



2025 Annual Groundwater Monitoring and Corrective Action Report - Former Emery Pond

Southern Illinois Power Cooperative Marion Power Plant

Prepared Pursuant to 40 CFR §257.90(e)

Submitted to:

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EXECUTIVE SUMMARY

This *2025 CCR Annual Groundwater Monitoring and Corrective Action Report* (2025 Annual Report) was prepared on behalf of Southern Illinois Power Cooperative (SIPC) for the Marion Power Plant former Emery Pond located at 11543 Lake of Egypt Road in Marion, Illinois (Site). The former Emery Pond is subject to Title 40 Code of Federal Regulations (CFR) Part 257.50 *et seq.* [Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule; Federal Register Vol. 80, No. 74, 21302-21501 on April 17, 2015, as amended)]. Pursuant to the CCR Rule, SIPC is required to complete an annual groundwater monitoring and corrective action report by January 31st of the following year.

This 2025 Annual Report documents the status of the CCR groundwater monitoring and corrective action program for the former Emery Pond, summarizes key actions completed, identifies issues encountered, describes actions taken to resolve identified concerns, and proposes key activities for calendar year 2026. More specifically, this 2025 Annual Report describes the results of the CCR Rule Assessment Monitoring Program and Corrective Action Monitoring Program activities and discusses the progression of future sampling activities pursuant to the CCR Rule and the former Emery Pond Groundwater Monitoring Plan Addendum #1 (GMP, Golder, 2021).

In 2017, following the installation of a groundwater monitoring system, groundwater monitoring at the Site was completed to evaluate background water quality consistent with 40 CFR §257.90. In March 2018, the first round of Detection Monitoring was completed pursuant to the requirements of 40 CFR §257.94. The results of Detection Monitoring required the transition to Assessment Monitoring pursuant to the requirements of 40 CFR §257.95. The first Assessment Monitoring sampling event was completed in August 2018. The results of Assessment Monitoring initiated an Assessment of Corrective Measures (ACM) which was completed in March 2019 and revised in March 2021. The Selection of Remedy Report was completed in June 2019 and revised in March 2021. The selected remedy, closure by removal, was completed in April 2021. The former Emery Pond is currently in quarterly post-closure monitoring of groundwater or Corrective Action Monitoring (CAM).

In accordance with 40 CFR §257.90(e)(6), the following information provides an overview of groundwater monitoring and corrective action status for the Unit:

- The Assessment Monitoring Program was initiated on August 8, 2018.
- The ACM was initiated in January 2019 and completed in March 2019 (Hanson, Revised March 30, 2021).
- Prior to the Selection of Remedy for Emery Pond, a public meeting was held on May 23, 2019 at the Marion Public Library in Marion, Illinois to discuss the results of the ACM in accordance with 40 CFR §257.96(e).
- The remedy was selected for Emery Pond on June 19, 2019 (SIPC, 2019) as required by 40 CFR §257.97.
- The selected remedy included closure-by-removal of all CCR from Emery Pond, installation of a perimeter drain, and ongoing groundwater monitoring. Closure-by-removal of CCR was completed on April 5, 2021 and final inspection by a licensed professional engineer was complete as of May 28, 2021 (SIPC, 2021). Upon completion of these closure-by-removal actions, all references to and reports for the former CCR unit transitioned to the current nomenclature, former Emery Pond.
- Throughout calendar year 2025, CAM was performed at former Emery Pond in accordance with 40 CFR §257.98.

- The following constituents were detected at statistically significant levels (SSLs) above groundwater protection standards (GPS) in 2025: cobalt in monitoring wells EP-2, EP-3, EP-4, and EP-7.

In 2026, SIPC will continue CAM as described in the Site's GMP Addendum #1 (Golder, 2021a).

1.0 INTRODUCTION

On behalf of Southern Illinois Power Cooperative (SIPC), WSP USA Inc. (WSP), prepared this *2025 CCR Annual Groundwater Monitoring and Corrective Action Report* (2025 Annual Report) for the Marion Power Plant's (i.e., Facility's) former Emery Pond, 11543 Lake of Egypt Road, Marion, Williamson County, Illinois (Site, see Figure 1). The former Emery Pond was an on-site settling pond, approximately one (1) acre in size, closed via CCR removal by April 5, 2021. The former Emery Pond is subject to the groundwater monitoring requirements of Title 40 Code of Federal Regulations (CFR) Part 257.50 et seq. [Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule: Federal Register Vol. 80, No. 74, 21302-21501 on April 17, 2015, as amended)]. Pursuant to the CCR Rule, the Facility is required to complete an annual groundwater monitoring and corrective action report by January 31st of the following year.

This 2025 Annual Report provides the monitoring data and presents the relevant data evaluations from the Corrective Action Monitoring (CAM) events that were performed in December 2024, March 2025, June 2025, and September 2025. An additional CAM event was performed in December 2025; the results from this sampling event will be provided in the 2026 Annual Groundwater Monitoring and Corrective Action Report (2026 Annual Report).

In conformance with the applicable requirements 40 CFR §257.90(e)(1) through (5), the 2025 Annual Report:

- Documents the status of the groundwater monitoring and corrective action activities
- Provides figures showing the former Emery Pond, monitoring well locations, and groundwater flow direction(s)
- Summarizes key actions completed including the status of permit applications
- Includes CCR Rule groundwater monitoring data obtained
- Describes any problems encountered during the monitoring activities
- Discusses actions taken to resolve the problems, if applicable
- Projects key groundwater monitoring and corrective action activities anticipated for 2026.

1.1 Key Actions Completed - 2025

SIPC completed the following key actions relative to 40 CFR Part 257 Rule groundwater monitoring and corrective action regulations at the Site in 2025:

- Preparation of the *2024 CCR Annual Groundwater Monitoring and Corrective Action Report* in January 2025 (2024 Annual Report) in accordance with 40 CFR §257.90(e)
- Evaluation and notification in February 2025 of detections above Groundwater Protection Standards (GPS) from the fifteenth CAM event (40 CFR §257.98)
- Performance of the sixteenth CAM event in March 2025 (40 CFR §257.98)
- Evaluation and notification in May 2025 of detections above GPS from the sixteenth CAM event (40 CFR §257.98)
- Performance of the seventeenth CAM event in June 2025 (40 CFR §257.98)

- Evaluation and notification in August 2025 of detections above GPS from the seventeenth CAM event (40 CFR §257.98)
- Performance of the eighteenth CAM event in September 2025 (40 CFR §257.98)
- Evaluation and notification in November 2025 of detections above GPS from the eighteenth CAM event (40 CFR §257.98)
- Performance of the nineteenth CAM event in December 2025 (40 CFR §257.98).

2.0 SITE INFORMATION

The following section summarizes Site information including the current monitoring well network and a description of the Site's geology and hydrogeology.

2.1 Monitoring Well Network

The groundwater monitoring system was installed in 2017 (AECOM, 2017). One background monitoring well (EBG) is located approximately 800 feet upgradient/side-gradient of the former Emery Pond and four downgradient monitoring wells (EP-1, EP-2, EP-3, and EP-4) are located along the southern, eastern, and northeastern boundaries of the former Emery Pond. Three additional wells (EP-5, EP-6, and EP-7) were installed in October 2021 between the former Emery Pond and the Lake of Egypt to evaluate groundwater at the boundary of the groundwater management zone (GMZ, Figure 2). The monitoring wells are screened at the un lithified/bedrock unit interface which occurs at the Site at 10 to 20 feet below ground surface (ft bgs) dependent on location. Table 1 provides a summary of the well rationale/purpose and date of installation and monitoring well construction details.

2.2 Geology and Hydrogeology

The following section describes the geology and hydrogeology of the Site.

2.2.1 Geology

The Site is underlain by glacially derived deposits of the Illinoian Stage overlying the Pennsylvanian Age Bedrock (Hanson, revised March 24, 2021). WSP's interpretation of the Site's geology is based on soil borings (Appendix A) and bedrock geology maps and includes:

- Fill Materials: Where present, the fill materials generally consist of light gray to yellowish brown gravel with some silt and clay, and trace amounts of sand and asphalt from the ground surface to as deep as 14 ft bgs.
- Silt (upper discontinuous silt layer): Yellowish brown silt with little clay and trace very fine-grained sand from the ground surface to as deep as 8 ft bgs.
- Clay: Yellowish brown to black clay with some silt, little sand, and trace gravel from ground surface to approximately 20 ft bgs.
- Silt (lower discontinuous silt layer): Black to yellowish brown silt with little clay and trace very fine-grained sand from approximately 14 ft bgs to 20 ft bgs.
- Upper Bedrock Zone: Yellowish brown, weathered, sandstone and shale with secondary porosity. The depth to bedrock is approximately 20 ft bgs.

The uppermost water bearing zone monitored by the groundwater monitoring system extends from the clay layer to the shallowest 11 feet of weathered / fractured bedrock.

2.2.2 Site Hydrogeology

The uppermost water bearing zone is the shallow zone comprised of fill and unlithified units (silt, clay and weathered bedrock) and is not considered a usable water source. No confining layer or semi-confining conditions are identified. The fill and unlithified unit has 3 to 5 feet of saturated thickness. Because the former Emery Pond was constructed directly on top of the bedrock, groundwater monitoring wells are screened at the unlithified/bedrock unit interface. This zone has a relatively low hydraulic conductivity (<1E-04 centimeters per second [cm/s]) and 5-10 feet of saturated thickness (Hanson, 2019b).

2.2.3 Groundwater Flow

The 2025 static water levels are summarized in Table 2. Consistent with the requirements of the CCR Rule, the rate and direction of groundwater flow within the uppermost aquifer was determined after each sampling event. The groundwater surface elevation contour maps, Figures 3 through 14, were prepared using static water level data obtained monthly in 2025. Groundwater in the vicinity of the former Emery Pond generally flows east/northeast toward the Lake of Egypt. The average groundwater elevation varies between approximately 500 to 520 feet above mean sea level (ft amsl) with an average depth to groundwater of less than 15 ft bgs.

WSP calculated the horizontal hydraulic gradient (i) for the unconfined aquifer in the vicinity of the former Emery Pond at 0.0281, as shown below using average groundwater elevation data for EP-5 and EP-7 from 2025.

$$i = h_L / L$$

Where: i = hydraulic gradient (unitless)
 h_L = head loss (elevation difference in feet)
 L = length (horizontal distance in feet)

As presented in the following table, the groundwater flow rate between EP-5 and EP-7 was calculated at approximately 7.0-8.5 feet per year using the following formula:

$$V = ki / \theta$$

Where: V = Groundwater seepage velocity (ft/min)
 k = Hydraulic conductivity (ft/min)
 i = Hydraulic gradient (unitless)
 θ = Estimated effective porosity (unitless)

The hydraulic conductivity used to calculate the groundwater flow rate was the geometric mean of the hydraulic conductivities estimated through analysis of slug test data from wells EP-5 and EP-7, presented in the following table (Hanson, 2019b).

Date	Head Loss (h _L , feet)	Flow Length (feet)	Hydraulic Gradient (i)	Effective Porosity (∅)	Hydraulic Conductivity (k, feet/min)	Estimated Groundwater Seepage Velocity	
						(feet/min)	(feet/year)
January 2025	13.3	470	2.83E-02	0.2	1.04E-04	1.47E-05	7.7
February 2025	13.1	470	2.79E-02	0.2	1.04E-04	1.45E-05	7.6
March 2025	13.3	470	2.83E-02	0.2	1.04E-04	1.47E-05	7.7
April 2025	13.5	470	2.87E-02	0.2	1.04E-04	1.49E-05	7.8
May 2025	14.2	470	3.02E-02	0.2	1.04E-04	1.57E-05	8.3
June 2025	14.6	470	3.11E-02	0.2	1.04E-04	1.62E-05	8.5
July 2025	13.4	470	2.85E-02	0.2	1.04E-04	1.48E-05	7.8
August 2025	13.5	470	2.87E-02	0.2	1.04E-04	1.49E-05	7.8
September 2025	12.1	470	2.57E-02	0.2	1.04E-04	1.34E-05	7.0
October 2025	12.7	470	2.70E-02	0.2	1.04E-04	1.40E-05	7.4
November 2025	12.3	470	2.62E-02	0.2	1.04E-04	1.36E-05	7.2
December 2025	12.6	470	2.68E-02	0.2	1.04E-04	1.39E-05	7.3

Notes: feet/min = feet per minute

h_L = Head loss in feet

i = hydraulic gradient

k = hydraulic conductivity

∅ = estimated value for effective porosity based on soil and bedrock properties

3.0 FIELD ACTIVITIES

Pursuant to the requirements in 40 CFR §257.95(d)(1), four quarterly monitoring events were completed for the former Emery Pond in 2025. A summary of the sampling events is presented below.

Monitoring Event	Sample Parameters	Sample Dates
16 th Corrective Action Monitoring Event	Appendix III and Appendix IV	March 3 - 4, 2025

Monitoring Event	Sample Parameters	Sample Dates
17 th Corrective Action Monitoring Event	Appendix III and Appendix IV	June 2 - 4, 2025
18 th Corrective Action Monitoring Event	Appendix III and Appendix IV	September 2 - 3, 2025
19 th Corrective Action Monitoring Event	Appendix III and Appendix IV	December 1 - 3, 2025

During each of the sampling events, the monitoring wells were sampled in accordance with the procedures presented in the GMP (Hanson, revised March 24, 2021) and the GMP Addendum #1 (Golder, 2021a). Samples were collected by Teklab, Inc. (Teklab) and delivered to the Teklab laboratory in Collinsville, Illinois in secured coolers under chain-of-custody control. Radium samples were then shipped to Summit Environmental Technologies, Inc. in Cuyahoga Falls, Ohio for analysis.

3.1 Problems Encountered and Follow-Up Corrective Actions

According to the GMP Addendum #1 (Golder, 2021a), groundwater samples are to be collected once a well has achieved a turbidity level below 5 nephelometric turbidity units (NTUs) or when wells were purged for a minimum of two hours and sampled when turbidity appeared to stabilize (e.g., no downward or upward trend over three consecutive readings five minutes apart). During the fifteenth CAM event (December 2024), the following groundwater samples were collected with higher than 5 NTU turbidity levels but after stabilization:

- EBG; 61 NTUs
- EP-2; 6.2 NTUs
- EP-3; 7.1 NTUs
- EP-4; 22 NTUs
- EP-5; 5.6 NTUs
- EP-6; 37 NTUs
- EP-7; 5.4 NTUs

During the sixteenth CAM event (March 2025), the following groundwater samples were collected with higher than 5 NTU turbidity levels:

- EBG; 5.2 NTUs
- EP-2; 5.8 NTUs
- EP-4; 5.4 NTUs
- EP-7; 5.6 NTUs

During the seventeenth CAM event (June 2025), the following groundwater sample was collected with higher than 5 NTU turbidity levels:

- EBG; 10 NTUs

During the eighteenth CAM event (September 2025), the following groundwater samples were collected with higher than 5 NTU turbidity levels:

- EP-3; 7.0 NTUs
- EP-4; 6.8 NTUs

WSP’s evaluation of the analytical results from these wells suggests that the elevated turbidity levels had no significant effect on the representativeness of the samples of groundwater quality. During future monitoring events, wells will be purged for a minimum of two hours or five well volumes (whichever occurs first) in accordance with the GMP Addendum #1 (Golder, 2021a) and professional judgement will be used to assess when the purged water is representative of groundwater to be sampled.

4.0 GROUNDWATER MONITORING PROGRAM RESULTS

This section includes a description of the CCR Rule monitoring program history and status, a discussion of the groundwater data collection and evaluation, and a summary of the Corrective Actions completed.

4.1 Background Monitoring

Per the requirements of 40 CFR §257.94, between March 2017 and August 2017 eight independent background groundwater samples were collected from each background and downgradient well. The samples were submitted to a contract laboratory, in accordance with chain of custody and quality assurance/quality control procedures, for analysis of 40 CFR Part 257 Appendix III and Appendix IV constituents. In addition, field water quality parameters were measured including specific conductance, temperature, dissolved oxygen, turbidity, oxidation-reduction potential, and pH. On behalf of SIPC, Hanson Professional Services Inc. (Hanson) used the results of the background monitoring phase to develop appropriate, statistically valid background values for each constituent/monitoring well. The sampling dates, number of groundwater samples collected from each background and downgradient well, purpose of sampling, and analytical results are presented in Table 3.

4.2 Detection Monitoring

The first Detection Monitoring event was completed in March 2018. Pursuant to the requirements of 40 CFR §257.94, a groundwater sample was collected from each background and downgradient well for analysis of Appendix III constituents. Hanson evaluated the results of the first Detection Monitoring sampling event to compare to facility background concentrations. The results of Detection Monitoring indicated statistically significant increases (SSIs) and triggered Assessment Monitoring in 2018 (Hanson, 2019a). The Detection Monitoring analytical results are presented in Table 3. The identified SSIs are summarized in the table below.

Parameter	EP-1	EP-2	EP-3	EP-4
Boron	X	X	-	X
Calcium	X	X	-	X
Chloride	-	-	-	X
Fluoride	-	-	-	-
pH	-	-	X	X

Parameter	EP-1	EP-2	EP-3	EP-4
Sulfate	X	X	X	X
Total Dissolved Solids	X	X	X	X

"X" Indicates an SSI

4.3 Assessment Monitoring

The first Assessment Monitoring sampling event was completed in August 2018, followed by a statistical evaluation and data analysis in January 2019. In August 2018, groundwater samples were collected from each background and downgradient well for analysis of Appendix III and Appendix IV constituents per 40 CFR §257.95. Following receipt of laboratory results, Hanson evaluated the Appendix IV constituents results relative to the Unit-specific GPS. In January 2019, Hanson determined that statistically significant levels (SSLs) existed for cobalt and thallium and, as a result, initiated the Assessment of Corrective Measures (ACM). Subsequent Assessment Monitoring sampling events confirmed these SSLs. The Assessment Monitoring analytical results are presented in Table 3. A summary of the SSLs identified by Hanson between 2018-2020 and WSP in 2021 are provided in the Table below.

Assessment Monitoring Event	Identified Statistically Significant Levels
Assessment Monitoring Event #1 (August 2018)	Cobalt: EP-3 and EP-4 Thallium: EP-4
Assessment Monitoring Event #2 (January 2019)	Cobalt: EP-3 and EP-4 Thallium: EP-4
Assessment Monitoring Event #3 (June 2019)	Arsenic: EP-4 Cobalt: EP-3 and EP-4
Assessment Monitoring Event #4 (January 2020)	Arsenic: EP-4 Cobalt: EP-3 and EP-4
Assessment Monitoring Event #5 (June 2020)	Arsenic: EP-4 Cobalt: EP-3 and EP-4 Lead: EP-4
Assessment Monitoring Event #6 (January 2021)	Cobalt: EP-3 and EP-4

4.4 Corrective Action

The ACM was completed in March 2019 and a public meeting was held on May 23, 2019, at the Marion Public Library in Marion, Illinois to discuss the results of the ACM. The "Corrective Action and Selected Remedy Plan" (Hanson, revised March 30, 2021) outlines the selected remedy including:

- Closure of the then-operating Emery Pond and adjacent flue-gas desulfurization (FGD) storage area by removal of all CCR.
- Construction of a composite liner system compliant 40 CFR Part 257 in the footprint of the former Emery Pond to continue storm water management functions.
- Construction of a perimeter drain at the toe of the liner system to protect the liner from external hydrostatic pressure and recover potentially impacted groundwater.

- Installation of three new monitoring wells, continuing to monitor groundwater for changes resulting from the natural attenuation of CCR constituents, source removal and the perimeter drain collection of potentially impacted groundwater, and the establishment of a GMZ.

Emery Pond ceased receipt of CCR materials in the fall of 2020. Closure construction activities began in late 2020. Emery Pond, and the adjacent FGD storage area, were dewatered and excavated. The removal and decontamination of Emery Pond was completed April 5, 2021, and the final inspection was completed May 28, 2021, in accordance with the Site's Closure Plan (Hanson, revised April 15, 2021).

4.5 Corrective Action Monitoring

The former Emery Pond is currently in CAM. In accordance with the Site's Closure Plan (Hanson, revised April 15, 2021) and the GMP Addendum #1 (Golder, 2021a), CAM is completed on a quarterly basis. The first two quarterly CAM events were completed in May and August 2021 and the results were provided in the 2021 Annual Groundwater Monitoring and Corrective Action Report (2021 Annual Report, Golder, 2022). The third through sixth CAM sampling events were completed in December 2021, March 2022, May 2022, and September 2022 and the results were provided in the 2022 Annual Groundwater Monitoring and Corrective Action Report (2022 Annual Report, WSP, 2023). The seventh through tenth CAM sampling events were completed in December 2022, March/May 2023, June 2023, and September 2023, and the results were provided in the 2023 Annual Groundwater Monitoring and Corrective Action Report (2023 Annual Report, WSP, 2024). The eleventh through fourteenth CAM sampling events were completed in December 2023, March 2024, June 2024, and September 2024, and the results were provided in the 2024 Annual Groundwater Monitoring and Corrective Action Report (2024 Annual Report, WSP, 2025). The fifteenth through nineteenth CAM sampling events were completed in December 2024, March 2025, June 2025, September 2025, and December 2025. The results from the December 2024, March 2025, June 2025, and September 2025 sampling events are discussed in Sections 5.1 through 5.4, respectively, and presented in Table 3. The corresponding analytical laboratory reports are provided in Appendix B. The 2025 Data Usability Summary Report is provided in Appendix C. The results from the December 2025 sampling event will be included in the 2026 Annual Report.

5.0 STATISTICAL EVALUATION

The former Emery Pond is currently in CAM. After four quarterly CAM groundwater sampling events were completed, the groundwater sampling results were statistically evaluated to determine whether statistically significant decreases (SSDs) had occurred after closure through removal of the former Emery Pond as described in the Site's GMP Addendum #1 (Golder, 2021a).

In accordance with the procedures identified in GMP Addendum #1 (Golder, 2021a), WSP calculated the GPS and the facility background tolerance limits (i.e., background concentrations), including all data collected from the background monitoring well (EBG) prior to the former Emery Pond closure, for each analyte using a tolerance/prediction limit procedure in accordance with 40 CFR §257.95. The updated GPS are the higher value of the Maximum Contaminant Levels (MCL) provided in 40 CFR §257.95(h)(2), 40 CFR §141.62 or 40 CFR §141.66, and the facility background concentration. The GPS for the Site are summarized in Table 4. The results from the statistical analyses from the fifteenth through eighteenth CAM events are provided in Appendix D.

5.1 Fifteenth Corrective Action Monitoring Event Statistical Analysis

The fifteenth CAM event (December 2024) data were compared to GPS established by WSP in 2021, which are summarized in Table 4. Statistical analyses were completed according to the GMP Addendum #1 (Golder, 2021a). The results confirmed the SSLs identified in Assessment Monitoring for cobalt in monitoring wells EP-3 and EP-4 and identified an SSL for cobalt in well EP-7.

The fifteenth CAM event (December 2024) data was evaluated for SSDs by identifying constituents where SSLs were identified in the pre-closure (March 2017- January 2021) data but not identified in post-closure (May 2021-present) data. No SSDs were identified. The former Emery Pond has completed closure by removal of all CCR material and is in Corrective Action Monitoring; therefore, no actions beyond reporting these exceedances in this Annual Report are required.

5.2 Sixteenth Corrective Action Monitoring Event Statistical Analysis

The sixteenth CAM event (March 2025) data were compared to GPS established by WSP in 2021. Statistical analyses were completed according to the GMP Addendum #1 (Golder, 2021a). The results confirmed the SSLs identified in Assessment Monitoring for cobalt in monitoring wells EP-3 and EP-4 and identified an SSL for cobalt in well EP-7. No SSDs were identified.

The former Emery Pond has completed closure by removal of all CCR material and is in Corrective Action Monitoring; therefore, no actions beyond reporting these exceedances in this Annual Report are required.

5.3 Seventeenth Corrective Action Monitoring Event Statistical Analysis

The seventeenth CAM event (June 2025) data were compared to GPS established by WSP in 2021. Statistical analyses were completed according to the GMP Addendum #1 (Golder, 2021a). The results confirmed the SSLs identified in Assessment Monitoring for cobalt in monitoring wells EP-3 and EP-4 and identified SSLs for cobalt in wells EP-2 and EP-7. No SSDs were identified.

The former Emery Pond has completed closure by removal of all CCR material and is in Corrective Action Monitoring; therefore, no actions beyond reporting these exceedances in this Annual Report are required.

5.4 Eighteenth Corrective Action Monitoring Event Statistical Analysis

The eighteenth CAM event (September 2025) data were compared to facility background concentrations and GPS established by WSP in 2021. Statistical analyses were completed according to the GMP Addendum #1 (Golder, 2021a). The results confirmed the SSLs identified in Assessment Monitoring for cobalt in monitoring wells EP-3 and EP-4 and identified SSLs for cobalt in wells EP-2 and EP-7. No SSDs were identified.

The former Emery Pond has completed closure by removal of all CCR material and is in Corrective Action Monitoring; therefore, no actions beyond reporting these exceedances in this Annual Report are required.

5.5 Nineteenth Corrective Action Monitoring Event Statistical Analysis

The nineteenth CAM event was completed in December 2025. The laboratory results were not received during calendar year 2025. The data for the nineteenth CAM event will be evaluated in accordance with the CCR Rule timeframes and reported in the 2026 Annual Report.

6.0 KEY ACTIVITIES PROJECTED FOR 2026

During calendar year 2026, SIPC anticipates conducting the following key CCR Rule groundwater monitoring activities for the former Emery Pond:

- Prepare and submit the appropriate notifications according to the CCR Rule.
- Continue quarterly CAM per CCR Rule requirements.
- Inspect and maintain the monitoring system including wells, pumps, and equipment.

7.0 REFERENCES

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TABLES

Table 1: Monitoring Well Construction Details
Former Emery Pond
Southern Illinois Power Cooperative Marion Power Plant
Marion, Illinois

CCR Unit	Monitoring Well Type	Monitoring Well ID	Installation Date	Ground Surface Elevation (ft-msl)	Total Borehole Depth (ft)	Top of Casing Elevation (ft-msl)	Sounded Well Depth (ft-btoc)	Well Material	Screen Length (ft)	Screen Depth		Screen Elevation		
										Top (ft-btoc)	Bottom (ft-btoc)	Top (ft-msl)	Middle (ft-msl)	Bottom (ft-msl)
Former Emery Pond	Background	EBG	2/8/2017	521.74	25.00	524.87	28.13	2" Sch 40 PVC	10	18.13	28.13	506.74	501.74	496.74
	Downgradient	EP-1	2/7/2017	517.07	31.00	519.72	33.65	2" Sch 40 PVC	10	23.65	33.65	496.07	491.07	486.07
	Downgradient	EP-2	2/7/2017	511.15	15.00	513.79	17.64	2" Sch 40 PVC	10	7.64	17.64	506.15	501.15	496.15
	Downgradient	EP-3	2/8/2017	516.24	26.50	518.95	29.21	2" Sch 40 PVC	10	19.21	29.21	499.74	494.74	489.74
	Downgradient	EP-4	2/8/2017	517.07	18.50	519.74	21.17	2" Sch 40 PVC	10	11.17	21.17	508.57	503.57	498.57
	GMZ Boundary	EP-5	10/5/2021	524.64	16.32	527.59	15.79	2" Sch 40 PVC	4.5	11.30	15.79	516.29	514.05	511.80
	GMZ Boundary	EP-6	10/4/2021	502.08	13.62	505.11	13.12	2" Sch 40 PVC	4.5	8.59	13.12	496.52	494.26	491.99
	GMZ Boundary	EP-7	10/4/2021	512.49	18.50	515.44	18.00	2" Sch 40 PVC	8.6	9.36	18.00	506.08	501.76	497.44

Notes:

ft-msl = Feet above mean sea level
 ft-btoc = Feet below top of casing
 2" Sch 40 PVC = Two-inch diameter well, constructed of schedule 40 polyvinyl chloride materials
 AECOM, 2018, 2017 Annual Groundwater Monitoring and Corrective Action Report, January 31, 2018.
 GMZ = Groundwater Management Zone

Prepared by: GRD
 Checked by: JDV
 Reviewed by: JF

Table 2: 2025 Groundwater Water Levels
Former Emery Pond
Southern Illinois Power Cooperative Marion Power Plant
Marion, Illinois

Monitoring Well ID	Total Borehole Depth (ft-bgs)	Sounded Well Depth (ft-btc)	Elevation of Top of Casing (feet msl)	1/13/2025		2/10/2025		3/3/2025		4/16/2025		5/19/2025		6/4/2025		7/14/2025		8/18/2025		9/2/2025		10/13/2025		11/10/2025		12/1/2025	
				DTW (ft-btc)	Elevation (feet msl)																						
EBG	25.00	27.20	524.87	8.7	516.2	8.5	516.4	8.4	516.5	8.6	516.3	8.7	516.2	8.4	516.5	8.8	516.1	9.1	515.8	9.4	515.5	9.6	515.3	9.7	515.2	12.51	512.4
EP-1	31.00	30.30	519.72	6.9	512.8	6.3	513.4	5.1	514.6	5.4	514.3	5.5	514.2	5.2	514.5	5.6	514.1	6.2	513.5	7.5	512.2	7.8	511.9	7.7	512.0	8.78	510.9
EP-2	15.00	17.05	513.79	5.4	508.4	5.2	508.6	4.7	509.1	5.2	508.6	5.9	507.9	6.6	507.2	7.8	506.0	8.1	505.7	12.0	501.8	10.1	503.7	9.8	504.0	11.84	502.0
EP-3	26.50	29.00	518.95	15.6	503.4	15.9	503.1	16.1	502.9	15.8	503.2	15.4	503.6	16.1	502.9	16.8	502.2	16.7	502.3	16.9	502.1	16.4	502.6	16.1	502.9	17.14	501.8
EP-4	18.50	20.90	519.74	6.9	512.8	7.9	511.8	8.0	511.7	7.7	512.0	7.6	512.1	7.4	512.3	7.0	512.7	6.7	513.0	6.4	513.3	6.8	512.9	7.1	512.6	8.21	511.5
EP-5	16.32	18.84	527.59	13.5	514.1	12.9	514.7	12.6	515.0	12.8	514.8	12.2	515.4	11.5	516.1	12.6	515.0	12.9	514.7	14.8	512.8	13.8	513.8	13.7	513.9	13.95	513.6
EP-6	13.62	16.24	505.11	4.8	500.3	3.9	501.2	3.0	502.1	3.2	501.9	3.1	502.0	2.9	502.2	3.5	501.6	3.8	501.3	4.5	500.6	4.1	501.0	3.9	501.2	3.25	501.9
EP-7	18.50	22.00	515.44	14.6	500.8	13.8	501.6	13.7	501.7	14.1	501.3	14.2	501.2	13.9	501.5	13.8	501.6	14.2	501.2	14.7	500.7	14.3	501.1	13.8	501.6	14.35	501.1

- Notes:
- 1.) MSL = mean sea level.
 - 2.) DTW = Depth to Water
 - 3.) ft-bgs = feet below ground surface
 - 4.) ft-btc = feet below top of casing

Created by: NN
 Checked by: DFSC
 Approved by: JF



Table 3: Analytical Data
Former Emery Pond
Southern Illinois Power Cooperative Marion Power Plant
Marion, Illinois

Well ID	Sample Date	EBG	EBG	EBG	EBG	EBG																
	Sample Purpose	Background	Corrective Action Monitoring																			
ANALYTE	Unit																					
Boron	mg/L	0.12	0.079	0.1	0.071	0.073	0.079	0.074	0.056	0.033	0.035	0.041	<0.08	<0.5	0.022	<0.5	<0.009	0.010 J	0.013 J	0.0225	0.019 J	0.012 J
Calcium	mg/L	23	10	30	23	32	37	35	35	14	15	13	15.2	12	13	15	13.3	12.1	11.6	11.9	13.1	10.9
Chloride	mg/L	55	11	84	68	79	27	86	82	12	16	12	18	7.2	12	13	22	17	12	15	18	10
Fluoride	mg/L	<0.029	<0.029	<0.029	<0.029	<0.029	0.64	<0.029	<0.029	0.53	0.55	0.5	<0.06	0.56	<0.5	0.46	0.6	0.58	0.67	0.58	0.52	0.61
pH	SU	6.5	6.8	6.41	6.45	6.53	6.59	6.66	6.26	6.35	6.57	6.85	6.21	6.54	6.5	6.57	6.61	6.58	6.95	6.78	6.55	6.6
Sulfate	mg/L	64	54	42	57	50	61	45	44	63	72	75	77	87	81	78	85	83	84	83	90	101
Total Dissolved Solids	mg/L	480	400	440	470	280	420	380	470	300	360	370	470	280	500	320	344	340	308	428	344	322
Antimony	mg/L	0.00057	0.00085 J	<0.0026	0.00069 J	0.0014 J	<0.0026	0.00022 J	<0.0026		<0.0016		<0.0016		<0.00052		<0.0010	<0.0010	<0.0200	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.002		<0.002		0.0011		<0.0010	<0.0010	<0.0200	<0.0010	0.0005 J	<0.0010
Barium	mg/L	0.13	0.029	0.17	0.049	0.086	0.19	0.18	0.16		0.091		<0.00011		0.068		0.0505	0.0469	0.0475	0.054	0.0506	0.0491
Beryllium	mg/L	0.00033 J	<0.0002	<0.00055	<0.0002	<0.0002	<0.00055	<0.0002	<0.00055		<0.00015	0.00038 J	<0.00015		<0.00011		<0.0010	<0.0010	<0.0200	<0.0010	<0.0010	<0.0010
Cadmium	mg/L	<0.0001	<0.00075	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015		<0.0015		<0.000018		<0.00002		<0.0010	<0.0010	<0.0200	<0.0010	<0.0010	<0.0010
Chromium	mg/L	0.0062	<0.0016	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031		<0.0031	<0.0026	<0.00014		0.0042		<0.0015	0.0011 J	<0.0300	0.0009 J	0.0007 J	<0.0015
Cobalt	mg/L	0.008	0.00016 J	0.014	0.00015 J	0.0014 J	0.0093	0.0038 J	0.0073		<0.00063	0.0038	<0.00063		0.0017		<0.0001	0.0003 J	<0.0200	0.0005 J	0.0003 J	0.0002 J
Lead	mg/L	<0.0008	<0.0013	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026		<0.0026	<0.0042	<0.00016		<0.0033		<0.0010	<0.0010	<0.0200	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.046 J	0.0074 J	<0.0042	0.028 J	0.059 J	<0.0042	0.082 J	<0.0042		<0.0042		<0.04		<0.0042		0.0207	0.0164	<0.0600	0.0162	0.0166	0.0141
Mercury	mg/L		<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019		<0.000093		<0.0001		<0.00019		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.0034 J	0.0043 J	<0.000095	0.0017 J	0.0016 J	<0.00095	0.0024 J	<0.00095		<0.00014		<0.00028		<0.000019		0.0145	0.0014 J	<0.0300	0.0014 J	0.0021	0.0012 J
Radium 226	pCi/L	0.878	<0.223	0.805	<0.262	<0.245	0.43	0.28	0.77		0.933		0.703		0.468			<0.21	0.104 J	0.215	<0.0495	<0.0129
Radium 228	pCi/L	1.06	<0.496	0.555	<0.0695	<0.371	0.98	1.24	2.22		0.447		0.911		0.514			1.02	<0.194	1.18	2.63	0.315 J
Radium, 226/228 Combined	pCi/L	1.938	<0.496	1.36	<0.262	<0.371	1.41	1.52	2.99		1.38		1.61		0.983			<1.23	<0.297	1.4	2.68	<0.328
Selenium	mg/L	0.0019 J	<0.0005	<0.0028	0.0036 J	0.0019 J	<0.0028	0.0028 J	0.007		<0.00033	0.00079 J	<0.00033		<0.00056		<0.0010	<0.0010	<0.0200	0.0007 J	0.0007 J	0.0006 J
Thallium	mg/L	<0.0007	<0.004	<0.0081	<0.0081	<0.0081	<0.0081	<0.0081	<0.0081		<0.0081	<0.01	<0.00015		<0.004		<0.0020	0.0054	<0.0400	<0.0020	<0.0020	<0.0020
Turbidity	NTU																9.95	28.65	13	16	15	3.5

Table 3: Analytical Data
Former Emery Pond
Southern Illinois Power Cooperative Ma
Marion, Illinois

Well ID	Sample Date	EBG	EP-1																			
		12/19/2022	3/21/2023	6/7/2023	9/18/2023	12/11/2023	3/12/2024	6/3/2024	9/4/2024	12/2/2024	3/3/2025	6/2/2025	9/2/2025	3/23/2017	4/3/2017	5/25/2017	6/22/2017	6/29/2017	7/24/2017	8/1/2017	8/31/2017	3/22/2018
Sample Purpose		Corrective Action Monitoring	Background																			
ANALYTE	Unit																					
Boron	mg/L	0.014 J	0.011 J	<0.0200	0.016 J	0.0097 J	0.013 J	0.011 J	<0.0200	<0.0200	0.0096 J	0.012 J	<0.0200	0.13	0.21	0.28	0.26	0.32	0.21	0.23	0.17	0.38
Calcium	mg/L	10.4	12	12.1	12.4	9.72	13.6 B	13.8	11.1	10.2	10.9	12.2	10.4	220	280	310	310	310	270	250	240	330
Chloride	mg/L	9	12	12	11	8	16	18	9.59	9.22	12.1	12.4	9.75	54	54	48	50	50	51	48	48	60
Fluoride	mg/L	0.68	0.58	0.57	0.63	0.69	0.55	0.44	0.52	0.56	0.55	0.57	0.67	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.25
pH	SU	Lab Error	6.83	6.4	6.69	6.68	6.71	6.59	6.71	6.97	6.77	6.56	6.67	6.94	6.89	6.55	6.52	6.64	6.57	6.82	6.79	6.25
Sulfate	mg/L	96	85	82	81	91	85	90 S	81.6	78.0	74.6	72.3	84.0	820	910	850	850	440	540	520	440	510
Total Dissolved Solids	mg/L	340 H	314	336	326	322	348	320	352	400	356	330	340	2000	2300	2300	2300	2200	2200	2100	2100	2400
Antimony	mg/L	<0.0010 B	<0.0010	<0.0010	<0.001	<0.0010	<0.0010	<0.0010	0.0008 J	<0.0010	<0.0010	<0.0010	<0.0010	0.00043 J	<0.0002	<0.0026	0.00057 J	0.00095 J	<0.0026	<0.0002	<0.0026	
Arsenic	mg/L	<0.0010	0.0004 J	0.0004 J	<0.0010	<0.0010	0.0004 J	<0.0010	0.0005 J	0.0005 J	<0.0010	<0.0010	<0.0010	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
Barium	mg/L	0.0434	0.0508	0.0441	0.0426	0.0433	0.056	0.0499	0.0495	0.0413	0.0502	0.0421	0.0428	0.045	0.04	0.041	0.032	0.033	0.029	0.028	0.026	
Beryllium	mg/L	<0.0010	<0.0010	0.0006 J	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0002	<0.0002	<0.00055	<0.0002	<0.0002	<0.00055	<0.0002	<0.00055	
Cadmium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0001	0.006	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Chromium	mg/L	<0.0015	0.0016	<0.0015	0.0008 J	<0.0015	0.0019	<0.0015	0.0012 J	<0.0015	<0.0015	0.0009 J	0.0029	<0.0001	<0.0016	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031
Cobalt	mg/L	0.0002 J	0.003 J	0.0008 J	<0.0010	0.0002 J	0.0002 J	<0.0010	0.0004 J	<0.0010	0.00020 J	<0.0010	<0.0010	0.0017 J	0.00079 J	<0.0018	0.00081 J	0.00057 J	<0.00018	0.00074 J	<0.00018	
Lead	mg/L	<0.0010	0.0017	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0008	<0.0013	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026
Lithium	mg/L	0.0166	0.0191	0.0241	0.0185	0.0141	0.0265	0.0203	0.0200	0.0159	0.0218	0.0177	0.0146	0.024 J	0.028 J	<0.0042	0.032 J	0.029 J	<0.1	0.024 J	<0.0042	
Mercury	mg/L	<0.00020	<0.00020	<0.00020	0.00007 J	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.0002
Molybdenum	mg/L	0.002	0.0019	0.0016	0.0052	0.0010 J	0.0016	0.0013 J	0.0015 J	0.0014 J	0.0012 J	0.0011 J	0.0009 J	0.0028 J	0.0016 J	<0.000095	0.00077 J	0.0018 J	<0.00095	0.0019 J	<0.00095	
Radium 226	pCi/L	<0.0672	0.180 J	0.444	<-0.04	<0.06	<0.04	<0.06	<0.04	<0.10	<1.00	<0.04	<-0.05	0.603	0.341	0.37	0.313	<0.139	0.16	0.38	0.24	
Radium 228	pCi/L	<-0.0292	0.968	1.09 J	0.12	3.21	0.69 J	<0.53	0.72 J	<0.38	<1.00	<0.20	<-0.54	<0.0552	0.55	<0.609	0.496	<0.0387	<0.27	1.04	1.15	
Radium, 226/228 Combined	pCi/L	<0.0672	1.15	1.53	0.12	3.27	<0.73	<0.59	<0.76	<0.48	<2.00	<0.24	<0.00	0.603	0.891	0.37	0.809	<0.139	0.16	1.42	1.39	
Selenium	mg/L	<0.0010	0.0009 J	0.0011	0.0012	<0.0010	0.0006 J	0.0007 J	<0.0010	<0.0010	0.0009 J	0.0008 J	<0.0010	0.0012 J	0.0014 J	<0.0028	0.005 J	0.0025 J	<0.0028	0.0011 J	<0.0028	
Thallium	mg/L	<0.0020	<0.0020	0.0012 J	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0019 J	<0.0007	<0.004	<0.0081	<0.01	<0.010	<0.010	<0.010	<0.010	
Turbidity	NTU	Lab Error	<1.0	1.8	11	6.6	4.8	6.4	60	61	5.2	10	3.4									



Table 3: Analytical Data
Former Emery Pond
Southern Illinois Power Cooperative Ma
Marion, Illinois

Well ID	Sample Date	EP-1 8/27/2018	EP-1 1/11/2019	EP-1 6/27/2019	EP-1 1/30/2020	EP-1 6/22/2020	EP-1 1/21/2021	EP-1 5/31/2021	EP-1 8/30/2021	EP-1 12/21/2021	EP-1 3/7/2022	EP-1 5/24/2022	EP-1 9/6/2022	EP-1 12/20/2022	EP-1 3/15/2023	EP-1 5/24/2023	EP-1 6/6/2023	EP-1 9/18/2023	EP-1 12/11/2023	EP-1 3/13/2024	EP-1 6/3/2024	EP-1 9/4/2024	EP-1 12/2/2024
Sample Purpose	Background	Background	Background	Background	Background	Background	Corrective Action Monitoring	Corrective Action Monitoring- Resample	Corrective Action Monitoring														
ANALYTE	Unit																						
Boron	mg/L	0.92	0.75	1.12	1.1	0.92	1	0.816	0.931	1.07	0.914	0.991	1.16	1.06	0.968 O	0.986	0.945	1.29	1.17	1.05	1.19	1.50	1.56
Calcium	mg/L	410	410	444	540	470	460	478	483	506	474	508	476	523	523 O	505	499	548	477	548	554	579	535
Chloride	mg/L	63	70	55	52	34	39	44	48	46	44	38	35	38	32 O	30	30	28	33	40	49	49.0	45.6
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	<0.5	<0.2	0.22	0.19	0.24	0.19	0.18	0.21	0.24	0.2 O	0.22	0.21	0.29	0.27	0.23	0.2	0.10 J	< 0.50
pH	SU	6.36	6.33	6.2	7.39	6.15	6.29	6.18	6.12	6.37	6.19	6.2	6.21	Lab Error	6.31 O	6.19	6.31	6.47	6.08	6.32	6.17	6.21	6.31
Sulfate	mg/L	1000	1600	1500	1700	1400	1400	1450	1640	1480	1600	1470	1570	1580	1490 O	1520	1430	1430	1430	1530	1540	1590	1560
Total Dissolved Solids	mg/L	2700	2800	550	2700	2700	2500	2500	2520	2510	2650	2530	2600	2460 H	2350 O	2010	2370	2460	2510	2540	2480	2580	2640
Antimony	mg/L	<0.0016		<0.0016		<0.0026		<0.0010	0.0005 J	<0.0200	<0.0010	<0.0010	<0.0010	<0.0010 B	<0.0010 O	<0.0010	<0.0010	<0.0010	0.0005 J	<0.0010	<0.0010	0.0005 J	< 0.0010
Arsenic	mg/L	<0.002		<0.002		<0.0014		<0.0010	0.0005 J	<0.0200	0.0004 J	<0.0010	0.0004 J	<0.0010	0.0008 JO	0.0007 J	0.0009 J	0.006 J	0.0006 J	0.0007 J	<0.0010	0.0004 J	0.0006 J
Barium	mg/L	0.023		<0.00011		0.019		0.0216	0.02	0.0193	0.0171	0.017	0.017	0.0158	0.0197 O	0.0163	0.0154	0.0196	0.0194	0.0146	0.0169	0.0228	0.0155
Beryllium	mg/L	<0.00015	<0.00055	<0.00015		<0.00055		<0.0010	<0.0010	<0.0200	<0.0010	<0.0010	<0.0010	0.0006 J	<0.0010 O	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	< 0.0010
Cadmium	mg/L	<0.0015		<0.000018		<0.00002		<0.0010	<0.0010	<0.0200	0.0002 J	<0.0010	<0.0010	<0.0010	<0.0010 O	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	< 0.0010
Chromium	mg/L	<0.0031	<0.0026	<0.00014		<0.0011		<0.0020	0.0019	<0.0300	<0.0015	<0.0015	<0.0015	0.0026	<0.0015 O	<0.0015	<0.0015	<0.0015	0.0015 J	<0.0015	<0.0015	0.0010 J	0.0191
Cobalt	mg/L	<0.00063	0.00056 J	<0.00063		<0.00018		0.0012	0.0010 J	<0.0200	<0.0010	0.0002 J	<0.0010	0.0004 J	0.0002 JO	0.0003 J	<0.0010	0.003 J	0.0005 J	0.0002 J	<0.0010	0.0004 J	0.0001 J
Lead	mg/L	<0.0026	<0.0042	<0.00016		<0.0033		<0.0010	<0.0010	<0.0200	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010 O	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0020
Lithium	mg/L	<0.0042		<0.04		<0.0042		0.0141	0.0127	<0.0600	0.012	0.0103	0.012	0.0139	0.0133 O	0.0111	0.0136	0.0099	0.0143	0.0142	0.009	0.0145	0.0113
Mercury	mg/L	<0.000093		<0.0001		<0.00019		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020 O	<0.00020	<0.00020	0.00007 J	<0.00020	<0.00020	<0.00020	< 0.00020	
Molybdenum	mg/L	<0.00014		<0.00028		<0.000095		<0.0015	<0.0015	<0.0300	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015 O	<0.0015	<0.0015	<0.0015	0.0008 J	<0.0015	<0.0015	<0.0015	0.0034
Radium 226	pCi/L	0.453		0.619		0.42		<0.04	0.501	0.260 J	<0.0628	0.265 J	0.144 J	0.227 J			<0.0926	0.13	<0.04	<0.01	<0.17	<-0.04	< 0.08
Radium 228	pCi/L	0.992		0.0905		0.405		1.78	<0.255	0.439 J	0.888	<-0.449	0.326 J	0.726			<-0.248	1.28	1.9	1.43	0.75 J	<0.45	0.71 J
Radium, 226/228 Combined	pCi/L	1.445		0.71		0.825		<1.82	0.756 J	0.699	0.95	<0.265	0.470	0.953			<0.0926	1.41	<1.94	<1.44	<0.92	<0.45	< 0.79
Selenium	mg/L	<0.00033	<0.0028	<0.00033		<0.0028		0.0015	0.0014	<0.0200	0.0017	0.0026	0.0015	0.0021	0.0051 O	0.0073	0.0082	0.0025	0.0024	0.0047	0.0033	0.0007 J	0.0015
Thallium	mg/L	<0.0081	<0.01	<0.00015		<0.004		<0.0020	0.0042	<0.0400	<0.0200	<0.0020	<0.0020	<0.0020	<0.0020 O	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	< 0.0020
Turbidity	NTU							49.8	22.65	13	5	<1.0	<1.0	Lab Error	<1.0 O	1.6	<1.0	6.1	4.6	9.2	5.4	5.7	4.0



Table 3: Analytical Data
Former Emery Pond
Southern Illinois Power Cooperative Ma
Marion, Illinois

