sub> ,Al)(Si <sub>3</sub> Al)O <sub>10</sub> (OH) <sub>8</sub>	2%
Fluorapatite	Ca <sub>5</sub> (PO <sub>4</sub> ) <sub>3</sub> F	2%

**Notes:**

wt % = percent by weight

Weight percent values are normalized to 100%.

**TABLE A-4. GEOCHEMICAL MODEL INPUTS**  
 ALTERNATE SOURCE DEMONSTRATION  
 LANDFILL 2 (LF2)  
 NEWTON POWER PLANT  
 NEWTON, ILLINOIS

<i>Location</i>		<b>A214</b>	<b>G224</b>	<b>G231</b>
<i>Sample Date</i>		<b>5/26/2022</b>	<b>2/22/2022</b>	<b>5/25/2022</b>
<b>Parameter</b>	<b>Unit</b>			
Temperature	°C	17	12	17.2
pH	SU	6.9	7.4	7.9
pe	SU	3.8	3.2	1.2
Bicarbonate	mg/L	561	537	500
Calcium	mg/L	110	120	96
Magnesium	mg/L	50	49	41
Sulfate	mg/L	97	100	110

**Notes:**

- °C = degrees Celcius
- mg/L = milligrams per liter
- SU = standard units