Well ID	Sample Date	EP-1 3/3/2025	EP-1 6/3/2025	EP-1 9/2/2025	EP-2 3/23/2017	EP-2 4/3/2017	EP-2 5/25/2017	EP-2 6/22/2017	EP-2 6/29/2017	EP-2 7/24/2017	EP-2 8/1/2017	EP-2 8/31/2017	EP-2 3/22/2018	EP-2 8/27/2018	EP-2 1/11/2019	EP-2 6/27/2019	EP-2 1/30/2020	EP-2 6/22/2020	EP-2 1/21/2021	EP-2 5/31/2021	EP-2 8/30/2021	EP-2 12/22/2021
Sample Purpose	Corrective Action Monitoring	Corrective Action Monitoring	Corrective Action Monitoring	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Corrective Action Monitoring	Corrective Action Monitoring	Corrective Action Monitoring
ANALYTE	Unit																					
Boron	mg/L	1.10	1.19	1.24	0.22	0.19	0.2	0.23	0.29	0.26	0.31	0.23	0.24	0.2	0.37	0.274	0.56	0.47	0.49 J	0.544	0.499	0.33
Calcium	mg/L	487	526	500	190	170	200	200	470	200	190	180	230	190	280	236	430	360	340	372	363	299
Chloride	mg/L	36.8	46.8	39.9	42	39	36	37	36	36	36	36	30	35	25	29	13	19	28	29	34	43
Fluoride	mg/L	0.13 J	0.19 J	0.20 J	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.25	<0.06	<0.06	<0.06	<0.06	<0.5	0.28	0.62	0.4	0.36
pH	SU	6.31	6.23	6.24	6.18	6.39	6.31	6.1	5.75	5.86	5.88	6.33	6.27	6.28	6.62	6.18	6.46	5.81	6.37	5.74	5.91	6.32
Sulfate	mg/L	1480	1550	1500	860	660	780	780	470	430	770	340	420	740	1100	1100	1100	1200	1300	1370	1590	1250
Total Dissolved Solids	mg/L	2510	2500	2480	1800	1800	1900	1800	1900	1800	1800	1800	1700	1800	1900	400	1900	2200	2300	2120	2370	2090
Antimony	mg/L	< 0.0010	< 0.0010	< 0.0010	0.00029 J	<0.0002	<0.0026	0.0004 J	0.00073 J	<0.0026	<0.0002	<0.0026	<0.0016	<0.0016	<0.0016	<0.0016	<0.00052	<0.0010	<0.0010	<0.0010	<0.0010	<0.0200
Arsenic	mg/L	< 0.0010	< 0.0010	< 0.0010	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.00027	<0.0010	0.0005 J	<0.0010	<0.0010	<0.0200
Barium	mg/L	0.0165	0.0162	0.0161	0.039	0.035	0.038	0.03	0.029	0.025	0.025	0.025		0.018		<0.00011	0.019		0.0146	0.0198	0.0168	
Beryllium	mg/L	< 0.0010	< 0.0010	< 0.0010	<0.0002	<0.0002	<0.00055	<0.0002	<0.0002	<0.00055	<0.0002	<0.00055	<0.00015	<0.00015	<0.00055	<0.0016	<0.00011		0.0011	0.0003 J	<0.0200	
Cadmium	mg/L	< 0.0010	< 0.0010	< 0.0010	<0.0001	<0.00075	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.000018	<0.00002		0.0015	0.0016	<0.0200	
Chromium	mg/L	< 0.0015	< 0.0015	< 0.0015	<0.0001	<0.0016	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031			<0.0026	<0.00014		<0.0011	<0.0015	<0.0015	<0.0300	
Cobalt	mg/L	0.0004 J	< 0.0010	0.0002 J	0.052	0.029	0.023	0.016	0.0087	<0.00018	0.00086 J	<0.00018		<0.00063	0.0007 J	<0.00063		<0.000037	0.0017	0.0052	<0.0200	
Lead	mg/L	< 0.0010	< 0.0010	< 0.0010	<0.0008	<0.0013	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026		<0.0026	<0.0042	<0.00016		<0.0033	<0.0010	0.0007 J	<0.0200	
Lithium	mg/L	0.0092	0.0077	0.0088	0.018 J	0.015 J	<0.0042	0.020 J	0.025 J	<0.1	0.021 J	<0.0042		<0.0042		<0.04		<0.0042	0.0206	0.0148	<0.0600	
Mercury	mg/L	< 0.00020	< 0.00020	< 0.00020		<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.0002		<0.000093		<0.0001		<0.00019	<0.00020	<0.00020	0.00006 J	
Molybdenum	mg/L	< 0.0015	< 0.0015	< 0.0015	0.0015 J	0.0017 J	<0.000095	0.0003 J	0.00055 J	<0.00095	0.00082 J	<0.00095		<0.00014		<0.00028		<0.000019	<0.0015	<0.0015	<0.0300	
Radium 226	pCi/L	< 1.00	< 0.13	< 0.06	<0.187	0.338	<0.177	0.197	1.9	0.08	0.14	0.08		0		<0.149		0.0467		<0.02	0.228 J	
Radium 228	pCi/L	1.02	0.67 J	< 0.13	0.853	<0.0622	<0.126	<0.127	<0.458	0.4	1.35	0.64		0.443		0.553		0.176		2.51	<0.145	
Radium, 226/228 Combined	pCi/L	< 2.00	< 0.80	< 0.19	0.853	0.338	<0.177	0.197	1.9	0.48	1.49	0.72		0.443		0.553		0.222		2.53	0.374 J	
Selenium	mg/L	0.0035	0.0038	0.001	0.0038 J	0.0027 J	<0.0028	0.0074	0.0061	0.0054	0.0046 J	<0.0028		<0.00033	0.0055	<0.00033		0.0031	<0.0010	<0.0010	<0.0200	
Thallium	mg/L	< 0.0020	< 0.0020	0.0011 J	<0.0007	<0.004	<0.0081	<0.0081	<0.0081	<0.0081	<0.0081	<0.0081		<0.0081	<0.01	<0.00015		<0.004	<0.0020	0.009	<0.0400	
Turbidity	NTU	5.0	2.1	1.9															7.34	9.98	1.5	



Table 3: Analytical Data
Former Emery Pond
Southern Illinois Power Cooperative Ma
Marion, Illinois

Well ID	Sample Date	EP-2 3/7/2022	EP-2 5/24/2022	EP-2 9/7/2022	EP-2 12/20/2022	EP-2 3/21/2023	EP-2 5/24/2023	EP-2 6/6/2023	EP-2 9/20/2023	EP-2 12/12/2023	EP-2 3/13/2024	EP-2 6/4/2024	EP-2 9/4/2024	EP-2 12/3/2024	EP-2 3/3/2025	EP-2 6/3/2025	EP-2 9/3/2025	EP-3 3/23/2017	EP-3 4/3/2017	EP-3 5/25/2017	EP-3 6/22/2017	EP-3 6/29/2017	EP-3 7/24/2017
Sample Purpose	Corrective Action Monitoring	Corrective Action Monitoring-Resample	Corrective Action Monitoring	Background	Background	Background	Background	Background	Background														
ANALYTE	Unit																						
Boron	mg/L	0.508	0.48	0.408	0.276	0.359 O	0.418	0.372		0.274	0.418	0.754	0.403	0.282	0.419	0.632	0.381	0.11	0.089	0.081	0.057	0.085	0.083
Calcium	mg/L	406	347	349	306	328 O	318	340		293	473	381	514	352	356	372	451	34	29	45	93	30	32
Chloride	mg/L	30	33	44	52	29 O	31	35		62	64	40	67.6	69.1	50.6	53.7	79.8	100	120	140	220	66	110
Fluoride	mg/L	0.69	0.92	0.47	0.39	1.47 O	1.7	1.57		0.33	0.94	1.19	0.20 J	< 0.50	2.16	2.40	0.58	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029
pH	SU	5.86	5.97	6.19	Lab Error	5.96 O	5.48	6.3		6.23	6.06	5.71	6.2	6.42	5.24	5.19	6.30	5.99	5.96	6.03	6.08	6.01	5.96
Sulfate	mg/L	1630	1700	1760	1350	1750 O	1690	1700		1260	2050	1540	2420	1760	1850	1930	2310	120	180	190	300	73	130
Total Dissolved Solids	mg/L	2480	2460	2580	2220 H	2480 O	2380	2570		2270	3250	2260	3890	3190	2830	2810	3690	680	820	1400	560	570	720
Antimony	mg/L	<0.0010	<0.0010	<0.0010	<0.0010 B	<0.0050 O	<0.0040	<0.0040		<0.0010	<0.0010	0.0005 J	<0.0010	< 0.0010	< 0.0010	< 0.0010	0.0007 J	0.00022 J	<0.0002	<0.0026	0.00026 J	0.00091 J	<0.0026
Arsenic	mg/L	<0.0010	0.0013	0.0016	0.0006 J	<0.0010 O	0.0009 J	0.0023		0.0029	0.0007 J	0.0014	0.0033	0.0025	0.0035	0.0017	0.0032	<0.0014	0.0088	0.0076	0.0061	<0.0014	0.0093
Barium	mg/L	0.0151	0.0208	0.0205	0.017	0.022 O	0.0185	0.0189		0.0213	0.0154	0.0189	0.0255	0.0164	0.0167	0.0149	0.0240	0.072	0.059	0.059	0.061	0.065	0.064
Beryllium	mg/L	0.0019	0.0056	<0.0010	<0.0010	0.0056 O	0.0082	0.0092		<0.0010	0.0021	0.0049	<0.0010	< 0.0010	0.0105	0.0111	0.0004 J	<0.0002	<0.0002	<0.00055	<0.0002	<0.0002	<0.00055
Cadmium	mg/L	0.0014	0.0003 J	0.0003 J	0.0002 J	0.0009 JO	0.0002 J	<0.0010		0.0009 J	0.0014	0.0003 J	<0.0010	< 0.0010	0.0006 J	0.0003 J	< 0.0010	<0.0001	<0.00075	<0.0015	<0.0015	<0.0015	<0.0015
Chromium	mg/L	<0.0015	<0.0015	<0.0015	<0.0015	0.0018 O	0.0009 J	<0.0015		0.0009 J	0.0017	0.0025	0.0201	< 0.0015	< 0.0015	0.0013 J	< 0.0015	<0.0001	<0.0016	<0.0031	<0.0031	<0.0031	<0.0031
Cobalt	mg/L	0.0159	0.211	0.0325	0.0218	0.115 O	0.273	0.301		0.0467	0.053	0.162	0.0477	0.0150	0.2240	0.2930	0.0318	0.11	0.12	0.091	0.037	0.11	0.12
Lead	mg/L	<0.0010	<0.0020	<0.0010	<0.0010	<0.0050 O	<0.0040	<0.0040		<0.0010	<0.0010	<0.0010	<0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	<0.0008	0.0056	<0.0026	<0.0026	<0.0026	<0.0026
Lithium	mg/L	0.0196	0.0381	0.0123	0.0129	0.0446 O	0.0518	0.0725		0.0153	0.0291	0.0311	0.0197	0.0106	0.0503	0.0586	0.0199	<0.003	0.0095 J	<0.0042	0.12	0.012 J	<0.1
Mercury	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020 O	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020		<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Molybdenum	mg/L	<0.0015	<0.0015	0.0009 J	0.0011 J	<0.0015 O	<0.0015	<0.0015		0.0017	<0.0015	0.0009 J	0.0007 J	< 0.0015	< 0.0015	< 0.0015	0.0037	0.00037 J	0.00045 J	<0.000095	<0.0002	<0.0002	<0.00095
Radium 226	pCi/L	<0.0315	<0.0325	0.365	<0.0328	<-0.0164		0.182 J		<0.23	<0.21	<0.25	<0.37	< 0.41	< 1.00	< 0.52	< 0.24	1.64	0.715	1	0.366	0.317	0.19
Radium 228	pCi/L	<0.426 J	0.933	0.899	<0.0435	2.0		<0.162		1.85	0.84 J	0.96 J	1.44	0.75 J	1.88	1.35	< 0.37	<0.438	1.92	<0.633	0.42	<0.397	0.77
Radium, 226/228 Combined	pCi/L	<0.458 J	0.965	1.26	<0.0763	2.0		<0.343		2.08	<1.05	<1.21	<1.81	< 1.16	< 2.00	< 1.87	< 0.61	1.64	2.635	1	0.786	0.317	0.96
Selenium	mg/L	<0.0010	<0.0010	<0.0010	0.0008 J	<0.0010 O	<0.0010	<0.0010		<0.0010	0.0028	<0.0010	<0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.013	0.011	0.016	0.028	0.013	0.016
Thallium	mg/L	<0.0020	<0.0040	<0.0020	<0.0020	<0.0100 O	<0.0080	<0.0080		<0.0020	<0.0020	<0.0020	<0.0020	< 0.0020	< 0.0020	< 0.0020	0.0012 J	<0.0007	<0.004	<0.0081	<0.0081	<0.0081	<0.0081
Turbidity	NTU	4.9	4.3	<1.0	Lab Error	4.48 O	<1.0	8.2		5	3	3.2	4.8	6.2	5.8	2.8	4.0						

DRY



Table 3: Analytical Data
Former Emery Pond
Southern Illinois Power Cooperative Ma
Marion, Illinois

Well ID	EP-3	EP-3	EP-3	EP-3	EP-3	EP-3	EP-3	EP-3	EP-3	EP-3	EP-3	EP-3										
Sample Date	8/1/2017	8/31/2017	3/22/2018	8/27/2018	1/11/2019	6/27/2019	1/30/2020	6/22/2020	1/21/2021	5/31/2021	8/30/2021	12/22/2021	3/8/2022	5/25/2022	9/7/2022	12/20/2022	3/21/2023	5/24/2023	6/6/2023	9/20/2023	12/12/2023	
Sample Purpose	Background	Corrective Action Monitoring	Corrective Action Monitoring-Resample	Corrective Action Monitoring	Corrective Action Monitoring	Corrective Action Monitoring																
ANALYTE	Unit																					
Boron	mg/L	0.09	0.09	0.078	0.082	0.033	<0.08	<0.5	0.024	<0.25	0.0556	0.075	0.0501	0.0702	0.067	0.0708	0.063	0.0615 O	0.069	0.0586	0.0611	0.0724
Calcium	mg/L	34	33	34	38	94	76.3	40	80	66	40.6	35.5	58.9	36.3	40.1	36.2	42.8	35.7 O	39.1	36.1	52.6	43.4
Chloride	mg/L	120	110	110	140	240	150	140	330	230	127	129	183	145	157	147	157	127 O	152	141	144	148
Fluoride	mg/L	<0.029	<0.029	<0.25	<0.06	<0.06	<3	<0.06	<0.5	0.35	0.22	0.17	0.51	0.2	0.19	0.21	0.23	0.16 O	0.19	0.19	0.25	0.22
pH	SU	6.02	6.13	6.1	6.1	6.11	5.98	6.31	6.01	6.24	6.13	6.07	6.41	6.17	6.04	6.05	Lab Error	6.33 O	6.11	6.05	6.26	6.08
Sulfate	mg/L	140	110	110	150	340	160	190	410	300	148	114	178	153	160	151	170	83 O	141	129	158	128
Total Dissolved Solids	mg/L	630	1000	700	690	750	580	750	960	1500	692	672	812	762	728	670	650 H	535 O	735	735	770	685
Antimony	mg/L	<0.0002	<0.0026		<0.0016		<0.0016		<0.00052		<0.0010	<0.0010	<0.0200	<0.0010	<0.0010	<0.0010	<0.0010 B	0.0019 O	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.0062	0.0069		<0.002		0.0057 J	0.0067	0.0059	<0.05	0.0075	0.0076	<0.0200	0.0068	0.0075	0.007	0.0083	0.0173 O	0.0063	0.009	0.0073	0.0116
Barium	mg/L	0.057	0.058		0.064		<0.00011		0.041		0.0819	0.101	0.084	0.0851	0.0846	0.0855	0.0836	0.168 O	0.0949	0.0973	0.0772	0.0825
Beryllium	mg/L	<0.0002	<0.00055		<0.00015	0.00033 J	<0.00015		<0.00011		<0.0010	<0.0010	<0.0200	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010 O	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	mg/L	<0.0015	<0.0015		<0.0015		<0.000018		<0.00002		<0.0010	<0.0010	<0.0200	<0.0010	<0.0010	<0.0010	<0.0010	0.0004 JO	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	mg/L	<0.0031	<0.0031		<0.0031	<0.0026	<0.00014		<0.0011		<0.0015	<0.0015	<0.0300	0.0015 J	<0.0015	<0.0015	<0.0015	0.0067 O	<0.0015	0.0011 J	<0.0015	<0.0015
Cobalt	mg/L	0.1	0.11		0.088	0.044	0.032	0.087	0.047	0.031	0.0912	0.0882	0.0472	0.0947	0.121	0.104	0.0846	0.0795 O	0.0939	0.124	0.0841	0.12
Lead	mg/L	<0.0026	<0.0026		<0.0026	<0.0042	<0.00016		<0.0033		<0.0010	<0.0010	<0.0200	<0.0010	<0.0010	<0.0010	<0.0010	0.0028 O	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.028 J	<0.0042		<0.0042		0.119		0.12		0.0314	0.0169	0.0736	0.0267	0.0321	0.027	0.0425	0.0053 O	0.0317	0.0311	0.0694	0.0555
Mercury	mg/L	<0.00019	<0.0002		<0.000093		<0.0001		<0.00019		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00018 JO	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.00047 J	<0.00095		<0.00014		<0.00028		<0.000019		<0.0015	<0.0015	<0.0300	<0.0015	<0.0015	<0.0015	0.0007 J	0.0014 JO	<0.0015	<0.0015	<0.0015	0.0008 J
Radium 226	pCi/L	0.43	0.41		0.679		0.0839		0.513		<0.27	0.196 J	0.365	0.132 J	0.141 J	0.551	0.606		0.302	<0.12	<0.12	
Radium 228	pCi/L	2.42	0.77		0.717		0.477		0.304		<0.5	0.768	0.765	1.47	<0.0	1.04	1.25		0.704 J	0.76 J	1.71	
Radium, 226/228 Combined	pCi/L	2.88	1.18		1.396		0.561		0.817		<0.77	0.964	1.13	1.6	<0.141	1.59	1.86		1.01 J	0.76 J	<1.83	
Selenium	mg/L	0.012	0.022		<0.00033	<0.0028	<0.00033		<0.00056		<0.0010	<0.0010	<0.0200	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010 O	<0.0010	0.0008 J	0.0007 J	0.0008 J
Thallium	mg/L	<0.0081	<0.0081		<0.0081	<0.01	<0.00015		<0.004		<0.0020	0.0019 J	<0.0400	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020 O	<0.0020	0.0018 J	<0.0020	<0.0020
Turbidity	NTU										9.96	6.84	4.2	4.9	1.7	0.42	Lab Error	114.1 O	<1.0	1.9	8.9	5.6

Table 3: Analytical Data
Former Emery Pond
Southern Illinois Power Cooperative Ma
Marion, Illinois

Well ID	Sample Date	EP-3 3/14/2024	EP-3 6/4/2024	EP-3 9/5/2024	EP-3 12/2/2024	EP-3 3/3/2025	EP-3 6/4/2025	EP-3 9/3/2025	EP-4 3/23/2017	EP-4 4/3/2017	EP-4 5/25/2017	EP-4 6/22/2017	EP-4 6/29/2017	EP-4 7/24/2017	EP-4 8/1/2017	EP-4 8/31/2017	EP-4 3/22/2018	EP-4 8/27/2018	EP-4 1/11/2019	EP-4 6/27/2019	EP-4 1/30/2020	EP-4 6/22/2020
Sample Purpose		Corrective Action Monitoring	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background						
ANALYTE	Unit																					
Boron	mg/L	0.0676	0.0437	0.0587	0.0615	0.0237	0.0587	0.0706	14	23	14	11	13	11	14	11	13	11	15	11.5	11	9.9
Calcium	mg/L	35.4 S	67.6	42.5 S	33.0	87.7	35.5	36.1	190	170	170	150	190	160	150	150	200	150	140	159	170	150
Chloride	mg/L	136	231	151	136	279	132	154	460	290	380	430	250	180	210	210	200	310	420	440	370	380
Fluoride	mg/L	0.19	0.35	0.10 J	< 0.50	0.40 J	0.16 J	0.19 J	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.25	<0.5	<0.06	<0.06	<0.06	<0.5
pH	SU	6.18	6.17	6.04	6.29	6.17	6.05	6.09	5.51	5.88	5.77	5.8	5.81	5.8	5.8	5.85	6.04	5.85	6.07	5.86	5.94	5.79
Sulfate	mg/L	105	280	123	110	302	105	98.7	620	530	660	730	410	290	330	340	320	520	750	710	630	610
Total Dissolved Solids	mg/L	650	1170	815	940	1330	620	709	2300	2300	2400	2000	2100	2300	2200	2300	2100	1900	2000	130	2000	2500
Antimony	mg/L	<0.0010	<0.0010	0.0015	< 0.0010	< 0.0010	< 0.0010	0.0005 J	0.00028 J	<0.0002	<0.0026	0.00033 J	0.00051 J	<0.0026	<0.0002	<0.0026		<0.0016		<0.0016		<0.00052
Arsenic	mg/L	0.0085	0.0071	0.0079	0.0102	0.0036	0.007	0.0082	0.035	0.039	0.037	0.053	0.044	0.044	0.035	0.049		<0.002		0.026 J	0.019	0.014
Barium	mg/L	0.097	0.0603	0.0873	0.0905	0.0778	0.0946	0.101	0.035	0.026	0.028	0.029	0.037	0.026	0.031	0.023		0.023		<0.00011		0.027
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	<0.0002	<0.0002	<0.00055	<0.0002	<0.0002	<0.00055	<0.0002	<0.00055			<0.00055	<0.00015		<0.00055
Cadmium	mg/L	<0.0010	<0.0010	<0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	<0.0001	0.0052	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015		<0.0015		<0.00018		<0.00002
Chromium	mg/L	<0.0015	<0.0015	<0.0015	0.0023	0.0036	0.0010 J	0.0021	<0.0001	<0.0016	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031		0.011	<0.0026	<0.00014		<0.0011
Cobalt	mg/L	0.0888	0.0835	0.0802	0.0898	0.0249	0.0858	0.0786	0.39	0.41	0.41	0.44	0.34	0.41	0.42	0.38		0.31	0.41	0.28	0.26	0.33
Lead	mg/L	<0.0010	<0.0010	<0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.009	0.013	0.011	0.017	<0.0026	0.011	0.012	0.012		0.015	<0.0042	<0.00016		0.018
Lithium	mg/L	0.0196	0.107	0.0382	0.0241	0.1390	0.0225	0.0210	0.0044 J	0.0062 J	<0.0042	0.0047 J	0.0063 J	<0.1	0.0053 J	<0.0042		<0.0042		<0.04		<0.0042
Mercury	mg/L	<0.00020	<0.00020	<0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020		<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.0002		<0.000093		<0.0001		<0.00019
Molybdenum	mg/L	<0.0015	0.0008 J	0.0013 J	0.0007 J	0.0007 J	< 0.0015	0.0006 J	0.00092 J	0.0011 J	<0.00095	<0.0002	0.00058 J	<0.00095	0.0010 J	<0.00095		<0.00014		<0.00028		<0.000019
Radium 226	pCi/L	<0.4	<0.22	<0.1	< 0.20	< 1.00	< 0.20	< 0.30	1.1	1.17	<0.0457	0.18	<0.219	0.3	0.15	0.33		0.262		0.77		0.163
Radium 228	pCi/L	<0.27	0.72 J	1.38	< 0.67	1.69	1.06	< 0.42	<0.442	<0.353	0.864	0.897	<0.490	0.44	0.96	2.14		0.79		0.929		0.41
Radium, 226/228 Combined	pCi/L	<0.67	<0.94	<1.48	< 0.87	< 2.00	< 1.26	< 0.72	1.1	1.17	0.864	1.077	<0.490	0.74	1.11	2.47		1.052		1.7		0.573
Selenium	mg/L	0.0009 J	<0.0010	0.0007 J	< 0.0010	< 0.0010	< 0.0010	0.0007 J	0.13	0.12	0.13	0.2	0.13	0.13	0.11	0.16		0.021	<0.0028	<0.00033		0.0012
Thallium	mg/L	<0.0020	<0.0020	<0.0020	< 0.0020	< 0.0020	< 0.0020	0.0017 J	<0.0007	0.065	0.092	0.094	0.058	<0.0081	0.075	0.075		0.14	0.18	<0.00015		<0.004
Turbidity	NTU	3.1	4.6	3.5	7.1	4.7	2.7	7.0														



Table 3: Analytical Data
Former Emery Pond
Southern Illinois Power Cooperative Ma
Marion, Illinois

Well ID	Sample Date	EP-5	EP-5	EP-5	EP-5	EP-5	EP-5	EP-5	EP-5	EP-5	EP-5	EP-5	EP-5	EP-5	EP-5	EP-5	EP-6	EP-6	EP-6	EP-6	EP-6
Sample Purpose		5/24/2022	9/6/2022	12/20/2022	3/15/2023	5/24/2023	6/7/2023	9/20/2023	12/11/2023	3/13/2024	6/3/2024	9/4/2024	12/2/2024	3/3/2025	6/2/2025	9/2/2025	12/22/2021	3/8/2022	5/24/2022	9/6/2022	12/20/2022
		Corrective Action Monitoring	Corrective Action Monitoring	Corrective Action Monitoring	Corrective Action Monitoring	Corrective Action Monitoring-Resample	Corrective Action Monitoring														
ANALYTE	Unit																				
Boron	mg/L	0.0254	0.0222	0.0258	0.0205 O	0.012 J	0.014 J		0.014 J	<0.0200	0.013 J	0.012 J	0.011 J	0.0097 J	< 0.0200	< 0.0200	0.0252	<0.0200	<0.0200	<0.0200	<0.0200
Calcium	mg/L	21	16.7	17.5	18.8 O	16.6	16.3		13.5	14.6	17.8 S	15.9	13.2	14.4	14.4	13.8	4.24	1.92	1.65	1.86	1.69
Chloride	mg/L	3	3 J	3 J	3 JO	3 J	3 J		3 J	3 J	3 J	2.6 J	2.9 J	3.0 J	3.1 J	3.2 J	25	23	24	23	23
Fluoride	mg/L	0.38	0.38	0.51	0.4 O	0.44	0.41		0.45	0.54	0.35	0.29 J	0.39 J	0.38 J	0.45 J	0.50	0.06 J	0.06 J	0.06 J	0.07 J	0.06 J
pH	SU	6.55	6.44	Lab Error	6.95 O	6.46	6.48		6.66	6.67	6.48	6.49	6.65	6.81	6.44	6.61	5.28	5.1	5.07	5.09	Lab Error
Sulfate	mg/L	132	114	116	125 O	113	128		104	105	125	99.3	88.8	98.0	94.5	92.4	48	67	63	64	56
Total Dissolved Solids	mg/L	322	282	282 H	262 O	296	286		264	268	252	274	360	272	246	282	192	254	238	216	206 H
Antimony	mg/L	<0.0010	<0.0010	<0.0010 B	<0.0010 O	<0.0010	<0.0010		0.0006 J	<0.0010	<0.0010	<0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	<0.0200	<0.0010	<0.0010	<0.0010	<0.0010 B
Arsenic	mg/L	<0.0010	<0.0010	<0.0010	<0.0010 O	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010	<0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	<0.0200	<0.0010	<0.0010	<0.0010	<0.0010
Barium	mg/L	0.0529	0.0506	0.0422	0.0533 O	0.0514	0.0482		0.0434	0.0405	0.0551	0.0527	0.0427	0.0470	0.0470	0.0441	0.043	0.0345	0.034	0.0366	0.0475
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010 O	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010	0.0004 J	< 0.0010	< 0.0010	< 0.0010	< 0.0010	<0.0200	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010 O	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010	<0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	<0.0200	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	mg/L	<0.0015	<0.0015	0.0014 J	0.0008 JO	0.002	<0.0015	DRY	0.004	0.0013 J	0.0011 J	0.0015 J	0.0043	0.0009 J	0.0022	0.0037	<0.0300	0.0013 J	0.0008 J	<0.0015	0.0009 J
Cobalt	mg/L	<0.0010	<0.0010	0.0002 J	<0.0010 O	0.0002 J	<0.0010		0.0008 J	<0.0010	<0.0010	0.0003 J	< 0.0010	< 0.0010	< 0.0010	0.0002 J	0.0040 J	0.0017	0.0007 J	0.0018	0.0068
Lead	mg/L	<0.0010	<0.0010	<0.0010	<0.0010 O	<0.0010	<0.0010		0.0006 J	<0.0010	<0.0010	<0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	<0.0200	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.0023 J	0.0023 J	0.0026 J	0.0029 JO	0.0027 J	0.0026 J		0.0029 J	0.0025 J	0.0031	0.0045	0.0026 J	0.0034	0.0030	0.0030	<0.0600	0.0113	0.011	0.0094	0.0066
Mercury	mg/L	<0.00020	<0.00020	<0.00020	<0.00020 O	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020	0.00014 J	< 0.00020	< 0.00020	< 0.00020	0.00010 J	<0.00020	<0.00020	<0.00020	0.00013 J
Molybdenum	mg/L	0.0027	0.0017	0.0028	0.0017 O	0.0013 J	0.0013 J		0.0022	0.0011 J	0.0009 J	0.0011 J	0.0017	0.0010 J	0.0009 J	0.0013 J	<0.0300	<0.0015	<0.0015	<0.0015	<0.0015
Radium 226	pCi/L	0.232 J	0.214 J	0.458	0.153 J		0.443		<0.48	<0.16	<0.12	<0.09	< 0.08	< 1.00	< 0.18	< 0.07	<0.0641	0.123 J	0.112 J	0.0891 J	<0.137
Radium 228	pCi/L	<0.287	<-0.235	<-0.281	0.58		<0.154		1.88	0.82 J	<-1.46	<0.62	< 0.11	< 1.00	0.95 J	< 0.61	0.297 J	1.01	<0.183	0.702	<0
Radium, 226/228 Combined	pCi/L	0.519 J	<0.214	0.458 J	0.733		0.597		2.36	<0.98	<0.12	<0.71	< 0.19	< 2.00	< 1.13	< 0.68	0.362 J	1.13	<0.295	0.791	<0.137
Selenium	mg/L	0.0015	0.0012	0.0007 J	0.0007 JO	<0.0010	0.0007 J		0.0008 J	<0.0010	0.0007 J	<0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	<0.0200	<0.0010	<0.0010	<0.0010	<0.0010
Thallium	mg/L	<0.0020	<0.0020	<0.0020	<0.0020 O	<0.0020	<0.0020		<0.0020	<0.0020	<0.0020	<0.0020	0.002	< 0.0020	< 0.0020	< 0.0020	<0.0400	<0.0200	<0.0020	<0.0020	<0.0020
Turbidity	NTU	<1.0	<1.0	Lab Error	<1.0 O	<1.0	<1.0		5	4.3	4.7	2.4	5.6	2.4	0.8	4.1	7.5	4.0	3.3	<1.0	Lab Error



Table 3: Analytical Data
Former Emery Pond
Southern Illinois Power Cooperative Ma
Marion, Illinois

Well ID	Sample Date	EP-6 3/15/2023	EP-6 6/6/2023	EP-6 9/19/2023	EP-6 12/11/2023	EP-6 3/14/2024	EP-6 6/4/2024	EP-6 9/4/2024	EP-6 12/3/2024	EP-6 3/3/2025	EP-6 6/4/2025	EP-6 9/3/2025	EP-7 12/22/2021	EP-7 3/8/2022	EP-7 5/25/2022	EP-7 9/7/2022	EP-7 12/20/2022	EP-7 3/21/2023	EP-7 5/24/2023	EP-7 6/6/2023	EP-7 9/19/2023	EP-7 12/12/2023	
Sample Purpose		Corrective Action Monitoring																					
ANALYTE	Unit																						
Boron	mg/L	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	0.984	0.91	0.682	0.667	0.311	1.15 O	0.639	0.679	0.534	0.412	
Calcium	mg/L	1.62	1.49	1.26	1.43	1.54	1.48	2.47	1.78	1.52	1.43	1.82	178	170	128	93.5	40.2	245 O	114	126	75.4	44.4	
Chloride	mg/L	20	22	20	21	19	20	19.7	18.9	18.0	19.0	21.1	186	239	254	249	223	176 O	240	252	231	240	
Fluoride	mg/L	0.06 J	0.07 J	0.06 J	0.07 J	0.06 J	0.06 J	<0.50	<0.50	<0.50	<0.50	<0.50	0.33	0.3	0.22	0.2	0.11	0.36 O	0.23	0.24	0.18	0.12	
pH	SU	5.15	5.07	5.04	4.80	5.00	4.93	4.96	5.03	5.24	4.87	5.10	6.16	5.97	5.74	5.66	Lab Error	6.22 O	5.82	5.82	5.81	5.5	
Sulfate	mg/L	66	65	53	56	74	78	66.3	62.9	81.7	76.1	75.1	549	556	400	326	165	820 O	363	396	250	161	
Total Dissolved Solids	mg/L	222	250	212	222	250	276 H	244	288	278	278	284	1270	1450	1210	800	762 H	1720 O	1100	1160	1010	820	
Antimony	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0200	<0.0010	<0.0010	<0.0010	<0.0010 B	0.0006 JO	<0.0010	<0.0010	<0.0010	<0.0010	
Arsenic	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0005 J	<0.0010	<0.0010	<0.0010	<0.0010	<0.0200	0.0173	0.0139	0.0086	0.0081	0.114 O	0.0088	0.0126	0.0069	0.0113	
Barium	mg/L	0.0422	0.035	0.0307	0.034	0.0376	0.0368	0.039	0.0321	0.0359	0.0360	0.0383	0.0344	0.0271	0.0325	0.036	0.037	0.194 O	0.0354	0.0331	0.0372	0.0422	
Beryllium	mg/L	<0.0010	0.0003 J	0.0003 J	<0.0010	<0.0010	<0.0010	0.0003 J	<0.0010	<0.0010	<0.0010	<0.0010	<0.0200	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010 B	0.0014 O	<0.0010	<0.0010	<0.0010	
Cadmium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0200	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010 B	0.0007 JO	<0.0010	<0.0010	<0.0010	
Chromium	mg/L	0.0008 J	0.0016	0.0015	0.0027	0.0017	0.0016	0.0348	0.0041	0.0019	0.0021	0.0068	<0.0300	<0.0015	0.0017	<0.0015	0.0008 J	0.0298 O	0.0021	0.0019	<0.0015	0.0034	
Cobalt	mg/L	0.0036	0.0031	0.008 J	0.002	0.0023	0.0013	0.0016	0.0008 J	0.0005 J	0.0004 J	0.0008 J	0.110	0.139	0.161	0.19	0.179	0.12 O	0.158	0.203	0.163	0.235	
Lead	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0200	<0.0010	0.0008 J	<0.0010	<0.0010	0.0321 O	<0.0010	0.0008 J	<0.0010	<0.0010	
Lithium	mg/L	0.0107	0.0182	0.0139	0.0101	0.0112	0.0104	0.0171	0.0131	0.0140	0.0132	0.0148	<0.0600	<0.00300	0.0019 J	<0.0030	<0.0030	0.0136 O	<0.0030	0.0015 J	<0.0030	<0.0030	
Mercury	mg/L	0.00009 J	<0.00020	0.00008 J	<0.00020	<0.00020	<0.00020	<0.00020	0.00011 J	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00019 JO	<0.00020	<0.00020	<0.00020 S	<0.00020	
Molybdenum	mg/L	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	0.0243	<0.0300	0.0012 J	0.0007 J	<0.0015	<0.0015	0.0154 O	0.0007 J	0.0015	<0.0015	0.0013 J
Radium 226	pCi/L	.124 J	0.174 J	<0.07	<0.01	<0.1	<0.04	<0.07	<0.19	<1.00	<0.01	<0.00	0.103 J	0.0766 J	0.242 J	0.0538 J	0.168	0.391		<0.0636	<0.25	<0.2	
Radium 228	pCi/L	<0.413	0.419 J	<0.17	<0.49	1.03	<0.19	<0.51	0.82 J	<1.00	0.79 J	<0.41	0.0686 J	0.954	1.23	0.731	0.507	1.61		1.06	1.34	4.1	
Radium, 226/228 Combined	pCi/L	<0.124	0.593 J	<0.24	<0.5	<1.13	<0.23	<0.58	<1.01	<2.00	<0.80	<0.41	0.172 J	1.03	1.47	0.785	0.675	2		1.12	1.34	4.3	
Selenium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0200	<0.0010	<0.0010	0.0007 J	<0.0010	<0.0010 O	0.0007 J	0.0006 J	<0.0010	0.0016	
Thallium	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0019 J	<0.0400	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020 O	<0.0020	0.0013 J	<0.0020	0.003	
Turbidity	NTU	<1.0	2.2	9.3	4.5	3.8	3.9	11	37	3.8	2.3	3.5	4.3	14	1.8	<1.0	Lab Error	499.79 O	6.0	4.3	8.2	5.6	



Table 3: Analytical Data
Former Emery Pond
Southern Illinois Power Cooperative Ma
Marion, Illinois

Well ID	Sample Date	EP-7						
Sample Purpose		3/14/2024	6/4/2024	9/5/2024	12/2/2024	3/3/2025	6/4/2025	9/3/2025
		Corrective Action Monitoring						
ANALYTE	Unit							
Boron	mg/L	0.594	0.785	0.469	0.533	0.778	0.694	0.525
Calcium	mg/L	109	142	50.5	67.8	151	118	63.9
Chloride	mg/L	236	242	265	231	231	299	308
Fluoride	mg/L	0.19	0.25	<0.50	< 0.50	0.32 J	0.20 J	0.14 J
pH	SU	5.92	5.86	5.58	5.83	5.97	5.84	5.72
Sulfate	mg/L	326	413	201	247	498	371	243
Total Dissolved Solids	mg/L	1010	482	935	1190	1360	1280	1100
Antimony	mg/L	<0.0010	<0.0010	<0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Arsenic	mg/L	0.0066	0.0072	0.0065	0.0083	0.0073	0.0077	0.0100
Barium	mg/L	0.0377	0.0328	0.0384	0.0396	0.0322	0.0383	0.0428
Beryllium	mg/L	<0.0010	<0.0010	0.0003 J	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Cadmium	mg/L	<0.0010	<0.0010	<0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Chromium	mg/L	0.0638	0.0035	0.0241	0.0022	< 0.0015	0.0018	0.0181
Cobalt	mg/L	0.156	0.13	0.171	0.147	0.115	0.150	0.190
Lead	mg/L	<0.0010	<0.0010	<0.0010	< 0.0010	< 0.0010	0.0006 J	< 0.0010
Lithium	mg/L	<0.0030	<0.0030	<0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030
Mercury	mg/L	<0.00020	<0.00020	<0.00020	0.00006 J	< 0.00020	< 0.00020	< 0.00020
Molybdenum	mg/L	0.0014 J	0.0011 J	0.0009 J	0.0006 J	0.0008 J	0.0008 J	0.0010 J
Radium 226	pCi/L	<0.56	<0.03	<0.18	< 0.21	< 1.00	< 0.17	< 0.11
Radium 228	pCi/L	0.9 J	1.63	0.97 J	0.83 J	< 1.00	< 0.22	< 0.44
Radium, 226/228 Combined	pCi/L	<1.46	<1.66	<1.15	< 1.04	< 2.00	< 0.39	< 0.55
Selenium	mg/L	<0.0010	0.0006 J	0.0007 J	< 0.0010	< 0.0010	< 0.0010	0.0006 J
Thallium	mg/L	<0.0020	<0.0020	<0.0020	< 0.0020	< 0.0020	< 0.0020	0.0017 J
Turbidity	NTU	6.5	13	4.9	5.4	5.6	4.0	5.0

Created by: GRD
 Checked by: CJZ
 Reviewed by: JF

Table 3: Analytical Data
Former Emery Pond
Southern Illinois Power Cooperative Marion Power Plant
Marion, Illinois

Notes:

J = Indicates the result is estimated

< = Analyte was not detected above the method detection limit or minimum detectable concentration. For all analytes other than radium, the method detection limit is provided. For radium the result reported by the laboratory is provided.

R = relative percent difference for the laboratory duplicate outside recovery limits

mg/L = milligrams per liter

pCi/L = picoCuries per liter

NTU = Nephelometric Turbidity Unit

H = Indicates holding times exceeded

B = Analyte detected in associated Method Blank

Lab Error = Although field parameters were collected according to the Sampling and Analysis Plan (GMP Addendum #1 (Golder, 2021a), the field parameters for the December 2022 event were not recoverable. Documentation of the error is included in the Case Narrative of the final laboratory report.

S = Indicates spike recovery outside recovery limits

O = Indicates the result was removed from the statistical database as an outlier

Table 4: Groundwater Protection Standard Summary

Analyte	Unit	Background Tolerance Limit ¹	40 CFR Standard ²	GPS ³
Antimony	mg/L	ND (0.001)	0.006	0.006
Arsenic	mg/L	ND (0.001)	0.01	0.01
Barium	mg/L	0.28	2	2
Beryllium	mg/L	ND (0.001)	0.004	0.004
Cadmium	mg/L	ND (0.001)	0.005	0.005
Chromium	mg/L	ND (0.0015)	0.1	0.1
Cobalt	mg/L	0.018	0.006	0.018
Fluoride	mg/L	0.64	4	4
Lead	mg/L	ND (0.001)	0.0075	0.0075
Lithium	mg/L	0.082	0.04	0.082
Mercury	mg/L	ND (0.0002)	0.002	0.002
Molybdenum	mg/L	0.007	0.10	0.1
Selenium	mg/L	0.017	0.05	0.05
Thallium	mg/L	ND (0.002)	0.002	0.002
Radium 226 and 228	pCi/L	3.48	5	5

Notes:

1. The background tolerance limit was calculated using the data collected between March 2017 and January 2021 from background well EBG
2. GPS provided in 40 CFR §257.95(h), 40 CFR §141.62 and 40 CFR §141.66
3. The former Emery Pond GPS is the higher of the background tolerance limit or the GPS provided in 40 CFR §257.95(h)(2), 40 CFR §141.62 and 40 CFR §141.66

Abbreviations:

EPA = Environmental Protection Agency
GPS = Groundwater Protection Standard
mg/L = milligrams per Liter
ND = Non-detect concentration
pCi/L = picoCuries per Liter
pH = potential of Hydrogen

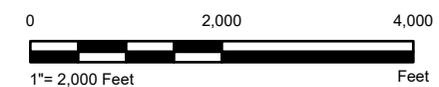
Prepared by: CLS
Checked by: DFSC
Reviewed by: JF

FIGURES



CRAB ORCHARD LAKE	MARION	CRAB ORCHARD
LOCK CREEK	GOREVILLE	CREAL SPRINGS

7 1/2 SERIES QUADRANGLES



NOTE(S)			
REFERENCE(S)			
1. COORDINATE SYSTEM: GCS WGS 1984			
2. BASEMAP CONSISTS OF USGS 7.5 MINUTE QUADRANGLE MAPS.			
CLIENT			
SOUTHERN ILLINOIS POWER COOPERATIVE			
PROJECT			
ANNUAL GROUNDWATER AND CORRECTIVE ACTION REPORT FORMER EMERY POND			
TITLE			
SITE LOCATION MAP			
CONSULTANT	YYYY-MM-DD		
	DESIGNED DFS		
	PREPARED EMM		
	REVIEWED DFS		
	APPROVED JF		
PROJECT NO.	CONTROL	REV.	FIGURE
GLA21467997.2373		-	1

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1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSIB



LEGEND

- Background Monitoring Well
- Downgradient Monitoring Well
- Approximate Limits of the Former Emery Pond



NOTE(S)

- REFERENCE(S)**
1. COORDINATE SYSTEM: NAD 1983 STATEPLANE ILLINOIS EAST FIPS 1201 FEET
 2. IMAGERY SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AERGRID, IGN, AND THE GIS USER COMMUNITY
 3. MONITORING WELL LOCATION DATA RECEIVED FROM SOUTHERN ILLINOIS POWER COOPERATIVE

CLIENT

SOUTHERN ILLINOIS POWER COOPERATIVE

PROJECT

ANNUAL GROUNDWATER AND CORRECTIVE ACTION REPORT
FORMER EMERY POND

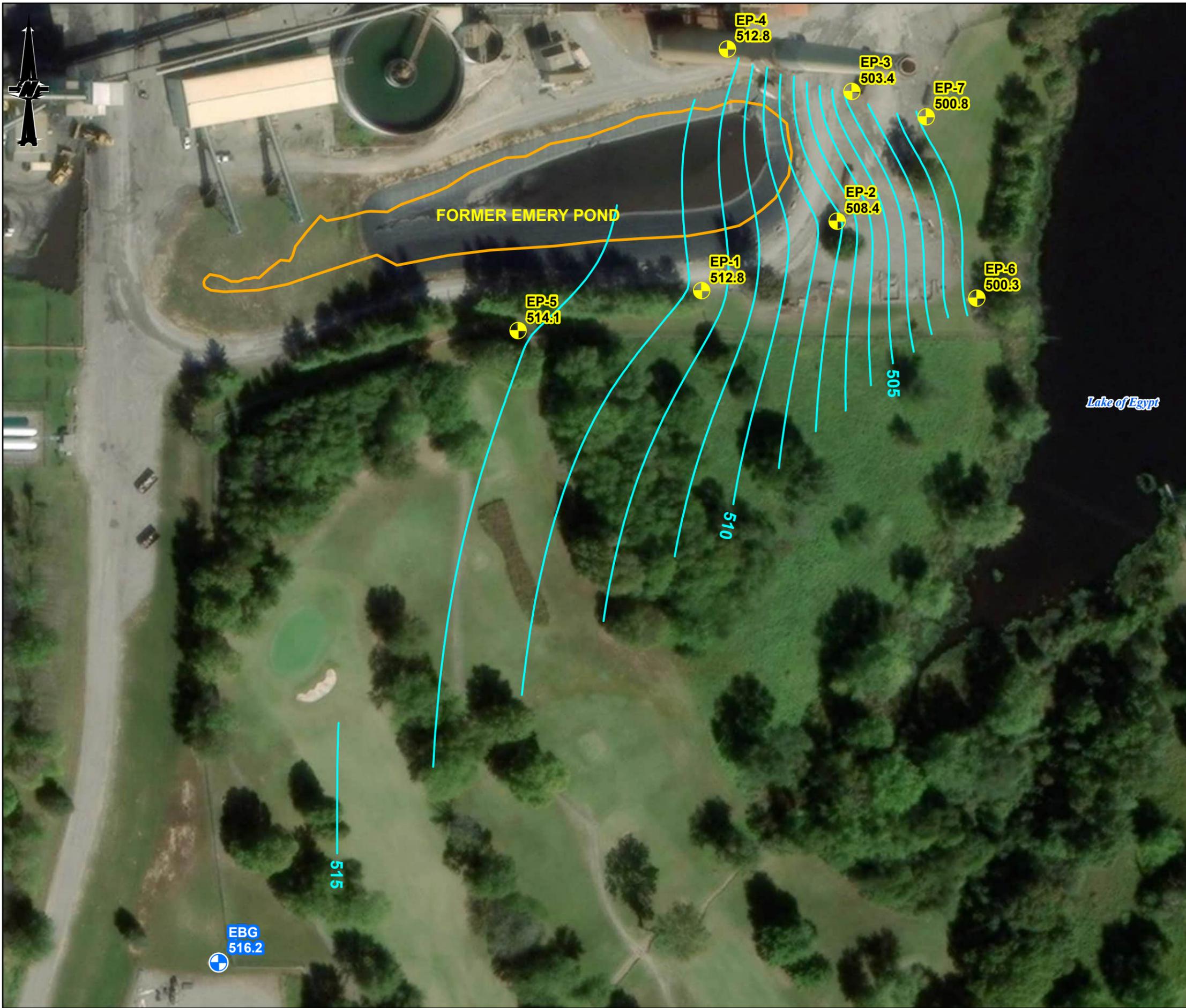
TITLE

MONITORING WELL LOCATION MAP

CONSULTANT	YYYY-MM-DD	2022-01-25
	DESIGNED	DFSC
	PREPARED	DTD
	REVIEWED	DFSC
	APPROVED	MAH

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B



- LEGEND**
- Background Monitoring Well
 - Downgradient Monitoring Well
 - January 13, 2025 Groundwater Surface Elevation Contour (1 ft Interval)
 - Approximate Limits of the Former Emery Pond

FIGURE NARRATIVE
 THIS FIGURE DEPICTS THE GROUNDWATER ELEVATION IN THE UPPER PORTION OF THE SURFICIAL AQUIFER AND IS INTENDED TO REPRESENT THE APPROXIMATE ELEVATION OF THE GROUNDWATER POTENTIOMETRIC SURFACE. THE POSTED DATA WERE CALCULATED FROM DEPTH TO WATER MEASUREMENTS MADE BY SIPC ON JANUARY 13, 2025. THE DIRECTION OF THE HORIZONTAL GROUNDWATER FLOW AT AND NEAR THE POTENTIOMETRIC SURFACE CAN BE GENERALLY INTERPRETED AS BEING PERPENDICULAR TO THE GROUNDWATER ELEVATION CONTOURS.

- NOTE(S)**
1. THE COORDINATES FOR THIS SITE ARE ILLINOIS STATE PLANE WEST 1201
 2. WELL LOCATIONS AND TOP OF CASING ELEVATIONS OBTAINED FROM WELL CONSTRUCTION BORING LOGS PROVIDED BY SOUTHERN ILLINOIS POWER COMPANY.
 3. GROUNDWATER SURFACE ELEVATION MEASURED IN FEET ABOVE MEAN SEA LEVEL.

- REFERENCE(S)**
1. COORDINATE SYSTEM: NAD 1983 STATEPLANE ILLINOIS EAST FIPS 1201 FEET
 2. IMAGERY WORLD IMAGERY: MICROSOFT, VANTOR
 3. MONITORING WELL LOCATION DATA RECEIVED FROM SOUTHERN ILLINOIS POWER COOPERATIVE

CLIENT
 SOUTHERN ILLINOIS POWER COOPERATIVE

PROJECT
 ANNUAL GROUNDWATER AND CORRECTIVE ACTION REPORT
 FORMER EMERY POND

TITLE
**JANUARY 13, 2025 - GROUNDWATER SURFACE ELEVATION
 CONTOUR MAP**

CONSULTANT	YYYY-MM-DD
	DESIGNED DFS
	PREPARED EMM
	REVIEWED DFS
	APPROVED JF

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



- LEGEND**
- Background Monitoring Well
 - Downgradient Monitoring Well
 - February 10, 2025 Groundwater Surface Elevation Contour (1 ft Interval)
 - Approximate Limits of the Former Emery Pond

FIGURE NARRATIVE
 THIS FIGURE DEPICTS THE GROUNDWATER ELEVATION IN THE UPPER PORTION OF THE SURFICIAL AQUIFER AND IS INTENDED TO REPRESENT THE APPROXIMATE ELEVATION OF THE GROUNDWATER POTENTIOMETRIC SURFACE. THE POSTED DATA WERE CALCULATED FROM DEPTH TO WATER MEASUREMENTS MADE BY SIPC ON FEBRUARY 10, 2025. THE DIRECTION OF THE HORIZONTAL GROUNDWATER FLOW AT AND NEAR THE POTENTIOMETRIC SURFACE CAN BE GENERALLY INTERPRETED AS BEING PERPENDICULAR TO THE GROUNDWATER ELEVATION CONTOURS.

- NOTE(S)**
1. THE COORDINATES FOR THIS SITE ARE ILLINOIS STATE PLANE WEST 1201
 2. WELL LOCATIONS AND TOP OF CASING ELEVATIONS OBTAINED FROM WELL CONSTRUCTION BORING LOGS PROVIDED BY SOUTHERN ILLINOIS POWER COMPANY.
 3. GROUNDWATER SURFACE ELEVATION MEASURED IN FEET ABOVE MEAN SEA LEVEL.

- REFERENCE(S)**
1. COORDINATE SYSTEM: NAD 1983 STATEPLANE ILLINOIS EAST FIPS 1201 FEET
 2. IMAGERY WORLD IMAGERY: MICROSOFT, VANTOR
 3. MONITORING WELL LOCATION DATA RECEIVED FROM SOUTHERN ILLINOIS POWER COOPERATIVE

CLIENT
 SOUTHERN ILLINOIS POWER COOPERATIVE

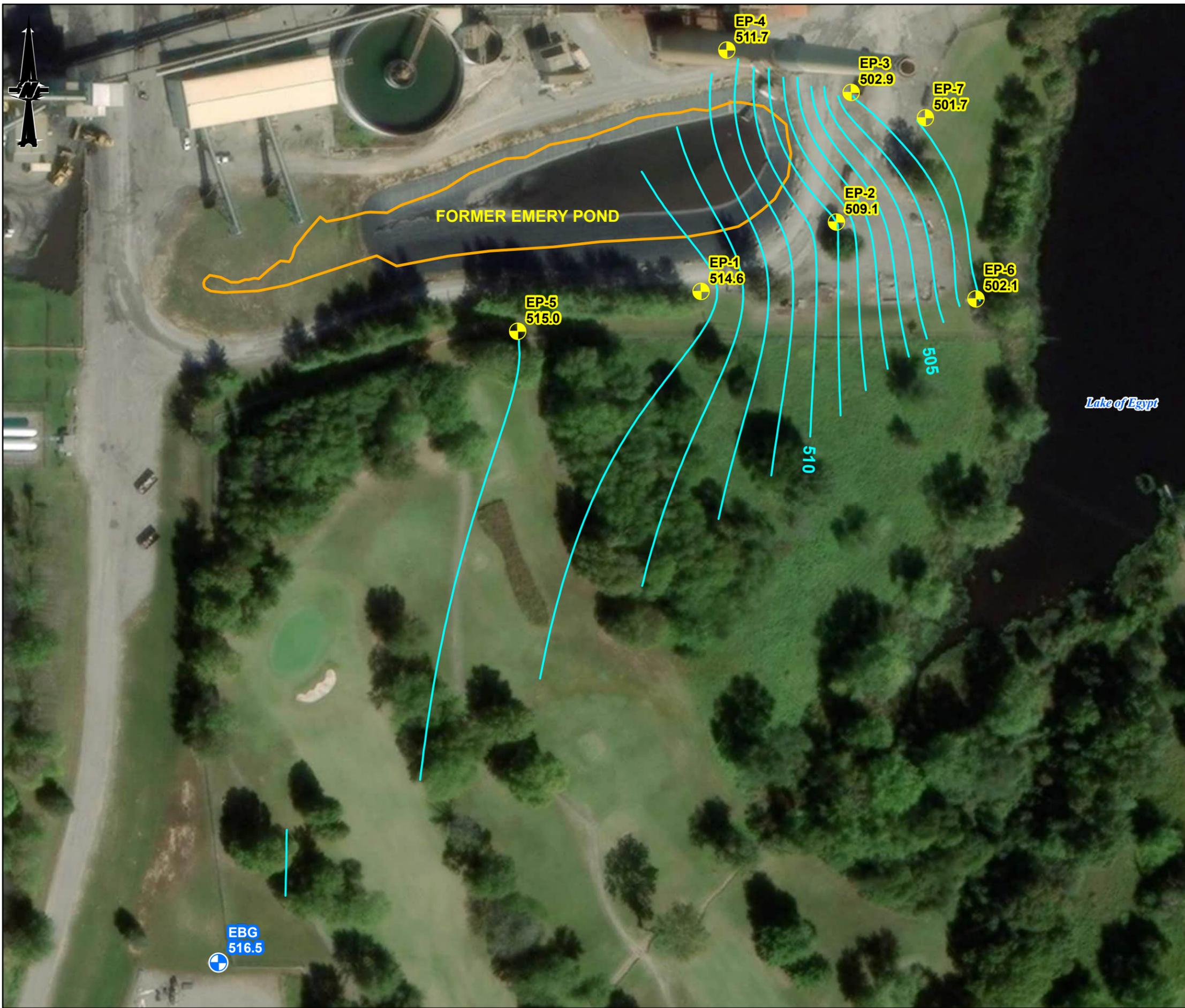
PROJECT
 ANNUAL GROUNDWATER AND CORRECTIVE ACTION REPORT
 FORMER EMERY POND

TITLE
**FEBRUARY 10, 2025- GROUNDWATER SURFACE ELEVATION
 CONTOUR MAP**

CONSULTANT	YYYY-MM-DD
	DESIGNED DFS
	PREPARED EMM
	REVIEWED DFS
	APPROVED JF

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



- LEGEND**
- Background Monitoring Well
 - Downgradient Monitoring Well
 - March 3, 2025 Groundwater Surface Elevation Contour (1 ft Interval)
 - Approximate Limits of the Former Emery Pond

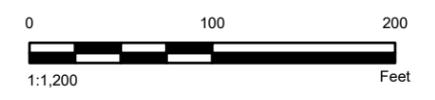


FIGURE NARRATIVE
 THIS FIGURE DEPICTS THE GROUNDWATER ELEVATION IN THE UPPER PORTION OF THE SURFICIAL AQUIFER AND IS INTENDED TO REPRESENT THE APPROXIMATE ELEVATION OF THE GROUNDWATER POTENTIOMETRIC SURFACE. THE POSTED DATA WERE CALCULATED FROM DEPTH TO WATER MEASUREMENTS MADE BY SIPC ON MARCH 3, 2025. THE DIRECTION OF THE HORIZONTAL GROUNDWATER FLOW AT AND NEAR THE POTENTIOMETRIC SURFACE CAN BE GENERALLY INTERPRETED AS BEING PERPENDICULAR TO THE GROUNDWATER ELEVATION CONTOURS.

- NOTE(S)**
1. THE COORDINATES FOR THIS SITE ARE ILLINOIS STATE PLANE WEST 1201
 2. WELL LOCATIONS AND TOP OF CASING ELEVATIONS OBTAINED FROM WELL CONSTRUCTION BORING LOGS PROVIDED BY SOUTHERN ILLINOIS POWER COMPANY.
 3. GROUNDWATER SURFACE ELEVATION MEASURED IN FEET ABOVE MEAN SEA LEVEL.

- REFERENCE(S)**
1. COORDINATE SYSTEM: NAD 1983 STATEPLANE ILLINOIS EAST FIPS 1201 FEET
 2. IMAGERY WORLD IMAGERY: MICROSOFT, VANTOR
 3. MONITORING WELL LOCATION DATA RECEIVED FROM SOUTHERN ILLINOIS POWER COOPERATIVE

CLIENT
 SOUTHERN ILLINOIS POWER COOPERATIVE

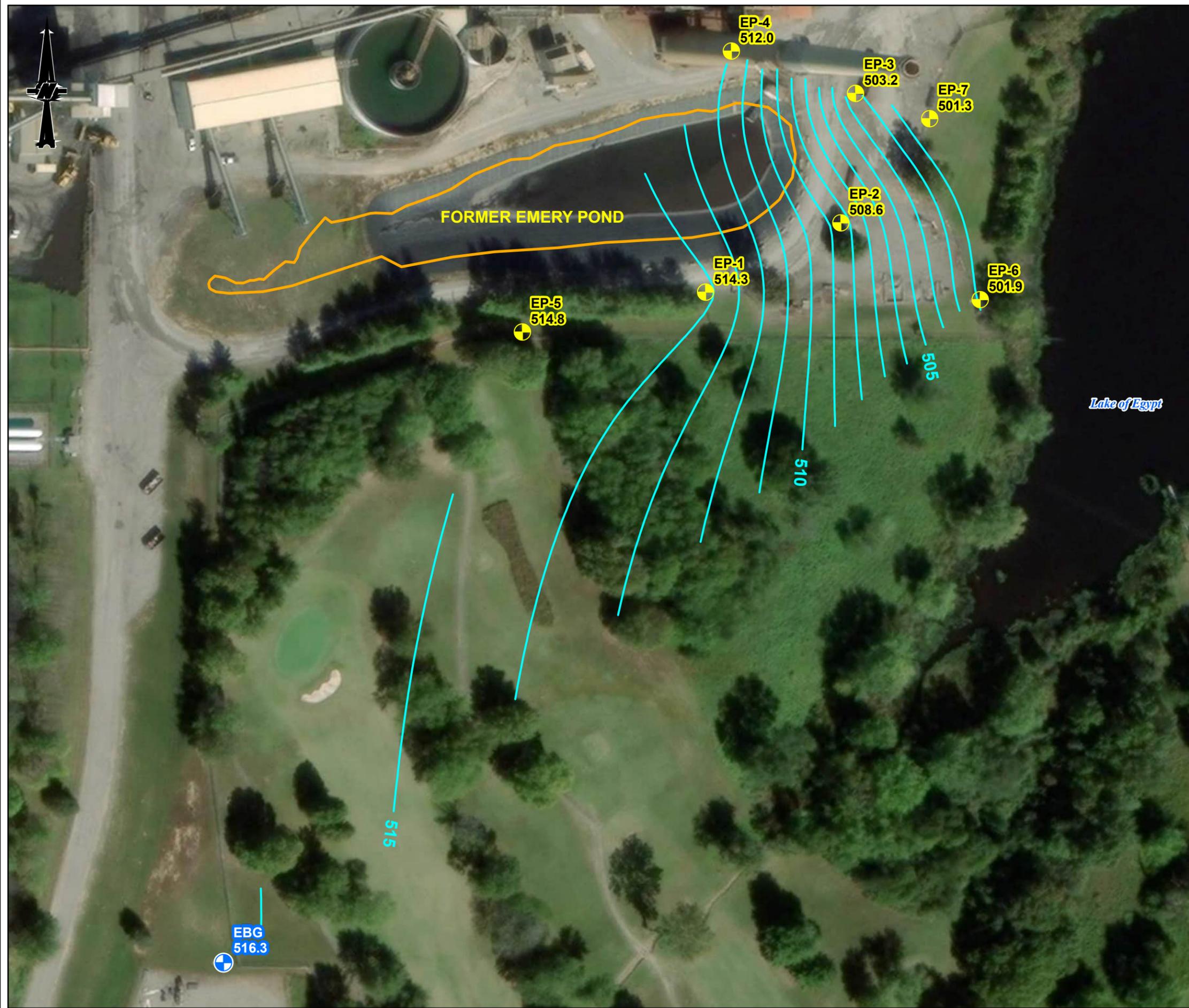
PROJECT
 ANNUAL GROUNDWATER AND CORRECTIVE ACTION REPORT
 FORMER EMERY POND

TITLE
**MARCH 3, 2025- GROUNDWATER SURFACE ELEVATION
 CONTOUR MAP**

CONSULTANT	YYYY-MM-DD
	DESIGNED DFS
	PREPARED EMM
	REVIEWED DFS
	APPROVED JF

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



- LEGEND**
- Background Monitoring Well
 - Downgradient Monitoring Well
 - April 16, 2025 Groundwater Surface Elevation Contour (1 ft Interval)
 - Approximate Limits of the Former Emery Pond

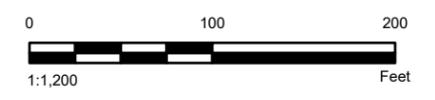


FIGURE NARRATIVE
 THIS FIGURE DEPICTS THE GROUNDWATER ELEVATION IN THE UPPER PORTION OF THE SURFICIAL AQUIFER AND IS INTENDED TO REPRESENT THE APPROXIMATE ELEVATION OF THE GROUNDWATER POTENTIOMETRIC SURFACE. THE POSTED DATA WERE CALCULATED FROM DEPTH TO WATER MEASUREMENTS MADE BY SIPC ON APRIL 16, 2025. THE DIRECTION OF THE HORIZONTAL GROUNDWATER FLOW AT AND NEAR THE POTENTIOMETRIC SURFACE CAN BE GENERALLY INTERPRETED AS BEING PERPENDICULAR TO THE GROUNDWATER ELEVATION CONTOURS.

- NOTE(S)**
1. THE COORDINATES FOR THIS SITE ARE ILLINOIS STATE PLANE WEST 1201
 2. WELL LOCATIONS AND TOP OF CASING ELEVATIONS OBTAINED FROM WELL CONSTRUCTION BORING LOGS PROVIDED BY SOUTHERN ILLINOIS POWER COMPANY.
 3. GROUNDWATER SURFACE ELEVATION MEASURED IN FEET ABOVE MEAN SEA LEVEL.

- REFERENCE(S)**
1. COORDINATE SYSTEM: NAD 1983 STATEPLANE ILLINOIS EAST FIPS 1201 FEET
 2. IMAGERY WORLD IMAGERY: MICROSOFT, VANTOR
 3. MONITORING WELL LOCATION DATA RECEIVED FROM SOUTHERN ILLINOIS POWER COOPERATIVE

CLIENT
 SOUTHERN ILLINOIS POWER COOPERATIVE

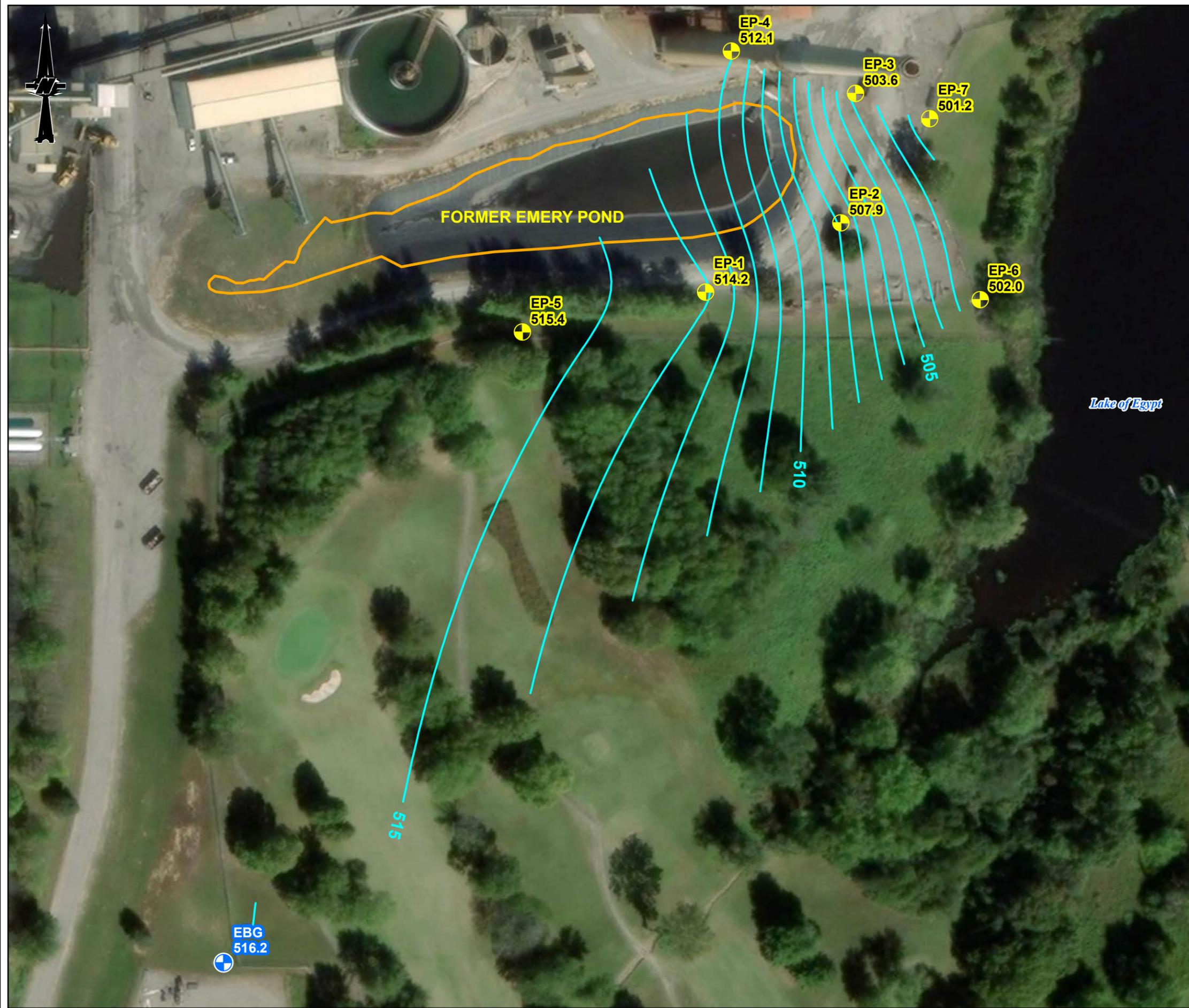
PROJECT
 ANNUAL GROUNDWATER AND CORRECTIVE ACTION REPORT
 FORMER EMERY POND

TITLE
 APRIL 16, 2025 - GROUNDWATER SURFACE ELEVATION
 CONTOUR MAP

CONSULTANT	YYYY-MM-DD
	DESIGNED DFS
	PREPARED EMM
	REVIEWED DFS
	APPROVED JF

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



- LEGEND**
- Background Monitoring Well
 - Downgradient Monitoring Well
 - May 19, 2025 Groundwater Surface Elevation Contour (1 ft Interval)
 - Approximate Limits of the Former Emery Pond

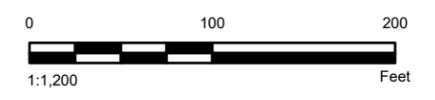


FIGURE NARRATIVE
 THIS FIGURE DEPICTS THE GROUNDWATER ELEVATION IN THE UPPER PORTION OF THE SURFICIAL AQUIFER AND IS INTENDED TO REPRESENT THE APPROXIMATE ELEVATION OF THE GROUNDWATER POTENTIOMETRIC SURFACE. THE POSTED DATA WERE CALCULATED FROM DEPTH TO WATER MEASUREMENTS MADE BY SIPC ON MAY 19, 2025. THE DIRECTION OF THE HORIZONTAL GROUNDWATER FLOW AT AND NEAR THE POTENTIOMETRIC SURFACE CAN BE GENERALLY INTERPRETED AS BEING PERPENDICULAR TO THE GROUNDWATER ELEVATION CONTOURS.

- NOTE(S)**
1. THE COORDINATES FOR THIS SITE ARE ILLINOIS STATE PLANE WEST 1201
 2. WELL LOCATIONS AND TOP OF CASING ELEVATIONS OBTAINED FROM WELL CONSTRUCTION BORING LOGS PROVIDED BY SOUTHERN ILLINOIS POWER COMPANY.
 3. GROUNDWATER SURFACE ELEVATION MEASURED IN FEET ABOVE MEAN SEA LEVEL.

- REFERENCE(S)**
1. COORDINATE SYSTEM: NAD 1983 STATEPLANE ILLINOIS EAST FIPS 1201 FEET
 2. IMAGERY WORLD IMAGERY: MICROSOFT, VANTOR
 3. MONITORING WELL LOCATION DATA RECEIVED FROM SOUTHERN ILLINOIS POWER COOPERATIVE

CLIENT
 SOUTHERN ILLINOIS POWER COOPERATIVE

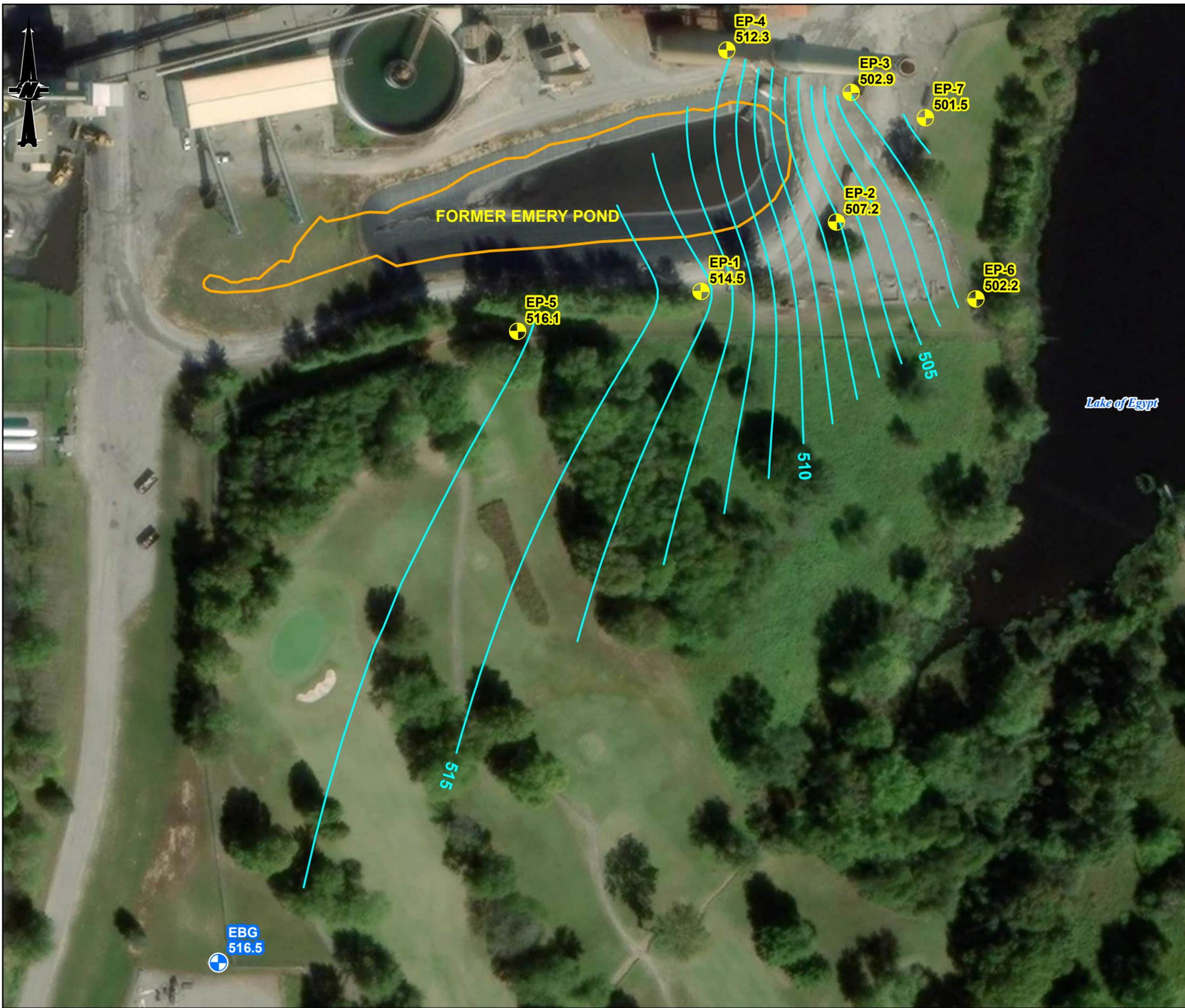
PROJECT
 ANNUAL GROUNDWATER AND CORRECTIVE ACTION REPORT
 FORMER EMERY POND

TITLE
 MAY 19, 2025 - GROUNDWATER SURFACE ELEVATION
 CONTOUR MAP

CONSULTANT	YYYY-MM-DD
	DESIGNED DFS
	PREPARED EMM
	REVIEWED DFS
	APPROVED JF

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



- LEGEND**
- Background Monitoring Well
 - Downgradient Monitoring Well
 - June 4, 2025 Groundwater Surface Elevation Contour (1 ft Interval)
 - Approximate Limits of the Former Emery Pond

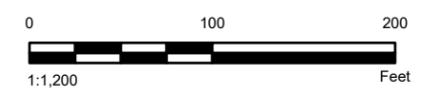


FIGURE NARRATIVE
 THIS FIGURE DEPICTS THE GROUNDWATER ELEVATION IN THE UPPER PORTION OF THE SURFICIAL AQUIFER AND IS INTENDED TO REPRESENT THE APPROXIMATE ELEVATION OF THE GROUNDWATER POTENTIOMETRIC SURFACE. THE POSTED DATA WERE CALCULATED FROM DEPTH TO WATER MEASUREMENTS MADE BY SIPC ON JUNE 4, 2025. THE DIRECTION OF THE HORIZONTAL GROUNDWATER FLOW AT AND NEAR THE POTENTIOMETRIC SURFACE CAN BE GENERALLY INTERPRETED AS BEING PERPENDICULAR TO THE GROUNDWATER ELEVATION CONTOURS.

- NOTE(S)**
1. THE COORDINATES FOR THIS SITE ARE ILLINOIS STATE PLANE WEST 1201
 2. WELL LOCATIONS AND TOP OF CASING ELEVATIONS OBTAINED FROM WELL CONSTRUCTION BORING LOGS PROVIDED BY SOUTHERN ILLINOIS POWER COMPANY.
 3. GROUNDWATER SURFACE ELEVATION MEASURED IN FEET ABOVE MEAN SEA LEVEL.

- REFERENCE(S)**
1. COORDINATE SYSTEM: NAD 1983 STATEPLANE ILLINOIS EAST FIPS 1201 FEET
 2. IMAGERY WORLD IMAGERY: MICROSOFT, VANTOR
 3. MONITORING WELL LOCATION DATA RECEIVED FROM SOUTHERN ILLINOIS POWER COOPERATIVE

CLIENT
 SOUTHERN ILLINOIS POWER COOPERATIVE

PROJECT
 ANNUAL GROUNDWATER AND CORRECTIVE ACTION REPORT
 FORMER EMERY POND

TITLE
**JUNE 4, 2025 - GROUNDWATER SURFACE ELEVATION
 CONTOUR MAP**

CONSULTANT	YYYY-MM-DD
	DESIGNED DFS
	PREPARED EMM
	REVIEWED DFS
	APPROVED JF

B:\Southern Illinois Power Cooperative\Boration Power Plant\B99_PROJ\121467997_Operating_Permit_Application\0605_GWE2025\APR\Gwe_2025.gwe_2025.rprt

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



- LEGEND**
- Background Monitoring Well
 - Downgradient Monitoring Well
 - July 14, 2025 Groundwater Surface Elevation Contour (1 ft Interval)
 - Approximate Limits of the Former Emery Pond

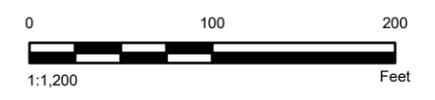


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- NOTE(S)**
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 3. GROUNDWATER SURFACE ELEVATION MEASURED IN FEET ABOVE MEAN SEA LEVEL.

- REFERENCE(S)**
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 2. IMAGERY WORLD IMAGERY: MICROSOFT, VANTOR
 3. MONITORING WELL LOCATION DATA RECEIVED FROM SOUTHERN ILLINOIS POWER COOPERATIVE

CLIENT
 SOUTHERN ILLINOIS POWER COOPERATIVE

PROJECT
 ANNUAL GROUNDWATER AND CORRECTIVE ACTION REPORT
 FORMER EMERY POND

TITLE
**JULY 14, 2025 - GROUNDWATER SURFACE ELEVATION
 CONTOUR MAP**

CONSULTANT	YYYY-MM-DD
	DESIGNED DFS
	PREPARED EMM
	REVIEWED DFS
	APPROVED JF

B:\Southern_Illinois_Power_Cooperative\Boring_Permit_Plant109_PROJ\121467997_Operating_Permit_Application\0005_GWE2025\APR\Gwe_2025.aprx

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



- LEGEND**
- Background Monitoring Well
 - Downgradient Monitoring Well
 - August 18, 2025 Groundwater Surface Elevation Contour (1 ft Interval)
 - Approximate Limits of the Former Emery Pond

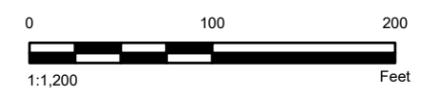


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- NOTE(S)**
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 2. WELL LOCATIONS AND TOP OF CASING ELEVATIONS OBTAINED FROM WELL CONSTRUCTION BORING LOGS PROVIDED BY SOUTHERN ILLINOIS POWER COMPANY.
 3. GROUNDWATER SURFACE ELEVATION MEASURED IN FEET ABOVE MEAN SEA LEVEL.

- REFERENCE(S)**
1. COORDINATE SYSTEM: NAD 1983 STATEPLANE ILLINOIS EAST FIPS 1201 FEET
 2. IMAGERY WORLD IMAGERY: MICROSOFT, VANTOR
 3. MONITORING WELL LOCATION DATA RECEIVED FROM SOUTHERN ILLINOIS POWER COOPERATIVE

CLIENT
 SOUTHERN ILLINOIS POWER COOPERATIVE

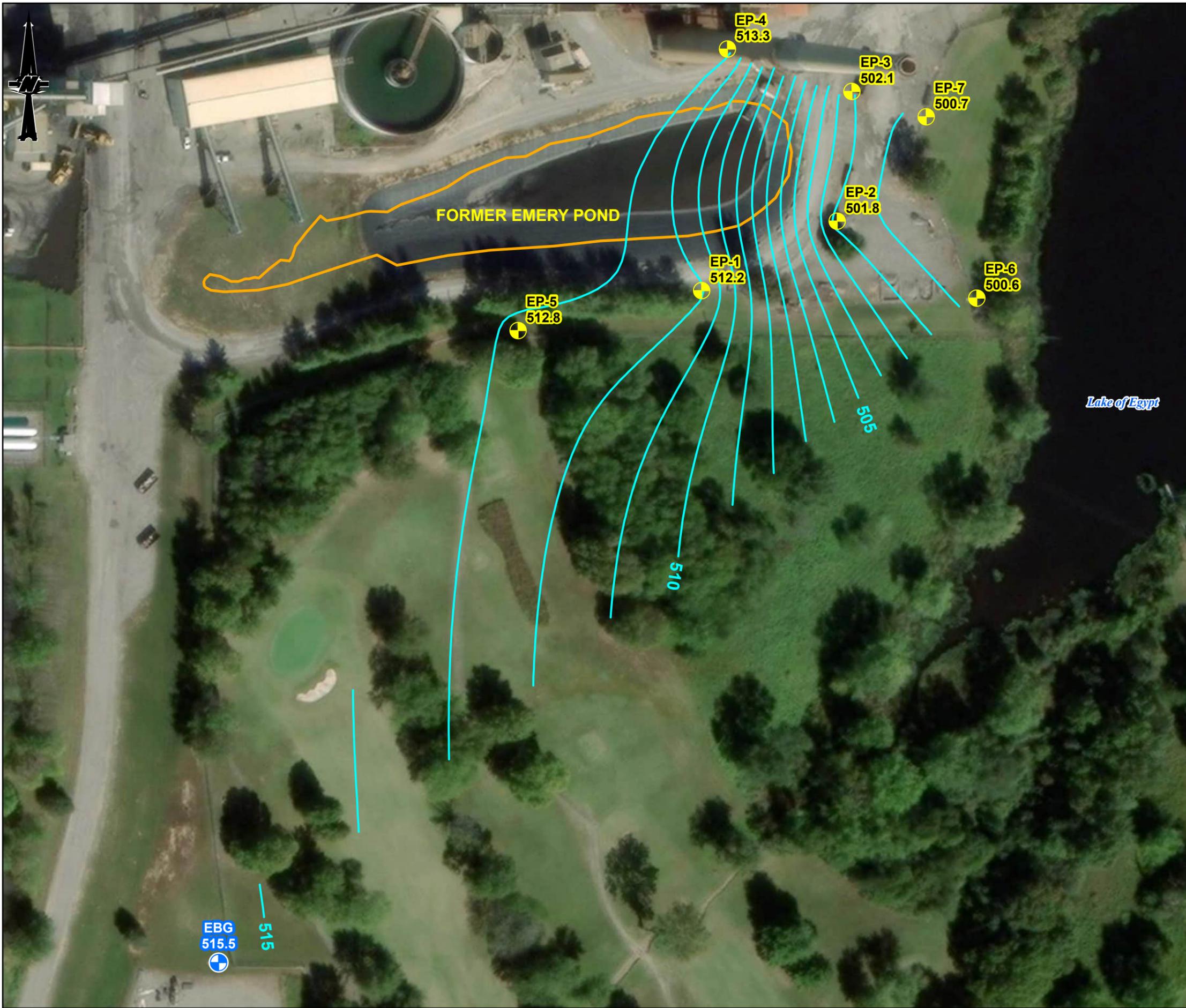
PROJECT
 ANNUAL GROUNDWATER AND CORRECTIVE ACTION REPORT
 FORMER EMERY POND

TITLE
**AUGUST 18, 2025 - GROUNDWATER SURFACE ELEVATION
 CONTOUR MAP**

CONSULTANT	YYYY-MM-DD
	DESIGNED DFS
	PREPARED EMM
	REVIEWED DFS
	APPROVED JF

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



- LEGEND**
- Background Monitoring Well
 - Downgradient Monitoring Well
 - September 18, 2025 Groundwater Surface Elevation Contour (1 ft Interval)
 - Approximate Limits of the Former Emery Pond

FIGURE NARRATIVE
 THIS FIGURE DEPICTS THE GROUNDWATER ELEVATION IN THE UPPER PORTION OF THE SURFICIAL AQUIFER AND IS INTENDED TO REPRESENT THE APPROXIMATE ELEVATION OF THE GROUNDWATER POTENTIOMETRIC SURFACE. THE POSTED DATA WERE CALCULATED FROM DEPTH TO WATER MEASUREMENTS MADE BY SIPC ON SEPTEMBER 18, 2025. THE DIRECTION OF THE HORIZONTAL GROUNDWATER FLOW AT AND NEAR THE POTENTIOMETRIC SURFACE CAN BE GENERALLY INTERPRETED AS BEING PERPENDICULAR TO THE GROUNDWATER ELEVATION CONTOURS.

- NOTE(S)**
1. THE COORDINATES FOR THIS SITE ARE ILLINOIS STATE PLANE WEST 1201
 2. WELL LOCATIONS AND TOP OF CASING ELEVATIONS OBTAINED FROM WELL CONSTRUCTION BORING LOGS PROVIDED BY SOUTHERN ILLINOIS POWER COMPANY.
 3. GROUNDWATER SURFACE ELEVATION MEASURED IN FEET ABOVE MEAN SEA LEVEL.

- REFERENCE(S)**
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 2. IMAGERY WORLD IMAGERY: MICROSOFT, VANTOR
 3. MONITORING WELL LOCATION DATA RECEIVED FROM SOUTHERN ILLINOIS POWER COOPERATIVE

CLIENT
 SOUTHERN ILLINOIS POWER COOPERATIVE

PROJECT
 ANNUAL GROUNDWATER AND CORRECTIVE ACTION REPORT
 FORMER EMERY POND

TITLE
 SEPTEMBER 18, 2025 - GROUNDWATER SURFACE ELEVATION
 CONTOUR MAP

CONSULTANT	YYYY-MM-DD
	DESIGNED DFS
	PREPARED EMM
	REVIEWED DFS
	APPROVED JF

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



- LEGEND**
- Background Monitoring Well
 - Downgradient Monitoring Well
 - October 13, 2025 Groundwater Surface Elevation Contour (1 ft Interval)
 - Approximate Limits of the Former Emery Pond

FIGURE NARRATIVE
 THIS FIGURE DEPICTS THE GROUNDWATER ELEVATION IN THE UPPER PORTION OF THE SURFICIAL AQUIFER AND IS INTENDED TO REPRESENT THE APPROXIMATE ELEVATION OF THE GROUNDWATER POTENTIOMETRIC SURFACE. THE POSTED DATA WERE CALCULATED FROM DEPTH TO WATER POTENTIOMETRIC SURFACE. THE POSTED DATA WERE CALCULATED FROM DEPTH TO WATER MEASUREMENTS MADE BY SIPC ON OCTOBER 13, 2025. THE DIRECTION OF THE HORIZONTAL GROUNDWATER FLOW AT AND NEAR THE POTENTIOMETRIC SURFACE CAN BE GENERALLY INTERPRETED AS BEING PERPENDICULAR TO THE GROUNDWATER ELEVATION CONTOURS.

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- REFERENCE(S)**
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 2. IMAGERY WORLD IMAGERY: MICROSOFT, VANTOR
 3. MONITORING WELL LOCATION DATA RECEIVED FROM SOUTHERN ILLINOIS POWER COOPERATIVE

CLIENT
 SOUTHERN ILLINOIS POWER COOPERATIVE

PROJECT
 ANNUAL GROUNDWATER AND CORRECTIVE ACTION REPORT
 FORMER EMERY POND

TITLE
**OCTOBER 13, 2025 - GROUNDWATER SURFACE ELEVATION
 CONTOUR MAP**

CONSULTANT	YYYY-MM-DD
DESIGNED	DFS
PREPARED	EMM
REVIEWED	DFS
APPROVED	JF

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

-  Background Monitoring Well
-  Downgradient Monitoring Well
-  November 10, 2025 Groundwater Surface Elevation Contour (1 ft Interval)
-  Approximate Limits of the Former Emery Pond

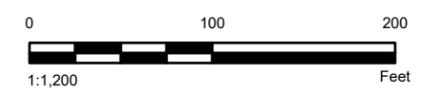


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CLIENT
 SOUTHERN ILLINOIS POWER COOPERATIVE

PROJECT
 ANNUAL GROUNDWATER AND CORRECTIVE ACTION REPORT
 FORMER EMERY POND

TITLE
 NOVEMBER 10, 2025 - GROUNDWATER SURFACE ELEVATION
 CONTOUR MAP

CONSULTANT	
DESIGNED	DFS
PREPARED	EMM
REVIEWED	DFS
APPROVED	JF

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

APPENDIX A

Boring Logs



KEY TO SYMBOLS

Hanson Professional Services Inc.
 1525 S. Sixth Street
 Springfield, Illinois 62703
 (217) 788-2450

LITHOLOGIC SYMBOLS (Unified Soil Classification System)

	ASPHALT ASHPALT		MH ELASTIC SILT
	BASALT BASALT		ML SILT
	BLDRCBBL BOULDERS AND COBBLES		OH HIGH PLASTICITY ORGANIC SILT
	BRECCIA BRECCIA		OL LOW PLASTICITY SILT
	CH HIGH PLASTICITY CLAY		PT PEAT
	CL LOW PLASTICITY CLAY		SANDSTONE
	COAL COAL		SC CLAYEY SAND
	CONC. CONCRETE		SHALE
	FILL FILL		SILTSTONE
	GC CLAYEY GRAVEL		SM SILTY SAND
	GM SILTY GRAVEL		SP POORLY GRADED SAND
	GPS SANDY GRAVEL		SW WELL GRADED SAND
	GP POORLY GRADED GRAVEL		TILL GLACIAL TILL
	GW WELL GRADED GRAVEL		TOPSOIL
	LIMESTONE		

SAMPLER SYMBOLS

	GRAB / AUGER CUTTINGS HAND AUGER [AUG or HA]
	SPLIT SPOON / SPT [SS]
	SHELBY TUBE [SH]
	ROCK CORE [RC]
	CONTINUOUS OR MACROSAMPLER [CS or DP]
	BLIND DRILL [BD]
	MODIFIED CALIFORNIA SAMPLER [MC]

WELL SYMBOLS

	CONCRETE SURFACE SEAL
	HIGH-SOLIDS BENTONITE GROUT
	BENTONITE CHIP SEAL
	SAND PACK W/SOLID RISER
	SAND PACK W/SCREEN

ABBREVIATIONS

LL - Liquid Limit (%)	NP - Non-Plastic
PL - Plastic Limit (%)	Qu - Unconfined Compressive Strength (tsf)
woh - Weight of Hammer	Qp (P) - Pocket Penetrometer
wor - Weight of Rods	TV - Torvane
MaxGS - Maximum Grain Size	PID - Photoionization Detector
<#200 - Percent Passing No. 200 Sieve	ppm - Parts per Million

GROUNDWATER LEVELS

 Level during drilling, or as indicated	 Level after 24 hours, or as indicated	 Level as indicated
---	--	--

Client: Southern Illinois Power Cooperative

Project Name: SIPC Marion CCR

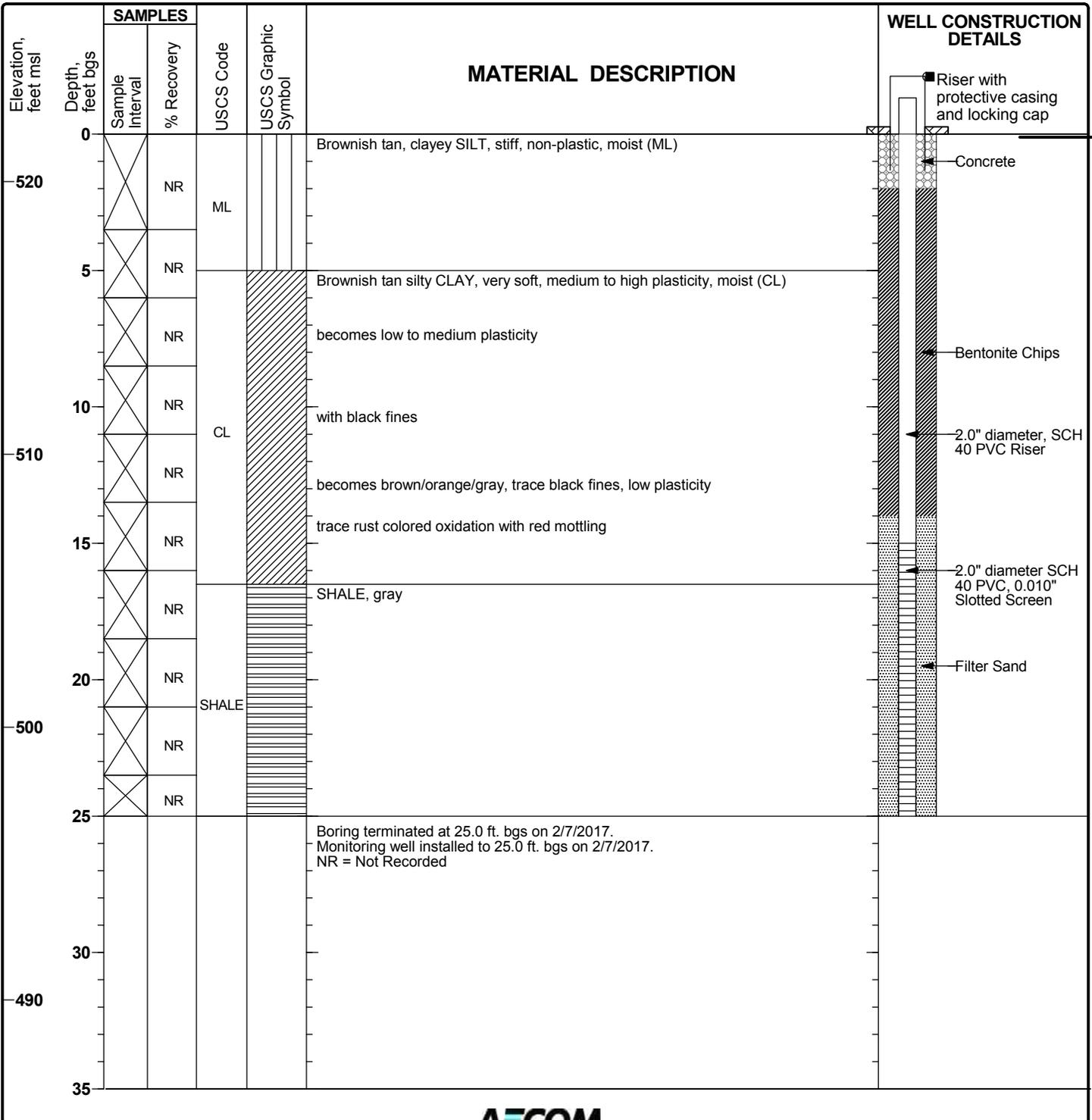
Project Location: SIPC Marion

Project Number: 60535846

Log of EBG

Sheet 1 of 1

Date(s) Drilled and Installed	2/8/2017	Logged By	Suzanne Dale	Reviewed By	
Drilling Method	Hollow Stem Auger	Drilling Contractor	Holcomb Engineering	Total Depth of Borehole	25.0 feet, bgs
Sampling Method	Split Spoon	Water Level TOIC	Not measured	TOC Elevation Ground Surface	524.87 ft, msl 521.74 ft, msl
Size and Type of Well Casing	2-Inch Schedule 40 PVC	Screen Perforation	0.010 - inch	Northing (Plant) Easting (Plant)	346358.14 ft 804168.155 ft
Seal or Backfill	Bentonite Chips				



SIPC MARION SIPC MARION.GPJ 10/9/17

Client: Southern Illinois Power Cooperative

Project Name: SIPC Marion CCR

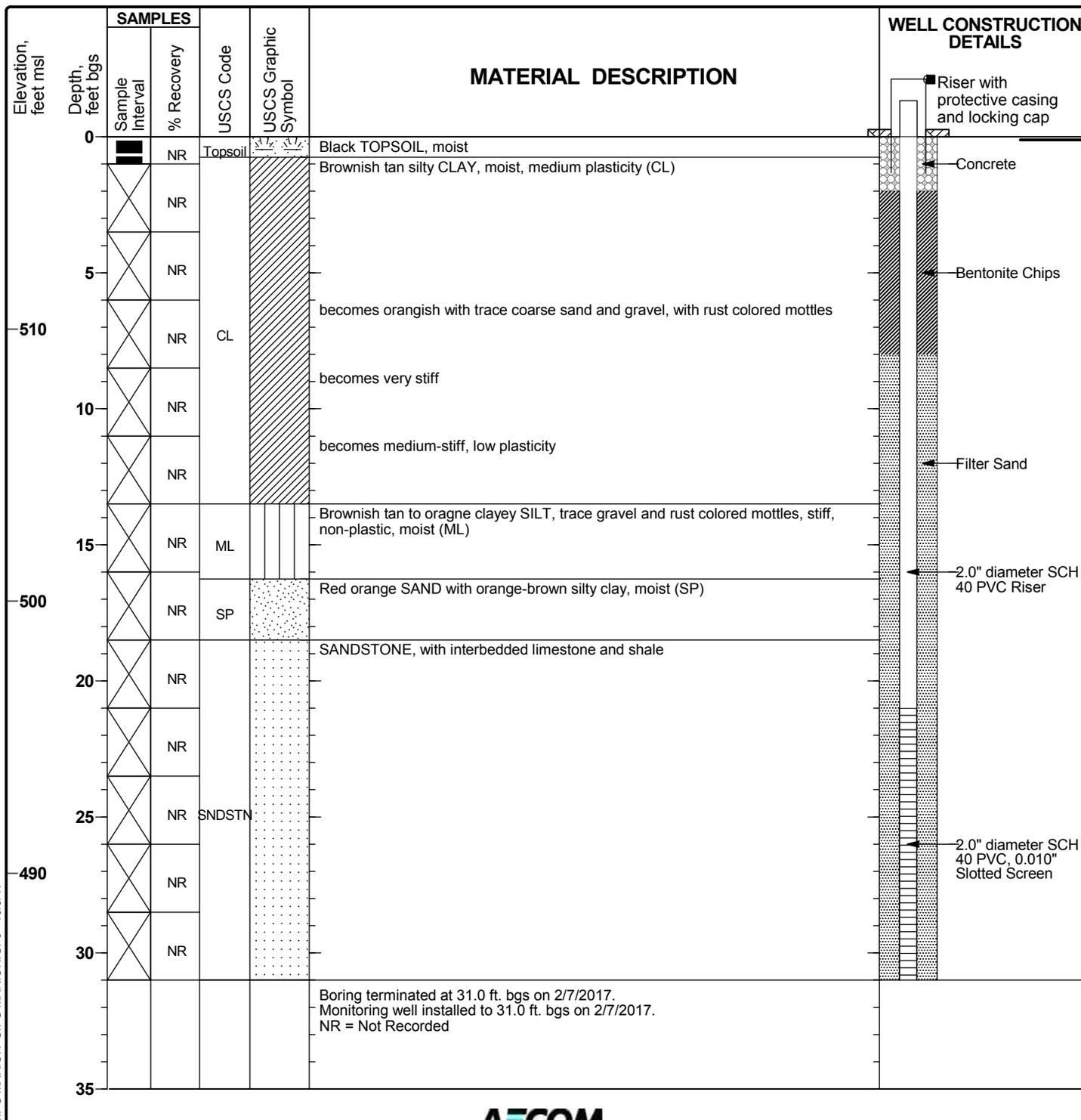
Project Location: SIPC Marion

Project Number: 60535846

Log of EP-1

Sheet 1 of 1

Date(s) Drilled and Installed	2/7/2017	Logged By	Suzanne Dale	Reviewed By	
Drilling Method	Hollow Stem Auger	Drilling Contractor	Holcomb Engineering	Total Depth of Borehole	31.0 feet, bgs
Sampling Method	Split Spoon	Water Level TOIC	Not measured	TOC Elevation Ground Surface	519.72 ft, msl 517.07 ft, msl
Size and Type of Well Casing	2-Inch Schedule 40 PVC	Screen Perforation	0.010 - inch	Northing (Plant)	347042.306 ft
Seal or Backfill	Bentonite Chips			Easting (Plant)	804661.174 ft



SIPC MARION SIPC MARION.GPJ 10/9/17

Client: Southern Illinois Power Cooperative

Project Name: SIPC Marion CCR

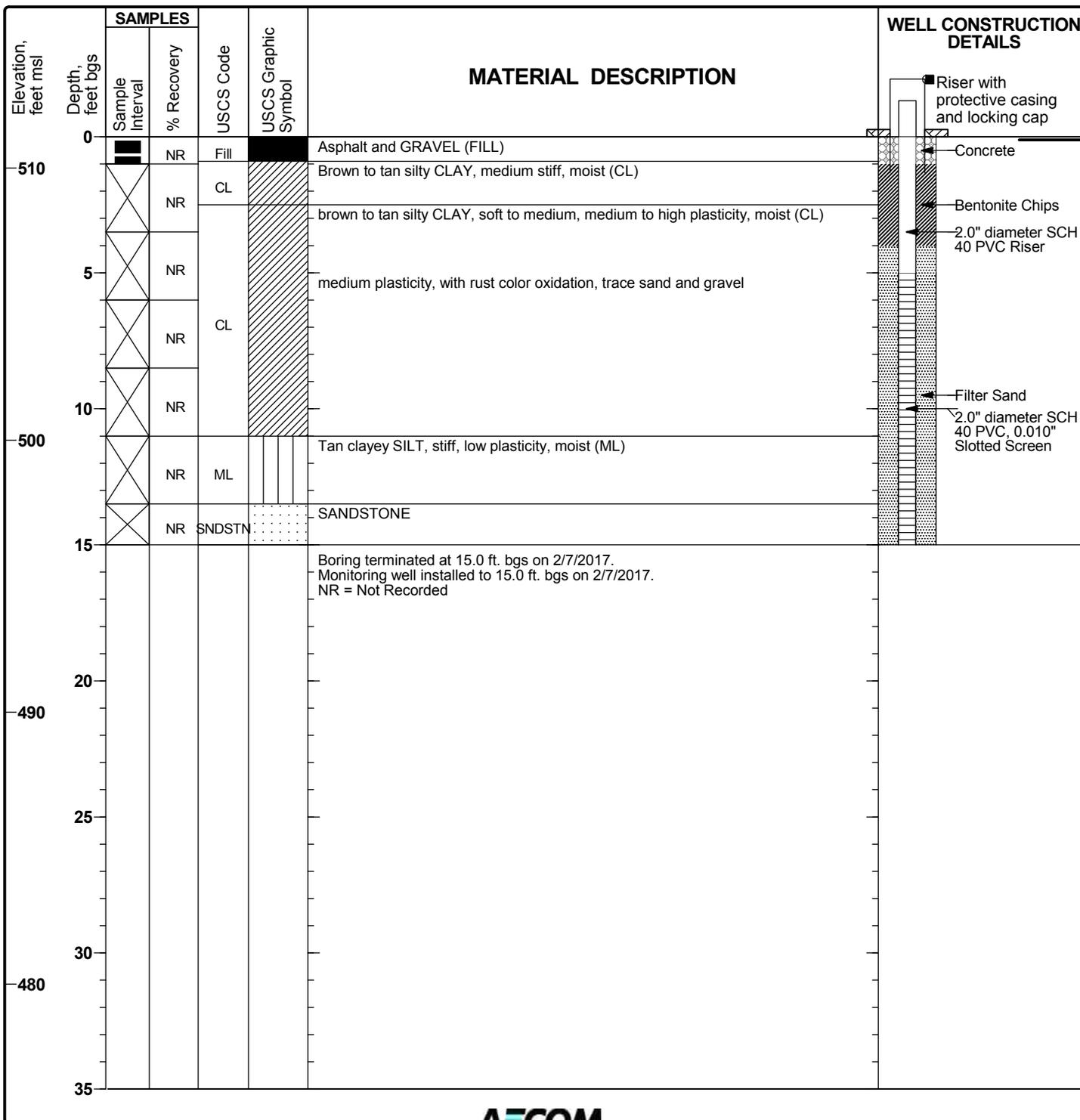
Project Location: SIPC Marion

Project Number: 60535846

Log of EP-2

Sheet 1 of 1

Date(s) Drilled and Installed	2/7/2017	Logged By	Suzanne Dale	Reviewed By	
Drilling Method	Hollow Stem Auger	Drilling Contractor	Holcomb Engineering	Total Depth of Borehole	15.0 feet, bgs
Sampling Method	Split Spoon	Water Level TOIC	Not measured	TOC Elevation Ground Surface	513.79 ft, msl 511.15 ft, msl
Size and Type of Well Casing	2-Inch Schedule 40 PVC	Screen Perforation	0.010 - inch	Northing (Plant) Easting (Plant)	347113.029 ft 804799.408 ft
Seal or Backfill	Bentonite Chips				



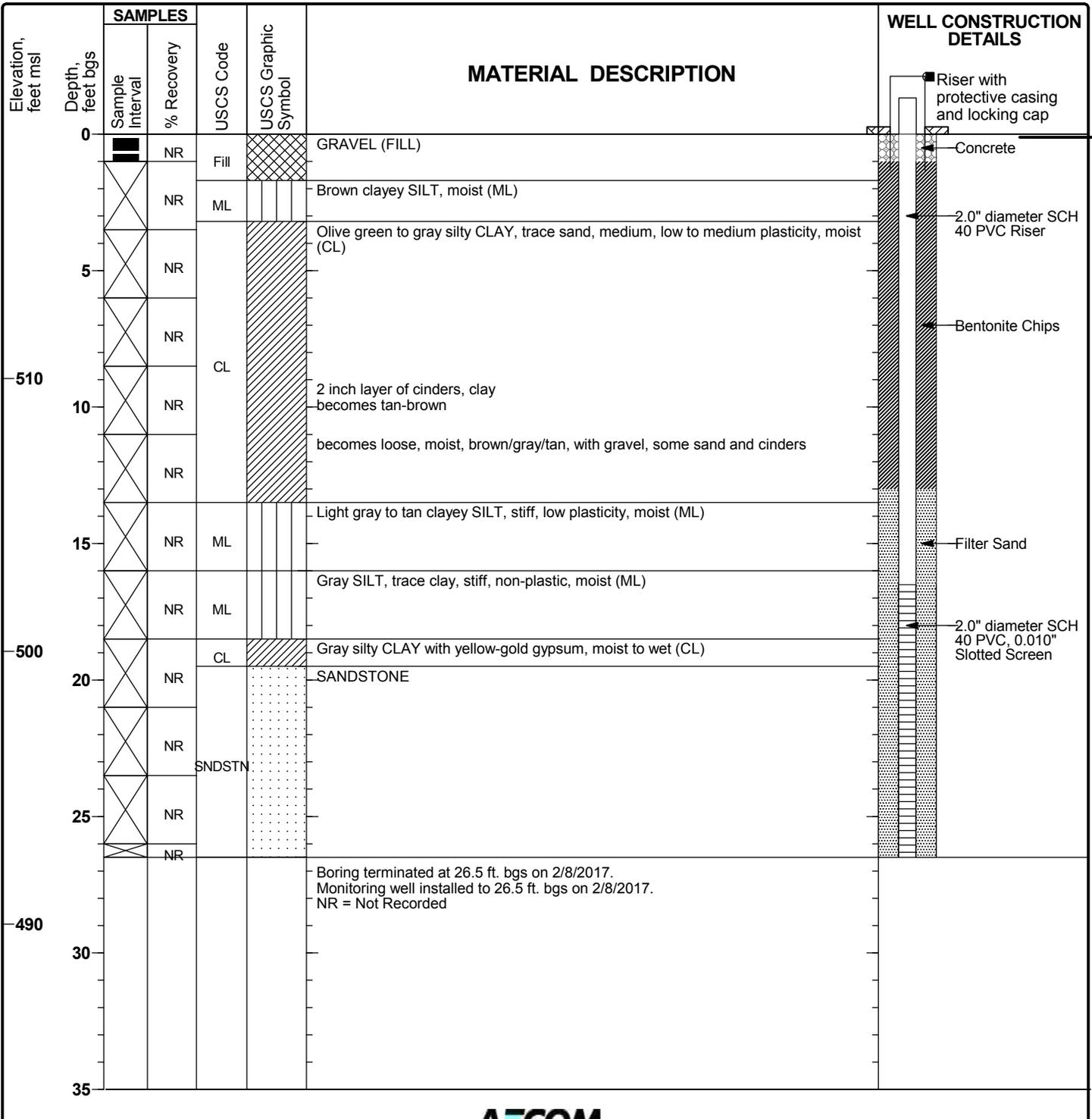
SIPC MARION SIPC MARION.GPJ 10/9/17

Client: Southern Illinois Power Cooperative
 Project Name: SIPC Marion CCR
 Project Location: SIPC Marion
 Project Number: 60535846

Log of EP-3

Sheet 1 of 1

Date(s) Drilled and Installed	2/8/2017	Logged By	Suzanne Dale	Reviewed By	
Drilling Method	Hollow Stem Auger	Drilling Contractor	Holcomb Engineering	Total Depth of Borehole	26.5 feet, bgs
Sampling Method	Split Spoon	Water Level TOIC	Not measured	TOC Elevation Ground Surface	518.95 ft, msl 518.95 ft, msl
Size and Type of Well Casing	2-Inch Schedule 40 PVC	Screen Perforation	0.010 - inch	Northing (Plant)	347245.08 ft
Seal or Backfill	Bentonite Chips			Easting (Plant)	804814.534 ft



SIPC MARION SIPC MARION.GPJ 10/9/17

Client: Southern Illinois Power Cooperative

Project Name: SIPC Marion CCR

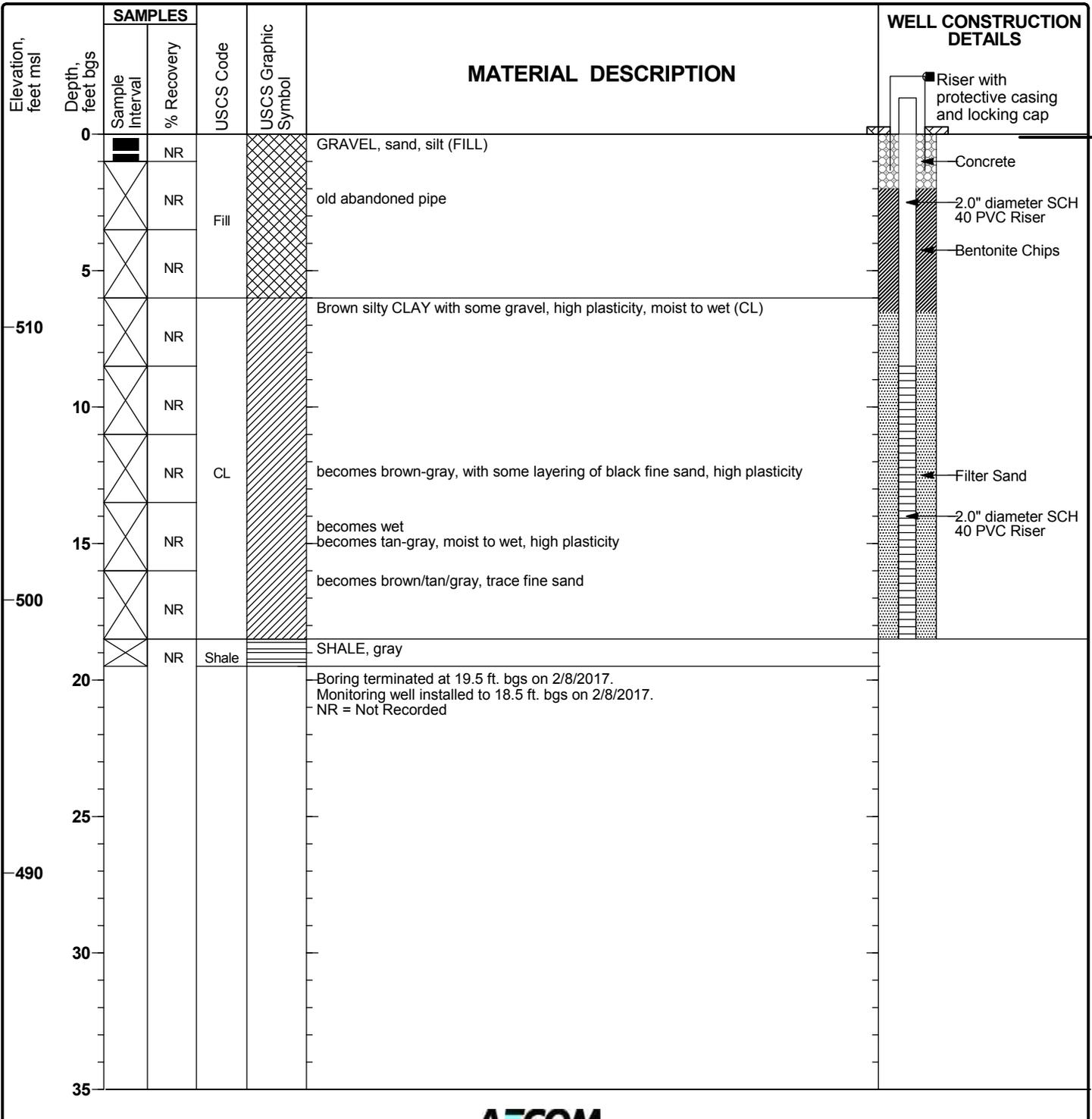
Project Location: SIPC Marion

Project Number: 60535846

Log of EP-4

Sheet 1 of 1

Date(s) Drilled and Installed	2/8/2017	Logged By	Suzanne Dale	Reviewed By	
Drilling Method	Hollow Stem Auger	Drilling Contractor	Holcomb Engineering	Total Depth of Borehole	18.5 feet, bgs
Sampling Method	Split Spoon	Water Level TOIC	Not measured	TOC Elevation Ground Surface	519.74 ft, msl 517.07 ft, msl
Size and Type of Well Casing	2-Inch Schedule 40 PVC	Screen Perforation	0.010 - inch	Northing (Plant) Easting (Plant)	347288.297 ft 804687.527 ft
Seal or Backfill	Bentonite Chips				



SIPC MARION SIPC MARION.GPJ 10/9/17

FIELD BORING LOG



CLIENT: Southern Illinois Power Cooperative
Site: Storm Water Basin Monitoring Wells
Location: Marion Power Station, Marion, IL
Project: 21E0079

CONTRACTOR: Holcomb Foundation Engineering Co.
Rig mfg/model: Bobcat T630 with auger attachment
Drilling Method: 3/4" Hollow Stem Auger

BOREHOLE ID: EP-5
Well ID: EP-5
Surface Elev: 524.64 ft. MSL
Completion: 16.32 ft. BGS
Station: 347,001.63N
 804,473.78E

DATES: Start: 10/5/2021
 Finish: 10/5/2021

FIELD STAFF: Driller: J. Carter
 Helper: J. Taylor

WEATHER: Foggy, cool (low 60's)

Eng/Geo: R. Hasenyager

SAMPLE			TESTING				TOPOGRAPHIC MAP INFORMATION:		WATER LEVEL INFORMATION:						
Number	Recov / Total (in) % Recovery	Type	Blows / 6 in N - Value	RQD	Water Content (%)	Dry Density (lb/ft ³)	Qu (tsf) Qp (tsf)	Failure Type	Depth ft. BGS	Lithologic Description	Borehole Detail	Elevation ft. MSL	Remarks		
	0/60 0%	AGR							2	Yellowish brown (10YR5/6), moist, medium, CLAY with some silt, little sand, and trace gravel.		524			
	0/60 0%	AGR							4			522			
	0/60 0%	AGR							6			520			
	0/60 0%	AGR							8			518			
	0/60 0%	AGR							10			516			
	0/60 0%	AGR							12			514			
	0/60 0%	AGR							14			512			
	0/16 0%	AGR							16			510			
									16			Yellowish brown (10YR5/8), weathered SANDSTONE.			

EOB = 16.3 ft.

NOTE(S): Boring drilled adjacent to DP-4d.

FIELD BORING LOG



CLIENT: Southern Illinois Power Cooperative
Site: Storm Water Basin Monitoring Wells
Location: Marion Power Station, Marion, IL
Project: 21E0079
DATES: Start: 10/4/2021
 Finish: 10/4/2021
WEATHER: Sunny, mild (high 70's)

CONTRACTOR: Holcomb Foundation Engineering Co.
Rig mfg/model: CME 550X
Drilling Method: 3/4" Hollow Stem Auger with split spoon
FIELD STAFF: Driller: J. Carter
 Helper: J. Taylor
 Eng/Geo: R. Hasenyager

BOREHOLE ID: EP-6
Well ID: EP-6
Surface Elev: 502.08 ft. MSL
Completion: 13.62 ft. BGS
Station: 347,034.68N
 804,941.94E

SAMPLE		TESTING				TOPOGRAPHIC MAP INFORMATION:		WATER LEVEL INFORMATION:					
Number	Recov / Total (in) % Recovery	Type	Blows / 6 in N - Value RQD	Water Content (%)	Dry Density (lb/ft ³)	Qu (tsf) Qp (tsf) Failure Type	Quadrangle: Goreville Township: Southern Section 26, Tier 10S; Range 2E	▽ = Dry - during drilling ▽ = 13.00 - at completion ▽ =	Depth ft. BGS	Lithologic Description	Borehole Detail	Elevation ft. MSL	Remarks
	0/12 0%	BD											
2A	17/24 71%	SS	5-7 7-5 N=14	18.7	3.5				2	Yellowish brown (10YR5/4) mottles, moist, medium, SILT with few clay and trace sand.		500	
3A	24/36 67%	SS	2-2 4-4 N=6	24.6	1.5				4	Gray (10YR5/1) with 10% Yellowish brown (10YR5/6) mottles, moist, medium, CLAY with some silt and trace sand.		498	
4A	23/24 96%	SS	1-1 4-4 N=5	20.7	3.5				6	Yellowish brown (10YR5/6) with 20% Gray (10YR6/1) mottles, moist, medium, SILT with few clay, trace sand, and trace gravel.		496	
5A	27/36 75%	SS	7-8 13-13 N=21	12.1	4.0				10	Strong brown (7.5YR5/8), moist, dense, very fine- to coarse-grained SAND with some silt.		492	
6A	21/21 100%	SS	4-10 27-60/3" N=37	15.0	4.0				12	Strong brown (7.5YR5/8) with 10% gray (7.5YHR5/1) mottles, moist, hard, weathered SHALE.		490	
	0/10 0%	BD											

EOB = 13.6 ft.

NOTE(S):

FIELD BORING LOG



CLIENT: Southern Illinois Power Cooperative
Site: Storm Water Basin Monitoring Wells
Location: Marion Power Station, Marion, IL
Project: 21E0079
DATES: Start: 10/4/2021
 Finish: 10/4/2021
WEATHER: Sunny, mild (low 70's)

CONTRACTOR: Holcomb Foundation Engineering Co.
Rig mfg/model: CME 550X
Drilling Method: 3/4" Hollow Stem Auger with split spoon
FIELD STAFF: Driller: J. Carter
 Helper: J. Taylor
 Eng/Geo: R. Hasenyager

BOREHOLE ID: EP-7
Well ID: EP-7
Surface Elev: 512.49 ft. MSL
Completion: 18.50 ft. BGS
Station: 347,219.28N
 804,890.26E

SAMPLE		TESTING				TOPOGRAPHIC MAP INFORMATION:		WATER LEVEL INFORMATION:			
Number	Recov / Total (in) % Recovery	Type	Blows / 6 in N - Value RQD	Water Content (%)	Dry Density (lb/ft ³)	Qu (tsf) Qp (tsf) Failure Type	Depth ft. BGS	Lithologic Description	Borehole Detail	Elevation ft. MSL	Remarks
	0/12 0%	BD						Light bluish gray (5PB8/1), moist, dense, GRAVEL with some sand and some silt.		512	
2A	15/24 63%	SS	2-2 3-3 N=5	14.6	1.0		2	Black (10YR2/1), moist, loose, very fine- to coarse-grained SAND with some silt and trace gravel (Bottom Ash).		510	
3A				17.3	2.0		4	Yellowish brown (10YR5/6), moist, soft, CLAY with some silt and trace sand.			
4A	32/36 89%	SS	2-5 13-7 N=18				6			508	
				21.4	1.0		8			506	
5A	16/24 67%	SS	2-1 2-1 N=3				10	Grayish brown (10YR5/2) with 15% yellowish brown (10YR5/6) mottles, moist, medium CLAY with some silt, trace sand, and trace gravel.		504	
				21.8	1.0		12			502	
6A	17/36 47%	SS	1-2 2-3 N=4				14	Pale brown (10YR6/3), moist, soft, SILT with few clay and trace sand.		500	
				24.0	0.5		16	Yellowish brown (10YR5/4), moist, soft, CLAY with some silt and trace sand.		498	
7A	15/24 63%	SS	woh-1 3-4 N=4	26.2			18	Gray (10YR5/1), moist, soft, SILT with few clay and trace sand.		496	
				24.3	0.5		18	Yellowish brown (10YR5/4), moist, soft, CLAY with some silt and trace sand.		496	
8A	27/36 75%	SS	1-2 2-3 N=4				18	Yellowish brown (10YR5/8), moist, dense, very fine- to medium-grained SANDSTONE.		494	
				24.3			18			494	
	0/6 0%	BD									

EOB = 18.5 ft.

NOTE(S):

APPENDIX B

2025 Groundwater Analytical Reports

December 26, 2024

Jason McLaurin
Southern Illinois Power Cooperation
11543 Lake of Egypt Road
Marion, IL 62959
TEL: (618) 964-1448
FAX:



Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Groundwater Monitoring

WorkOrder: 24110715

Dear Jason McLaurin:

TEKLAB, INC received 11 samples on 12/4/2024 1:00:00 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



Report Contents

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Quality Control Results	26
Receiving Check List	40
Chain of Custody	Appended

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

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)

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

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)

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

Cooler Receipt Temp: 4.5 °C

An employee of Teklab, Inc. collected the sample(s).

Ra226/228 analyses were performed by Summit Environmental Technologies, Inc. See attached report for results and QC.

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: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

Lab ID: 24110715-001

Client Sample ID: EBG

Matrix: GROUNDWATER

Collection Date: 12/02/2024 11:43

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		9.26	ft	1	12/02/2024 11:43	R357276
Elevation of groundwater surface	*	0	0		515.61	ft	1	12/02/2024 11:43	R357276
Measuring Point Elevation	*	0	0		524.87	ft	1	12/02/2024 11:43	R357276
FIELD PURGE VOLUME									
Purge Volume	*	0	0		7.40	gal	1	12/02/2024 11:43	R357276
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		61	NTU	1	12/02/2024 11:43	R357276
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		78	mV	1	12/02/2024 11:43	R357276
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		0.4516	mS/cm	1	12/02/2024 11:43	R357276
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		14.7	°C	1	12/02/2024 11:43	R357276
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		6.40	mg/L	1	12/02/2024 11:43	R357276
SW-846 9040B FIELD									
pH	*	0	1.00		6.97		1	12/02/2024 11:43	R357276
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		400	mg/L	1	12/06/2024 15:00	R357325
<i>Final drying temperature exceed method limits. Quality control samples meet acceptance criteria.</i>									
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		0.56	mg/L	10	12/04/2024 0:36	R356979
Chloride	NELAP	1.00	5.00		9.22	mg/L	10	12/04/2024 0:36	R356979
Sulfate	NELAP	3.00	10.0		78.0	mg/L	10	12/04/2024 0:36	R356979
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0413	mg/L	1	12/11/2024 11:43	231984
Boron	NELAP	0.0090	0.0200		< 0.0200	mg/L	1	12/11/2024 11:43	231984
Calcium	NELAP	0.0350	0.100		10.2	mg/L	1	12/11/2024 11:43	231984
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	12/07/2024 2:08	231984
Arsenic	NELAP	0.0004	0.0010	J	0.0005	mg/L	5	12/07/2024 2:08	231984
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 2:08	231984
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 2:08	231984
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	12/07/2024 2:08	231984
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	12/07/2024 2:08	231984
Lead	NELAP	0.0006	0.0010	B	< 0.0010	mg/L	5	12/10/2024 19:33	231984
Lithium	*	0.0015	0.0030		0.0159	mg/L	5	12/07/2024 2:08	231984
Molybdenum	NELAP	0.0006	0.0015	J	0.0014	mg/L	5	12/10/2024 19:33	231984
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	12/07/2024 2:08	231984
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	12/07/2024 2:08	231984
<i>Contamination present in the MBLK.. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	12/09/2024 13:40	231990
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

Lab ID: 24110715-001

Client Sample ID: EBG

Matrix: GROUNDWATER

Collection Date: 12/02/2024 11:43

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228									
Radium-228	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

Lab ID: 24110715-002

Client Sample ID: EP-1

Matrix: GROUNDWATER

Collection Date: 12/02/2024 12:56

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		6.55	ft	1	12/02/2024 12:56	R357276
Elevation of groundwater surface	*	0	0		513.17	ft	1	12/02/2024 12:56	R357276
Measuring Point Elevation	*	0	0		519.72	ft	1	12/02/2024 12:56	R357276
FIELD PURGE VOLUME									
Purge Volume	*	0	0		1.10	gal	1	12/02/2024 12:56	R357276
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		4.0	NTU	1	12/02/2024 12:56	R357276
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		128	mV	1	12/02/2024 12:56	R357276
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2.4010	mS/cm	1	12/02/2024 12:56	R357276
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		13.6	°C	1	12/02/2024 12:56	R357276
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		2.66	mg/L	1	12/02/2024 12:56	R357276
SW-846 9040B FIELD									
pH	*	0	1.00		6.31		1	12/02/2024 12:56	R357276
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		2640	mg/L	1	12/06/2024 15:01	R357325
<i>Final drying temperature exceed method limits. Quality control samples meet acceptance criteria.</i>									
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		ND	mg/L	10	12/04/2024 1:22	R356979
Chloride	NELAP	1.00	5.00		45.6	mg/L	10	12/04/2024 1:22	R356979
Sulfate	NELAP	3.00	10.0		1560	mg/L	10	12/04/2024 1:22	R356979
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0155	mg/L	1	12/11/2024 11:44	231984
Boron	NELAP	0.0090	0.0200		1.56	mg/L	1	12/11/2024 11:44	231984
Calcium	NELAP	0.0350	0.100		535	mg/L	1	12/11/2024 11:44	231984
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	12/07/2024 2:14	231984
Arsenic	NELAP	0.0004	0.0010	J	0.0006	mg/L	5	12/07/2024 2:14	231984
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 2:14	231984
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 2:14	231984
Chromium	NELAP	0.0007	0.0015		0.0191	mg/L	5	12/07/2024 2:14	231984
Cobalt	NELAP	0.0001	0.0010	J	0.0001	mg/L	5	12/07/2024 2:14	231984
Lead	NELAP	0.0006	0.0010		0.0020	mg/L	5	12/11/2024 8:51	231984
Lithium	*	0.0015	0.0030		0.0113	mg/L	5	12/07/2024 2:14	231984
Molybdenum	NELAP	0.0006	0.0015		0.0034	mg/L	5	12/10/2024 19:38	231984
Selenium	NELAP	0.0006	0.0010		0.0015	mg/L	5	12/10/2024 19:38	231984
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	12/10/2024 19:38	231984
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	12/09/2024 13:47	231990
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096
Radium-228	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

Lab ID: 24110715-003

Client Sample ID: EP-2

Matrix: GROUNDWATER

Collection Date: 12/03/2024 11:08

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		11.21	ft	1	12/03/2024 11:08	R357276
Elevation of groundwater surface	*	0	0		502.58	ft	1	12/03/2024 11:08	R357276
Measuring Point Elevation	*	0	0		513.79	ft	1	12/03/2024 11:08	R357276
FIELD PURGE VOLUME									
Purge Volume	*	0	0		4.00	gal	1	12/03/2024 11:08	R357276
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		6.2	NTU	1	12/03/2024 11:08	R357276
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		-73	mV	1	12/03/2024 11:08	R357276
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2.9379	mS/cm	1	12/03/2024 11:08	R357276
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		13.5	°C	1	12/03/2024 11:08	R357276
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		2.09	mg/L	1	12/03/2024 11:08	R357276
SW-846 9040B FIELD									
pH	*	0	1.00		6.42		1	12/03/2024 11:08	R357276
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	27	33		3190	mg/L	1.67	12/06/2024 14:54	R357325
<i>Final drying temperature exceed method limits. Quality control samples meet acceptance criteria.</i>									
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		ND	mg/L	10	12/04/2024 17:19	R357028
Chloride	NELAP	1.00	5.00		69.1	mg/L	10	12/04/2024 17:19	R357028
Sulfate	NELAP	3.00	10.0		1760	mg/L	10	12/04/2024 17:19	R357028
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0164	mg/L	1	12/11/2024 11:44	231984
Boron	NELAP	0.0090	0.0200		0.282	mg/L	1	12/11/2024 11:44	231984
Calcium	NELAP	0.0350	0.100		352	mg/L	1	12/11/2024 11:44	231984
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	12/07/2024 2:20	231984
Arsenic	NELAP	0.0004	0.0010		0.0025	mg/L	5	12/07/2024 2:20	231984
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 2:20	231984
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 2:20	231984
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	12/07/2024 2:20	231984
Cobalt	NELAP	0.0001	0.0010		0.0150	mg/L	5	12/07/2024 2:20	231984
Lead	NELAP	0.0006	0.0010	B	< 0.0010	mg/L	5	12/10/2024 20:24	231984
Lithium	*	0.0015	0.0030		0.0106	mg/L	5	12/07/2024 2:20	231984
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	12/10/2024 20:24	231984
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	12/07/2024 2:20	231984
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	12/10/2024 20:24	231984
<i>Contamination present in the MBLK. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	12/09/2024 13:54	231990
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

Lab ID: 24110715-003

Client Sample ID: EP-2

Matrix: GROUNDWATER

Collection Date: 12/03/2024 11:08

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228									
Radium-228	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096



Laboratory Results

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

Client: Southern Illinois Power Cooperation
 Client Project: Groundwater Monitoring
 Lab ID: 24110715-004
 Matrix: GROUNDWATER

Work Order: 24110715
 Report Date: 26-Dec-24

Client Sample ID: EP-3

Collection Date: 12/02/2024 14:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		17.42	ft	1	12/02/2024 14:05	R357276
Elevation of groundwater surface	*	0	0		501.53	ft	1	12/02/2024 14:05	R357276
Measuring Point Elevation	*	0	0		518.95	ft	1	12/02/2024 14:05	R357276
FIELD PURGE VOLUME									
Purge Volume	*	0	0		0.70	gal	1	12/02/2024 14:05	R357276
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		7.1	NTU	1	12/02/2024 14:05	R357276
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		-38	mV	1	12/02/2024 14:05	R357276
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2.0144	mS/cm	1	12/02/2024 14:05	R357276
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		14.4	°C	1	12/02/2024 14:05	R357276
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.55	mg/L	1	12/02/2024 14:05	R357276
SW-846 9040B FIELD									
pH	*	0	1.00		6.29		1	12/02/2024 14:05	R357276
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	80	100		940	mg/L	5	12/06/2024 15:01	R357325
<i>Final drying temperature exceed method limits. Quality control samples meet acceptance criteria.</i>									
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		ND	mg/L	10	12/04/2024 1:57	R356979
Chloride	NELAP	1.00	5.00		136	mg/L	10	12/04/2024 1:57	R356979
Sulfate	NELAP	3.00	10.0		110	mg/L	10	12/04/2024 1:57	R356979
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0905	mg/L	1	12/11/2024 11:45	231984
Boron	NELAP	0.0090	0.0200		0.0615	mg/L	1	12/11/2024 11:45	231984
Calcium	NELAP	0.0350	0.100		33.0	mg/L	1	12/11/2024 11:45	231984
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	12/07/2024 2:26	231984
Arsenic	NELAP	0.0004	0.0010		0.0102	mg/L	5	12/07/2024 2:26	231984
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 2:26	231984
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 2:26	231984
Chromium	NELAP	0.0007	0.0015		0.0023	mg/L	5	12/07/2024 2:26	231984
Cobalt	NELAP	0.0001	0.0010		0.0898	mg/L	5	12/07/2024 2:26	231984
Lead	NELAP	0.0006	0.0010	B	< 0.0010	mg/L	5	12/10/2024 20:30	231984
Lithium	*	0.0015	0.0030		0.0241	mg/L	5	12/07/2024 2:26	231984
Molybdenum	NELAP	0.0006	0.0015	J	0.0007	mg/L	5	12/10/2024 20:30	231984
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	12/07/2024 2:26	231984
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	12/07/2024 2:26	231984
<i>Contamination present in the MBLK. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020	S	< 0.00020	mg/L	1	12/09/2024 13:56	231990
<i>Matrix spike did not recover within control limits due to matrix interference. Verified by bench spike.</i>									



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

Lab ID: 24110715-004

Client Sample ID: EP-3

Matrix: GROUNDWATER

Collection Date: 12/02/2024 14:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096
Radium-228	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096



Laboratory Results

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

Client: Southern Illinois Power Cooperation
 Client Project: Groundwater Monitoring
 Lab ID: 24110715-005
 Matrix: GROUNDWATER

Work Order: 24110715
 Report Date: 26-Dec-24

Client Sample ID: EP-4

Collection Date: 12/02/2024 11:59

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		8.60	ft	1	12/02/2024 11:59	R357276
Elevation of groundwater surface	*	0	0		511.14	ft	1	12/02/2024 11:59	R357276
Measuring Point Elevation	*	0	0		519.74	ft	1	12/02/2024 11:59	R357276
FIELD PURGE VOLUME									
Purge Volume	*	0	0		1.80	gal	1	12/02/2024 11:59	R357276
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		22	NTU	1	12/02/2024 11:59	R357276
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		-32	mV	1	12/02/2024 11:59	R357276
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2.3486	mS/cm	1	12/02/2024 11:59	R357276
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		9.2	°C	1	12/02/2024 11:59	R357276
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.85	mg/L	1	12/02/2024 11:59	R357276
SW-846 9040B FIELD									
pH	*	0	1.00		6.04		1	12/02/2024 11:59	R357276
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	80	100		1720	mg/L	5	12/06/2024 15:03	R357325
<i>Final drying temperature exceed method limits. Quality control samples meet acceptance criteria.</i>									
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		ND	mg/L	10	12/04/2024 2:09	R356979
Chloride	NELAP	1.00	5.00		493	mg/L	10	12/04/2024 2:09	R356979
Sulfate	NELAP	3.00	10.0		408	mg/L	10	12/04/2024 2:09	R356979
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0357	mg/L	1	12/11/2024 11:46	231984
Boron	NELAP	0.0090	0.0200		9.94	mg/L	1	12/11/2024 11:46	231984
Calcium	NELAP	0.0350	0.100		149	mg/L	1	12/11/2024 11:46	231984
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	12/07/2024 2:32	231984
Arsenic	NELAP	0.0004	0.0010		0.0169	mg/L	5	12/07/2024 2:32	231984
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 2:32	231984
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 2:32	231984
Chromium	NELAP	0.0007	0.0015		0.0040	mg/L	5	12/07/2024 2:32	231984
Cobalt	NELAP	0.0001	0.0010		0.171	mg/L	5	12/07/2024 2:32	231984
Lead	NELAP	0.0006	0.0010	B	< 0.0010	mg/L	5	12/10/2024 20:36	231984
Lithium	*	0.0015	0.0030	J	0.0025	mg/L	5	12/07/2024 2:32	231984
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	12/10/2024 20:36	231984
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	12/07/2024 2:32	231984
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	12/10/2024 20:36	231984
<i>Contamination present in the MBLK. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		0.00101	mg/L	1	12/06/2024 10:20	231991
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

Lab ID: 24110715-005

Client Sample ID: EP-4

Matrix: GROUNDWATER

Collection Date: 12/02/2024 11:59

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228									
Radium-228	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

Lab ID: 24110715-006

Client Sample ID: EP-5

Matrix: GROUNDWATER

Collection Date: 12/02/2024 12:06

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		14.63	ft	1	12/02/2024 12:06	R357276
Elevation of groundwater surface	*	0	0		512.96	ft	1	12/02/2024 12:06	R357276
Measuring Point Elevation	*	0	0		527.59	ft	1	12/02/2024 12:06	R357276
FIELD PURGE VOLUME									
Purge Volume	*	0	0		0.70	gal	1	12/02/2024 12:06	R357276
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		5.6	NTU	1	12/02/2024 12:06	R357276
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		95	mV	1	12/02/2024 12:06	R357276
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		0.3663	mS/cm	1	12/02/2024 12:06	R357276
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		13.2	°C	1	12/02/2024 12:06	R357276
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		3.94	mg/L	1	12/02/2024 12:06	R357276
SW-846 9040B FIELD									
pH	*	0	1.00		6.65		1	12/02/2024 12:06	R357276
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	20	25		360	mg/L	1.25	12/06/2024 15:03	R357325
<i>Final drying temperature exceed method limits. Quality control samples meet acceptance criteria.</i>									
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50	J	0.39	mg/L	10	12/04/2024 2:21	R356979
Chloride	NELAP	1.0	5.0	J	2.9	mg/L	10	12/04/2024 2:21	R356979
Sulfate	NELAP	3.00	10.0		88.8	mg/L	10	12/04/2024 2:21	R356979
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0427	mg/L	1	12/11/2024 11:47	231984
Boron	NELAP	0.0090	0.020	J	0.011	mg/L	1	12/11/2024 11:47	231984
Calcium	NELAP	0.0350	0.100		13.2	mg/L	1	12/11/2024 11:47	231984
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	12/07/2024 2:38	231984
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	12/07/2024 2:38	231984
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 2:38	231984
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 2:38	231984
Chromium	NELAP	0.0007	0.0015		0.0043	mg/L	5	12/07/2024 2:38	231984
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	12/07/2024 2:38	231984
Lead	NELAP	0.0006	0.0010	B	< 0.0010	mg/L	5	12/10/2024 20:41	231984
Lithium	*	0.0015	0.0030	J	0.0026	mg/L	5	12/07/2024 2:38	231984
Molybdenum	NELAP	0.0006	0.0015		0.0017	mg/L	5	12/10/2024 20:41	231984
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	12/07/2024 2:38	231984
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	12/07/2024 2:38	231984
<i>Contamination present in the MBLK. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020	J	0.00014	mg/L	1	12/06/2024 10:22	231991
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096



Laboratory Results

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

Client: Southern Illinois Power Cooperation
Client Project: Groundwater Monitoring
Lab ID: 24110715-006
Matrix: GROUNDWATER

Work Order: 24110715
Report Date: 26-Dec-24

Client Sample ID: EP-5

Collection Date: 12/02/2024 12:06

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228									
Radium-228	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

Lab ID: 24110715-007

Client Sample ID: EP-6

Matrix: GROUNDWATER

Collection Date: 12/03/2024 13:08

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		3.66	ft	1	12/03/2024 13:08	R357276
Elevation of groundwater surface	*	0	0		501.45	ft	1	12/03/2024 13:08	R357276
Measuring Point Elevation	*	0	0		505.11	ft	1	12/03/2024 13:08	R357276
FIELD PURGE VOLUME									
Purge Volume	*	0	0		6.30	gal	1	12/03/2024 13:08	R357276
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		37	NTU	1	12/03/2024 13:08	R357276
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		259	mV	1	12/03/2024 13:08	R357276
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		0.2637	mS/cm	1	12/03/2024 13:08	R357276
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		13.9	°C	1	12/03/2024 13:08	R357276
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		2.49	mg/L	1	12/03/2024 13:08	R357276
SW-846 9040B FIELD									
pH	*	0	1.00		5.03		1	12/03/2024 13:08	R357276
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		288	mg/L	1	12/06/2024 14:55	R357325
<i>Final drying temperature exceed method limits. Quality control samples meet acceptance criteria.</i>									
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		ND	mg/L	10	12/04/2024 17:54	R357028
Chloride	NELAP	1.00	5.00		18.9	mg/L	10	12/04/2024 17:54	R357028
Sulfate	NELAP	3.00	10.0		62.9	mg/L	10	12/04/2024 17:54	R357028
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0321	mg/L	1	12/11/2024 11:47	231984
Boron	NELAP	0.0090	0.0200		< 0.0200	mg/L	1	12/11/2024 11:47	231984
Calcium	NELAP	0.0350	0.100		1.78	mg/L	1	12/11/2024 11:47	231984
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	12/07/2024 2:44	231984
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	12/07/2024 2:44	231984
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 2:44	231984
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 2:44	231984
Chromium	NELAP	0.0007	0.0015		0.0041	mg/L	5	12/07/2024 2:44	231984
Cobalt	NELAP	0.0001	0.0010	J	0.0008	mg/L	5	12/07/2024 2:44	231984
Lead	NELAP	0.0006	0.0010	B	< 0.0010	mg/L	5	12/10/2024 20:47	231984
Lithium	*	0.0015	0.0030		0.0131	mg/L	5	12/07/2024 2:44	231984
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	12/10/2024 20:47	231984
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	12/07/2024 2:44	231984
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	12/07/2024 2:44	231984
<i>Contamination present in the MBLK. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020	J	0.00011	mg/L	1	12/06/2024 10:25	231991
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

Lab ID: 24110715-007

Client Sample ID: EP-6

Matrix: GROUNDWATER

Collection Date: 12/03/2024 13:08

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228									
Radium-228	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096



Laboratory Results

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

Client: Southern Illinois Power Cooperation
 Client Project: Groundwater Monitoring
 Lab ID: 24110715-008
 Matrix: GROUNDWATER

Work Order: 24110715
 Report Date: 26-Dec-24

Client Sample ID: EP-7

Collection Date: 12/02/2024 12:47

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		14.63	ft	1	12/02/2024 12:47	R357276
Elevation of groundwater surface	*	0	0		500.81	ft	1	12/02/2024 12:47	R357276
Measuring Point Elevation	*	0	0		515.44	ft	1	12/02/2024 12:47	R357276
FIELD PURGE VOLUME									
Purge Volume	*	0	0		0.70	gal	1	12/02/2024 12:47	R357276
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		5.4	NTU	1	12/02/2024 12:47	R357276
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		-1	mV	1	12/02/2024 12:47	R357276
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1.4978	mS/cm	1	12/02/2024 12:47	R357276
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		14.6	°C	1	12/02/2024 12:47	R357276
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.76	mg/L	1	12/02/2024 12:47	R357276
SW-846 9040B FIELD									
pH	*	0	1.00		5.83		1	12/02/2024 12:47	R357276
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	53	67		1190	mg/L	3.33	12/06/2024 15:04	R357325
<i>Final drying temperature exceed method limits. Quality control samples meet acceptance criteria.</i>									
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		ND	mg/L	10	12/04/2024 2:32	R356979
Chloride	NELAP	1.00	5.00		231	mg/L	10	12/04/2024 2:32	R356979
Sulfate	NELAP	3.00	10.0		247	mg/L	10	12/04/2024 2:32	R356979
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0396	mg/L	1	12/11/2024 11:48	231984
Boron	NELAP	0.0090	0.0200		0.533	mg/L	1	12/11/2024 11:48	231984
Calcium	NELAP	0.0350	0.100		67.8	mg/L	1	12/11/2024 11:48	231984
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	12/07/2024 3:15	231984
Arsenic	NELAP	0.0004	0.0010		0.0083	mg/L	5	12/07/2024 3:15	231984
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 3:15	231984
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 3:15	231984
Chromium	NELAP	0.0007	0.0015		0.0022	mg/L	5	12/07/2024 3:15	231984
Cobalt	NELAP	0.0001	0.0010		0.147	mg/L	5	12/07/2024 3:15	231984
Lead	NELAP	0.0006	0.0010	B	< 0.0010	mg/L	5	12/10/2024 20:53	231984
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	12/07/2024 3:15	231984
Molybdenum	NELAP	0.0006	0.0015	J	0.0006	mg/L	5	12/10/2024 20:53	231984
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	12/07/2024 3:15	231984
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	12/07/2024 3:15	231984
<i>Contamination present in the MBLK. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020	JS	0.00006	mg/L	1	12/06/2024 10:27	231991
<i>Matrix spike did not recover within control limits due to matrix interference. Verified by bench spike.</i>									



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

Lab ID: 24110715-008

Client Sample ID: EP-7

Matrix: GROUNDWATER

Collection Date: 12/02/2024 12:47

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096
Radium-228	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096



Laboratory Results

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

Client: Southern Illinois Power Cooperation
 Client Project: Groundwater Monitoring
 Lab ID: 24110715-009
 Matrix: AQUEOUS

Work Order: 24110715
 Report Date: 26-Dec-24

Client Sample ID: Equipment Blank
 Collection Date: 12/04/2024 12:58

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		78	mg/L	1	12/06/2024 14:58	R357325
<i>Final drying temperature exceed method limits. Quality control samples meet acceptance criteria.</i>									
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		ND	mg/L	10	12/05/2024 9:06	R357101
Chloride	NELAP	1.00	5.00		ND	mg/L	10	12/05/2024 9:06	R357101
Sulfate	NELAP	3.00	10.0		ND	mg/L	10	12/05/2024 9:06	R357101
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		< 0.0025	mg/L	1	12/11/2024 11:49	231984
Boron	NELAP	0.0090	0.0200		< 0.0200	mg/L	1	12/11/2024 11:49	231984
Calcium	NELAP	0.0350	0.100		< 0.100	mg/L	1	12/11/2024 11:49	231984
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	12/07/2024 3:21	231984
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	12/07/2024 3:21	231984
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 3:21	231984
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 3:21	231984
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	12/07/2024 3:21	231984
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	12/07/2024 3:21	231984
Lead	NELAP	0.0006	0.0010	B	< 0.0010	mg/L	5	12/10/2024 20:58	231984
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	12/07/2024 3:21	231984
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	12/10/2024 20:58	231984
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	12/07/2024 3:21	231984
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	12/07/2024 3:21	231984
<i>Contamination present in the MBLK. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	12/09/2024 13:35	231991
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096
Radium-228	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

Lab ID: 24110715-010

Client Sample ID: Field Blank

Matrix: AQUEOUS

Collection Date: 12/03/2024 11:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		44	mg/L	1	12/06/2024 14:58	R357325
<i>Final drying temperature exceed method limits. Quality control samples meet acceptance criteria.</i>									
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		ND	mg/L	10	12/04/2024 18:06	R357028
Chloride	NELAP	1.00	5.00		ND	mg/L	10	12/04/2024 18:06	R357028
Sulfate	NELAP	3.00	10.0		ND	mg/L	10	12/04/2024 18:06	R357028
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		< 0.0025	mg/L	1	12/11/2024 13:10	231984
Boron	NELAP	0.0090	0.0200		< 0.0200	mg/L	1	12/11/2024 13:10	231984
Calcium	NELAP	0.035	0.10	J	0.044	mg/L	1	12/11/2024 13:10	231984
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	12/07/2024 3:27	231984
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	12/07/2024 3:27	231984
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 3:27	231984
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 3:27	231984
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	12/07/2024 3:27	231984
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	12/07/2024 3:27	231984
Lead	NELAP	0.0006	0.0010	B	< 0.0010	mg/L	5	12/10/2024 22:13	231984
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	12/07/2024 3:27	231984
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	12/10/2024 22:13	231984
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	12/07/2024 3:27	231984
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	12/07/2024 3:27	231984
<i>Contamination present in the MBLK. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	12/06/2024 10:41	231991
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096
Radium-228	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096



Laboratory Results

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

Client: Southern Illinois Power Cooperation
 Client Project: Groundwater Monitoring
 Lab ID: 24110715-011
 Matrix: GROUNDWATER

Work Order: 24110715
 Report Date: 26-Dec-24

Client Sample ID: Field Duplicate

Collection Date: 12/02/2024 12:56

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		6.55	ft	1	12/02/2024 12:56	R357276
Elevation of groundwater surface	*	0	0		513.17	ft	1	12/02/2024 12:56	R357276
Measuring Point Elevation	*	0	0		519.72	ft	1	12/02/2024 12:56	R357276
FIELD PURGE VOLUME									
Purge Volume	*	0	0		1.10	gal	1	12/02/2024 12:56	R357276
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		4.0	NTU	1	12/02/2024 12:56	R357276
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		128	mV	1	12/02/2024 12:56	R357276
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2.4010	mS/cm	1	12/02/2024 12:56	R357276
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		13.6	°C	1	12/02/2024 12:56	R357276
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		2.66	mg/L	1	12/02/2024 12:56	R357276
SW-846 9040B FIELD									
pH	*	0	1.00		6.31		1	12/02/2024 12:56	R357276
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	20	25		2730	mg/L	1.25	12/06/2024 15:04	R357325
<i>Final drying temperature exceed method limits. Quality control samples meet acceptance criteria.</i>									
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		ND	mg/L	10	12/04/2024 2:44	R356979
Chloride	NELAP	1.00	5.00		46.0	mg/L	10	12/04/2024 2:44	R356979
Sulfate	NELAP	3.00	10.0		1570	mg/L	10	12/04/2024 2:44	R356979
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0148	mg/L	1	12/12/2024 15:23	232207
Boron	NELAP	0.0090	0.0200		1.55	mg/L	1	12/11/2024 13:11	231984
Calcium	NELAP	0.0350	0.100	S	532	mg/L	1	12/11/2024 13:11	231984
<i>Matrix spike control limits are not applicable due to high sample/spike ratio.</i>									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	12/10/2024 21:04	231984
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	12/10/2024 21:04	231984
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/07/2024 3:58	231984
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	12/10/2024 21:04	231984
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	12/07/2024 3:58	231984
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	12/07/2024 3:58	231984
Lead	NELAP	0.0006	0.0010	B	< 0.0010	mg/L	5	12/10/2024 21:04	231984
Lithium	*	0.0015	0.0030		0.0097	mg/L	5	12/07/2024 3:58	231984
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	12/10/2024 21:04	231984
Selenium	NELAP	0.0006	0.0010		0.0017	mg/L	5	12/10/2024 21:04	231984
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	12/10/2024 21:04	231984
<i>Contamination present in the MBLK. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	12/06/2024 10:43	231991
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

Lab ID: 24110715-011

Client Sample ID: Field Duplicate

Matrix: GROUNDWATER

Collection Date: 12/02/2024 12:56

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228									
Radium-228	*	0	0		See Attached	pci/L	1	12/20/2024 14:02	R358096



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

STANDARD METHODS 2510 B FIELD

Batch R357276		SampType: LCS		Units mS/cm							
SampID: LCS-1-BG											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1.4120	1.412	0	100.0	90	110	12/02/2024	

Batch R357276		SampType: LCS		Units mS/cm							
SampID: LCS-1-JC											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1.4150	1.412	0	100.2	90	110	12/02/2024	

Batch R357276		SampType: LCS		Units mS/cm							
SampID: LCS-2-JC											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1.4150	1.412	0	100.2	90	110	12/03/2024	

SW-846 9040B FIELD

Batch R357276		SampType: LCS		Units							
SampID: LCS-1-BG											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.00	7.000	0	100.0	98.57	101.4	12/02/2024	

Batch R357276		SampType: LCS		Units							
SampID: LCS-1-JC											
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	12/02/2024	

Batch R357276		SampType: LCS		Units							
SampID: LCS-2-JC											
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	12/03/2024	

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R357325		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	12/06/2024	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	12/06/2024	



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R357325		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		1010	1000	0	100.6	90	110	12/06/2024
Total Dissolved Solids		20		1020	1000	0	102.4	90	110	12/06/2024

Batch R357325		SampType: DUP		Units mg/L						
SampID: 24110715-010ADUP										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		40				44.00	9.52	12/06/2024

Batch R357325		SampType: DUP		Units mg/L						
SampID: 24112362-001ADUP										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		200	H	18300				16660	9.49	12/06/2024

Batch R357325		SampType: DUP		Units mg/L						
SampID: 24120194-001ADUP										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		100		3220				3030	6.08	12/06/2024

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R356979		SampType: MBLK		Units mg/L						
SampID: MBLK/ICB										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		ND						12/03/2024
Chloride		0.50		ND						12/03/2024
Sulfate		1.00		ND						12/03/2024

Batch R356979		SampType: LCS		Units mg/L						
SampID: LCS/ICV/QCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		1.01	1.000	0	101.0	90	110	12/03/2024
Chloride		0.50		20.1	20.00	0	100.6	90	110	12/03/2024
Sulfate		1.00		18.3	20.00	0	91.5	90	110	12/03/2024



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R356979		SampType: MS		Units mg/L						
SampID: 24110715-002AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.4	10.00	0	104.5	80	120	12/04/2024
Chloride		5.00		258	200.0	45.62	106.1	80	120	12/04/2024
Sulfate		10.0		1760	200.0	1564	96.0	80	120	12/04/2024

Batch R356979		SampType: MSD		Units mg/L						
SampID: 24110715-002AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		10.4	10.00	0	104.1	10.45	0.35	12/04/2024
Chloride		5.00		259	200.0	45.62	106.5	257.8	0.34	12/04/2024
Sulfate		10.0		1760	200.0	1564	96.8	1756	0.09	12/04/2024

Batch R356979		SampType: MS		Units mg/L						
SampID: 24112335-002AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50	H	10.4	10.00	0	104.5	80	120	12/03/2024
Chloride		5.00	H	225	200.0	21.02	102.2	80	120	12/03/2024
Sulfate		10.0	H	307	200.0	116.8	94.9	80	120	12/03/2024

Batch R356979		SampType: MSD		Units mg/L						
SampID: 24112335-002AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50	H	10.5	10.00	0	104.8	10.45	0.31	12/03/2024
Chloride		5.00	H	226	200.0	21.02	102.4	225.4	0.17	12/03/2024
Sulfate		10.0	H	307	200.0	116.8	94.9	306.6	0.00	12/03/2024

Batch R356979		SampType: MS		Units mg/L						
SampID: 24112335-005AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50	H	10.5	10.00	0	104.6	80	120	12/03/2024
Chloride		5.00	H	450	200.0	227.8	111.0	80	120	12/03/2024
Sulfate		10.0	H	364	200.0	169.3	97.2	80	120	12/03/2024



Quality Control Results

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Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R356979		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24112335-005AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.50	H	10.5	10.00	0	105.3	10.46	0.63	12/03/2024	
Chloride		5.00	H	449	200.0	227.8	110.8	449.8	0.08	12/03/2024	
Sulfate		10.0	H	363	200.0	169.3	97.1	363.6	0.07	12/03/2024	

Batch R356979		SampType: MS		Units mg/L							
SampID: 24112335-006AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.50	H	10.7	10.00	0.3970	103.4	80	120	12/03/2024	
Chloride		5.00	H	226	200.0	21.00	102.6	80	120	12/03/2024	
Sulfate		10.0	H	211	200.0	26.71	92.3	80	120	12/03/2024	

Batch R356979		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24112335-006AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.50	H	10.8	10.00	0.3970	103.6	10.74	0.17	12/03/2024	
Chloride		5.00	H	227	200.0	21.00	102.9	226.3	0.23	12/03/2024	
Sulfate		10.0	H	213	200.0	26.71	93.4	211.3	1.00	12/03/2024	

Batch R356979		SampType: MS		Units mg/L							
SampID: 24112335-011AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.50	H	10.5	10.00	0	105.1	80	120	12/03/2024	
Chloride		5.00	H	1000	200.0	806.4	98.5	80	120	12/03/2024	
Sulfate		10.0	H	651	200.0	447.2	101.9	80	120	12/03/2024	

Batch R356979		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24112335-011AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.50	H	10.5	10.00	0	105.4	10.51	0.30	12/03/2024	
Chloride		5.00	H	999	200.0	806.4	96.5	1003	0.40	12/03/2024	
Sulfate		10.0	H	646	200.0	447.2	99.6	651.0	0.70	12/03/2024	



Quality Control Results

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Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R356979		SampType: MS		Units mg/L							Date Analyzed
SampID: 24112369-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		50.0		10400	2000	8372	99.3	80	120	12/03/2024	
Sulfate		100		1910	2000	76.39	91.6	80	120	12/03/2024	

Batch R356979		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24112369-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		50.0		10300	2000	8372	97.2	10360	0.40	12/03/2024		
Sulfate		100		1910	2000	76.39	91.6	1909	0.04	12/03/2024		

Batch R356979		SampType: MS		Units mg/L							Date Analyzed
SampID: 24120029-001DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.50		10.9	10.00	0.2340	106.4	80	120	12/04/2024	
Chloride		5.00		446	200.0	223.3	111.2	80	120	12/04/2024	
Sulfate		10.0		1870	200.0	1691	91.0	80	120	12/04/2024	

Batch R356979		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24120029-001DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.50		10.9	10.00	0.2340	107.0	10.87	0.60	12/04/2024		
Chloride		5.00		446	200.0	223.3	111.4	445.6	0.09	12/04/2024		
Sulfate		10.0		1870	200.0	1691	89.9	1873	0.12	12/04/2024		

Batch R357028		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK/ICB											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.05		ND						12/04/2024	
Chloride		0.50		ND						12/04/2024	
Sulfate		1.00		ND						12/04/2024	

Batch R357028		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS/ICV/QCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.05		1.03	1.000	0	102.9	90	110	12/04/2024	
Chloride		0.50		20.1	20.00	0	100.4	90	110	12/04/2024	
Sulfate		1.00		18.2	20.00	0	91.2	90	110	12/04/2024	



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Work Order: 24110715

Client Project: Groundwater Monitoring

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SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R357028		SampType: MS		Units mg/L							Date Analyzed
SampID: 24110715-003AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.50		10.6	10.00	0	105.7	80	120	12/04/2024	
Chloride		5.00		281	200.0	69.06	105.8	80	120	12/04/2024	
Sulfate		10.0		1930	200.0	1759	85.8	80	120	12/04/2024	

Batch R357028		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24110715-003AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.50		10.6	10.00	0	105.9	10.57	0.17	12/04/2024		
Chloride		5.00		281	200.0	69.06	105.8	280.7	0.02	12/04/2024		
Sulfate		10.0		1920	200.0	1759	81.4	1931	0.46	12/04/2024		

Batch R357028		SampType: MS		Units mg/L							Date Analyzed
SampID: 24120045-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.50		11.0	10.00	0.4990	105.0	80	120	12/04/2024	
Chloride		5.00		349	200.0	128.0	110.6	80	120	12/04/2024	
Sulfate		10.0		230	200.0	43.30	93.6	80	120	12/04/2024	

Batch R357028		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24120045-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.50		10.9	10.00	0.4990	103.9	11.00	1.01	12/04/2024		
Chloride		5.00		347	200.0	128.0	109.2	349.3	0.80	12/04/2024		
Sulfate		10.0		229	200.0	43.30	92.6	230.5	0.83	12/04/2024		

Batch R357028		SampType: MS		Units mg/L							Date Analyzed
SampID: 24120200-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		50.0		6760	2000	4565	109.8	80	120	12/04/2024	
Sulfate		100		1900	2000	87.90	90.6	80	120	12/04/2024	

Batch R357028		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24120200-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		50.0		6750	2000	4565	109.3	6761	0.13	12/04/2024		
Sulfate		100		1900	2000	87.90	90.6	1899	0.08	12/04/2024		



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SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R357028		SampType: MS		Units mg/L						
SampID: 24120210-003AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.7	10.00	0.4700	102.5	80	120	12/04/2024
Chloride		5.00		209	200.0	8.696	100.1	80	120	12/04/2024
Sulfate		10.0		732	200.0	531.5	100.4	80	120	12/04/2024

Batch R357028		SampType: MSD		Units mg/L						
SampID: 24120210-003AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		10.8	10.00	0.4700	103.5	10.72	0.93	12/04/2024
Chloride		5.00		210	200.0	8.696	100.9	209.0	0.71	12/04/2024
Sulfate		10.0		734	200.0	531.5	101.1	732.2	0.20	12/04/2024

Batch R357101		SampType: MBLK		Units mg/L						
SampID: MBLK/ICB										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		ND						12/05/2024
Chloride		0.50		ND						12/05/2024
Sulfate		1.00		ND						12/05/2024

Batch R357101		SampType: LCS		Units mg/L						
SampID: LCS/ICV/QCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		1.04	1.000	0	104.4	90	110	12/05/2024
Chloride		0.50		20.0	20.00	0	100.1	90	110	12/05/2024
Sulfate		1.00		18.3	20.00	0	91.6	90	110	12/05/2024

Batch R357101		SampType: MS		Units mg/L						
SampID: 24120146-002AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.9	10.00	0.4510	104.2	80	120	12/05/2024
Chloride		5.00		384	200.0	165.0	109.4	80	120	12/05/2024
Sulfate		10.0		223	200.0	38.50	92.1	80	120	12/05/2024



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Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

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SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R357101		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24120146-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.50		10.9	10.00	0.4510	104.9	10.87	0.67	12/05/2024	
Chloride		5.00		384	200.0	165.0	109.4	383.7	0.01	12/05/2024	
Sulfate		10.0		223	200.0	38.50	92.4	222.7	0.22	12/05/2024	

Batch R357101		SampType: MS		Units mg/L				RPD Limit 15		Date Analyzed
SampID: 24120310-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.77	10.00	1.104	86.6	80	120	12/05/2024
Chloride		5.00		452	200.0	237.1	107.3	80	120	12/05/2024
Sulfate		10.0		212	200.0	28.60	91.7	80	120	12/05/2024

Batch R357101		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24120310-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.50		9.75	10.00	1.104	86.5	9.767	0.17	12/05/2024	
Chloride		5.00		454	200.0	237.1	108.3	451.7	0.44	12/05/2024	
Sulfate		10.0		212	200.0	28.60	91.9	212.0	0.17	12/05/2024	

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 231984		SampType: MBLK		Units mg/L				RPD Limit 15		Date Analyzed
SampID: MBLK-231984										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	12/10/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	12/10/2024
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	12/10/2024

Batch 231984		SampType: LCS		Units mg/L				RPD Limit 15		Date Analyzed
SampID: LCS-231984										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		3.87	4.000	0	96.8	85	115	12/10/2024
Boron		0.0200		0.959	1.000	0	95.9	85	115	12/10/2024
Calcium		0.100		4.84	5.000	0	96.9	85	115	12/10/2024



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Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

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SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 231984		SampType: MS		Units mg/L							Date Analyzed
SampID: 24110715-011CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Boron		0.0200		2.58	1.000	1.551	103.4	75	125	12/11/2024	
Calcium		0.100	S	540	5.000	531.6	166.4	75	125	12/11/2024	

Batch 231984		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 24110715-011CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Boron		0.0200		2.61	1.000	1.551	106.2	2.584	1.09	12/11/2024		
Calcium		0.100	S	545	5.000	531.6	259.6	539.9	0.86	12/11/2024		

Batch 232207		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-232207											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	12/12/2024	
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	12/12/2024	
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	12/12/2024	

Batch 232207		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-232207											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		3.83	4.000	0	95.8	85	115	12/12/2024	
Boron		0.0200		0.984	1.000	0	98.4	85	115	12/12/2024	
Calcium		0.100		4.99	5.000	0	99.7	85	115	12/12/2024	

Batch 232207		SampType: MS		Units mg/L							Date Analyzed
SampID: 24110715-011CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		3.47	4.000	0.01480	86.4	75	125	12/12/2024	

Batch 232207		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 24110715-011CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Barium		0.0025		3.70	4.000	0.01480	92.1	3.470	6.42	12/12/2024		



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Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

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SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 232207		SampType: MS		Units mg/L							Date Analyzed
SampID: 24120927-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		4.08	4.000	0.3002	94.5	75	125	12/12/2024	
Calcium		0.100	S	133	5.000	132.4	21.4	75	125	12/12/2024	

Batch 232207		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 24120927-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Barium		0.0025		4.07	4.000	0.3002	94.2	4.080	0.25	12/12/2024		
Calcium		0.100	S	135	5.000	132.4	51.4	133.5	1.12	12/12/2024		

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 231984		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-231984											
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	12/07/2024	
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	12/07/2024	
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	12/07/2024	
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	12/07/2024	
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	12/07/2024	
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	12/07/2024	
Lead		0.0010	S	0.0099	0.0006	0	1648	-100	100	12/10/2024	
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	12/11/2024	
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	12/07/2024	
Molybdenum		0.0015		< 0.0015	0.0006	0	0	-100	100	12/10/2024	
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	12/07/2024	
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	12/07/2024	



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Client Project: Groundwater Monitoring

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SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 231984 **SampType:** LCS **Units** mg/L

SampID: LCS-231984

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		1.11	1.000	0	110.9	80	120	12/07/2024
Arsenic		0.0010		0.992	1.000	0	99.2	80	120	12/07/2024
Beryllium		0.0010		0.0996	0.1000	0	99.6	80	120	12/07/2024
Cadmium		0.0010		0.107	0.1000	0	107.4	80	120	12/07/2024
Chromium		0.0015		0.398	0.4000	0	99.5	80	120	12/07/2024
Cobalt		0.0010		0.946	1.000	0	94.6	80	120	12/07/2024
Lead		0.0010		0.933	1.000	0	93.3	80	120	12/10/2024
Lithium	*	0.0030		0.980	1.000	0	98.0	80	120	12/07/2024
Molybdenum		0.0015		0.925	1.000	0	92.5	80	120	12/10/2024
Selenium		0.0010	S	1.21	1.000	0	121.1	80	120	12/07/2024
Selenium		0.0010		0.997	1.000	0	99.7	80	120	12/10/2024
Thallium		0.0020		0.458	0.5000	0	91.6	80	120	12/07/2024

Batch 231984 **SampType:** MS **Units** mg/L

SampID: 24110715-011CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		1.07	1.000	0	107.1	75	125	12/10/2024
Arsenic		0.0010		1.03	1.000	0	103.2	75	125	12/10/2024
Beryllium		0.0010		0.0961	0.1000	0	96.1	75	125	12/07/2024
Cadmium		0.0010		0.100	0.1000	0	100.2	75	125	12/10/2024
Chromium		0.0015		0.382	0.4000	0	95.4	75	125	12/07/2024
Cobalt		0.0010		0.899	1.000	0	89.9	75	125	12/07/2024
Lead		0.0010	B	0.964	1.000	0	96.4	75	125	12/10/2024
Lithium	*	0.0030		0.964	1.000	0.009708	95.4	75	125	12/07/2024
Molybdenum		0.0015		0.976	1.000	0	97.6	75	125	12/10/2024
Selenium		0.0010		1.01	1.000	0.001741	100.8	75	125	12/10/2024
Thallium		0.0020		0.471	0.5000	0	94.2	75	125	12/10/2024



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 231984		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24110715-011CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Antimony		0.0010		1.07	1.000	0	106.8	1.071	0.25	12/10/2024	
Arsenic		0.0010		1.07	1.000	0	107.1	1.032	3.78	12/10/2024	
Beryllium		0.0010		0.0980	0.1000	0	98.0	0.09606	2.03	12/07/2024	
Cadmium		0.0010		0.101	0.1000	0	100.7	0.1002	0.58	12/10/2024	
Chromium		0.0015		0.387	0.4000	0	96.7	0.3817	1.35	12/07/2024	
Cobalt		0.0010		0.882	1.000	0	88.2	0.8987	1.88	12/07/2024	
Lead		0.0010	B	0.981	1.000	0	98.1	0.9642	1.74	12/10/2024	
Lithium	*	0.0030		0.977	1.000	0.009708	96.8	0.9640	1.38	12/07/2024	
Molybdenum		0.0015		1.01	1.000	0	101.0	0.9756	3.44	12/10/2024	
Selenium		0.0010		1.03	1.000	0.001741	103.1	1.010	2.26	12/10/2024	
Thallium		0.0020		0.475	0.5000	0	95.1	0.4712	0.88	12/10/2024	

SW-846 7470A (TOTAL)

Batch 231990		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-231990											
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	12/09/2024	

Batch 231990		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-231990											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00454	0.0050	0	90.8	85	115	12/06/2024	

Batch 231990		SampType: MS		Units mg/L							Date Analyzed
SampID: 24110715-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00439	0.0050	0	87.8	75	125	12/09/2024	

Batch 231990		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24110715-001CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00432	0.0050	0	86.4	0.004389	1.56	12/09/2024	



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

SW-846 7470A (TOTAL)

Batch 231990		SampType: MS		Units mg/L							Date Analyzed
SampID: 24110715-004CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020	S	0.00369	0.0050	0	73.7	75	125	12/09/2024	

Batch 231990		SampType: MSD		Units mg/L		RPD Limit 15					Date Analyzed
SampID: 24110715-004CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Mercury		0.00020	S	0.00362	0.0050	0	72.5	0.003687	1.75	12/09/2024	

Batch 231991		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-231991											
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	12/06/2024	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	12/09/2024	

Batch 231991		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-231991-2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00477	0.0050	0	95.4	85	115	12/09/2024	

Batch 231991		SampType: MS		Units mg/L							Date Analyzed
SampID: 24110715-008CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020	S	0.00289	0.0050	0.00005840	56.7	75	125	12/06/2024	

Batch 231991		SampType: MSD		Units mg/L		RPD Limit 15					Date Analyzed
SampID: 24110715-008CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Mercury		0.00020	S	0.00269	0.0050	0.00005840	52.7	0.002892	7.18	12/06/2024	

Batch 231991		SampType: MS		Units mg/L							Date Analyzed
SampID: 24110715-011CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00428	0.0050	0	85.6	75	125	12/06/2024	



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

SW-846 7470A (TOTAL)

Batch 231991	SampType: MSD	Units mg/L				RPD Limit 15				
SampID: 24110715-011CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		0.00408	0.0050	0	81.5	0.004280	4.91	12/06/2024



Receiving Check List

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

Client: Southern Illinois Power Cooperation

Work Order: 24110715

Client Project: Groundwater Monitoring

Report Date: 26-Dec-24

Carrier: Justin Colp

Received By: AMD

Completed by:

Amber Dilallo

Reviewed by:

Elizabeth A. Hurley

On:

On:

02-Dec-24

04-Dec-24

Amber Dilallo

Elizabeth A. Hurley

Pages to follow: Chain of custody

Extra pages included

- Shipping container/cooler in good condition? Yes No Not Present Temp °C **4.5**
- Type of thermal preservation? None Ice Blue Ice Dry Ice
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Reported field parameters measured: Field Lab NA
- Container/Temp Blank temperature in compliance? Yes No

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 No No VOA vials
- Water - TOX containers have zero headspace? Yes No No TOX containers
- Water - pH acceptable upon receipt? Yes No NA
- NPDES/CWA TCN interferences checked/treated in the field? Yes No NA

Any No responses must be detailed below or on the COC.

pH strip #96651. Cooler #1 4.5c. Cooler #2 3.3c. - amberdilallo - 12/2/2024 4:54:05 PM

Samples were received on 12/3/24 at 1540 on ice [5.1C - LTG#5]. pH strip #96651. Per Frank Barthol, samples were collected 12/3/24 rather than 12/2/24. - NR/amberdilallo - 12/3/2024 4:43:31 PM

Equipment Blank was received on 12/4/24 at 1300 on ice [8.1C - LTG#5]. pH strip #96651. - JD/amberdilallo - 12/4/2024 1:58:29 PM

Drop off Location

- Downers Grove, IL Lenexa, KS
 Springfield, IL Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 2 Work order # 24110715

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client: Southern Illinois Power Cooperation
Address: 11543 Lake of Egypt Road
City / State / Zip: Marion, IL 62959
Contact: Jason McLaurin **Phone:** (618) 964-1448
E-Mail: jmclaurin@sipower.org **Fax:**

Samples on: ICE BLUE ICE NO ICE 4.5 °C LTG# 3
Preserved in: LAB FIELD **FOR LAB USE ONLY** #1 4.50
Lab Notes: *9/26/24*
#2 3.30

Are these samples known to be involved in litigation? If yes, a surcharge will apply Yes No
 Are these samples known to be hazardous? If yes, include details of the hazard. Yes No
 Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section. Yes No

Client Comments Report QC LVL: 2
 ICP: Ba B Ca
 ICP/MS: Sb As Be Cd Cr Co Pb Li Mo Se Ti
 Field Parameters = Elevations, Purge Volume, pH, Conductivity, Temperature, DO, ORP, and Turbidity

Project Name/Number		Sample Collector's Name																					
Groundwater Monitoring		Justin Colp																					
Results Requested (call for PFAS TAT and surcharges)		Billing/PO#	# and Type of Containers																				
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Date <input type="checkbox"/> 3 Day (50% Surcharge)			<table border="1"> <tr> <th>UNP</th> <th>HNO3</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> <tr> <td></td> </tr> </table>	UNP	HNO3																		
UNP	HNO3																						
Lab Use Only	Sample Identification	Date/Time Sampled																					
24110715-001	EBG	12-2-24 / 1143	1 3																				
-002	EP-1	12-2-24 / 1256	1 3																				
-003	EP-2		1 3																				
-004	EP-3	12-2-24 / 1405	1 3																				
-005	EP-4	12-2-24 / 1159	1 3																				
-006	EP-5	12-2-24 / 1206	1 3																				
-007	EP-6		1 3																				
-008	EP-7	12-2-24 / 1247	1 3																				
-009	Equipment Blank		1 3																				
-010	Field Blank		1 3																				

MATRIX		INDICATE ANALYSIS REQUESTED												
Aqueous	Groundwater	Cl SO4 F-	Field Parameters	ICP Metals	ICP/MS Metals	Mercury	Ra226/228	TDS						
X	X	X	X	X	X	X	X	X						
X	X	X	X	X	X	X	X	X						
X	X	X	X	X	X	X	X	X						
X	X	X	X	X	X	X	X	X						
X	X	X	X	X	X	X	X	X						
X	X	X	X	X	X	X	X	X						
X	X	X	X	X	X	X	X	X						
X	X	X	X	X	X	X	X	X						
X	X	X	X	X	X	X	X	X						

Relinquished By	Date/Time	Received By	Date/Time
J. Colp	12-2-24 / 1635	Sharon Ouellet	12/2/24 1635

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 94501



Drop off Location

- Downers Grove, IL Lenexa, KS
 Springfield, IL Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 2 Work order # 24110715

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client: Southern Illinois Power Cooperation
Address: 11543 Lake of Egypt Road
City / State / Zip: Marion, IL 62959
Contact: Jason McLaurin **Phone:** (618) 964-1448
E-Mail: jmclaurin@sipower.org **Fax:**

Samples on: ICE BLUE ICE NO ICE 5.1 °C LTG# 5
Preserved in: LAB FIELD **FOR LAB USE ONLY**
Lab Notes: 26651 NA 12/3

Are these samples known to be involved in litigation? If yes, a surcharge will apply Yes No
 Are these samples known to be hazardous? If yes, include details of the hazard. Yes No
 Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. Yes No

Client Comments Report QC LVL: 2
 Per Frank Bartholi samples were collected 12/3/24
 Jm 12/3/24
 ICP: Ba B Ca
 ICP/MS: Sb As Be Cd Cr Co Pb Li Mo Se Ti
 Field Parameters = Elevations, Purge Volume, pH, Conductivity, Temperature, DO, ORP, and Turbidity

Project Name/Number: Groundwater Monitoring
Sample Collector's Name: Justin Colp

Results Requested (call for PFAS TAT and surcharges)
 Standard 1-2 Day (100% Surcharge)
 Date 3 Day (50% Surcharge)
Billing/PO# **# and Type of Containers**

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers		INDICATE ANALYSIS REQUESTED															
			UNP	HNO3	Aqueous	Groundwater	Cl SO4 F-	Field Parameters	ICP Metals	ICP/MS Metals	Mercury	Ra226/228	TDS							
24110715-001	EBG		1	3	X	X	X	X	X	X	X	X								
-002	EP-1		1	3	X	X	X	X	X	X	X	X								
-003	EP-2	12-2-24 / 1108	1	3	X	X	X	X	X	X	X	X								
-004	EP-3		1	3	X	X	X	X	X	X	X	X								
-005	EP-4		1	3	X	X	X	X	X	X	X	X								
-006	EP-5		1	3	X	X	X	X	X	X	X	X								
-007	EP-6	12-2-24 / 1308	1	3	X	X	X	X	X	X	X	X								
-008	EP-7		1	3	X	X	X	X	X	X	X	X								
-009	Equipment Blank		1	3	X			X	X	X	X	X								
-010	Field Blank	12-2-24 / 1125	1	3	X			X		X	X	X								

Relinquished By: *[Signature]* **Date/Time:** 12-3 / 1540

Received By: *[Signature]* **Date/Time:** 12/3/24 1540

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 94501



Drop off Location

- Downers Grove, IL
 Lenexa, KS
 Springfield, IL
 Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 1 Work order # 24110715

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client: Southern Illinois Power Cooperation
Address: 11543 Lake of Egypt Road
City / State / Zip: Marion, IL 62959
Contact: Jason McLaurin **Phone:** (618) 964-1448
E-Mail: jmclaurin@sipower.org **Fax:**

Samples on: ICE BLUE ICE NO ICE 8.1 8.2 °C **LTG#** 5
Preserved in: LAB FIELD **FOR LAB USE ONLY**
Lab Notes: PH 9.6657 JD 12/4/24

Are these samples known to be involved in litigation? If yes, a surcharge will apply Yes No
 Are these samples known to be hazardous? If yes, include details of the hazard. Yes No
 Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. Yes No

Client Comments Report QC LVL: 2
 ICP: Ba B Ca
 ICP/MS: Sb As Be Cd Cr Co Pb Li Mo Se Tl
 Field Parameters = Elevations. Purge Volume. pH. Conductivity. Temperature. DO. ORP. and Turbidity

Project Name/Number		Sample Collector's Name																					
Groundwater Monitoring		Frank Barthel																					
Results Requested (call for PFAS TAT and surcharges)		Billing/PO#	# and Type of Containers																				
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Date <input type="checkbox"/> 3 Day (50% Surcharge)			<table border="1"> <tr> <th>UNP</th> <th>HNO3</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> <tr> <td></td> </tr> </table>	UNP	HNO3																		
UNP	HNO3																						
Lab Use Only	Sample Identification	Date/Time Sampled																					
	EBG		1 3																				
	EP-1		1 3																				
	EP-2		1 3																				
	EP-3		1 3																				
	EP-4		1 3																				
	EP-5		1 3																				
	EP-6		1 3																				
	EP-7		1 3																				
24110715-009	Equipment Blank	12.4 / 1258	1 3																				
	Field Blank		1 3																				

MATRIX		INDICATE ANALYSIS REQUESTED													
Aqueous	Groundwater	Cl SO4 F-	Field Parameters	ICP Metals	ICP/MS Metals	Mercury	Ra226/228	TDS							
X	X	X	X	X	X	X	X	X							
X	X	X	X	X	X	X	X	X							
X	X	X	X	X	X	X	X	X							
X	X	X	X	X	X	X	X	X							
X	X	X	X	X	X	X	X	X							
X	X	X	X	X	X	X	X	X							
X	X	X	X	X	X	X	X	X							
X	X	X	X	X	X	X	X	X							
X	X	X	X	X	X	X	X	X							

Relinquished By	Date/Time	Received By	Date/Time
<i>FB</i>	12.4.24 / 1300	<i>Elizabeth A. Hawley</i>	12/4/24 1300



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

December 24, 2024

Elizabeth Hurley
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:
RE: 24110715

Order No.: 24121069

Dear Elizabeth Hurley:

Summit Environmental Technologies, Inc. received 11 sample(s) on 12/13/2024 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

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

Sincerely,

A handwritten signature in black ink that reads "Jennifer Woolf". The signature is written in a cursive, flowing style.

Jennifer Woolf
Project Manager
3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C



SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Case Narrative

WO#: 24121069
Date: 12/24/2024

CLIENT: TEKLAB Inc,
Project: 24110715

WorkOrder Narrative:

24121069: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Revision v1

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	RL	Reporting Limit
QC	Quality Control	MDL	Method Detection Limit
MB	Method Blank	LOD	Level of Detection
LCS	Laboratory Control Sample	LOQ	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	PQL	Practical Quantitation Limit
QCS	Quality Control Sample	CRQL	Contract Required Quantitation Limit
DUP	Duplicate	PL	Permit Limit
MS	Matrix Spike	RegLvl	Regulatory Limit
MSD	Matrix Spike Duplicate	MCL	Maximum Contamination Limit
RPD	Relative Percent Different	MinCL	Minimum Compound Limit
ICV	Initial Calibration Verification	RA	Reanalysis
ICB	Initial Calibration Blank	RE	Reextraction
CCV	Continuing Calibration Verification	TIC	Tentatively Identified Compound
CCB	Continuing Calibration Blank	RT	Retention Time
RLC	Reporting Limit Check	CF	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.



Summit Environmental Technologies, Inc.
 3310 Win St.
 Cuyahoga Falls, Ohio 44223
 TEL: (330) 253-8211 FAX: (330) 253-4489
 Website: <http://www.settek.com>

Workorder
Sample Summary
 WO#: **24121069**
24-Dec-24

CLIENT: TEKLAB Inc,
Project: 24110715

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24121069-001	24110715-001		12/2/2024 11:43:00 AM	12/13/2024 1:30:00 PM	Non-Potable Water
24121069-002	24110715-002		12/2/2024 12:56:00 PM	12/13/2024 1:30:00 PM	Non-Potable Water
24121069-003	24110715-003		12/3/2024 11:08:00 AM	12/13/2024 1:30:00 PM	Non-Potable Water
24121069-004	24110715-004		12/2/2024 2:05:00 PM	12/13/2024 1:30:00 PM	Non-Potable Water
24121069-005	24110715-005		12/2/2024 11:59:00 AM	12/13/2024 1:30:00 PM	Non-Potable Water
24121069-006	24110715-006		12/2/2024 12:06:00 PM	12/13/2024 1:30:00 PM	Non-Potable Water
24121069-007	24110715-007		12/3/2024 1:08:00 PM	12/13/2024 1:30:00 PM	Non-Potable Water
24121069-008	24110715-008		12/2/2024 12:47:00 PM	12/13/2024 1:30:00 PM	Non-Potable Water
24121069-009	24110715-009		12/4/2024 12:58:00 PM	12/13/2024 1:30:00 PM	Non-Potable Water
24121069-010	24110715-010		12/3/2024 11:25:00 AM	12/13/2024 1:30:00 PM	Non-Potable Water
24121069-011	24110715-011		12/2/2024 12:56:00 PM	12/13/2024 1:30:00 PM	Non-Potable Water



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 Website: <http://www.settek.com>

DATES REPORT

WO#: 24121069
 24-Dec-24

Client: TEKLAB Inc,
Project: 24110715

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24121069-001A	24110715-001	12/2/2024 11:43:00 AM	Non-Potable Water	Combined Radium (EPA903+904)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-226 (EPA 903.0)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-228 (EPA 904.0)		12/17/2024 1:46:00 PM	12/20/2024 2:02:40 PM
24121069-002A	24110715-002	12/2/2024 12:56:00 PM		Combined Radium (EPA903+904)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-226 (EPA 903.0)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-228 (EPA 904.0)		12/17/2024 1:46:00 PM	12/20/2024 2:02:40 PM
24121069-003A	24110715-003	12/3/2024 11:08:00 AM		Combined Radium (EPA903+904)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-226 (EPA 903.0)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-228 (EPA 904.0)		12/17/2024 1:46:00 PM	12/20/2024 2:02:40 PM
24121069-004A	24110715-004	12/2/2024 2:05:00 PM		Combined Radium (EPA903+904)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-226 (EPA 903.0)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-228 (EPA 904.0)		12/17/2024 1:46:00 PM	12/20/2024 2:02:40 PM
24121069-005A	24110715-005	12/2/2024 11:59:00 AM		Combined Radium (EPA903+904)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-226 (EPA 903.0)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-228 (EPA 904.0)		12/17/2024 1:46:00 PM	12/20/2024 2:02:40 PM
24121069-006A	24110715-006	12/2/2024 12:06:00 PM		Combined Radium (EPA903+904)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-226 (EPA 903.0)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-228 (EPA 904.0)		12/17/2024 1:46:00 PM	12/20/2024 2:02:40 PM
24121069-007A	24110715-007	12/3/2024 1:08:00 PM		Combined Radium (EPA903+904)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-226 (EPA 903.0)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-228 (EPA 904.0)		12/17/2024 1:46:00 PM	12/20/2024 2:02:40 PM
24121069-008A	24110715-008	12/2/2024 12:47:00 PM		Combined Radium (EPA903+904)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-226 (EPA 903.0)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM

Revision v1



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DATES REPORT

WO#: 24121069
 24-Dec-24

Client: TEKLAB Inc,
Project: 24110715

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24121069-008A	24110715-008	12/2/2024 12:47:00 PM	Non-Potable Water	Radium-228 (EPA 904.0)		12/17/2024 1:46:00 PM	12/20/2024 2:02:40 PM
24121069-009A	24110715-009	12/4/2024 12:58:00 PM		Combined Radium (EPA903+904)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-226 (EPA 903.0)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-228 (EPA 904.0)		12/17/2024 1:46:00 PM	12/20/2024 2:02:40 PM
24121069-010A	24110715-010	12/3/2024 11:25:00 AM		Combined Radium (EPA903+904)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-226 (EPA 903.0)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-228 (EPA 904.0)		12/17/2024 1:46:00 PM	12/20/2024 2:02:40 PM
24121069-011A	24110715-011	12/2/2024 12:56:00 PM		Combined Radium (EPA903+904)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-226 (EPA 903.0)		12/17/2024 1:46:00 PM	12/23/2024 10:15:07 AM
				Radium-228 (EPA 904.0)		12/17/2024 1:46:00 PM	12/20/2024 2:02:40 PM

Revision v1



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Analytical Report

(consolidated)

WO#: 24121069

Date Reported: 12/24/2024

CLIENT: TEKLAB Inc,
Project: 24110715
Lab ID: 24121069-001
Client Sample ID: 24110715-001

Collection Date: 12/2/2024 11:43:00 AM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: SMZ	
Radium-226/Radium-228	0.48	2.00	U	pCi/L	± 0.420	1	12/23/2024 10:15:07 A
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: SMZ	
Radium-226	0.1	1.00	U	pCi/L	± 0.0500	1	12/23/2024 10:15:07 A
Yield	1.00					1	12/23/2024 10:15:07 A
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: SMZ	
Radium-228	0.38	1.00	U	pCi/L	± 0.370	1	12/20/2024 2:02:40 PM
Yield	1.00					1	12/20/2024 2:02:40 PM

Qualifiers: H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response
 ND Not Detected PL Permit Limit
 R RPD outside accepted recovery limits RL Reporting Detection Limit
 U Samples with CalcVal < MDL W Sample container temperature is out of limit as specified at Revision v1



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Analytical Report

(consolidated)

WO#: **24121069**

Date Reported: **12/24/2024**

CLIENT: TEKLAB Inc,
Project: 24110715
Lab ID: 24121069-002
Client Sample ID: 24110715-002

Collection Date: 12/2/2024 12:56:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: SMZ	
Radium-226/Radium-228	0.79	2.00	U	pCi/L	± 0.500	1	12/23/2024 10:15:07 A
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: SMZ	
Radium-226	0.08	1.00	U	pCi/L	± 0.0500	1	12/23/2024 10:15:07 A
Yield	1.00					1	12/23/2024 10:15:07 A
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: SMZ	
Radium-228	0.71	1.00	J	pCi/L	± 0.450	1	12/20/2024 2:02:40 PM
Yield	1.00					1	12/20/2024 2:02:40 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at Revision v1



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Analytical Report

(consolidated)

WO#: 24121069

Date Reported: 12/24/2024

CLIENT: TEKLAB Inc,
Project: 24110715
Lab ID: 24121069-003
Client Sample ID: 24110715-003

Collection Date: 12/3/2024 11:08:00 AM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: SMZ	
Radium-226/Radium-228	1.16	2.00	U	pCi/L	± 0.540	1	12/23/2024 10:15:07 A
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: SMZ	
Radium-226	0.41	1.00	U	pCi/L	± 0.0900	1	12/23/2024 10:15:07 A
Yield	0.970					1	12/23/2024 10:15:07 A
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: SMZ	
Radium-228	0.75	1.00	J	pCi/L	± 0.450	1	12/20/2024 2:02:40 PM
Yield	1.00					1	12/20/2024 2:02:40 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at Revision v1



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Analytical Report

(consolidated)

WO#: 24121069

Date Reported: 12/24/2024

CLIENT: TEKLAB Inc,
Project: 24110715
Lab ID: 24121069-004
Client Sample ID: 24110715-004

Collection Date: 12/2/2024 2:05:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: SMZ	
Radium-226/Radium-228	0.87	2.00	U	pCi/L	± 0.480	1	12/23/2024 10:15:07 A
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: SMZ	
Radium-226	0.2	1.00	U	pCi/L	± 0.0700	1	12/23/2024 10:15:07 A
Yield	1.00					1	12/23/2024 10:15:07 A
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: SMZ	
Radium-228	0.67	1.00	U	pCi/L	± 0.410	1	12/20/2024 2:02:40 PM
Yield	1.00					1	12/20/2024 2:02:40 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at Revision v1



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Analytical Report

(consolidated)

WO#: 24121069

Date Reported: 12/24/2024

CLIENT: TEKLAB Inc,
Project: 24110715
Lab ID: 24121069-005
Client Sample ID: 24110715-005

Collection Date: 12/2/2024 11:59:00 AM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: SMZ	
Radium-226/Radium-228	1.46	2.00	U	pCi/L	± 0.600	1	12/23/2024 10:15:07 A
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: SMZ	
Radium-226	0.21	1.00	U	pCi/L	± 0.0700	1	12/23/2024 10:15:07 A
Yield	1.00					1	12/23/2024 10:15:07 A
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: SMZ	
Radium-228	1.25	1.00		pCi/L	± 0.530	1	12/20/2024 2:02:40 PM
Yield	1.00					1	12/20/2024 2:02:40 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at Revision v1



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Analytical Report

(consolidated)

WO#: 24121069

Date Reported: 12/24/2024

CLIENT: TEKLAB Inc,
Project: 24110715
Lab ID: 24121069-006
Client Sample ID: 24110715-006

Collection Date: 12/2/2024 12:06:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: SMZ	
Radium-226/Radium-228	0.19	2.00	U	pCi/L	± 0.440	1	12/23/2024 10:15:07 A
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: SMZ	
Radium-226	0.08	1.00	U	pCi/L	± 0.0500	1	12/23/2024 10:15:07 A
Yield	0.980					1	12/23/2024 10:15:07 A
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: SMZ	
Radium-228	0.11	1.00	U	pCi/L	± 0.390	1	12/20/2024 2:02:40 PM
Yield	1.00					1	12/20/2024 2:02:40 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at Revision v1



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Analytical Report

(consolidated)

WO#: **24121069**

Date Reported: **12/24/2024**

CLIENT: TEKLAB Inc,
Project: 24110715
Lab ID: 24121069-007
Client Sample ID: 24110715-007

Collection Date: 12/3/2024 1:08:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: SMZ	
Radium-226/Radium-228	1.01	2.00	U	pCi/L	± 0.600	1	12/23/2024 10:15:07 A
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: SMZ	
Radium-226	0.19	1.00	U	pCi/L	± 0.0700	1	12/23/2024 10:15:07 A
Yield	1.00					1	12/23/2024 10:15:07 A
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: SMZ	
Radium-228	0.82	1.00	J	pCi/L	± 0.530	1	12/20/2024 2:02:40 PM
Yield	0.880					1	12/20/2024 2:02:40 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at Revision v1



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Analytical Report

(consolidated)

WO#: 24121069

Date Reported: 12/24/2024

CLIENT: TEKLAB Inc,
Project: 24110715
Lab ID: 24121069-008
Client Sample ID: 24110715-008

Collection Date: 12/2/2024 12:47:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: SMZ	
Radium-226/Radium-228	1.04	2.00	U	pCi/L	± 0.560	1	12/23/2024 10:15:07 A
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: SMZ	
Radium-226	0.21	1.00	U	pCi/L	± 0.0700	1	12/23/2024 10:15:07 A
Yield	1.00					1	12/23/2024 10:15:07 A
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: SMZ	
Radium-228	0.83	1.00	J	pCi/L	± 0.490	1	12/20/2024 2:02:40 PM
Yield	1.00					1	12/20/2024 2:02:40 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at Revision v1



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Analytical Report

(consolidated)

WO#: 24121069

Date Reported: 12/24/2024

CLIENT: TEKLAB Inc,
Project: 24110715
Lab ID: 24121069-009
Client Sample ID: 24110715-009

Collection Date: 12/4/2024 12:58:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: SMZ	
Radium-226/Radium-228	0.29	2.00	U	pCi/L	± 0.410	1	12/23/2024 10:15:07 A
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: SMZ	
Radium-226	0.01	1.00	U	pCi/L	± 0.0300	1	12/23/2024 10:15:07 A
Yield	1.00					1	12/23/2024 10:15:07 A
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: SMZ	
Radium-228	0.28	1.00	U	pCi/L	± 0.380	1	12/20/2024 2:02:40 PM
Yield	1.00					1	12/20/2024 2:02:40 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at Revision v1



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Analytical Report

(consolidated)

WO#: **24121069**

Date Reported: **12/24/2024**

CLIENT: TEKLAB Inc,
Project: 24110715
Lab ID: 24121069-010
Client Sample ID: 24110715-010

Collection Date: 12/3/2024 11:25:00 AM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: SMZ	
Radium-226/Radium-228	0.57	2.00	U	pCi/L	± 0.530	1	12/23/2024 10:15:07 A
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: SMZ	
Radium-226	0.03	1.00	U	pCi/L	± 0.0300	1	12/23/2024 10:15:07 A
Yield	1.00					1	12/23/2024 10:15:07 A
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: SMZ	
Radium-228	0.54	1.00	U	pCi/L	± 0.500	1	12/20/2024 2:02:40 PM
Yield	0.910					1	12/20/2024 2:02:40 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at Revision v1



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Analytical Report

(consolidated)

WO#: 24121069

Date Reported: 12/24/2024

CLIENT: TEKLAB Inc,
Project: 24110715
Lab ID: 24121069-011
Client Sample ID: 24110715-011

Collection Date: 12/2/2024 12:56:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: SMZ	
Radium-226/Radium-228	1.1	2.00	U	pCi/L	± 0.580	1	12/23/2024 10:15:07 A
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: SMZ	
Radium-226	0.22	1.00	U	pCi/L	± 0.0700	1	12/23/2024 10:15:07 A
Yield	1.00					1	12/23/2024 10:15:07 A
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: SMZ	
Radium-228	0.88	1.00	J	pCi/L	± 0.510	1	12/20/2024 2:02:40 PM
Yield	1.00					1	12/20/2024 2:02:40 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at Revision v1



Summit Environmental Technologies, Inc.
 3310 Win St.
 Cuyahoga Falls, Ohio 44223
 TEL: (330) 253-8211 FAX: (330) 253-4489
 Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 24121069
 24-Dec-24

Client: TEKLAB Inc,
Project: 24110715

BatchID: 81000

Sample ID: MB-81000	SampType: MBLK	TestCode: Radium-228_	Units: pCi/L	Prep Date: 12/17/2024	RunNo: 199283						
Client ID: BatchQC	Batch ID: 81000	TestNo: E904.0	E903-904	Analysis Date: 12/20/2024	SeqNo: 5386996						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						U
Yield	0.800			0	0						

Sample ID: LCS-81000	SampType: LCS	TestCode: Radium-228_	Units: pCi/L	Prep Date: 12/17/2024	RunNo: 199283						
Client ID: BatchQC	Batch ID: 81000	TestNo: E904.0	E903-904	Analysis Date: 12/20/2024	SeqNo: 5386997						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.31	1.00	5.000	0	66.2	50	130				
Yield	1.00			0	0						

Sample ID: LCSD-81000	SampType: LCSD	TestCode: Radium-228_	Units: pCi/L	Prep Date: 12/17/2024	RunNo: 199283						
Client ID: BatchQC	Batch ID: 81000	TestNo: E904.0	E903-904	Analysis Date: 12/20/2024	SeqNo: 5386998						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	2.72	1.00	5.000	0	54.4	50	130	3.310	19.6	20	
Yield	0.910			0	0			1.000	9.42		

Qualifiers:

- | | | | | | |
|----|--|----|--|---|---|
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits | M | Manual Integration used to determine area respons |
| ND | Not Detected | PL | Permit Limit | R | RPD outside accepted recovery limits |
| RL | Reporting Detection Limit | U | Samples with CalcVal < MDL | W | Sample container temperature is out of limit as spe |



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QC SUMMARY REPORT

WO#: 24121069
 24-Dec-24

Client: TEKLAB Inc,
Project: 24110715

BatchID: 81000

Sample ID: 24121047-001ADUP	SampType: DUP	TestCode: Radium-228_	Units: pCi/L	Prep Date: 12/17/2024	RunNo: 199283						
Client ID: BatchQC	Batch ID: 81000	TestNo: E904.0	E903-904	Analysis Date: 12/20/2024	SeqNo: 5387003						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.940	1.00		0	0			0	200	20	JR
Yield	1.00			0	0			1.000	0		

Sample ID: 24121052-001CDUP	SampType: DUP	TestCode: Radium-228_	Units: pCi/L	Prep Date: 12/17/2024	RunNo: 199283						
Client ID: BatchQC	Batch ID: 81000	TestNo: E904.0	E903-904	Analysis Date: 12/20/2024	SeqNo: 5387005						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.830	1.00		0	0			0	200	20	JR
Yield	0.680			0	0			1.000	38.1		

Qualifiers: H Holding times for preparation or analysis exceeded
 ND Not Detected
 RL Reporting Detection Limit

J Analyte detected below quantitation limits
 PL Permit Limit
 U Samples with CalcVal < MDL

M Manual Integration used to determine area response
 R RPD outside accepted recovery limits
 W Sample container temperature is out of limit as specified



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QC SUMMARY REPORT

WO#: 24121069
 24-Dec-24

Client: TEKLAB Inc,
 Project: 24110715

BatchID: 81000

Sample ID: MB-81000	SampType: MBLK	TestCode: Radium-226_	Units: pCi/L	Prep Date: 12/17/2024	RunNo: 199288
Client ID: BatchQC	Batch ID: 81000	TestNo: E903.0	E903-904	Analysis Date: 12/23/2024	SeqNo: 5387041
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium-226	ND	1.00			
Yield	1.00				U

Sample ID: LCS-81000	SampType: LCS	TestCode: Radium-226_	Units: pCi/L	Prep Date: 12/17/2024	RunNo: 199288
Client ID: BatchQC	Batch ID: 81000	TestNo: E903.0	E903-904	Analysis Date: 12/23/2024	SeqNo: 5387042
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium-226	4.34	1.00	5.000	0	86.8 70 130

Sample ID: LCSD-81000	SampType: LCSD	TestCode: Radium-226_	Units: pCi/L	Prep Date: 12/17/2024	RunNo: 199288
Client ID: BatchQC	Batch ID: 81000	TestNo: E903.0	E903-904	Analysis Date: 12/23/2024	SeqNo: 5387043
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium-226	5.22	1.00	5.000	0	104 70 130 4.340 18.4 20

Sample ID: 24121052-001CDUP	SampType: DUP	TestCode: Radium-226_	Units: pCi/L	Prep Date: 12/17/2024	RunNo: 199288
Client ID: BatchQC	Batch ID: 81000	TestNo: E903.0	E903-904	Analysis Date: 12/23/2024	SeqNo: 5387048
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Qualifiers:
 H Holding times for preparation or analysis exceeded
 ND Not Detected
 RL Reporting Detection Limit

J Analyte detected below quantitation limits
 PL Permit Limit
 U Samples with CalcVal < MDL

M Manual Integration used to determine area response
 R RPD outside accepted recovery limits
 W Sample container temperature is out of limit as specified



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QC SUMMARY REPORT

WO#: 24121069
 24-Dec-24

Client: TEKLAB Inc,
Project: 24110715

BatchID: 81000

Sample ID: 24121052-001CDUP	SampType: DUP	TestCode: Radium-226_	Units: pCi/L	Prep Date: 12/17/2024	RunNo: 199288						
Client ID: BatchQC	Batch ID: 81000	TestNo: E903.0	E903-904	Analysis Date: 12/23/2024	SeqNo: 5387048						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	U
Yield	0.980							1.000	2.02	0	

Qualifiers:
 H Holding times for preparation or analysis exceeded
 ND Not Detected
 RL Reporting Detection Limit

J Analyte detected below quantitation limits
 PL Permit Limit
 U Samples with CalcVal < MDL

M Manual Integration used to determine area response
 R RPD outside accepted recovery limits
 W Sample container temperature is out of limit as specified

24121069

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES NO With: Ice Blue Ice Preserved in: Lab Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: 11.9°C Sampler: Teklab sampling QC Level: 2

Comments: **Please issue reports and invoices via email only**
Please analyze for Radium 226/228 (combined) per your usual methods. IL site. Batch QC.
Changes to analysis/methods must be approved by Teklab, Inc.

Project# 24110715
Fedex cooler

Contact: Elizabeth Hurley Email: ehurley@TekLabInc.com
Requested Due Date: Standard TAT Billing/PO: 37522 Phone: (618) 344-1004 ext. 33

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	24110715-001	12/2/24 1143	HNO3	Groundwater
	24110715-002	12/2/24 1256	HNO3	Groundwater
	24110715-003	12/3/24 1108	HNO3	Groundwater
	24110715-004	12/2/24 1405	HNO3	Groundwater
	24110715-005	12/2/24 1159	HNO3	Groundwater
	24110715-006	12/2/24 1206	HNO3	Groundwater
	24110715-007	12/3/24 1308	HNO3	Groundwater
	24110715-008	12/2/24 1247	HNO3	Groundwater
	24110715-009	12/4/24 1258	HNO3	Aqueous
	24110715-010	12/3/24 1125	HNO3	Aqueous
	24110715-011	12/2/24 1256	HNO3	Groundwater

Radium 226/228														
<i>CPM</i>														
<input checked="" type="checkbox"/>	<i>36, 32</i>													
<input checked="" type="checkbox"/>	<i>40, 28</i>													
<input checked="" type="checkbox"/>	<i>24, 26</i>													
<input checked="" type="checkbox"/>	<i>14, 16</i>													
<input checked="" type="checkbox"/>	<i>30, 27</i>													
<input checked="" type="checkbox"/>	<i>34, 30</i>													
<input checked="" type="checkbox"/>	<i>23, 20</i>													
<input checked="" type="checkbox"/>	<i>40, 24</i>													
<input checked="" type="checkbox"/>	<i>36, 22</i>													
<input checked="" type="checkbox"/>	<i>22, 28</i>													
<input checked="" type="checkbox"/>	<i>20, 22</i>													

*Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	<i>12/4/24 1700</i>	<i>[Signature]</i>	<i>12/13/24 1330</i>



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 Cuyahoga Falls, Ohio 44223
 TEL: (330) 253-8211 FAX: (330) 253-4489
 Website: <http://www.settek.com>

Sample Log-In Check List

Client Name: TEK-IL-62234-A

Work Order Number: 24121069

RcptNo: 1

Logged by:	Tegan A. Richards	12/13/2024 1:30:00 PM	<i>Tegan Richards</i>
Completed By:	Tegan A. Richards	12/14/2024 5:00:39 PM	<i>Tegan Richards</i>
Reviewed By:	Jennifer Woolf	12/16/2024 4:48:24 PM	<i>Jennifer Woolf</i>

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 Custody seals intact on shipping container/cooler? Yes No Not Present
 No. Seal Date: 12/9/2024 Signed By:
 5. Was an attempt made to cool the samples? Yes No NA
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
Not required
 7. Sample(s) in proper container(s)? Yes No
 8. Sufficient sample volume for indicated test(s)? Yes No
 9. Are samples (except VOA and ONG) properly preserved? Yes No
 10. Was preservative added to bottles? Yes No NA
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
 12. Were any sample containers received broken? Yes No
 13. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 14. Are matrices correctly identified on Chain of Custody? Yes No
 15. Is it clear what analyses were requested? Yes No
 16. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	11.9	Good	Yes		12/9/2024	



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Sample Log-In Check List

Client Name: TEK-IL-62234-A

Work Order Number: 24121069

RcptNo: 1

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
2	12.2	Good	Yes		12/9/2024	
3	13.5	Good	Yes		12/9/2024	

April 03, 2025

Jason McLaurin
Southern Illinois Power Cooperation
11543 Lake of Egypt Road
Marion, IL 62959
TEL: (618) 964-1448
FAX:



Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Groundwater Monitoring

WorkOrder: 25020763

Dear Jason McLaurin:

TEKLAB, INC received 11 samples on 3/4/2025 3:30:00 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



Report Contents

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

Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

Report Date: 03-Apr-25

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Quality Control Results	18
Receiving Check List	33
Chain of Custody	Appended

Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

Report Date: 03-Apr-25

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)

Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

Report Date: 03-Apr-25

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)

Client: Southern Illinois Power Cooperation
Client Project: Groundwater Monitoring

Work Order: 25020763
Report Date: 03-Apr-25

Cooler Receipt Temp: 6.3 °C

An employee of Teklab, Inc. collected the sample(s).

Ra226/228 analyses were performed by Alliance Technical Group. See attached report for results and QC.

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: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

Report Date: 03-Apr-25

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2026	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2025	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	KWLCP	KY98050		12/31/2025	Collinsville
Kentucky	KWLCP	KY98006		12/31/2025	Collinsville
Kentucky	UST	0073		1/31/2026	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville



Laboratory Results

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

Client: Southern Illinois Power Cooperation
 Client Project: Groundwater Monitoring
 Lab ID: 25020763-001
 Matrix: GROUNDWATER

Work Order: 25020763
 Report Date: 03-Apr-25

Client Sample ID: EBG

Collection Date: 03/03/2025 10:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		8.36	ft	1	03/03/2025 10:00	R361593
Elevation of groundwater surface	*	0	0		516.51	ft	1	03/03/2025 10:00	R361593
Measuring Point Elevation	*	0	0		524.87	ft	1	03/03/2025 10:00	R361593
FIELD PURGE VOLUME									
Purge Volume	*	0	0		2.90	gal	1	03/03/2025 10:00	R361593
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		5.2	NTU	1	03/03/2025 10:00	R361593
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		114	mV	1	03/03/2025 10:00	R361593
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		0.3904	mS/cm	1	03/03/2025 10:00	R361593
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		14.2	°C	1	03/03/2025 10:00	R361593
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		4.32	mg/L	1	03/03/2025 10:00	R361593
SW-846 9040B FIELD									
pH	*	0	1.00		6.77		1	03/03/2025 10:00	R361593
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		356	mg/L	1	03/05/2025 17:13	R361350
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50		0.55	mg/L	10	03/05/2025 16:47	R361239
Chloride	NELAP	1.00	5.00		12.1	mg/L	10	03/05/2025 16:47	R361239
Sulfate	NELAP	0.99	10.0		74.6	mg/L	10	03/05/2025 16:47	R361239
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0502	mg/L	1	03/04/2025 20:33	235481
Boron	NELAP	0.0090	0.020	J	0.0096	mg/L	1	03/04/2025 20:33	235481
Calcium	NELAP	0.0435	0.100		10.9	mg/L	1	03/04/2025 20:33	235481
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	03/05/2025 15:03	235481
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	03/07/2025 11:24	235481
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	03/05/2025 15:03	235481
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	03/05/2025 15:03	235481
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	03/05/2025 15:03	235481
Cobalt	NELAP	0.0001	0.0010	J	0.0002	mg/L	5	03/05/2025 15:03	235481
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	03/05/2025 15:03	235481
Lithium	*	0.0015	0.0030		0.0218	mg/L	5	03/05/2025 15:03	235481
Molybdenum	NELAP	0.0006	0.0015	J	0.0012	mg/L	5	03/05/2025 15:03	235481
Selenium	NELAP	0.0006	0.0010	J	0.0009	mg/L	5	03/05/2025 15:03	235481
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	03/05/2025 15:03	235481
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	03/07/2025 15:43	235634
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785
Radium-228	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785



Laboratory Results

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Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

Report Date: 03-Apr-25

Lab ID: 25020763-002

Client Sample ID: EP-1

Matrix: GROUNDWATER

Collection Date: 03/03/2025 10:43

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		5.11	ft	1	03/03/2025 10:43	R361593
Elevation of groundwater surface	*	0	0		514.61	ft	1	03/03/2025 10:43	R361593
Measuring Point Elevation	*	0	0		519.72	ft	1	03/03/2025 10:43	R361593
FIELD PURGE VOLUME									
Purge Volume	*	0	0		1.10	gal	1	03/03/2025 10:43	R361593
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		5.0	NTU	1	03/03/2025 10:43	R361593
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		134	mV	1	03/03/2025 10:43	R361593
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1.8875	mS/cm	1	03/03/2025 10:43	R361593
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		13.2	°C	1	03/03/2025 10:43	R361593
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		2.55	mg/L	1	03/03/2025 10:43	R361593
SW-846 9040B FIELD									
pH	*	0	1.00		6.31		1	03/03/2025 10:43	R361593
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		2510	mg/L	1	03/05/2025 17:12	R361350
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50	J	0.13	mg/L	10	03/05/2025 16:58	R361239
Chloride	NELAP	1.00	5.00		36.8	mg/L	10	03/05/2025 16:58	R361239
Sulfate	NELAP	0.99	10.0		1480	mg/L	10	03/05/2025 16:58	R361239
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0165	mg/L	1	03/04/2025 20:35	235481
Boron	NELAP	0.0090	0.0200		1.10	mg/L	1	03/04/2025 20:35	235481
Calcium	NELAP	0.0435	0.100		487	mg/L	1	03/04/2025 20:35	235481
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	03/05/2025 15:09	235481
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	03/06/2025 17:54	235481
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	03/05/2025 15:09	235481
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	03/05/2025 15:09	235481
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	03/05/2025 15:09	235481
Cobalt	NELAP	0.0001	0.0010	J	0.0004	mg/L	5	03/05/2025 15:09	235481
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	03/05/2025 15:09	235481
Lithium	*	0.0015	0.0030		0.0092	mg/L	5	03/05/2025 15:09	235481
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	03/05/2025 15:09	235481
Selenium	NELAP	0.0006	0.0010		0.0035	mg/L	5	03/05/2025 15:09	235481
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	03/05/2025 15:09	235481
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	03/07/2025 15:45	235634
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785
Radium-228	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785



Laboratory Results

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

Client: Southern Illinois Power Cooperation
 Client Project: Groundwater Monitoring
 Lab ID: 25020763-003
 Matrix: GROUNDWATER

Work Order: 25020763
 Report Date: 03-Apr-25

Client Sample ID: EP-2

Collection Date: 03/03/2025 11:54

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		4.74	ft	1	03/03/2025 11:54	R361593
Elevation of groundwater surface	*	0	0		509.05	ft	1	03/03/2025 11:54	R361593
Measuring Point Elevation	*	0	0		513.79	ft	1	03/03/2025 11:54	R361593
FIELD PURGE VOLUME									
Purge Volume	*	0	0		3.60	gal	1	03/03/2025 11:54	R361593
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		5.8	NTU	1	03/03/2025 11:54	R361593
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		28	mV	1	03/03/2025 11:54	R361593
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2.0883	mS/cm	1	03/03/2025 11:54	R361593
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		12.0	°C	1	03/03/2025 11:54	R361593
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.11	mg/L	1	03/03/2025 11:54	R361593
SW-846 9040B FIELD									
pH	*	0	1.00		5.24		1	03/03/2025 11:54	R361593
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		2830	mg/L	1	03/05/2025 17:11	R361350
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50		2.16	mg/L	10	03/05/2025 17:10	R361239
Chloride	NELAP	1.00	5.00		50.6	mg/L	10	03/05/2025 17:10	R361239
Sulfate	NELAP	0.99	10.0		1850	mg/L	10	03/05/2025 17:10	R361239
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0167	mg/L	1	03/04/2025 20:36	235481
Boron	NELAP	0.0090	0.0200		0.419	mg/L	1	03/04/2025 20:36	235481
Calcium	NELAP	0.0435	0.100		356	mg/L	1	03/04/2025 20:36	235481
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	03/07/2025 11:30	235481
Arsenic	NELAP	0.0004	0.0010		0.0035	mg/L	5	03/06/2025 17:59	235481
Beryllium	NELAP	0.0002	0.0010		0.0105	mg/L	5	03/05/2025 15:16	235481
Cadmium	NELAP	0.0002	0.0010	J	0.0006	mg/L	5	03/06/2025 17:59	235481
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	03/06/2025 17:59	235481
Cobalt	NELAP	0.0001	0.0010		0.224	mg/L	5	03/06/2025 17:59	235481
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	03/07/2025 11:30	235481
Lithium	*	0.0015	0.0030		0.0503	mg/L	5	03/05/2025 15:16	235481
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	03/06/2025 17:59	235481
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	03/05/2025 15:16	235481
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	03/07/2025 11:30	235481
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	03/07/2025 15:47	235634
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785
Radium-228	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785



Laboratory Results

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

Client: Southern Illinois Power Cooperation
 Client Project: Groundwater Monitoring
 Lab ID: 25020763-004
 Matrix: GROUNDWATER

Work Order: 25020763
 Report Date: 03-Apr-25

Client Sample ID: EP-3

Collection Date: 03/03/2025 13:43

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		16.10	ft	1	03/03/2025 13:43	R361593
Elevation of groundwater surface	*	0	0		502.85	ft	1	03/03/2025 13:43	R361593
Measuring Point Elevation	*	0	0		518.95	ft	1	03/03/2025 13:43	R361593
FIELD PURGE VOLUME									
Purge Volume	*	0	0		0.90	gal	1	03/03/2025 13:43	R361593
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		4.7	NTU	1	03/03/2025 13:43	R361593
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		-13	mV	1	03/03/2025 13:43	R361593
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1.6901	mS/cm	1	03/03/2025 13:43	R361593
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		18.1	°C	1	03/03/2025 13:43	R361593
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.50	mg/L	1	03/03/2025 13:43	R361593
SW-846 9040B FIELD									
pH	*	0	1.00		6.17		1	03/03/2025 13:43	R361593
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1330	mg/L	1	03/06/2025 8:22	R361350
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50	J	0.40	mg/L	10	03/05/2025 17:57	R361239
Chloride	NELAP	1.00	5.00		279	mg/L	10	03/05/2025 17:57	R361239
Sulfate	NELAP	0.99	10.0		302	mg/L	10	03/05/2025 17:57	R361239
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0778	mg/L	1	03/04/2025 20:38	235481
Boron	NELAP	0.0090	0.0200		0.0237	mg/L	1	03/04/2025 20:38	235481
Calcium	NELAP	0.0435	0.100		87.7	mg/L	1	03/04/2025 20:38	235481
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	03/05/2025 15:22	235481
Arsenic	NELAP	0.0004	0.0010		0.0036	mg/L	5	03/06/2025 18:28	235481
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	03/05/2025 15:22	235481
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	03/05/2025 15:22	235481
Chromium	NELAP	0.0007	0.0015		0.0036	mg/L	5	03/05/2025 15:22	235481
Cobalt	NELAP	0.0001	0.0010		0.0249	mg/L	5	03/05/2025 15:22	235481
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	03/05/2025 15:22	235481
Lithium	*	0.0015	0.0030		0.139	mg/L	5	03/05/2025 15:22	235481
Molybdenum	NELAP	0.0006	0.0015	J	0.0007	mg/L	5	03/05/2025 15:22	235481
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	03/05/2025 15:22	235481
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	03/05/2025 15:22	235481
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	03/07/2025 15:49	235634
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785
Radium-228	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

Report Date: 03-Apr-25

Lab ID: 25020763-005

Client Sample ID: EP-4

Matrix: GROUNDWATER

Collection Date: 03/04/2025 13:14

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		8.01	ft	1	03/04/2025 13:14	R361593
Elevation of groundwater surface	*	0	0		511.73	ft	1	03/04/2025 13:14	R361593
Measuring Point Elevation	*	0	0		519.74	ft	1	03/04/2025 13:14	R361593
FIELD PURGE VOLUME									
Purge Volume	*	0	0		6.50	gal	1	03/04/2025 13:14	R361593
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		5.4	NTU	1	03/04/2025 13:14	R361593
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		-41	mV	1	03/04/2025 13:14	R361593
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2.5673	mS/cm	1	03/04/2025 13:14	R361593
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.5	°C	1	03/04/2025 13:14	R361593
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.37	mg/L	1	03/04/2025 13:14	R361593
SW-846 9040B FIELD									
pH	*	0	1.00		5.96		1	03/04/2025 13:14	R361593
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1970	mg/L	1	03/04/2025 17:13	R361270
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50	J	0.10	mg/L	10	03/06/2025 14:45	R361241
Chloride	NELAP	1.00	5.00		457	mg/L	10	03/06/2025 14:45	R361241
Sulfate	NELAP	0.99	10.0		638	mg/L	10	03/06/2025 14:45	R361241
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0476	mg/L	1	03/07/2025 15:19	235594
Boron	NELAP	0.0090	0.0200		8.17	mg/L	1	03/07/2025 15:19	235594
Calcium	NELAP	0.0350	0.100		188	mg/L	1	03/07/2025 15:19	235594
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	03/06/2025 21:27	235594
Arsenic	NELAP	0.0004	0.0010		0.0511	mg/L	5	03/06/2025 21:27	235594
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	03/06/2025 21:27	235594
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	03/06/2025 21:27	235594
Chromium	NELAP	0.0007	0.0015		0.0207	mg/L	5	03/06/2025 21:27	235594
Cobalt	NELAP	0.0001	0.0010		0.0932	mg/L	5	03/06/2025 21:27	235594
Lead	NELAP	0.0006	0.0010	J	0.0008	mg/L	5	03/06/2025 21:27	235594
Lithium	*	0.0015	0.0030		0.0033	mg/L	5	03/06/2025 21:27	235594
Molybdenum	NELAP	0.0006	0.0015	J	0.0008	mg/L	5	03/07/2025 11:48	235594
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	03/06/2025 21:27	235594
Thallium	NELAP	0.0010	0.0020	J	0.0015	mg/L	5	03/06/2025 21:27	235594
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	03/07/2025 15:52	235634
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785
Radium-228	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785



Laboratory Results

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

Client: Southern Illinois Power Cooperation
 Client Project: Groundwater Monitoring
 Lab ID: 25020763-006
 Matrix: GROUNDWATER

Work Order: 25020763
 Report Date: 03-Apr-25

Client Sample ID: EP-5

Collection Date: 03/03/2025 10:27

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		12.61	ft	1	03/03/2025 10:27	R361593
Elevation of groundwater surface	*	0	0		514.98	ft	1	03/03/2025 10:27	R361593
Measuring Point Elevation	*	0	0		527.59	ft	1	03/03/2025 10:27	R361593
FIELD PURGE VOLUME									
Purge Volume	*	0	0		1.50	gal	1	03/03/2025 10:27	R361593
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		2.4	NTU	1	03/03/2025 10:27	R361593
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		112	mV	1	03/03/2025 10:27	R361593
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		0.3077	mS/cm	1	03/03/2025 10:27	R361593
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		12.6	°C	1	03/03/2025 10:27	R361593
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		6.36	mg/L	1	03/03/2025 10:27	R361593
SW-846 9040B FIELD									
pH	*	0	1.00		6.81		1	03/03/2025 10:27	R361593
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		272	mg/L	1	03/06/2025 8:22	R361350
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50	J	0.38	mg/L	10	03/05/2025 18:08	R361239
Chloride	NELAP	1.0	5.0	J	3.0	mg/L	10	03/05/2025 18:08	R361239
Sulfate	NELAP	0.99	10.0		98.0	mg/L	10	03/05/2025 18:08	R361239
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0470	mg/L	1	03/04/2025 20:39	235481
Boron	NELAP	0.0090	0.020	J	0.0097	mg/L	1	03/04/2025 20:39	235481
Calcium	NELAP	0.0435	0.100		14.4	mg/L	1	03/04/2025 20:39	235481
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	03/05/2025 16:12	235481
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	03/06/2025 18:33	235481
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	03/05/2025 16:12	235481
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	03/05/2025 16:12	235481
Chromium	NELAP	0.0007	0.0015	J	0.0009	mg/L	5	03/05/2025 16:12	235481
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	03/05/2025 16:12	235481
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	03/05/2025 16:12	235481
Lithium	*	0.0015	0.0030		0.0034	mg/L	5	03/05/2025 16:12	235481
Molybdenum	NELAP	0.0006	0.0015	J	0.0010	mg/L	5	03/05/2025 16:12	235481
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	03/05/2025 16:12	235481
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	03/05/2025 16:12	235481
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	03/07/2025 16:10	235636
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785
Radium-228	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785



Laboratory Results

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

Client: Southern Illinois Power Cooperation
 Client Project: Groundwater Monitoring
 Lab ID: 25020763-007
 Matrix: GROUNDWATER

Work Order: 25020763
 Report Date: 03-Apr-25

Client Sample ID: EP-6

Collection Date: 03/03/2025 13:19

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		3.04	ft	1	03/03/2025 13:19	R361593
Elevation of groundwater surface	*	0	0		502.07	ft	1	03/03/2025 13:19	R361593
Measuring Point Elevation	*	0	0		505.11	ft	1	03/03/2025 13:19	R361593
FIELD PURGE VOLUME									
Purge Volume	*	0	0		1.60	gal	1	03/03/2025 13:19	R361593
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		3.8	NTU	1	03/03/2025 13:19	R361593
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		94	mV	1	03/03/2025 13:19	R361593
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		0.2531	mS/cm	1	03/03/2025 13:19	R361593
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		12.2	°C	1	03/03/2025 13:19	R361593
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		4.00	mg/L	1	03/03/2025 13:19	R361593
SW-846 9040B FIELD									
pH	*	0	1.00		5.24		1	03/03/2025 13:19	R361593
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		278	mg/L	1	03/05/2025 17:13	R361350
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50		ND	mg/L	10	03/05/2025 18:20	R361239
Chloride	NELAP	1.00	5.00		18.0	mg/L	10	03/05/2025 18:20	R361239
Sulfate	NELAP	0.99	10.0		81.7	mg/L	10	03/05/2025 18:20	R361239
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0359	mg/L	1	03/04/2025 20:49	235481
Boron	NELAP	0.0090	0.0200		< 0.0200	mg/L	1	03/04/2025 20:49	235481
Calcium	NELAP	0.0435	0.100		1.52	mg/L	1	03/04/2025 20:49	235481
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	03/05/2025 16:19	235481
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	03/06/2025 18:39	235481
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	03/05/2025 16:19	235481
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	03/05/2025 16:19	235481
Chromium	NELAP	0.0007	0.0015		0.0019	mg/L	5	03/05/2025 16:19	235481
Cobalt	NELAP	0.0001	0.0010	J	0.0005	mg/L	5	03/05/2025 16:19	235481
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	03/05/2025 16:19	235481
Lithium	*	0.0015	0.0030		0.0140	mg/L	5	03/05/2025 16:19	235481
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	03/05/2025 16:19	235481
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	03/05/2025 16:19	235481
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	03/05/2025 16:19	235481
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	03/07/2025 16:12	235636
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785
Radium-228	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

Report Date: 03-Apr-25

Lab ID: 25020763-008

Client Sample ID: EP-7

Matrix: GROUNDWATER

Collection Date: 03/03/2025 12:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		13.73	ft	1	03/03/2025 12:55	R361593
Elevation of groundwater surface	*	0	0		501.71	ft	1	03/03/2025 12:55	R361593
Measuring Point Elevation	*	0	0		515.44	ft	1	03/03/2025 12:55	R361593
FIELD PURGE VOLUME									
Purge Volume	*	0	0		1.70	gal	1	03/03/2025 12:55	R361593
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		5.6	NTU	1	03/03/2025 12:55	R361593
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		-45	mV	1	03/03/2025 12:55	R361593
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1.5506	mS/cm	1	03/03/2025 12:55	R361593
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.6	°C	1	03/03/2025 12:55	R361593
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.39	mg/L	1	03/03/2025 12:55	R361593
SW-846 9040B FIELD									
pH	*	0	1.00		5.97		1	03/03/2025 12:55	R361593
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1360	mg/L	1	03/06/2025 8:23	R361350
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50	J	0.32	mg/L	10	03/05/2025 18:32	R361239
Chloride	NELAP	1.00	5.00		231	mg/L	10	03/05/2025 18:32	R361239
Sulfate	NELAP	0.99	10.0		498	mg/L	10	03/05/2025 18:32	R361239
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0322	mg/L	1	03/04/2025 20:50	235481
Boron	NELAP	0.0090	0.0200		0.778	mg/L	1	03/04/2025 20:50	235481
Calcium	NELAP	0.0435	0.100		151	mg/L	1	03/04/2025 20:50	235481
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	03/05/2025 16:25	235481
Arsenic	NELAP	0.0004	0.0010		0.0073	mg/L	5	03/06/2025 18:44	235481
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	03/05/2025 16:25	235481
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	03/05/2025 16:25	235481
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	03/05/2025 16:25	235481
Cobalt	NELAP	0.0001	0.0010		0.115	mg/L	5	03/05/2025 16:25	235481
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	03/05/2025 16:25	235481
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	03/05/2025 16:25	235481
Molybdenum	NELAP	0.0006	0.0015	J	0.0008	mg/L	5	03/05/2025 16:25	235481
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	03/05/2025 16:25	235481
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	03/05/2025 16:25	235481
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	03/07/2025 16:15	235636
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785
Radium-228	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

Report Date: 03-Apr-25

Lab ID: 25020763-009

Client Sample ID: Equipment Blank

Matrix: AQUEOUS

Collection Date: 03/04/2025 13:28

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		< 20	mg/L	1	03/04/2025 17:14	R361270
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50		ND	mg/L	10	03/06/2025 14:57	R361241
Chloride	NELAP	1.00	5.00		ND	mg/L	10	03/06/2025 14:57	R361241
Sulfate	NELAP	0.99	10.0		ND	mg/L	10	03/06/2025 14:57	R361241
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		< 0.0025	mg/L	1	03/07/2025 15:20	235594
Boron	NELAP	0.0090	0.0200		0.0220	mg/L	1	03/07/2025 15:20	235594
Calcium	NELAP	0.0350	0.100		0.633	mg/L	1	03/07/2025 15:20	235594
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	03/06/2025 21:32	235594
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	03/06/2025 21:32	235594
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	03/06/2025 21:32	235594
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	03/06/2025 21:32	235594
Chromium	NELAP	0.0007	0.0015	J	0.0010	mg/L	5	03/06/2025 21:32	235594
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	03/06/2025 21:32	235594
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	03/06/2025 21:32	235594
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	03/06/2025 21:32	235594
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	03/06/2025 21:32	235594
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	03/06/2025 21:32	235594
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	03/06/2025 21:32	235594
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	03/07/2025 16:27	235636
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785
Radium-228	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

Report Date: 03-Apr-25

Lab ID: 25020763-010

Client Sample ID: Field Blank

Matrix: AQUEOUS

Collection Date: 03/04/2025 13:28

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		28	mg/L	1	03/04/2025 17:12	R361270
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50		ND	mg/L	10	03/06/2025 15:08	R361241
Chloride	NELAP	1.00	5.00		ND	mg/L	10	03/06/2025 15:08	R361241
Sulfate	NELAP	0.99	10.0		ND	mg/L	10	03/06/2025 15:08	R361241
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		< 0.0025	mg/L	1	03/07/2025 15:21	235594
Boron	NELAP	0.0090	0.020	J	0.014	mg/L	1	03/07/2025 15:21	235594
Calcium	NELAP	0.0350	0.100		< 0.100	mg/L	1	03/07/2025 15:21	235594
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	03/06/2025 21:38	235594
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	03/06/2025 21:38	235594
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	03/06/2025 21:38	235594
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	03/06/2025 21:38	235594
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	03/06/2025 21:38	235594
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	03/06/2025 21:38	235594
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	03/06/2025 21:38	235594
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	03/06/2025 21:38	235594
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	03/06/2025 21:38	235594
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	03/06/2025 21:38	235594
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	03/06/2025 21:38	235594
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	03/07/2025 16:29	235636
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785
Radium-228	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785



Laboratory Results

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

Client: Southern Illinois Power Cooperation
 Client Project: Groundwater Monitoring
 Lab ID: 25020763-011
 Matrix: GROUNDWATER

Work Order: 25020763
 Report Date: 03-Apr-25
 Client Sample ID: Field Duplicate
 Collection Date: 03/03/2025 11:54

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		4.74	ft	1	03/03/2025 11:54	R361593
Elevation of groundwater surface	*	0	0		509.05	ft	1	03/03/2025 11:54	R361593
Measuring Point Elevation	*	0	0		513.79	ft	1	03/03/2025 11:54	R361593
FIELD PURGE VOLUME									
Purge Volume	*	0	0		3.60	gal	1	03/03/2025 11:54	R361593
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		5.8	NTU	1	03/03/2025 11:54	R361593
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		28	mV	1	03/03/2025 11:54	R361593
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2.0883	mS/cm	1	03/03/2025 11:54	R361593
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		12.0	°C	1	03/03/2025 11:54	R361593
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.11	mg/L	1	03/03/2025 11:54	R361593
SW-846 9040B FIELD									
pH	*	0	1.00		5.24		1	03/03/2025 11:54	R361593
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		2830	mg/L	1	03/05/2025 17:12	R361350
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50		2.16	mg/L	10	03/05/2025 18:43	R361239
Chloride	NELAP	1.00	5.00		50.1	mg/L	10	03/05/2025 18:43	R361239
Sulfate	NELAP	0.99	10.0		1830	mg/L	10	03/05/2025 18:43	R361239
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0167	mg/L	1	03/07/2025 19:51	235514
Boron	NELAP	0.0090	0.0200		0.414	mg/L	1	03/07/2025 19:51	235514
Calcium	NELAP	0.0350	0.100		335	mg/L	1	03/07/2025 19:51	235514
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	03/07/2025 11:36	235514
Arsenic	NELAP	0.0004	0.0010		0.0018	mg/L	5	03/05/2025 15:02	235514
Beryllium	NELAP	0.0002	0.0010		0.0100	mg/L	5	03/05/2025 15:02	235514
Cadmium	NELAP	0.0002	0.0010	J	0.0006	mg/L	5	03/05/2025 15:02	235514
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	03/05/2025 15:02	235514
Cobalt	NELAP	0.0001	0.0010		0.208	mg/L	5	03/05/2025 15:02	235514
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	03/07/2025 11:36	235514
Lithium	*	0.0015	0.0030		0.0500	mg/L	5	03/05/2025 15:02	235514
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	03/05/2025 15:02	235514
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	03/05/2025 15:02	235514
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	03/07/2025 11:36	235514
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	03/07/2025 16:31	235636
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785
Radium-228	*	0	0		See Attached	pci/L	1	04/01/2025 14:33	R362785



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

Report Date: 03-Apr-25

STANDARD METHODS 2510 B FIELD

Batch R361593		SampType: LCS		Units mS/cm							
SampID: LCS-1-JC											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1.4120	1.412	0	100.0	90	110	03/03/2025	

Batch R361593		SampType: LCS		Units mS/cm							
SampID: LCS-2-PY											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1.4130	1.412	0	100.1	90	110	03/04/2025	

SW-846 9040B FIELD

Batch R361593		SampType: LCS		Units							
SampID: LCS-1-JC											
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	03/03/2025	

Batch R361593		SampType: LCS		Units							
SampID: LCS-2-PY											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.00	7.000	0	100.0	98.57	101.4	03/04/2025	

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R361270		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	03/04/2025	

Batch R361270		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		920	1000	0	92.0	90	110	03/04/2025	

Batch R361270		SampType: DUP		Units mg/L						RPD Limit 10		Date Analyzed
SampID: 25022021-003GDUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		50		2740				2715	1.10	03/04/2025		



Quality Control Results

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Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

Report Date: 03-Apr-25

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R361270		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 25030063-001ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		40		2920				2680	8.43	03/04/2025	

Batch R361350		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	03/06/2025	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	03/05/2025	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	03/06/2025	

Batch R361350		SampType: MBLK		Units mg/L							
SampID: MB-R361350											
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	03/05/2025	

Batch R361350		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		944	1000	0	94.4	90	110	03/05/2025	
Total Dissolved Solids		20		912	1000	0	91.2	90	110	03/06/2025	
Total Dissolved Solids		20		1050	1000	0	105.2	90	110	03/06/2025	

Batch R361350		SampType: LCS		Units mg/L							
SampID: LCS-R361350											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		944	1000	0	94.4	90	110	03/05/2025	

Batch R361350		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 25020519-005BDUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		20		324				310.0	4.42	03/06/2025	

Batch R361350		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 25022095-001ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		20		504				488.0	3.23	03/05/2025	



Quality Control Results

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Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

Report Date: 03-Apr-25

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R361350		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 25022118-004ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		20		568				558.0	1.78	03/05/2025	

Batch R361350		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 25030225-001CDUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		20		186				202.0	8.25	03/06/2025	

Batch R361350		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 25030331-001ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		200		1180				1240	4.96	03/06/2025	

Batch R361350		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 25030333-001ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		200		37400				38280	2.43	03/06/2025	

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R361239		SampType: MBLK		Units mg/L							
SampID: MBLK/ICB											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.05		ND	0.0040	0	0	0	100	03/05/2025	
Chloride		0.50		ND	0.1000	0	0	0	100	03/05/2025	
Sulfate		1.00		ND	0.0990	0	0	0	100	03/05/2025	

Batch R361239		SampType: MBLK		Units mg/L							
SampID: MB-R361239											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.05		ND						03/05/2025	
Chloride		0.50		ND						03/05/2025	
Sulfate		1.00		ND						03/05/2025	



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Work Order: 25020763

Client Project: Groundwater Monitoring

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SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R361239		SampType: LCS		Units mg/L						
SampID: LCS/ICV/QCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		1.07	1.000	0	106.6	90	110	03/05/2025
Chloride		0.50		20.2	20.00	0	101.1	90	110	03/05/2025
Sulfate		1.00		18.9	20.00	0	94.5	90	110	03/05/2025

Batch R361239		SampType: LCS		Units mg/L						
SampID: LCS-R361239										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		1.07	1.000	0	106.6	90	110	03/05/2025
Chloride		0.50		20.2	20.00	0	101.1	90	110	03/05/2025
Sulfate		1.00		18.9	20.00	0	94.5	90	110	03/05/2025

Batch R361239		SampType: MS		Units mg/L						
SampID: 25020519-014BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		11.0	10.00	0.3030	107.3	80	120	03/05/2025
Chloride		5.00		258	200.0	43.39	107.1	80	120	03/05/2025
Sulfate		10.0		256	200.0	58.09	99.2	80	120	03/05/2025

Batch R361239		SampType: MSD		Units mg/L					RPD Limit 15		Date Analyzed
SampID: 25020519-014BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.50		11.0	10.00	0.3030	107.1	11.04	0.16	03/05/2025	
Chloride		5.00		257	200.0	43.39	107.0	257.6	0.10	03/05/2025	
Sulfate		10.0		256	200.0	58.09	99.0	256.4	0.11	03/05/2025	

Batch R361239		SampType: MS		Units mg/L						
SampID: 25022021-003GMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		4720	2000	2640	104.1	80	120	03/05/2025

Batch R361239		SampType: MSD		Units mg/L					RPD Limit 15		Date Analyzed
SampID: 25022021-003GMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		100		4740	2000	2640	105.2	4722	0.47	03/05/2025	



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Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

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SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R361239		SampType: MS		Units mg/L						
SampID: 25022057-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		11.6	10.00	0.4010	112.0	80	120	03/05/2025
Chloride		5.00		1470	200.0	1308	82.2	80	120	03/05/2025
Sulfate		10.0		195	200.0	1.458	97.0	80	120	03/05/2025

Batch R361239		SampType: MSD		Units mg/L						
SampID: 25022057-001AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		11.5	10.00	0.4010	111.1	11.60	0.83	03/05/2025
Chloride		5.00		1520	200.0	1308	105.7	1472	3.14	03/05/2025
Sulfate		10.0		196	200.0	1.458	97.4	195.4	0.47	03/05/2025

Batch R361239		SampType: MS		Units mg/L						
SampID: 25022118-003AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		11.2	10.00	0.5310	106.4	80	120	03/05/2025
Chloride		5.00		293	200.0	75.36	108.7	80	120	03/05/2025
Sulfate		10.0		254	200.0	56.81	98.6	80	120	03/05/2025

Batch R361239		SampType: MSD		Units mg/L						
SampID: 25022118-003AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		11.2	10.00	0.5310	106.9	11.17	0.49	03/05/2025
Chloride		5.00		293	200.0	75.36	108.7	292.7	0.02	03/05/2025
Sulfate		10.0		254	200.0	56.81	98.6	254.0	0.04	03/05/2025

Batch R361239		SampType: MS		Units mg/L						
SampID: 25030040-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		11.0	10.00	0.1740	108.2	80	120	03/05/2025
Chloride		5.00		479	200.0	250.7	113.9	80	120	03/05/2025
Sulfate		10.0	S	2010	200.0	1846	79.6	80	120	03/05/2025



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Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

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SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R361239		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 25030040-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.50		11.0	10.00	0.1740	108.5	11.00	0.21	03/05/2025	
Chloride		5.00		478	200.0	250.7	113.6	478.5	0.15	03/05/2025	
Sulfate		10.0	S	2000	200.0	1846	76.5	2005	0.31	03/05/2025	

Batch R361241		SampType: MBLK		Units mg/L						Date Analyzed
SampID: MBLK/ICB										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		ND	0.0040	0	0	0	100	03/06/2025
Chloride		0.50		ND	0.1000	0	0	0	100	03/06/2025
Sulfate		1.00		ND	0.0990	0	0	0	100	03/06/2025

Batch R361241		SampType: LCS		Units mg/L						Date Analyzed
SampID: LCS/ICV/QCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		1.04	1.000	0	104.0	90	110	03/06/2025
Chloride		0.50		20.5	20.00	0	102.3	90	110	03/06/2025
Sulfate		1.00		19.3	20.00	0	96.5	90	110	03/06/2025

Batch R361241		SampType: MS		Units mg/L						Date Analyzed
SampID: 25020519-008BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.4	10.00	0	104.0	80	120	03/06/2025
Chloride		5.00		211	200.0	6.659	102.2	80	120	03/06/2025
Sulfate		10.0		292	200.0	94.76	98.8	80	120	03/06/2025

Batch R361241		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 25020519-008BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.50		10.4	10.00	0	103.6	10.40	0.44	03/06/2025	
Chloride		5.00		209	200.0	6.659	101.4	211.0	0.75	03/06/2025	
Sulfate		10.0		291	200.0	94.76	98.0	292.3	0.53	03/06/2025	



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Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

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SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R361241		SampType: MS		Units mg/L							Date Analyzed
SampID: 25030202-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.50		10.8	10.00	0.2640	104.9	80	120	03/06/2025	
Chloride		5.00		808	200.0	603.4	102.1	80	120	03/06/2025	
Sulfate		10.0		234	200.0	40.48	96.6	80	120	03/06/2025	

Batch R361241		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 25030202-002AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Fluoride		0.50		10.6	10.00	0.2640	103.6	10.75	1.20	03/06/2025		
Chloride		5.00		803	200.0	603.4	100.0	807.6	0.52	03/06/2025		
Sulfate		10.0		231	200.0	40.48	95.4	233.6	0.98	03/06/2025		

Batch R361241		SampType: MS		Units mg/L							Date Analyzed
SampID: 25030232-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		5.00		111	100.0	1.180	109.5	80	120	03/06/2025	
Chloride		50.0		3220	2000	1041	109.0	80	120	03/06/2025	
Sulfate		100		10200	2000	8243	97.8	80	120	03/06/2025	

Batch R361241		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 25030232-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Fluoride		5.00		111	100.0	1.180	110.2	110.7	0.63	03/06/2025		
Chloride		50.0		3230	2000	1041	109.4	3220	0.25	03/06/2025		
Sulfate		100		10300	2000	8243	101.3	10200	0.68	03/06/2025		

Batch R361241		SampType: MS		Units mg/L							Date Analyzed
SampID: 25030242-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		100		2140	2000	206.0	96.8	80	120	03/06/2025	

Batch R361241		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 25030242-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Sulfate		100		2110	2000	206.0	95.3	2143	1.48	03/06/2025		



Quality Control Results

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Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

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SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R361241		SampType: MS		Units mg/L						
SampID: 25030259-002AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		11.0	10.00	0	109.7	80	120	03/06/2025
Chloride		5.00		206	200.0	0	103.0	80	120	03/06/2025
Sulfate		10.0		196	200.0	1.390	97.4	80	120	03/06/2025

Batch R361241		SampType: MSD		Units mg/L						
SampID: 25030259-002AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		11.1	10.00	0	110.9	10.97	1.08	03/06/2025
Chloride		5.00		209	200.0	0	104.3	205.9	1.32	03/06/2025
Sulfate		10.0		198	200.0	1.390	98.4	196.3	0.99	03/06/2025

Batch R361241		SampType: MS		Units mg/L						
SampID: 25030310-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		11.3	10.00	0.1450	111.4	80	120	03/06/2025
Chloride		5.00		475	200.0	246.6	114.1	80	120	03/06/2025

Batch R361241		SampType: MSD		Units mg/L						
SampID: 25030310-001AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		11.3	10.00	0.1450	111.9	11.29	0.40	03/06/2025
Chloride		5.00		473	200.0	246.6	113.3	474.8	0.35	03/06/2025

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 235481		SampType: MBLK		Units mg/L						
SampID: MBLK-235481										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	03/04/2025
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	03/04/2025
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	03/04/2025



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Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

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SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 235481 **SampType:** LCS Units mg/L
 SampID: LCS-235481

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		4.39	4.000	0	109.8	85	115	03/07/2025
Boron		0.0200		0.928	1.000	0	92.8	85	115	03/04/2025
Calcium		0.100		4.96	5.000	0	99.2	85	115	03/04/2025

Batch 235481 **SampType:** MS Units mg/L
 SampID: 25022118-003BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		3.99	4.000	0.2394	93.8	75	125	03/04/2025
Boron		0.0200		1.24	1.000	0.2978	93.8	75	125	03/04/2025
Calcium		0.100		65.6	5.000	61.20	87.4	75	125	03/04/2025

Batch 235481 **SampType:** MSD Units mg/L
 SampID: 25022118-003BMSSD

RPD Limit **20**

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0025		3.98	4.000	0.2394	93.5	3.990	0.25	03/04/2025
Boron		0.0200		1.23	1.000	0.2978	92.9	1.235	0.71	03/04/2025
Calcium		0.100	S	63.5	5.000	61.20	46.0	65.57	3.21	03/04/2025

Batch 235514 **SampType:** MBLK Units mg/L
 SampID: MBLK-235514

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	03/05/2025
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	03/05/2025
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	03/05/2025

Batch 235514 **SampType:** LCS Units mg/L
 SampID: LCS-235514

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		3.96	4.000	0	99.0	85	115	03/05/2025
Boron		0.0200		0.933	1.000	0	93.3	85	115	03/05/2025
Calcium		0.100		4.71	5.000	0	94.2	85	115	03/05/2025



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

Report Date: 03-Apr-25

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 235514		SampType: MS		Units mg/L							Date Analyzed
SampID: 25020519-014CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		3.98	4.000	0.1310	96.2	75	125	03/07/2025	
Boron		0.0200		1.16	1.000	0.1881	97.1	75	125	03/07/2025	

Batch 235514		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 25020519-014CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Barium		0.0025		4.23	4.000	0.1310	102.5	3.980	6.09	03/07/2025		
Boron		0.0200		1.23	1.000	0.1881	104.2	1.159	5.98	03/07/2025		

Batch 235594		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-235594											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	03/07/2025	
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	03/10/2025	
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	03/10/2025	
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	03/07/2025	
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	03/07/2025	
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	03/10/2025	

Batch 235594		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-235594											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		3.86	4.000	0	96.5	85	115	03/07/2025	
Barium		0.0025		4.05	4.000	0	101.2	85	115	03/10/2025	
Boron		0.0200		0.966	1.000	0	96.6	85	115	03/10/2025	
Boron		0.0200		1.00	1.000	0	100.4	85	115	03/07/2025	
Calcium		0.100		4.81	5.000	0	96.2	85	115	03/10/2025	
Calcium		0.100		4.96	5.000	0	99.2	85	115	03/07/2025	

Batch 235594		SampType: MS		Units mg/L							Date Analyzed
SampID: 25020519-012CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		3.81	4.000	0.04800	94.0	75	125	03/07/2025	
Boron		0.0200		3.14	1.000	2.152	98.6	75	125	03/07/2025	



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

Report Date: 03-Apr-25

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 235594		SampType: MSD		Units mg/L			RPD Limit 20			
SampID: 25020519-012CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0025		3.78	4.000	0.04800	93.3	3.810	0.79	03/07/2025
Boron		0.0200		3.08	1.000	2.152	92.5	3.138	1.97	03/07/2025

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 235481		SampType: MBLK		Units mg/L						
SampID: MBLK-235481										
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	03/05/2025
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	03/05/2025
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	03/05/2025
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	03/05/2025
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	03/05/2025
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	03/05/2025
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	03/05/2025
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	03/05/2025
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	03/05/2025
Molybdenum		0.0015		< 0.0015	0.0006	0	0	-100	100	03/05/2025
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	03/05/2025
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	03/05/2025

Batch 235481 SampType: LCS Units mg/L

SampID: LCS-235481										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		1.03	1.000	0	103.3	85	115	03/05/2025
Arsenic		0.0010		0.899	1.000	0	89.9	85	115	03/05/2025
Beryllium		0.0010		0.0905	0.1000	0	90.5	85	115	03/05/2025
Boron		0.0250		0.980	1.000	0	98.0	80	120	03/05/2025
Cadmium		0.0010		0.0990	0.1000	0	99.0	85	115	03/05/2025
Chromium		0.0015		0.358	0.4000	0	89.5	85	115	03/05/2025
Cobalt		0.0010		0.888	1.000	0	88.8	85	115	03/05/2025
Lead		0.0010	E	0.891	1.000	0	89.1	85	115	03/05/2025
Lithium	*	0.0030		0.945	1.000	0	94.5	85	115	03/05/2025
Molybdenum		0.0015		0.936	1.000	0	93.6	85	115	03/05/2025
Selenium		0.0010		0.980	1.000	0	98.0	85	115	03/05/2025
Thallium		0.0020		0.446	0.5000	0	89.1	85	115	03/05/2025



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

Report Date: 03-Apr-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 235481 **SampType: MS** Units **mg/L**

SampID: 25020672-038BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250	S	3.97	1.000	3.561	40.7	75	125	03/05/2025

Batch 235481 **SampType: MSD** Units **mg/L**

SampID: 25020672-038BMSD

RPD Limit **20**

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Boron		0.0250	S	3.86	1.000	3.561	29.9	3.968	2.75	03/05/2025

Batch 235514 **SampType: MBLK** Units **mg/L**

SampID: MBLK-235514

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	03/05/2025
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	03/05/2025
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	03/05/2025
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	03/05/2025
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	03/05/2025
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	03/05/2025
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	03/05/2025
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	03/05/2025
Molybdenum		0.0015		< 0.0015	0.0006	0	0	-100	100	03/05/2025
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	03/05/2025
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	03/05/2025

Batch 235514 **SampType: LCS** Units **mg/L**

SampID: LCS-235514

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		1.06	1.000	0	106.5	80	120	03/05/2025
Arsenic		0.0010		0.947	1.000	0	94.7	80	120	03/05/2025
Beryllium		0.0010		0.0928	0.1000	0	92.8	80	120	03/05/2025
Cadmium		0.0010		0.0966	0.1000	0	96.6	80	120	03/05/2025
Chromium		0.0015		0.387	0.4000	0	96.7	80	120	03/05/2025
Cobalt		0.0010		0.930	1.000	0	93.0	80	120	03/05/2025
Lead		0.0010		0.868	1.000	0	86.8	80	120	03/05/2025
Lithium	*	0.0030		0.990	1.000	0	99.0	80	120	03/05/2025
Molybdenum		0.0015		0.934	1.000	0	93.4	80	120	03/05/2025
Selenium		0.0010		0.901	1.000	0	90.1	80	120	03/05/2025
Thallium		0.0020		0.428	0.5000	0	85.6	80	120	03/05/2025



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

Report Date: 03-Apr-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 235594 **SampType:** MBLK **Units** mg/L
SampID: MBLK-235594

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	03/06/2025
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	03/06/2025
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	03/06/2025
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	03/06/2025
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	03/06/2025
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	03/06/2025
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	03/06/2025
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	03/06/2025
Molybdenum		0.0015		< 0.0015	0.0006	0	0	-100	100	03/06/2025
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	03/06/2025
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	03/06/2025

Batch 235594 **SampType:** LCS **Units** mg/L
SampID: LCS-235594

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		1.09	1.000	0	108.5	85	115	03/06/2025
Arsenic		0.0010		0.982	1.000	0	98.2	85	115	03/06/2025
Beryllium		0.0010		0.0912	0.1000	0	91.2	85	115	03/06/2025
Cadmium		0.0010		0.0995	0.1000	0	99.5	85	115	03/06/2025
Chromium		0.0015		0.394	0.4000	0	98.4	85	115	03/06/2025
Cobalt		0.0010		0.945	1.000	0	94.5	85	115	03/06/2025
Lead		0.0010	E	0.978	1.000	0	97.8	85	115	03/06/2025
Lithium	*	0.0030		0.955	1.000	0	95.5	85	115	03/06/2025
Molybdenum		0.0015		0.950	1.000	0	95.0	85	115	03/06/2025
Selenium		0.0010		0.986	1.000	0	98.6	85	115	03/06/2025
Thallium		0.0020		0.467	0.5000	0	93.5	85	115	03/06/2025

Batch 235594 **SampType:** MS **Units** mg/L
SampID: 25020519-012CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		1.05	1.000	0.0008123	105.4	75	125	03/06/2025
Arsenic		0.0010		0.958	1.000	0.009719	94.8	75	125	03/06/2025
Lead		0.0010		0.950	1.000	0.01315	93.7	75	125	03/06/2025
Thallium		0.0020		0.432	0.5000	0	86.3	75	125	03/06/2025



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

Report Date: 03-Apr-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 235594		SampType: MSD		Units mg/L			RPD Limit 20			
SampID: 25020519-012CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		1.08	1.000	0.0008123	107.5	1.055	2.04	03/06/2025
Arsenic		0.0010		0.949	1.000	0.009719	94.0	0.9579	0.90	03/06/2025
Lead		0.0010		0.948	1.000	0.01315	93.5	0.9498	0.22	03/06/2025
Thallium		0.0020		0.447	0.5000	0	89.4	0.4315	3.53	03/06/2025

Batch 235594		SampType: MS		Units mg/L			RPD Limit 20			
SampID: 25030213-002AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Lead		0.0010		0.940	1.000	0.01105	92.9	75	125	03/06/2025

Batch 235594		SampType: MSD		Units mg/L			RPD Limit 20			
SampID: 25030213-002AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Lead		0.0010		0.941	1.000	0.01105	93.0	0.9403	0.04	03/06/2025

SW-846 7470A (TOTAL)

Batch 235634		SampType: MBLK		Units mg/L			RPD Limit 20			
SampID: MBLK-235634										
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	03/07/2025

Batch 235634		SampType: LCS		Units mg/L			RPD Limit 20			
SampID: LCS-235634										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00467	0.0050	0	93.4	85	115	03/07/2025

Batch 235634		SampType: MS		Units mg/L			RPD Limit 20			
SampID: 25020519-014CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00482	0.0050	0	96.5	75	125	03/07/2025

Batch 235634		SampType: MSD		Units mg/L			RPD Limit 15			
SampID: 25020519-014CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		0.00481	0.0050	0	96.1	0.004824	0.36	03/07/2025



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

Report Date: 03-Apr-25

SW-846 7470A (TOTAL)

Batch 235634		SampType: MS		Units mg/L							Date Analyzed
SampID: 25030077-027BMS											
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	03/07/2025	

Batch 235634		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 25030077-027BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00477	0.0050	0	95.4	0.004723	0.95	03/07/2025		

Batch 235636		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-235636											
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	03/07/2025	

Batch 235636		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-235636											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00475	0.0050	0	94.9	85	115	03/07/2025	

Batch 235636		SampType: MS		Units mg/L							Date Analyzed
SampID: 25020763-008CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00392	0.0050	0	78.4	75	125	03/10/2025	

Batch 235636		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 25020763-008CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00389	0.0050	0	77.7	0.003922	0.92	03/10/2025		

Batch 235636		SampType: MS		Units mg/L							Date Analyzed
SampID: 25030424-010BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00508	0.0050	0	101.5	75	125	03/07/2025	

Batch 235636		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 25030424-010BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00500	0.0050	0	100.1	0.005077	1.45	03/07/2025		



Receiving Check List

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

Client: Southern Illinois Power Cooperation

Work Order: 25020763

Client Project: Groundwater Monitoring

Report Date: 03-Apr-25

Carrier: Justin Colp

Received By: JMD

Completed by:

Amber Dilallo

Reviewed by:

Elizabeth A. Hurley

On:

03-Mar-25

Amber Dilallo

On:

05-Mar-25

Elizabeth A. Hurley

Pages to follow: Chain of custody

Extra pages included

- Shipping container/cooler in good condition? Yes No Not Present Temp °C **6.3**
- Type of thermal preservation? None Ice Blue Ice Dry Ice
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Reported field parameters measured: Field Lab NA
- Container/Temp Blank temperature in compliance? Yes No

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 No No VOA vials
- Water - TOX containers have zero headspace? Yes No No TOX containers
- Water - pH acceptable upon receipt? Yes No NA
- NPDES/CWA TCN interferences checked/treated in the field? Yes No NA

Any No responses must be detailed below or on the COC.

Samples were received on 3/3/25 at 1615 on ice [6.3, 5.5 and 5.7C - LTG#5]. pH strip #101358. - JD/amberdilallo - 3/3/2025 4:48:21 PM

Samples were received on 03/04/25 at 1530 on ice [6.3C - LTG#9]. pH#101358. EGB was not collected on 3/4/25. Date/time was for EP-4 per Danny Crump. - NR/lhenson - 3/4/2025 4:34:02 PM

Drop off Location

- Downers Grove, IL Lenexa, KS
 Springfield, IL Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 2 Work order # 25020763

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client: Southern Illinois Power Cooperation
Address: 11543 Lake of Egypt Road
City / State / Zip: Marion, IL 62959
Contact: Jason McLaurin **Phone:** (618) 964-1448
E-Mail: jmclaurin@sipower.org **Fax:** _____

Samples on: ICE BLUE ICE NO ICE 63, 55, 57 °C **LTG#** 5
Preserved in: LAB FIELD **FOR LAB USE ONLY**
Lab Notes: PH 10.1558
JO 3/3/25

Are these samples known to be involved in litigation? If yes, a surcharge will apply Yes No
 Are these samples known to be hazardous? If yes, include details of the hazard. Yes No
 Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. Yes No

Client Comments Report QC LVL: 2

Project Name/Number Groundwater Monitoring
Sample Collector's Name Justin Colp

Results Requested (call for PFAS TAT and surcharges)
 Standard 1-2 Day (100% Surcharge)
 Date 3 Day (50% Surcharge)
Billing/PO# # and Type of Containers

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers																	
			UNP	HNO3																
25020763-001	EBG	3-3-25 / 1000	1	3																
-002	EP-1	3-3-25 / 1043	1	3																
-003	EP-2	3-3-25 / 1154	1	3																
-004	EP-3	3-3-25 / 1343	1	3																
-005	EP-4		1	3																
-006	EP-5	3-3-25 / 1027	1	3																
-007	EP-6	3-3-25 / 1319	1	3																
-008	EP-7	3-3-25 / 1255	1	3																
-009	Equipment Blank		1	3																
-010	Field Blank		1	3																

MATRIX	INDICATE ANALYSIS REQUESTED									
	CI SO4 F-	Field Parameters	ICP Metals	ICP/MS Metals	Mercury	Ra226/228	TDS			
Aqueous										
Groundwater	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X			

Relinquished By	Date/Time	Received By	Date/Time
J. Colp	3-3-25 / 16:15	John Durr	3/3/25 16:15

Drop off Location

- Downers Grove, IL
 Lenexa, KS
 Springfield, IL
 Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 2 Work order # 25020763

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client: Southern Illinois Power Cooperation
Address: 11543 Lake of Egypt Road
City / State / Zip: Marion, IL 62959
Contact: Jason McLaurin **Phone:** (618) 964-1448
E-Mail: jmclaurin@sipower.org **Fax:**

Samples on: ICE BLUE ICE NO ICE 6.3 °C LTG# 9
Preserved in: LAB FIELD **FOR LAB USE ONLY**
Lab Notes: 10/358 ~ 3/4 PPR Danny K, EBG was not collected. wrote Date + Time

Client Comments: for EP-4 - Report QC LVL: 2
 3/4

Are these samples known to be involved in litigation? If yes, a surcharge will apply Yes No
 Are these samples known to be hazardous? If yes, include details of the hazard. Yes No
 Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. Yes No

Project Name/Number		Sample Collector's Name		MATRIX		INDICATE ANALYSIS REQUESTED																
Groundwater Monitoring		Payton Tech / Danielle K...		Aqueous	Groundwater	Cl SO4 F-	Field Parameters	ICP Metals	ICP/MS Metals	Mercury	Ra226/228	TDS										
Results Requested (call for PFAS TAT and surcharges)	Billing/PO#	# and Type of Containers																				
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> 1-2 Day (100% Surcharge)		UNP	HNO3																		
<input type="checkbox"/> Date	<input type="checkbox"/> 3 Day (50% Surcharge)																					
Lab Use Only	Sample Identification	Date/Time Sampled																				
25020763-001	EBG	3/4/25 1314	1	3	X		X	X	X	X	X	X										
-002	EP-1	~ 3/4	1	3	X		X	X	X	X	X	X										
-003	EP-2		1	3	X		X	X	X	X	X	X										
-004	EP-3		1	3	X		X	X	X	X	X	X										
-005	EP-4	3/4/25 1314	1	3	X		X	X	X	X	X	X										
-006	EP-5		1	3	X		X	X	X	X	X	X										
-007	EP-6		1	3	X		X	X	X	X	X	X										
-008	EP-7		1	3	X		X	X	X	X	X	X										
-009	Equipment Blank	3/4/25 1328	1	3	X		X	X	X	X	X	X										
-010	Field Blank	3/4/25 1328	1	3	X		X	X	X	X	X	X										

Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	3-4/1530	<i>[Signature]</i>	3/4/25 1530

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 97522





Alliance Technical Group - Akron
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Website: <http://www.settek.com>

April 03, 2025

Elizabeth Hurley
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:
RE: 25020763

Order No.: 25030572

Dear Elizabeth Hurley:

Alliance Technical Group - Akron received 11 sample(s) on 3/7/2025 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

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

Sincerely,

Jennifer Woolf
Project Manager
3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C



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Case Narrative

WO#: 25030572
Date: 4/3/2025

CLIENT: TEKLAB Inc,
Project: 25020763

WorkOrder Narrative:

25030572: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Original

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	RL	Reporting Limit
QC	Quality Control	MDL	Method Detection Limit
MB	Method Blank	LOD	Level of Detection
LCS	Laboratory Control Sample	LOQ	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	PQL	Practical Quantitation Limit
QCS	Quality Control Sample	CRQL	Contract Required Quantitation Limit
DUP	Duplicate	PL	Permit Limit
MS	Matrix Spike	RegLvl	Regulatory Limit
MSD	Matrix Spike Duplicate	MCL	Maximum Contamination Limit
RPD	Relative Percent Different	MinCL	Minimum Compound Limit
ICV	Initial Calibration Verification	RA	Reanalysis
ICB	Initial Calibration Blank	RE	Reextraction
CCV	Continuing Calibration Verification	TIC	Tentatively Identified Compound
CCB	Continuing Calibration Blank	RT	Retention Time
RLC	Reporting Limit Check	CF	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.



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Workorder Sample Summary

WO#: 25030572
03-Apr-25

CLIENT: TEKLAB Inc,
Project: 25020763

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
25030572-001	25020763-001		3/3/2025 10:00:00 AM	3/7/2025 5:10:00 PM	Non-Potable Water
25030572-002	25020763-002		3/3/2025 10:43:00 AM	3/7/2025 5:10:00 PM	Non-Potable Water
25030572-003	25020763-003		3/3/2025 11:54:00 AM	3/7/2025 5:10:00 PM	Non-Potable Water
25030572-004	25020763-004		3/3/2025 1:43:00 PM	3/7/2025 5:10:00 PM	Non-Potable Water
25030572-005	25020763-005		3/4/2025 1:14:00 PM	3/7/2025 5:10:00 PM	Non-Potable Water
25030572-006	25020763-006		3/3/2025 10:27:00 AM	3/7/2025 5:10:00 PM	Non-Potable Water
25030572-007	25020763-007		3/3/2025 1:19:00 PM	3/7/2025 5:10:00 PM	Non-Potable Water
25030572-008	25020763-008		3/3/2025 12:55:00 PM	3/7/2025 5:10:00 PM	Non-Potable Water
25030572-009	25020763-009		3/4/2025 1:28:00 PM	3/7/2025 5:10:00 PM	Non-Potable Water
25030572-010	25020763-010		3/4/2025 1:28:00 PM	3/7/2025 5:10:00 PM	Non-Potable Water
25030572-011	25020763-011		3/3/2025 11:54:00 AM	3/7/2025 5:10:00 PM	Non-Potable Water



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DATES REPORT

WO#: 25030572
 03-Apr-25

Client: TEKLAB Inc,
Project: 25020763

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25030572-001A	25020763-001	3/3/2025 10:00:00 AM	Non-Potable Water	Combined Radium (EPA903+904)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-226 (EPA 903.0)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-228 (EPA 904.0)		3/18/2025 9:15:00 AM	4/1/2025 2:33:00 PM
25030572-002A	25020763-002	3/3/2025 10:43:00 AM		Combined Radium (EPA903+904)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-226 (EPA 903.0)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-228 (EPA 904.0)		3/18/2025 9:15:00 AM	4/1/2025 2:33:00 PM
25030572-003A	25020763-003	3/3/2025 11:54:00 AM		Combined Radium (EPA903+904)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-226 (EPA 903.0)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-228 (EPA 904.0)		3/18/2025 9:15:00 AM	4/1/2025 2:33:00 PM
25030572-004A	25020763-004	3/3/2025 1:43:00 PM		Combined Radium (EPA903+904)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-226 (EPA 903.0)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-228 (EPA 904.0)		3/18/2025 9:15:00 AM	4/1/2025 2:33:00 PM
25030572-005A	25020763-005	3/4/2025 1:14:00 PM		Combined Radium (EPA903+904)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-226 (EPA 903.0)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-228 (EPA 904.0)		3/18/2025 9:15:00 AM	4/1/2025 2:33:00 PM
25030572-006A	25020763-006	3/3/2025 10:27:00 AM		Combined Radium (EPA903+904)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-226 (EPA 903.0)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-228 (EPA 904.0)		3/18/2025 9:15:00 AM	4/1/2025 2:33:00 PM
25030572-007A	25020763-007	3/3/2025 1:19:00 PM		Combined Radium (EPA903+904)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-226 (EPA 903.0)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-228 (EPA 904.0)		3/18/2025 9:15:00 AM	4/1/2025 2:33:00 PM
25030572-008A	25020763-008	3/3/2025 12:55:00 PM		Combined Radium (EPA903+904)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-226 (EPA 903.0)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM

Original



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DATES REPORT

WO#: 25030572
 03-Apr-25

Client: TEKLAB Inc,
Project: 25020763

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25030572-008A	25020763-008	3/3/2025 12:55:00 PM	Non-Potable Water	Radium-228 (EPA 904.0)		3/18/2025 9:15:00 AM	4/1/2025 2:33:00 PM
25030572-009A	25020763-009	3/4/2025 1:28:00 PM		Combined Radium (EPA903+904)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-226 (EPA 903.0)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-228 (EPA 904.0)		3/18/2025 9:15:00 AM	4/1/2025 2:33:00 PM
25030572-010A	25020763-010			Combined Radium (EPA903+904)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-226 (EPA 903.0)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-228 (EPA 904.0)		3/18/2025 9:15:00 AM	4/1/2025 2:33:00 PM
25030572-011A	25020763-011	3/3/2025 11:54:00 AM		Combined Radium (EPA903+904)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-226 (EPA 903.0)		3/18/2025 9:15:00 AM	4/2/2025 10:15:00 AM
				Radium-228 (EPA 904.0)		3/18/2025 9:15:00 AM	4/1/2025 2:33:00 PM

Original



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Analytical Report

(consolidated)

WO#: 25030572

Date Reported: 4/3/2025

CLIENT: TEKLAB Inc,
Project: 25020763
Lab ID: 25030572-001
Client Sample ID: 25020763-001

Collection Date: 3/3/2025 10:00:00 AM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: HDJ	
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.550	1	4/2/2025 10:15:00 AM
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.0900	1	4/2/2025 10:15:00 AM
Yield	1.00					1	4/2/2025 10:15:00 AM
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: HDJ	
Radium-228	ND	1.00		pCi/L	± 0.460	1	4/1/2025 2:33:00 PM
Yield	1.00					1	4/1/2025 2:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original



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Analytical Report

(consolidated)

WO#: 25030572

Date Reported: 4/3/2025

CLIENT: TEKLAB Inc,
Project: 25020763
Lab ID: 25030572-002
Client Sample ID: 25020763-002

Collection Date: 3/3/2025 10:43:00 AM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: HDJ	
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.620	1	4/2/2025 10:15:00 AM
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.140	1	4/2/2025 10:15:00 AM
Yield	1.00					1	4/2/2025 10:15:00 AM
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: HDJ	
Radium-228	1.02	1.00		pCi/L	± 0.480	1	4/1/2025 2:33:00 PM
Yield	1.00					1	4/1/2025 2:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original



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Analytical Report

(consolidated)

WO#: 25030572

Date Reported: 4/3/2025

CLIENT: TEKLAB Inc,
Project: 25020763
Lab ID: 25030572-003
Client Sample ID: 25020763-003

Collection Date: 3/3/2025 11:54:00 AM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: HDJ	
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.790	1	4/2/2025 10:15:00 AM
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.120	1	4/2/2025 10:15:00 AM
Yield	1.00					1	4/2/2025 10:15:00 AM
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: HDJ	
Radium-228	1.88	1.00		pCi/L	± 0.670	1	4/1/2025 2:33:00 PM
Yield	0.930					1	4/1/2025 2:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original



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Analytical Report

(consolidated)

WO#: 25030572

Date Reported: 4/3/2025

CLIENT: TEKLAB Inc,
Project: 25020763
Lab ID: 25030572-004
Client Sample ID: 25020763-004

Collection Date: 3/3/2025 1:43:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: HDJ	
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.810	1	4/2/2025 10:15:00 AM
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.120	1	4/2/2025 10:15:00 AM
Yield	1.00					1	4/2/2025 10:15:00 AM
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: HDJ	
Radium-228	1.69	1.00		pCi/L	± 0.690	1	4/1/2025 2:33:00 PM
Yield	0.940					1	4/1/2025 2:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original



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Analytical Report

(consolidated)

WO#: 25030572

Date Reported: 4/3/2025

CLIENT: TEKLAB Inc,
Project: 25020763
Lab ID: 25030572-005
Client Sample ID: 25020763-005

Collection Date: 3/4/2025 1:14:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: HDJ	
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.640	1	4/2/2025 10:15:00 AM
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.110	1	4/2/2025 10:15:00 AM
Yield	1.00					1	4/2/2025 10:15:00 AM
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: HDJ	
Radium-228	ND	1.00		pCi/L	± 0.530	1	4/1/2025 2:33:00 PM
Yield	1.00					1	4/1/2025 2:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original



Alliance Technical Group - Akron
 3310 Win St.
 Cuyahoga Falls, Ohio 44223
 TEL: (330) 253-8211 FAX: (330) 253-4489
 Website: <http://www.settek.com>

Analytical Report

(consolidated)

WO#: 25030572

Date Reported: 4/3/2025

CLIENT: TEKLAB Inc,
Project: 25020763
Lab ID: 25030572-006
Client Sample ID: 25020763-006

Collection Date: 3/3/2025 10:27:00 AM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: HDJ	
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.500	1	4/2/2025 10:15:00 AM
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.0900	1	4/2/2025 10:15:00 AM
Yield	1.00					1	4/2/2025 10:15:00 AM
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: HDJ	
Radium-228	ND	1.00		pCi/L	± 0.410	1	4/1/2025 2:33:00 PM
Yield	1.00					1	4/1/2025 2:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original



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Analytical Report

(consolidated)

WO#: 25030572

Date Reported: 4/3/2025

CLIENT: TEKLAB Inc,
Project: 25020763
Lab ID: 25030572-007
Client Sample ID: 25020763-007

Collection Date: 3/3/2025 1:19:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: HDJ	
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.740	1	4/2/2025 10:15:00 AM
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.120	1	4/2/2025 10:15:00 AM
Yield	1.00					1	4/2/2025 10:15:00 AM
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: HDJ	
Radium-228	ND	1.00		pCi/L	± 0.620	1	4/1/2025 2:33:00 PM
Yield	1.00					1	4/1/2025 2:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original



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Analytical Report

(consolidated)

WO#: 25030572

Date Reported: 4/3/2025

CLIENT: TEKLAB Inc,
Project: 25020763
Lab ID: 25030572-008
Client Sample ID: 25020763-008

Collection Date: 3/3/2025 12:55:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: HDJ	
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.530	1	4/2/2025 10:15:00 AM
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.0700	1	4/2/2025 10:15:00 AM
Yield	1.00					1	4/2/2025 10:15:00 AM
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: HDJ	
Radium-228	ND	1.00		pCi/L	± 0.460	1	4/1/2025 2:33:00 PM
Yield	1.00					1	4/1/2025 2:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original



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Analytical Report

(consolidated)

WO#: 25030572

Date Reported: 4/3/2025

CLIENT: TEKLAB Inc,
Project: 25020763
Lab ID: 25030572-009
Client Sample ID: 25020763-009

Collection Date: 3/4/2025 1:28:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: HDJ	
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.430	1	4/2/2025 10:15:00 AM
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.0800	1	4/2/2025 10:15:00 AM
Yield	1.00					1	4/2/2025 10:15:00 AM
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: HDJ	
Radium-228	ND	1.00		pCi/L	± 0.350	1	4/1/2025 2:33:00 PM
Yield	1.00					1	4/1/2025 2:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original



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Analytical Report

(consolidated)

WO#: 25030572

Date Reported: 4/3/2025

CLIENT: TEKLAB Inc,
Project: 25020763
Lab ID: 25030572-010
Client Sample ID: 25020763-010

Collection Date: 3/4/2025 1:28:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: HDJ	
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.440	1	4/2/2025 10:15:00 AM
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.0800	1	4/2/2025 10:15:00 AM
Yield	1.00					1	4/2/2025 10:15:00 AM
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: HDJ	
Radium-228	ND	1.00		pCi/L	± 0.360	1	4/1/2025 2:33:00 PM
Yield	1.00					1	4/1/2025 2:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original



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Analytical Report

(consolidated)

WO#: 25030572

Date Reported: 4/3/2025

CLIENT: TEKLAB Inc,
Project: 25020763
Lab ID: 25030572-011
Client Sample ID: 25020763-011

Collection Date: 3/3/2025 11:54:00 AM

Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				CALCULATION E903-904		Analyst: HDJ	
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.560	1	4/2/2025 10:15:00 AM
RADIUM-226 (EPA 903.0)				E903.0 E903-904		Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.120	1	4/2/2025 10:15:00 AM
Yield	1.00					1	4/2/2025 10:15:00 AM
RADIUM-228 (EPA 904.0)				E904.0 E903-904		Analyst: HDJ	
Radium-228	ND	1.00		pCi/L	± 0.440	1	4/1/2025 2:33:00 PM
Yield	1.00					1	4/1/2025 2:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original



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QC SUMMARY REPORT

WO#: 25030572

03-Apr-25

Client: TEKLAB Inc,
Project: 25020763

BatchID: 82995

Sample ID: MB-82995	SampType: MBLK	TestCode: Radium-228_	Units: pCi/L	Prep Date: 3/18/2025	RunNo: 206224						
Client ID: BatchQC	Batch ID: 82995	TestNo: E904.0	E903-904	Analysis Date: 4/1/2025	SeqNo: 5520477						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: LCS-82995	SampType: LCS	TestCode: Radium-228_	Units: pCi/L	Prep Date: 3/18/2025	RunNo: 206224						
Client ID: BatchQC	Batch ID: 82995	TestNo: E904.0	E903-904	Analysis Date: 4/1/2025	SeqNo: 5520478						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.44	1.00	5.000	0	68.8	50	130				
Yield	1.00			0	0						

Sample ID: LCSD-82995	SampType: LCSD	TestCode: Radium-228_	Units: pCi/L	Prep Date: 3/18/2025	RunNo: 206224						
Client ID: BatchQC	Batch ID: 82995	TestNo: E904.0	E903-904	Analysis Date: 4/1/2025	SeqNo: 5520479						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.05	1.00	5.000	0	61.0	50	130	3.440	12.0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:
 H Holding times for preparation or analysis exceeded
 PL Permit Limit
 W Sample container temperature is out of limit as specified at testcode

M Manual Integration used to determine area response
 R RPD outside accepted recovery limits

ND Not Detected
 RL Reporting Detection Limit



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QC SUMMARY REPORT

WO#: 25030572

03-Apr-25

Client: TEKLAB Inc,
Project: 25020763

BatchID: 82995

Sample ID: 25030751-001ADUP	SampType: DUP	TestCode: Radium-228_	Units: pCi/L	Prep Date: 3/18/2025	RunNo: 206224						
Client ID: BatchQC	Batch ID: 82995	TestNo: E904.0	E903-904	Analysis Date: 4/1/2025	SeqNo: 5520484						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Sample ID: 25030776-001ADUP	SampType: DUP	TestCode: Radium-228_	Units: pCi/L	Prep Date: 3/18/2025	RunNo: 206224						
Client ID: BatchQC	Batch ID: 82995	TestNo: E904.0	E903-904	Analysis Date: 4/1/2025	SeqNo: 5520486						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	1.00			0	0			0.9500	5.13		

Qualifiers:
 H Holding times for preparation or analysis exceeded
 PL Permit Limit
 W Sample container temperature is out of limit as specified at testcode

M Manual Integration used to determine area response
 R RPD outside accepted recovery limits

ND Not Detected
 RL Reporting Detection Limit



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QC SUMMARY REPORT

WO#: 25030572

03-Apr-25

Client: TEKLAB Inc,
Project: 25020763

BatchID: 82995

Sample ID: MB-82995	SampType: MBLK	TestCode: Radium-226_	Units: pCi/L	Prep Date: 3/18/2025	RunNo: 206231
Client ID: BatchQC	Batch ID: 82995	TestNo: E903.0	E903-904	Analysis Date: 4/2/2025	SeqNo: 5520632
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium-226	ND	1.00			
Yield	1.00				

Sample ID: LCS-82995	SampType: LCS	TestCode: Radium-226_	Units: pCi/L	Prep Date: 3/18/2025	RunNo: 206231
Client ID: BatchQC	Batch ID: 82995	TestNo: E903.0	E903-904	Analysis Date: 4/2/2025	SeqNo: 5520633
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium-226	3.93	1.00	5.000	0	78.6 70 130

Sample ID: LCSD-82995	SampType: LCSD	TestCode: Radium-226_	Units: pCi/L	Prep Date: 3/18/2025	RunNo: 206231
Client ID: BatchQC	Batch ID: 82995	TestNo: E903.0	E903-904	Analysis Date: 4/2/2025	SeqNo: 5520634
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium-226	4.75	1.00	5.000	0	95.0 70 130 3.930 18.9 20

Sample ID: 25030751-001ADUP	SampType: DUP	TestCode: Radium-226_	Units: pCi/L	Prep Date: 3/18/2025	RunNo: 206231
Client ID: BatchQC	Batch ID: 82995	TestNo: E903.0	E903-904	Analysis Date: 4/2/2025	SeqNo: 5520639
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Qualifiers:
 H Holding times for preparation or analysis exceeded
 PL Permit Limit
 W Sample container temperature is out of limit as specified at testcode

M Manual Integration used to determine area response
 R RPD outside accepted recovery limits

ND Not Detected
 RL Reporting Detection Limit



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QC SUMMARY REPORT

WO#: 25030572
 03-Apr-25

Client: TEKLAB Inc,
Project: 25020763

BatchID: 82995

Sample ID: 25030751-001ADUP	SampType: DUP	TestCode: Radium-226_	Units: pCi/L	Prep Date: 3/18/2025	RunNo: 206231						
Client ID: BatchQC	Batch ID: 82995	TestNo: E903.0	E903-904	Analysis Date: 4/2/2025	SeqNo: 5520639						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Sample ID: 25030776-001ADUP	SampType: DUP	TestCode: Radium-226_	Units: pCi/L	Prep Date: 3/18/2025	RunNo: 206231						
Client ID: BatchQC	Batch ID: 82995	TestNo: E903.0	E903-904	Analysis Date: 4/2/2025	SeqNo: 5520641						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							0.9300	7.25	0	

Qualifiers:
 H Holding times for preparation or analysis exceeded
 PL Permit Limit
 W Sample container temperature is out of limit as specified at testcode

M Manual Integration used to determine area response
 R RPD outside accepted recovery limits

ND Not Detected
 RL Reporting Detection Limit

Client Name: TEK-IL-62234-A

Work Order Number: 25030572

RcptNo: 1

Logged by:	Tegan A. Richards	3/7/2025 5:10:00 PM	<i>Tegan Richards</i>
Completed By:	Tegan A. Richards	3/8/2025 3:54:14 PM	<i>Tegan Richards</i>
Reviewed By:	Jennifer Woolf	3/10/2025 10:56:52 AM	<i>Jennifer M. Woolf</i>

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 Custody seals intact on shipping container/cooler? Yes No Not Present
 No. Seal Date: 2/28/2025 Signed By:
 5. Was an attempt made to cool the samples? Yes No NA
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
Not required
 7. Sample(s) in proper container(s)? Yes No
 8. Sufficient sample volume for indicated test(s)? Yes No
 9. Are samples (except VOA and ONG) properly preserved? Yes No
 10. Was preservative added to bottles? Yes No NA
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
 12. Were any sample containers received broken? Yes No
 13. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 14. Are matrices correctly identified on Chain of Custody? Yes No
 15. Is it clear what analyses were requested? Yes No
 16. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:
 One container of -002 rec'd empty

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	12.7	Good	Yes		3/5/2025	
2	17.2	Good	Yes		3/5/2025	



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Sample Log-In Check List

Client Name: TEK-IL-62234-A

Work Order Number: 25030572

RcptNo: 1

3	17.6	Good	Yes		3/5/2025
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July 24, 2025

Jason McLaurin
Southern Illinois Power Cooperation
11543 Lake of Egypt Road
Marion, IL 62959
TEL: (618) 964-1448
FAX:



Illinois	100226
Illinois	1004652024-2
Kansas	E-10438
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Groundwater Monitoring

WorkOrder: 25051210

Dear Jason McLaurin:

TEKLAB, INC received 11 samples on 6/4/2025 3:54:00 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



Report Contents

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

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Quality Control Results	18
Receiving Check List	39
Chain of Custody	Appended

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

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)

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

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)

Client: Southern Illinois Power Cooperation
Client Project: Groundwater Monitoring

Work Order: 25051210
Report Date: 24-Jul-25

Cooler Receipt Temp: 12.1 °C

An employee of Teklab, Inc. collected the sample(s).

Field Duplicate date of collection is 6/4/25 per field file. EAH 6/12/25

Ra226/228 analyses were performed by Alliance Technical Group - Akron. See attached report for results and QC data.

Locations

Collinsville

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 Collinsville, IL 62234-7425
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Accreditations

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

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2026	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2026	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2026	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2026	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2025	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	KWLCP	KY98050		12/31/2025	Collinsville
Kentucky	KWLCP	KY98006		12/31/2025	Collinsville
Kentucky	UST	0073		1/31/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

Lab ID: 25051210-001

Client Sample ID: EBG

Matrix: GROUNDWATER

Collection Date: 06/02/2025 12:37

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		8.36	ft	1	06/02/2025 12:37	R366277
Elevation of groundwater surface	*	0	0		516.51	ft	1	06/02/2025 12:37	R366277
Measuring Point Elevation	*	0	0		524.87	ft	1	06/02/2025 12:37	R366277
FIELD PURGE VOLUME									
Purge Volume	*	0	0		3.70	gal	1	06/02/2025 12:37	R366277
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		10	NTU	1	06/02/2025 12:37	R366277
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		155	mV	1	06/02/2025 12:37	R366277
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		0.4479	mS/cm	1	06/02/2025 12:37	R366277
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		61.7	°F	1	06/02/2025 12:37	R366277
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		3.23	mg/L	1	06/02/2025 12:37	R366277
SW-846 9040B FIELD									
pH	*	0	1.00		6.56		1	06/02/2025 12:37	R366277
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	16	20	H	330	mg/L	1	06/09/2025 15:19	R366397
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50		0.57	mg/L	10	06/03/2025 12:46	R365915
Chloride	NELAP	1.00	5.00		12.4	mg/L	10	06/03/2025 12:46	R365915
Sulfate	NELAP	0.99	10.0		72.3	mg/L	10	06/03/2025 12:46	R365915
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0421	mg/L	1	06/05/2025 22:24	239971
Boron	NELAP	0.0090	0.020	J	0.012	mg/L	1	06/05/2025 22:24	239971
Calcium	NELAP	0.0350	0.100		12.2	mg/L	1	06/05/2025 22:24	239971
SW-846 3005A, 6020A, METALS BY ICNMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/04/2025 16:47	239971
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/04/2025 16:47	239971
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/04/2025 16:47	239971
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/04/2025 16:47	239971
Chromium	NELAP	0.0009	0.0015	J	0.0009	mg/L	5	06/04/2025 16:47	239971
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	06/04/2025 16:47	239971
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/04/2025 16:47	239971
Lithium	*	0.0015	0.0030		0.0177	mg/L	5	06/04/2025 16:47	239971
Molybdenum	NELAP	0.0006	0.0015	J	0.0011	mg/L	5	06/04/2025 16:47	239971
Selenium	NELAP	0.0006	0.0010	J	0.0008	mg/L	5	06/04/2025 16:47	239971
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	06/04/2025 16:47	239971
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	06/03/2025 15:12	240014
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	07/11/2025 15:01	R368581
Radium-228	*	0	0		See Attached	pci/L	1	07/11/2025 15:01	R368581



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

Lab ID: 25051210-002

Client Sample ID: EP-1

Matrix: GROUNDWATER

Collection Date: 06/03/2025 10:58

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		5.20	ft	1	06/03/2025 10:58	R366277
Elevation of groundwater surface	*	0	0		514.52	ft	1	06/03/2025 10:58	R366277
Measuring Point Elevation	*	0	0		519.72	ft	1	06/03/2025 10:58	R366277
FIELD PURGE VOLUME									
Purge Volume	*	0	0		1.60	gal	1	06/03/2025 10:58	R366277
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		2.1	NTU	1	06/03/2025 10:58	R366277
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		143	mV	1	06/03/2025 10:58	R366277
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2.4926	mS/cm	1	06/03/2025 10:58	R366277
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		64.4	°F	1	06/03/2025 10:58	R366277
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.02	mg/L	1	06/03/2025 10:58	R366277
SW-846 9040B FIELD									
pH	*	0	1.00		6.23		1	06/03/2025 10:58	R366277
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	16	20		2500	mg/L	1	06/09/2025 15:18	R366397
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50	J	0.19	mg/L	10	06/04/2025 15:38	R366053
Chloride	NELAP	1.00	5.00		46.8	mg/L	10	06/04/2025 15:38	R366053
Sulfate	NELAP	0.99	10.0		1550	mg/L	10	06/04/2025 15:38	R366053
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0162	mg/L	1	06/09/2025 15:30	240079
Boron	NELAP	0.0090	0.0200		1.19	mg/L	1	06/09/2025 15:30	240079
Calcium	NELAP	0.0350	0.100		526	mg/L	1	06/09/2025 15:30	240079
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/06/2025 22:19	240079
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/06/2025 22:19	240079
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/06/2025 22:19	240079
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/06/2025 22:19	240079
Chromium	NELAP	0.0009	0.0015		< 0.0015	mg/L	5	06/06/2025 22:19	240079
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	06/06/2025 22:19	240079
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/06/2025 22:19	240079
Lithium	*	0.0015	0.0030		0.0077	mg/L	5	06/06/2025 22:19	240079
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	06/06/2025 22:19	240079
Selenium	NELAP	0.0006	0.0010		0.0038	mg/L	5	06/06/2025 22:19	240079
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	06/06/2025 22:19	240079
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	06/05/2025 11:18	240097
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	07/11/2025 15:01	R368581
Radium-228	*	0	0		See Attached	pci/L	1	07/11/2025 15:01	R368581



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

Lab ID: 25051210-003

Client Sample ID: EP-2

Matrix: GROUNDWATER

Collection Date: 06/03/2025 12:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		6.61	ft	1	06/03/2025 12:40	R366277
Elevation of groundwater surface	*	0	0		507.18	ft	1	06/03/2025 12:40	R366277
Measuring Point Elevation	*	0	0		513.79	ft	1	06/03/2025 12:40	R366277
FIELD PURGE VOLUME									
Purge Volume	*	0	0		2.60	gal	1	06/03/2025 12:40	R366277
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		2.8	NTU	1	06/03/2025 12:40	R366277
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		110	mV	1	06/03/2025 12:40	R366277
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2.7098	mS/cm	1	06/03/2025 12:40	R366277
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		65.7	°F	1	06/03/2025 12:40	R366277
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		2.31	mg/L	1	06/03/2025 12:40	R366277
SW-846 9040B FIELD									
pH	*	0	1.00		5.19		1	06/03/2025 12:40	R366277
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	16	20		2810	mg/L	1	06/09/2025 15:18	R366397
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50		2.40	mg/L	10	06/04/2025 16:29	R366053
Chloride	NELAP	1.00	5.00		53.7	mg/L	10	06/04/2025 16:29	R366053
Sulfate	NELAP	0.99	10.0		1930	mg/L	10	06/04/2025 16:29	R366053
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0149	mg/L	1	06/09/2025 15:31	240079
Boron	NELAP	0.0090	0.0200		0.632	mg/L	1	06/09/2025 15:31	240079
Calcium	NELAP	0.0350	0.100		372	mg/L	1	06/09/2025 15:31	240079
SW-846 3005A, 6020A, METALS BY ICNMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/06/2025 22:25	240079
Arsenic	NELAP	0.0004	0.0010		0.0017	mg/L	5	06/06/2025 22:25	240079
Beryllium	NELAP	0.0002	0.0010		0.0111	mg/L	5	06/06/2025 22:25	240079
Cadmium	NELAP	0.0002	0.0010	J	0.0003	mg/L	5	06/06/2025 22:25	240079
Chromium	NELAP	0.0009	0.0015	J	0.0013	mg/L	5	06/06/2025 22:25	240079
Cobalt	NELAP	0.0001	0.0010		0.293	mg/L	5	06/06/2025 22:25	240079
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/06/2025 22:25	240079
Lithium	*	0.0015	0.0030		0.0586	mg/L	5	06/06/2025 22:25	240079
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	06/06/2025 22:25	240079
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/06/2025 22:25	240079
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	06/06/2025 22:25	240079
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	06/05/2025 11:20	240097
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	07/11/2025 15:01	R368581
Radium-228	*	0	0		See Attached	pci/L	1	07/11/2025 15:01	R368581



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

Lab ID: 25051210-004

Client Sample ID: EP-3

Matrix: GROUNDWATER

Collection Date: 06/04/2025 11:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		16.08	ft	1	06/04/2025 11:55	R366277
Elevation of groundwater surface	*	0	0		502.87	ft	1	06/04/2025 11:55	R366277
Measuring Point Elevation	*	0	0		518.95	ft	1	06/04/2025 11:55	R366277
FIELD PURGE VOLUME									
Purge Volume	*	0	0		1.50	gal	1	06/04/2025 11:55	R366277
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		2.7	NTU	1	06/04/2025 11:55	R366277
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		46	mV	1	06/04/2025 11:55	R366277
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1.3748	mS/cm	1	06/04/2025 11:55	R366277
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		70.3	°F	1	06/04/2025 11:55	R366277
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.81	mg/L	1	06/04/2025 11:55	R366277
SW-846 9040B FIELD									
pH	*	0	1.00		6.05		1	06/04/2025 11:55	R366277
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	160	200		620	mg/L	10	06/09/2025 15:19	R366397
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50	J	0.16	mg/L	10	06/05/2025 12:12	R366198
Chloride	NELAP	1.00	5.00		132	mg/L	10	06/05/2025 12:12	R366198
Sulfate	NELAP	0.99	10.0		105	mg/L	10	06/05/2025 12:12	R366198
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0946	mg/L	1	06/06/2025 21:33	240141
Boron	NELAP	0.0090	0.0200		0.0587	mg/L	1	06/06/2025 21:33	240141
Calcium	NELAP	0.0350	0.100		35.5	mg/L	1	06/06/2025 21:33	240141
SW-846 3005A, 6020A, METALS BY ICNMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/07/2025 5:50	240141
Arsenic	NELAP	0.0004	0.0010		0.0070	mg/L	5	06/07/2025 5:50	240141
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/07/2025 5:50	240141
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/07/2025 5:50	240141
Chromium	NELAP	0.0007	0.0015	J	0.0010	mg/L	5	06/07/2025 5:50	240141
Cobalt	NELAP	0.0001	0.0010		0.0858	mg/L	5	06/07/2025 5:50	240141
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/07/2025 5:50	240141
Lithium	*	0.0015	0.0030		0.0225	mg/L	5	06/07/2025 5:50	240141
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	06/07/2025 5:50	240141
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/07/2025 5:50	240141
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	06/07/2025 5:50	240141
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	06/06/2025 14:50	240153
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	07/11/2025 15:01	R368581
Radium-228	*	0	0		See Attached	pci/L	1	07/11/2025 15:01	R368581



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

Lab ID: 25051210-005

Client Sample ID: EP-4

Matrix: GROUNDWATER

Collection Date: 06/04/2025 12:54

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		7.39	ft	1	06/04/2025 12:54	R366277
Elevation of groundwater surface	*	0	0		512.35	ft	1	06/04/2025 12:54	R366277
Measuring Point Elevation	*	0	0		519.74	ft	1	06/04/2025 12:54	R366277
FIELD PURGE VOLUME									
Purge Volume	*	0	0		1.80	gal	1	06/04/2025 12:54	R366277
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		2.9	NTU	1	06/04/2025 12:54	R366277
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		49	mV	1	06/04/2025 12:54	R366277
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2.3128	mS/cm	1	06/04/2025 12:54	R366277
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		71.0	°F	1	06/04/2025 12:54	R366277
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.17	mg/L	1	06/04/2025 12:54	R366277
SW-846 9040B FIELD									
pH	*	0	1.00		5.86		1	06/04/2025 12:54	R366277
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	160	200		1780	mg/L	10	06/09/2025 15:19	R366397
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50	J	0.12	mg/L	10	06/05/2025 12:25	R366198
Chloride	NELAP	1.00	5.00		514	mg/L	10	06/05/2025 12:25	R366198
Sulfate	NELAP	0.99	10.0		588	mg/L	10	06/05/2025 12:25	R366198
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0400	mg/L	1	06/06/2025 21:35	240141
Boron	NELAP	0.0090	0.0200	S	9.98	mg/L	1	06/06/2025 21:35	240141
Calcium	NELAP	0.0350	0.100	S	182	mg/L	1	06/06/2025 21:35	240141
<i>Matrix spike control limits for Ca and B are not applicable due to high sample/spike ratio.</i>									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/11/2025 10:17	240141
Arsenic	NELAP	0.0004	0.0010		0.0128	mg/L	5	06/11/2025 10:17	240141
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/07/2025 6:09	240141
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/11/2025 10:17	240141
Chromium	NELAP	0.0007	0.0015	J	0.0008	mg/L	5	06/07/2025 6:09	240141
Cobalt	NELAP	0.0001	0.0010		0.203	mg/L	5	06/07/2025 6:09	240141
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/07/2025 6:09	240141
Lithium	*	0.0015	0.0030	J	0.0023	mg/L	5	06/07/2025 6:09	240141
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	06/11/2025 10:17	240141
Selenium	NELAP	0.0006	0.0010	J	0.0008	mg/L	5	06/11/2025 10:17	240141
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	06/07/2025 6:09	240141
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	06/06/2025 14:57	240153
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	07/11/2025 15:01	R368581
Radium-228	*	0	0		See Attached	pci/L	1	07/11/2025 15:01	R368581



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

Lab ID: 25051210-006

Client Sample ID: EP-5

Matrix: GROUNDWATER

Collection Date: 06/02/2025 13:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		11.51	ft	1	06/02/2025 13:30	R366277
Elevation of groundwater surface	*	0	0		516.08	ft	1	06/02/2025 13:30	R366277
Measuring Point Elevation	*	0	0		527.59	ft	1	06/02/2025 13:30	R366277
FIELD PURGE VOLUME									
Purge Volume	*	0	0		1.10	gal	1	06/02/2025 13:30	R366277
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		0.8	NTU	1	06/02/2025 13:30	R366277
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		166	mV	1	06/02/2025 13:30	R366277
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		0.3921	mS/cm	1	06/02/2025 13:30	R366277
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		63.0	°F	1	06/02/2025 13:30	R366277
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		6.30	mg/L	1	06/02/2025 13:30	R366277
SW-846 9040B FIELD									
pH	*	0	1.00		6.44		1	06/02/2025 13:30	R366277
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	16	20	H	246	mg/L	1	06/09/2025 15:19	R366397
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50	J	0.45	mg/L	10	06/03/2025 12:59	R365915
Chloride	NELAP	1.0	5.0	J	3.1	mg/L	10	06/03/2025 12:59	R365915
Sulfate	NELAP	0.99	10.0		94.5	mg/L	10	06/03/2025 12:59	R365915
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0470	mg/L	1	06/05/2025 22:38	239971
Boron	NELAP	0.0090	0.0200		< 0.0200	mg/L	1	06/05/2025 22:38	239971
Calcium	NELAP	0.0350	0.100		14.4	mg/L	1	06/05/2025 22:38	239971
SW-846 3005A, 6020A, METALS BY ICNMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/04/2025 17:36	239971
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/04/2025 17:36	239971
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/04/2025 17:36	239971
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/04/2025 17:36	239971
Chromium	NELAP	0.0009	0.0015		0.0022	mg/L	5	06/04/2025 17:36	239971
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	06/04/2025 17:36	239971
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/04/2025 17:36	239971
Lithium	*	0.0015	0.0030		0.0030	mg/L	5	06/04/2025 17:36	239971
Molybdenum	NELAP	0.0006	0.0015	J	0.0009	mg/L	5	06/04/2025 17:36	239971
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/04/2025 17:36	239971
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	06/04/2025 17:36	239971
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	06/03/2025 15:14	240014
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	07/11/2025 15:01	R368581
Radium-228	*	0	0		See Attached	pci/L	1	07/11/2025 15:01	R368581



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

Lab ID: 25051210-007

Client Sample ID: EP-6

Matrix: GROUNDWATER

Collection Date: 06/04/2025 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		2.85	ft	1	06/04/2025 11:00	R366277
Elevation of groundwater surface	*	0	0		502.26	ft	1	06/04/2025 11:00	R366277
Measuring Point Elevation	*	0	0		505.11	ft	1	06/04/2025 11:00	R366277
FIELD PURGE VOLUME									
Purge Volume	*	0	0		1.20	gal	1	06/04/2025 11:00	R366277
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		2.3	NTU	1	06/04/2025 11:00	R366277
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		183	mV	1	06/04/2025 11:00	R366277
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		0.3131	mS/cm	1	06/04/2025 11:00	R366277
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		69.0	°F	1	06/04/2025 11:00	R366277
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.81	mg/L	1	06/04/2025 11:00	R366277
SW-846 9040B FIELD									
pH	*	0	1.00		4.87		1	06/04/2025 11:00	R366277
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	16	20		278	mg/L	1	06/09/2025 15:20	R366397
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50		ND	mg/L	10	06/05/2025 13:41	R366198
Chloride	NELAP	1.00	5.00		19.0	mg/L	10	06/05/2025 13:41	R366198
Sulfate	NELAP	0.99	10.0		76.1	mg/L	10	06/05/2025 13:41	R366198
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0360	mg/L	1	06/06/2025 21:40	240141
Boron	NELAP	0.0090	0.0200		< 0.0200	mg/L	1	06/06/2025 21:40	240141
Calcium	NELAP	0.0350	0.100		1.43	mg/L	1	06/06/2025 21:40	240141
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/07/2025 5:56	240141
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/07/2025 5:56	240141
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/07/2025 5:56	240141
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/07/2025 5:56	240141
Chromium	NELAP	0.0007	0.0015		0.0021	mg/L	5	06/07/2025 5:56	240141
Cobalt	NELAP	0.0001	0.0010	J	0.0004	mg/L	5	06/07/2025 5:56	240141
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/07/2025 5:56	240141
Lithium	*	0.0015	0.0030		0.0132	mg/L	5	06/07/2025 5:56	240141
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	06/07/2025 5:56	240141
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/07/2025 5:56	240141
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	06/07/2025 5:56	240141
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	06/06/2025 14:59	240153
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	07/11/2025 15:01	R368581
Radium-228	*	0	0		See Attached	pci/L	1	07/11/2025 15:01	R368581



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

Lab ID: 25051210-008

Client Sample ID: EP-7

Matrix: GROUNDWATER

Collection Date: 06/03/2025 14:23

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		13.85	ft	1	06/03/2025 14:23	R366277
Elevation of groundwater surface	*	0	0		501.59	ft	1	06/03/2025 14:23	R366277
Measuring Point Elevation	*	0	0		515.44	ft	1	06/03/2025 14:23	R366277
FIELD PURGE VOLUME									
Purge Volume	*	0	0		3.70	gal	1	06/03/2025 14:23	R366277
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		4.0	NTU	1	06/03/2025 14:23	R366277
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		55	mV	1	06/03/2025 14:23	R366277
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1.7227	mS/cm	1	06/03/2025 14:23	R366277
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		67.0	°F	1	06/03/2025 14:23	R366277
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.59	mg/L	1	06/03/2025 14:23	R366277
SW-846 9040B FIELD									
pH	*	0	1.00		5.84		1	06/03/2025 14:23	R366277
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	40	50		1280	mg/L	2.5	06/09/2025 15:18	R366397
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50	J	0.20	mg/L	10	06/04/2025 16:41	R366053
Chloride	NELAP	1.00	5.00		299	mg/L	10	06/04/2025 16:41	R366053
Sulfate	NELAP	0.99	10.0		371	mg/L	10	06/04/2025 16:41	R366053
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0383	mg/L	1	06/09/2025 15:31	240079
Boron	NELAP	0.0090	0.0200		0.694	mg/L	1	06/09/2025 15:31	240079
Calcium	NELAP	0.0350	0.100	S	118	mg/L	1	06/09/2025 15:31	240079
<i>Matrix spike control limits are not applicable due to high sample/spike ratio.</i>									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/06/2025 22:43	240079
Arsenic	NELAP	0.0004	0.0010		0.0077	mg/L	5	06/06/2025 22:43	240079
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/06/2025 22:43	240079
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/06/2025 22:43	240079
Chromium	NELAP	0.0009	0.0015		0.0018	mg/L	5	06/06/2025 22:43	240079
Cobalt	NELAP	0.0001	0.0010		0.150	mg/L	5	06/06/2025 22:43	240079
Lead	NELAP	0.0006	0.0010	J	0.0006	mg/L	5	06/06/2025 22:43	240079
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	06/06/2025 22:43	240079
Molybdenum	NELAP	0.0006	0.0015	J	0.0008	mg/L	5	06/06/2025 22:43	240079
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/06/2025 22:43	240079
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	06/06/2025 22:43	240079
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	06/05/2025 11:27	240097
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	07/14/2025 8:40	R368581
Radium-228	*	0	0		See Attached	pci/L	1	07/14/2025 8:40	R368581



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

Lab ID: 25051210-009

Client Sample ID: Equipment Blank

Matrix: AQUEOUS

Collection Date: 06/04/2025 13:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	16	20		< 20	mg/L	1	06/09/2025 15:20	R366397
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50		ND	mg/L	10	06/05/2025 13:53	R366198
Chloride	NELAP	1.00	5.00		ND	mg/L	10	06/05/2025 13:53	R366198
Sulfate	NELAP	0.99	10.0		ND	mg/L	10	06/05/2025 13:53	R366198
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025	J	0.0007	mg/L	1	06/06/2025 21:42	240141
Boron	NELAP	0.0090	0.020	J	0.012	mg/L	1	06/06/2025 21:42	240141
Calcium	NELAP	0.035	0.10	J	0.035	mg/L	1	06/06/2025 21:42	240141
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/07/2025 7:40	240141
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/07/2025 7:40	240141
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/07/2025 7:40	240141
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/07/2025 7:40	240141
Chromium	NELAP	0.0007	0.0015	J	0.0011	mg/L	5	06/07/2025 7:40	240141
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	06/07/2025 7:40	240141
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/07/2025 7:40	240141
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	06/07/2025 7:40	240141
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	06/07/2025 7:40	240141
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/07/2025 7:40	240141
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	06/07/2025 7:40	240141
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	06/06/2025 15:06	240153
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	07/11/2025 15:01	R368581
Radium-228	*	0	0		See Attached	pci/L	1	07/11/2025 15:01	R368581



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

Lab ID: 25051210-010

Client Sample ID: Field Blank

Matrix: AQUEOUS

Collection Date: 06/04/2025 13:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	16	20		28	mg/L	1	06/09/2025 15:20	R366397
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50		ND	mg/L	10	06/05/2025 14:06	R366198
Chloride	NELAP	1.00	5.00		ND	mg/L	10	06/05/2025 14:06	R366198
Sulfate	NELAP	0.99	10.0		ND	mg/L	10	06/05/2025 14:06	R366198
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025	J	0.0007	mg/L	1	06/06/2025 21:54	240141
Boron	NELAP	0.0090	0.0200		< 0.0200	mg/L	1	06/06/2025 21:54	240141
Calcium	NELAP	0.0350	0.100		< 0.100	mg/L	1	06/06/2025 21:54	240141
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/07/2025 6:02	240141
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/07/2025 6:02	240141
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/07/2025 6:02	240141
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/07/2025 6:02	240141
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	06/07/2025 6:02	240141
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	06/07/2025 6:02	240141
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/07/2025 6:02	240141
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	06/07/2025 6:02	240141
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	06/07/2025 6:02	240141
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/07/2025 6:02	240141
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	06/07/2025 6:02	240141
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	06/06/2025 15:09	240153
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	07/14/2025 8:40	R368581
Radium-228	*	0	0		See Attached	pci/L	1	07/14/2025 8:40	R368581



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

Lab ID: 25051210-011

Client Sample ID: Field Duplicate

Matrix: GROUNDWATER

Collection Date: 06/04/2025 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		2.85	ft	1	06/04/2025 11:00	R366277
Elevation of groundwater surface	*	0	0		502.26	ft	1	06/04/2025 11:00	R366277
Measuring Point Elevation	*	0	0		505.11	ft	1	06/04/2025 11:00	R366277
FIELD PURGE VOLUME									
Purge Volume	*	0	0		1.20	gal	1	06/04/2025 11:00	R366277
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		2.3	NTU	1	06/04/2025 11:00	R366277
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		183	mV	1	06/04/2025 11:00	R366277
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		0.3131	mS/cm	1	06/04/2025 11:00	R366277
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		69.0	°F	1	06/04/2025 11:00	R366277
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.81	mg/L	1	06/04/2025 11:00	R366277
SW-846 9040B FIELD									
pH	*	0	1.00		4.87		1	06/04/2025 11:00	R366277
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	16	20		282	mg/L	1	06/09/2025 15:20	R366397
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50	J	0.05	mg/L	10	06/05/2025 14:19	R366198
Chloride	NELAP	1.00	5.00		19.0	mg/L	10	06/05/2025 14:19	R366198
Sulfate	NELAP	0.99	10.0		76.4	mg/L	10	06/05/2025 14:19	R366198
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0378	mg/L	1	06/06/2025 21:55	240141
Boron	NELAP	0.0090	0.0200		< 0.0200	mg/L	1	06/06/2025 21:55	240141
Calcium	NELAP	0.0350	0.100		1.52	mg/L	1	06/06/2025 21:55	240141
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/07/2025 7:22	240141
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/07/2025 7:22	240141
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/07/2025 7:22	240141
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/07/2025 7:22	240141
Chromium	NELAP	0.0007	0.0015		0.0022	mg/L	5	06/07/2025 7:22	240141
Cobalt	NELAP	0.0001	0.0010	J	0.0004	mg/L	5	06/07/2025 7:22	240141
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/07/2025 7:22	240141
Lithium	*	0.0015	0.0030		0.0138	mg/L	5	06/07/2025 7:22	240141
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	06/07/2025 7:22	240141
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/07/2025 7:22	240141
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	06/07/2025 7:22	240141
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	06/06/2025 15:11	240153
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	07/11/2025 15:01	R368581
Radium-228	*	0	0		See Attached	pci/L	1	07/11/2025 15:01	R368581



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Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

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STANDARD METHODS 2510 B FIELD

Batch R366277		SampType: LCS		Units mS/cm							
SampID: LCS-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1.405	1.412	0	99.5	90	110	06/02/2025	

Batch R366277		SampType: LCS		Units mS/cm							
SampID: LCS-2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1.404	1.412	0	99.4	90	110	06/03/2025	

Batch R366277		SampType: LCS		Units mS/cm							
SampID: LCS-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1.408	1.412	0	99.7	90	110	06/04/2025	

SW-846 9040B FIELD

Batch R366277		SampType: LCS		Units							
SampID: LCS-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.05	7.000	0	100.7	98.57	101.4	06/02/2025	

Batch R366277		SampType: LCS		Units							
SampID: LCS-2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.06	7.000	0	100.9	98.57	101.4	06/03/2025	

Batch R366277		SampType: LCS		Units							
SampID: LCS-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.07	7.000	0	101.0	98.57	101.4	06/04/2025	



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Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

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STANDARD METHODS 2540 C (TOTAL) 2020

Batch R366397		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	06/09/2025
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	06/10/2025
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	06/09/2025
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	06/09/2025
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	06/09/2025

Batch R366397		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		226	250.0	0	90.4	90	110	06/09/2025
Total Dissolved Solids		20		240	250.0	0	96.0	90	110	06/09/2025
Total Dissolved Solids		20		252	250.0	0	100.8	90	110	06/10/2025
Total Dissolved Solids		20		262	250.0	0	104.8	90	110	06/09/2025
Total Dissolved Solids		20		258	250.0	0	103.2	90	110	06/09/2025

Batch R366397		SampType: DUP		Units mg/L							RPD Limit: 10
SampID: 25050295-006BDUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		20		350				348.0	0.57	06/09/2025	

Batch R366397		SampType: DUP		Units mg/L							RPD Limit: 10
SampID: 25060129-001ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		200	H	34600				33520	3.17	06/09/2025	

Batch R366397		SampType: DUP		Units mg/L							RPD Limit: 10
SampID: 25060155-002ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		25	H	3260				3320	1.67	06/09/2025	

Batch R366397		SampType: DUP		Units mg/L							RPD Limit: 10
SampID: 25060159-002ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		20	H	1780				1786	0.11	06/09/2025	



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STANDARD METHODS 2540 C (TOTAL) 2020

Batch R366397		SampType: DUP		Units mg/L				RPD Limit: 10		
SampID: 25060609-001ADUP										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		2120				2066	2.77	06/09/2025

Batch R366397		SampType: DUP		Units mg/L				RPD Limit: 10		
SampID: 25060662-001ADUP										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		40		2860				2908	1.80	06/09/2025

Batch R366397		SampType: DUP		Units mg/L				RPD Limit: 10		
SampID: 25060662-002ADUP										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		40		2840				2824	0.71	06/09/2025

Batch R366397		SampType: DUP		Units mg/L				RPD Limit: 10		
SampID: 25060662-007ADUP										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		100		4010				4150	3.43	06/09/2025

Batch R366397		SampType: DUP		Units mg/L				RPD Limit: 10		
SampID: 25060662-014ADUP										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		1480				1498	1.07	06/10/2025

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R365915		SampType: MBLK		Units mg/L				RPD Limit: 10		
SampID: MBLK/ICB										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		ND	0.0040	0	0	0	100	06/03/2025
Chloride		0.50		ND	0.1000	0	0	0	100	06/03/2025
Sulfate		1.00		ND	0.0990	0	0	0	100	06/03/2025

Batch R365915		SampType: MBLK		Units mg/L				RPD Limit: 10		
SampID: MBLK-239979										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride	*	0.05		ND						06/03/2025
Chloride	*	0.50		ND						06/03/2025
Sulfate	*	1.00		ND						06/03/2025



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SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R365915		SampType: MBLK		Units mg/L						
SampID: MB-R365915										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		ND						06/03/2025
Chloride		0.50		ND						06/03/2025
Sulfate		1.00		ND						06/03/2025

Batch R365915		SampType: LCS		Units mg/L						
SampID: LCS/ICV/QCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		0.95	1.000	0	94.8	90	110	06/03/2025
Chloride		0.50		19.9	20.00	0	99.3	90	110	06/03/2025
Sulfate		1.00		18.6	20.00	0	92.8	90	110	06/03/2025

Batch R365915		SampType: LCS		Units mg/L						
SampID: LCS-R365915										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		0.95	1.000	0	94.8	90	110	06/03/2025
Chloride		0.50		19.9	20.00	0	99.3	90	110	06/03/2025
Sulfate		1.00		18.6	20.00	0	92.8	90	110	06/03/2025

Batch R365915		SampType: MS		Units mg/L						
SampID: 25050218-008AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.86	10.00	0.1290	97.3	80	120	06/03/2025
Chloride		5.00		329	200.0	104.9	111.9	80	120	06/03/2025
Sulfate		10.0		1100	200.0	895.7	103.4	80	120	06/03/2025

Batch R365915		SampType: MSD		Units mg/L						
SampID: 25050218-008AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		9.72	10.00	0.1290	95.9	9.856	1.42	06/03/2025
Chloride		5.00		328	200.0	104.9	111.7	328.8	0.15	06/03/2025
Sulfate		10.0		1100	200.0	895.7	103.5	1102	0.02	06/03/2025



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SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R365915		SampType: MS		Units mg/L						
SampID: 25050295-004BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.1	10.00	0.3320	97.3	80	120	06/03/2025
Chloride		5.00		225	200.0	16.36	104.3	80	120	06/03/2025
Sulfate		10.0		209	200.0	22.94	93.2	80	120	06/03/2025

Batch R365915		SampType: MSD		Units mg/L						
SampID: 25050295-004BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		10.1	10.00	0.3320	97.3	10.06	0.02	06/03/2025
Chloride		5.00		225	200.0	16.36	104.2	224.9	0.00	06/03/2025
Sulfate		10.0		209	200.0	22.94	93.2	209.4	0.07	06/03/2025

Batch R365915		SampType: MS		Units mg/L						
SampID: 25060127-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		12.1	10.00	2.063	100.2	80	120	06/03/2025

Batch R365915		SampType: MSD		Units mg/L						
SampID: 25060127-001BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		12.0	10.00	2.063	99.1	12.08	0.90	06/03/2025

Batch R366053		SampType: MBLK		Units mg/L						
SampID: MBLK/ICB										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		ND	0.0040	0	0	0	100	06/04/2025
Chloride		0.50		ND	0.1000	0	0	0	100	06/04/2025
Sulfate		1.00		ND	0.0990	0	0	0	100	06/04/2025

Batch R366053		SampType: LCS		Units mg/L						
SampID: LCS/ICV/QCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		0.97	1.000	0	97.1	90	110	06/04/2025
Chloride		0.50		20.3	20.00	0	101.7	90	110	06/04/2025
Sulfate		1.00		18.7	20.00	0	93.4	90	110	06/04/2025



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SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R366053		SampType: MS		Units mg/L						
SampID: 25050218-002AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.96	10.00	0.1630	98.0	80	120	06/04/2025
Chloride		5.00		444	200.0	221.0	111.7	80	120	06/04/2025
Sulfate		10.0		205	200.0	14.95	94.9	80	120	06/04/2025

Batch R366053		SampType: MSD		Units mg/L						
SampID: 25050218-002AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		9.68	10.00	0.1630	95.2	9.958	2.83	06/04/2025
Chloride		5.00		439	200.0	221.0	108.9	444.5	1.29	06/04/2025
Sulfate		10.0		198	200.0	14.95	91.7	204.8	3.23	06/04/2025

Batch R366053		SampType: MS		Units mg/L						
SampID: 25050218-003AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.64	10.00	0.1630	94.8	80	120	06/04/2025
Sulfate		10.0		198	200.0	12.71	92.5	80	120	06/04/2025

Batch R366053		SampType: MSD		Units mg/L						
SampID: 25050218-003AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		9.66	10.00	0.1630	95.0	9.643	0.23	06/04/2025
Sulfate		10.0		197	200.0	12.71	92.3	197.6	0.14	06/04/2025

Batch R366053		SampType: MS		Units mg/L						
SampID: 25060127-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		5.00		673	200.0	445.0	114.0	80	120	06/04/2025
Sulfate		10.0		1500	200.0	1283	109.4	80	120	06/04/2025

Batch R366053		SampType: MSD		Units mg/L						
SampID: 25060127-001BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		5.00		673	200.0	445.0	114.1	672.9	0.03	06/04/2025
Sulfate		10.0		1500	200.0	1283	108.8	1501	0.08	06/04/2025



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SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R366198		SampType: MBLK		Units mg/L						
SampID: MBLK/ICB										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		ND	0.0040	0	0	0	100	06/05/2025
Chloride		0.50		ND	0.1000	0	0	0	100	06/05/2025
Sulfate		1.00		ND	0.0990	0	0	0	100	06/05/2025

Batch R366198		SampType: LCS		Units mg/L						
SampID: LCS/ICV/QCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		0.98	1.000	0	97.5	90	110	06/05/2025
Chloride		0.50		20.3	20.00	0	101.3	90	110	06/05/2025
Sulfate		1.00		18.7	20.00	0	93.5	90	110	06/05/2025

Batch R366198		SampType: MS		Units mg/L						
SampID: 25050217-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.2	10.00	0.2680	99.0	80	120	06/05/2025
Chloride		5.00		220	200.0	11.43	104.3	80	120	06/05/2025
Sulfate		10.0		218	200.0	27.76	95.0	80	120	06/05/2025

Batch R366198		SampType: MSD		Units mg/L						
SampID: 25050217-001BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		10.1	10.00	0.2680	98.5	10.17	0.45	06/05/2025
Chloride		5.00		219	200.0	11.43	103.7	220.1	0.52	06/05/2025
Sulfate		10.0		216	200.0	27.76	94.4	217.7	0.55	06/05/2025

Batch R366198		SampType: MS		Units mg/L						
SampID: 25051210-005AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.97	10.00	0.1250	98.5	80	120	06/05/2025
Chloride		5.00		726	200.0	513.7	106.4	80	120	06/05/2025
Sulfate		10.0		791	200.0	588.0	101.7	80	120	06/05/2025



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Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R366198		SampType: MSD		Units mg/L				RPD Limit: 15			Date Analyzed
SampID: 25051210-005AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.50		9.96	10.00	0.1250	98.3	9.972	0.13	06/05/2025	
Chloride		5.00		730	200.0	513.7	108.4	726.4	0.56	06/05/2025	
Sulfate		10.0		794	200.0	588.0	102.9	791.3	0.31	06/05/2025	

Batch R366198		SampType: MS		Units mg/L				RPD Limit: 15		Date Analyzed
SampID: 25060051-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		5.00		101	100.0	0	100.8	80	120	06/06/2025
Chloride		50.0		2400	2000	245.0	107.5	80	120	06/06/2025
Sulfate		100		3870	2000	1925	97.4	80	120	06/06/2025

Batch R366198		SampType: MSD		Units mg/L				RPD Limit: 15			Date Analyzed
SampID: 25060051-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		5.00		101	100.0	0	100.9	100.8	0.01	06/06/2025	
Chloride		50.0		2400	2000	245.0	107.8	2395	0.21	06/06/2025	
Sulfate		100		3860	2000	1925	96.9	3873	0.24	06/06/2025	

Batch R366198		SampType: MS		Units mg/L				RPD Limit: 15		Date Analyzed
SampID: 25060196-002AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.2	10.00	0.6390	95.2	80	120	06/05/2025
Chloride		5.00		418	200.0	200.0	109.0	80	120	06/05/2025
Sulfate		10.0		226	200.0	41.25	92.5	80	120	06/05/2025

Batch R366198		SampType: MSD		Units mg/L				RPD Limit: 15			Date Analyzed
SampID: 25060196-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.50		10.4	10.00	0.6390	97.8	10.16	2.53	06/05/2025	
Chloride		5.00		424	200.0	200.0	112.2	418.0	1.50	06/05/2025	
Sulfate		10.0		231	200.0	41.25	95.1	226.2	2.29	06/05/2025	



Quality Control Results

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Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R366198		SampType: MS		Units mg/L						
SampID: 25060267-002AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.7	10.00	0.6330	100.4	80	120	06/06/2025
Chloride		5.00		403	200.0	172.4	115.3	80	120	06/06/2025
Sulfate		10.0		252	200.0	58.57	96.8	80	120	06/06/2025

Batch R366198		SampType: MSD		Units mg/L						
SampID: 25060267-002AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		10.6	10.00	0.6330	99.8	10.68	0.58	06/06/2025
Chloride		5.00		408	200.0	172.4	118.0	403.1	1.30	06/06/2025
Sulfate		10.0		253	200.0	58.57	97.4	252.2	0.45	06/06/2025

Batch R366198		SampType: MS		Units mg/L						
SampID: 25060424-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.3	10.00	0.3750	99.0	80	120	06/05/2025
Chloride		5.00		354	200.0	126.2	114.1	80	120	06/05/2025
Sulfate		10.0		250	200.0	57.63	95.9	80	120	06/05/2025

Batch R366198		SampType: MSD		Units mg/L						
SampID: 25060424-001AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		10.3	10.00	0.3750	99.2	10.27	0.18	06/05/2025
Chloride		5.00		355	200.0	126.2	114.3	354.3	0.16	06/05/2025
Sulfate		10.0		251	200.0	57.63	96.5	249.5	0.45	06/05/2025

Batch R366198		SampType: MS		Units mg/L						
SampID: 25060436-003AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		11.1	10.00	1.221	99.0	80	120	06/05/2025
Chloride		5.00		275	200.0	54.38	110.2	80	120	06/05/2025
Sulfate		10.0		1190	200.0	971.8	106.7	80	120	06/05/2025



Quality Control Results

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Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R366198		SampType: MSD		Units mg/L				RPD Limit: 15			Date Analyzed
SampID: 25060436-003AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.50		11.2	10.00	1.221	99.5	11.12	0.41	06/05/2025	
Chloride		5.00		277	200.0	54.38	111.3	274.7	0.85	06/05/2025	
Sulfate		10.0		1200	200.0	971.8	111.8	1185	0.86	06/05/2025	

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 239971		SampType: MBLK		Units mg/L						Date Analyzed
SampID: MBLK-239971										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	06/05/2025
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	06/05/2025
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	06/05/2025

Batch 239971		SampType: LCS		Units mg/L						Date Analyzed
SampID: LCS-239971										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		4.17	4.000	0	104.2	85	115	06/05/2025
Boron		0.0200		0.990	1.000	0	99.0	85	115	06/05/2025
Calcium		0.100		5.10	5.000	0	102.0	85	115	06/05/2025

Batch 239971		SampType: MS		Units mg/L						Date Analyzed
SampID: 25050295-014CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		4.15	4.000	0.1628	99.7	75	125	06/05/2025
Boron		0.0200		1.22	1.000	0.2543	96.6	75	125	06/05/2025

Batch 239971		SampType: MSD		Units mg/L				RPD Limit: 20			Date Analyzed
SampID: 25050295-014CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Barium		0.0025		4.19	4.000	0.1628	100.7	4.150	0.96	06/05/2025	
Boron		0.0200		1.23	1.000	0.2543	97.4	1.220	0.69	06/05/2025	

Batch 239971		SampType: MS		Units mg/L						Date Analyzed
SampID: 25060105-005BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		4.58	4.000	0.5230	101.4	75	125	06/05/2025



Quality Control Results

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Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 239971		SampType: MSD		Units mg/L			RPD Limit: 20			
SampID: 25060105-005BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0025		4.46	4.000	0.5230	98.4	4.580	2.65	06/05/2025

Batch 240079		SampType: MBLK		Units mg/L						
SampID: MBLK-240079										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	06/10/2025
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	06/09/2025
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	06/10/2025
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	06/09/2025
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	06/09/2025
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	06/10/2025

Batch 240079		SampType: LCS		Units mg/L						
SampID: LCS-240079										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		4.27	4.000	0	106.8	85	115	06/10/2025
Barium		0.0025		4.28	4.000	0	107.0	85	115	06/09/2025
Boron		0.0200		1.04	1.000	0	104.3	85	115	06/10/2025
Boron		0.0200		1.05	1.000	0	104.7	85	115	06/09/2025
Calcium		0.100		5.29	5.000	0	105.8	85	115	06/10/2025
Calcium		0.100		4.99	5.000	0	99.8	85	115	06/09/2025

Batch 240079		SampType: MS		Units mg/L						
SampID: 25051210-008CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		4.23	4.000	0.03830	104.8	75	125	06/09/2025
Boron		0.0200		1.71	1.000	0.6938	102.1	75	125	06/09/2025
Calcium		0.100	S	118	5.000	118.1	-1.4	75	125	06/09/2025

Batch 240079		SampType: MSD		Units mg/L			RPD Limit: 20			
SampID: 25051210-008CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0025		4.36	4.000	0.03830	108.0	4.230	3.03	06/09/2025
Boron		0.0200		1.77	1.000	0.6938	107.9	1.715	3.33	06/09/2025
Calcium		0.100	S	121	5.000	118.1	64.6	118.0	2.76	06/09/2025



Quality Control Results

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Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 240079		SampType: MS		Units mg/L							Date Analyzed
SampID: 25060258-007AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		4.29	4.000	0.07080	105.5	75	125	06/09/2025	

Batch 240079		SampType: MSD		Units mg/L							RPD Limit: 20	Date Analyzed
SampID: 25060258-007AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Barium		0.0025		4.29	4.000	0.07080	105.5	4.290	0.00	06/09/2025		

Batch 240141		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-240141											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	06/06/2025	
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	06/06/2025	
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	06/06/2025	

Batch 240141		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-240141											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		4.14	4.000	0	103.5	85	115	06/06/2025	
Boron		0.0200		1.03	1.000	0	102.8	85	115	06/06/2025	
Calcium		0.100		5.36	5.000	0	107.2	85	115	06/06/2025	

Batch 240141		SampType: MS		Units mg/L							Date Analyzed
SampID: 25051210-005CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		4.11	4.000	0.04000	101.8	75	125	06/06/2025	
Boron		0.0200		10.8	1.000	9.979	78.4	75	125	06/06/2025	
Calcium		0.100	S	181	5.000	181.9	-9.8	75	125	06/06/2025	

Batch 240141		SampType: MSD		Units mg/L							RPD Limit: 20	Date Analyzed
SampID: 25051210-005CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Barium		0.0025		3.95	4.000	0.04000	97.8	4.110	3.97	06/06/2025		
Boron		0.0200	S	10.4	1.000	9.979	44.7	10.76	3.18	06/06/2025		
Calcium		0.100	S	176	5.000	181.9	-114.8	181.4	2.94	06/06/2025		



Quality Control Results

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Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 240141		SampType: MS		Units mg/L						
SampID: 25051210-009CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		4.00	4.000	0.0007000	100.0	75	125	06/06/2025
Boron		0.0200		1.01	1.000	0.01200	99.5	75	125	06/06/2025
Calcium		0.100		5.17	5.000	0.03520	102.7	75	125	06/06/2025

Batch 240141		SampType: MSD		Units mg/L						
SampID: 25051210-009CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0025		3.96	4.000	0.0007000	99.0	4.000	1.01	06/06/2025
Boron		0.0200		0.998	1.000	0.01200	98.6	1.007	0.91	06/06/2025
Calcium		0.100		5.13	5.000	0.03520	101.9	5.170	0.78	06/06/2025

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 239971		SampType: MBLK		Units mg/L						
SampID: MBLK-239971										
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	06/04/2025
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	06/04/2025
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	06/04/2025
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	06/04/2025
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	06/04/2025
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	06/04/2025
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	06/04/2025
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	06/04/2025
Molybdenum		0.0015		< 0.0015	0.0006	0	0	-100	100	06/04/2025
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	06/04/2025
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	06/04/2025



Quality Control Results

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Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 239971 **SampType:** LCS **Units** mg/L
SampID: LCS-239971

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		1.04	1.000	0	103.8	80	120	06/04/2025
Arsenic		0.0010		0.966	1.000	0	96.6	80	120	06/04/2025
Beryllium		0.0010		0.0935	0.1000	0	93.5	80	120	06/04/2025
Cadmium		0.0010		0.105	0.1000	0	105.0	80	120	06/04/2025
Chromium		0.0015		0.392	0.4000	0	97.9	80	120	06/04/2025
Cobalt		0.0010		0.899	1.000	0	89.9	80	120	06/04/2025
Lead		0.0010		0.945	1.000	0	94.5	80	120	06/04/2025
Lithium	*	0.0030		0.927	1.000	0	92.7	80	120	06/04/2025
Molybdenum		0.0015		0.969	1.000	0	96.9	80	120	06/04/2025
Selenium		0.0010		1.09	1.000	0	109.1	80	120	06/04/2025
Thallium		0.0020		0.481	0.5000	0	96.2	80	120	06/04/2025

Batch 239971 **SampType:** MS **Units** mg/L
SampID: 25050295-014CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		1.03	1.000	0.0005082	102.5	75	125	06/04/2025
Arsenic		0.0010		0.956	1.000	0.001552	95.4	75	125	06/04/2025
Lead		0.0010		0.941	1.000	0.0006620	94.0	75	125	06/04/2025
Thallium		0.0020		0.462	0.5000	0	92.3	75	125	06/04/2025

Batch 239971 **SampType:** MSD **Units** mg/L
SampID: 25050295-014CMSD

RPD Limit: 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		1.02	1.000	0.0005082	101.6	1.026	0.90	06/04/2025
Arsenic		0.0010		0.961	1.000	0.001552	95.9	0.9559	0.49	06/04/2025
Lead		0.0010		0.944	1.000	0.0006620	94.4	0.9407	0.39	06/04/2025
Thallium		0.0020		0.452	0.5000	0	90.5	0.4617	2.06	06/04/2025



Quality Control Results

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Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 240079 **SampType:** MBLK **Units** mg/L
SampID: MBLK-240079

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	06/06/2025
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	06/06/2025
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	06/06/2025
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	06/06/2025
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	06/06/2025
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	06/06/2025
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	06/06/2025
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	06/06/2025
Molybdenum		0.0015		< 0.0015	0.0006	0	0	-100	100	06/06/2025
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	06/06/2025
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	06/06/2025

Batch 240079 **SampType:** LCS **Units** mg/L
SampID: LCS-240079

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		1.11	1.000	0	110.8	85	115	06/06/2025
Arsenic		0.0010		0.972	1.000	0	97.2	85	115	06/06/2025
Beryllium		0.0010		0.0976	0.1000	0	97.6	85	115	06/06/2025
Cadmium		0.0010		0.108	0.1000	0	107.7	85	115	06/06/2025
Chromium		0.0015		0.397	0.4000	0	99.1	85	115	06/06/2025
Cobalt		0.0010		0.968	1.000	0	96.8	85	115	06/06/2025
Lead		0.0010	E	0.956	1.000	0	95.6	85	115	06/06/2025
Lithium	*	0.0030		0.974	1.000	0	97.4	85	115	06/06/2025
Molybdenum		0.0015		1.07	1.000	0	106.6	85	115	06/06/2025
Selenium		0.0010		0.965	1.000	0	96.5	85	115	06/06/2025
Thallium		0.0020		0.479	0.5000	0	95.7	85	115	06/06/2025



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 240079 **SampType: MS** Units mg/L

SampID: 25051210-008CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		1.14	1.000	0	113.5	75	125	06/06/2025
Arsenic		0.0010		0.949	1.000	0.007736	94.1	75	125	06/06/2025
Beryllium		0.0010		0.0961	0.1000	0	96.1	75	125	06/06/2025
Cadmium		0.0010		0.106	0.1000	0	105.6	75	125	06/06/2025
Chromium		0.0015		0.391	0.4000	0.001812	97.3	75	125	06/06/2025
Cobalt		0.0010		1.06	1.000	0.1496	90.7	75	125	06/06/2025
Lead		0.0010		0.974	1.000	0.0006041	97.3	75	125	06/06/2025
Lithium	*	0.0030		0.946	1.000	0	94.6	75	125	06/06/2025
Molybdenum		0.0015		1.02	1.000	0.0008074	102.2	75	125	06/06/2025
Selenium		0.0010		0.916	1.000	0	91.6	75	125	06/06/2025
Thallium		0.0020		0.485	0.5000	0	97.0	75	125	06/06/2025

Batch 240079 **SampType: MSD** Units mg/L

RPD Limit: **20**

SampID: 25051210-008CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		1.16	1.000	0	115.8	1.135	1.98	06/06/2025
Arsenic		0.0010		0.984	1.000	0.007736	97.7	0.9490	3.67	06/06/2025
Beryllium		0.0010		0.0988	0.1000	0	98.8	0.09610	2.80	06/06/2025
Cadmium		0.0010		0.108	0.1000	0	108.2	0.1056	2.46	06/06/2025
Chromium		0.0015		0.406	0.4000	0.001812	100.9	0.3909	3.69	06/06/2025
Cobalt		0.0010		1.11	1.000	0.1496	95.7	1.057	4.54	06/06/2025
Lead		0.0010		0.987	1.000	0.0006041	98.7	0.9737	1.40	06/06/2025
Lithium	*	0.0030		0.972	1.000	0	97.2	0.9457	2.72	06/06/2025
Molybdenum		0.0015		1.04	1.000	0.0008074	103.9	1.023	1.64	06/06/2025
Selenium		0.0010		0.945	1.000	0	94.5	0.9161	3.10	06/06/2025
Thallium		0.0020		0.493	0.5000	0	98.6	0.4850	1.63	06/06/2025



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 240141 **SampType:** MBLK **Units** mg/L
SampID: MBLK-240141

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	06/07/2025
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	06/07/2025
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	06/07/2025
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	06/07/2025
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	06/07/2025
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	06/07/2025
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	06/07/2025
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	06/07/2025
Molybdenum		0.0015		< 0.0015	0.0006	0	0	-100	100	06/07/2025
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	06/07/2025
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	06/07/2025

Batch 240141 **SampType:** LCS **Units** mg/L
SampID: LCS-240141

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		1.09	1.000	0	109.1	80	120	06/07/2025
Arsenic		0.0010		0.956	1.000	0	95.6	80	120	06/07/2025
Beryllium		0.0010		0.0956	0.1000	0	95.6	80	120	06/07/2025
Cadmium		0.0010		0.106	0.1000	0	106.3	80	120	06/07/2025
Chromium		0.0015		0.384	0.4000	0	96.1	80	120	06/07/2025
Cobalt		0.0010		0.932	1.000	0	93.2	80	120	06/07/2025
Lead		0.0010		0.958	1.000	0	95.8	80	120	06/07/2025
Lithium	*	0.0030		0.957	1.000	0	95.7	80	120	06/07/2025
Molybdenum		0.0015		1.00	1.000	0	100.0	80	120	06/07/2025
Selenium		0.0010		0.946	1.000	0	94.6	80	120	06/07/2025
Thallium		0.0020		0.473	0.5000	0	94.6	80	120	06/07/2025



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 240141 **SampType:** MS **Units** mg/L
 SampID: 25051210-005CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		1.06	1.000	0	105.9	75	125	06/11/2025
Arsenic		0.0010		0.978	1.000	0.01278	96.5	75	125	06/11/2025
Beryllium		0.0010		0.0912	0.1000	0	91.2	75	125	06/07/2025
Cadmium		0.0010		0.105	0.1000	0	105.1	75	125	06/11/2025
Chromium		0.0015		0.373	0.4000	0.0008088	93.0	75	125	06/07/2025
Cobalt		0.0010		1.10	1.000	0.2029	89.8	75	125	06/07/2025
Lead		0.0010		0.954	1.000	0	95.4	75	125	06/07/2025
Lithium	*	0.0030		0.922	1.000	0.002294	92.0	75	125	06/07/2025
Molybdenum		0.0015		1.03	1.000	0	102.7	75	125	06/11/2025
Selenium		0.0010		0.975	1.000	0.0008085	97.4	75	125	06/11/2025
Thallium		0.0020		0.478	0.5000	0	95.7	75	125	06/07/2025

Batch 240141 **SampType:** MSD **Units** mg/L
 SampID: 25051210-005CMSD

RPD Limit: 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		1.04	1.000	0	103.8	1.059	1.98	06/11/2025
Arsenic		0.0010		0.989	1.000	0.01278	97.6	0.9781	1.12	06/11/2025
Beryllium		0.0010		0.0925	0.1000	0	92.5	0.09119	1.39	06/07/2025
Cadmium		0.0010		0.103	0.1000	0	102.8	0.1051	2.26	06/11/2025
Chromium		0.0015		0.369	0.4000	0.0008088	91.9	0.3729	1.16	06/07/2025
Cobalt		0.0010		1.08	1.000	0.2029	87.8	1.101	1.86	06/07/2025
Lead		0.0010		0.954	1.000	0	95.4	0.9539	0.04	06/07/2025
Lithium	*	0.0030		0.929	1.000	0.002294	92.7	0.9221	0.79	06/07/2025
Molybdenum		0.0015		0.998	1.000	0	99.8	1.027	2.88	06/11/2025
Selenium		0.0010		0.969	1.000	0.0008085	96.9	0.9753	0.59	06/11/2025
Thallium		0.0020		0.473	0.5000	0	94.7	0.4783	1.04	06/07/2025



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 240141		SampType: MS		Units mg/L						
SampID: 25051210-009CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		1.09	1.000	0	109.3	75	125	06/07/2025
Arsenic		0.0010		0.958	1.000	0	95.8	75	125	06/07/2025
Beryllium		0.0010		0.0964	0.1000	0	96.4	75	125	06/07/2025
Cadmium		0.0010		0.106	0.1000	0	106.1	75	125	06/07/2025
Chromium		0.0015		0.381	0.4000	0.001071	94.9	75	125	06/07/2025
Cobalt		0.0010		0.935	1.000	0	93.5	75	125	06/07/2025
Lead		0.0010		0.939	1.000	0	93.9	75	125	06/07/2025
Lithium	*	0.0030		0.963	1.000	0	96.3	75	125	06/07/2025
Molybdenum		0.0015		1.00	1.000	0	100.0	75	125	06/07/2025
Selenium		0.0010		0.927	1.000	0	92.7	75	125	06/07/2025
Thallium		0.0020		0.469	0.5000	0	93.8	75	125	06/07/2025

Batch 240141		SampType: MSD		Units mg/L		RPD Limit: 20				
SampID: 25051210-009CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		1.06	1.000	0	105.7	1.093	3.41	06/07/2025
Arsenic		0.0010		0.924	1.000	0	92.4	0.9575	3.52	06/07/2025
Beryllium		0.0010		0.0953	0.1000	0	95.3	0.09635	1.06	06/07/2025
Cadmium		0.0010		0.103	0.1000	0	102.6	0.1061	3.40	06/07/2025
Chromium		0.0015		0.380	0.4000	0.001071	94.7	0.3807	0.19	06/07/2025
Cobalt		0.0010		0.924	1.000	0	92.4	0.9352	1.23	06/07/2025
Lead		0.0010		0.917	1.000	0	91.7	0.9390	2.36	06/07/2025
Lithium	*	0.0030		0.943	1.000	0	94.3	0.9627	2.06	06/07/2025
Molybdenum		0.0015		0.975	1.000	0	97.5	1.000	2.61	06/07/2025
Selenium		0.0010		0.906	1.000	0	90.6	0.9272	2.33	06/07/2025
Thallium		0.0020		0.462	0.5000	0	92.4	0.4689	1.48	06/07/2025

SW-846 7470A (TOTAL)

Batch 240014		SampType: MBLK		Units mg/L						
SampID: MBLK-240014										
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	06/03/2025



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

SW-846 7470A (TOTAL)

Batch 240014		SampType: LCS		Units mg/L						
SampID: LCS-240014										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00475	0.0050	0	95.0	85	115	06/03/2025

Batch 240014		SampType: MS		Units mg/L						
SampID: 25050295-014CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00479	0.0050	0	95.8	75	125	06/03/2025

Batch 240014		SampType: MSD		Units mg/L							RPD Limit: 15
SampID: 25050295-014CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00495	0.0050	0	99.0	0.004788	3.30	06/03/2025	

Batch 240097		SampType: MBLK		Units mg/L						
SampID: MBLK-240097										
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	06/05/2025

Batch 240097		SampType: LCS		Units mg/L						
SampID: LCS-240097										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00473	0.0050	0	94.6	85	115	06/05/2025

Batch 240097		SampType: MS		Units mg/L						
SampID: 25050295-008DMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00467	0.0050	0	93.4	75	125	06/05/2025

Batch 240097		SampType: MSD		Units mg/L							RPD Limit: 15
SampID: 25050295-008DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00480	0.0050	0	96.0	0.004672	2.72	06/05/2025	

Batch 240097		SampType: MS		Units mg/L						
SampID: 25051210-003CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00468	0.0050	0	93.7	75	125	06/05/2025



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

SW-846 7470A (TOTAL)

Batch 240097		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 25051210-003CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00467	0.0050	0	93.4	0.004684	0.34	06/05/2025	

Batch 240153		SampType: MBLK		Units mg/L							
SampID: MBLK-240153											
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	06/06/2025	

Batch 240153		SampType: LCS		Units mg/L							
SampID: LCS-240153											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00481	0.0050	0	96.1	85	115	06/06/2025	

Batch 240153		SampType: MS		Units mg/L							
SampID: 25051210-007CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00467	0.0050	0	93.4	75	125	06/06/2025	

Batch 240153		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 25051210-007CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00475	0.0050	0	95.1	0.004671	1.73	06/06/2025	



Receiving Check List

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

Client: Southern Illinois Power Cooperation

Work Order: 25051210

Client Project: Groundwater Monitoring

Report Date: 24-Jul-25

Carrier: Payton Yoch

Received By: AMD

Completed by:

Reviewed by:

On:

On:

02-Jun-25

05-Jun-25

Amber Dilallo

Elizabeth A. Hurley

Pages to follow: Chain of custody

Extra pages included

- Shipping container/cooler in good condition? Yes No Not Present Temp °C **12.1**
- Type of thermal preservation? None Ice Blue Ice Dry Ice
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Reported field parameters measured: Field Lab NA
- Container/Temp Blank temperature in compliance? Yes No

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 No No VOA vials
- Water - TOX containers have zero headspace? Yes No No TOX containers
- Water - pH acceptable upon receipt? Yes No NA
- NPDES/CWA TCN interferences checked/treated in the field? Yes No NA

Any No responses must be detailed below or on the COC.

pH strip #101358. - NR/amberdilallo - 6/2/2025 4:31:19 PM

Samples were received on 6/3/25 at 1658 on ice [12.7C - LTG#3]. pH strip #101358. - JD/amberdilallo - 6/4/2025 8:42:15 AM

Samples were received on 6/4/25 at 1554 on ice [5.3C and 5.9C - LTG#]. pH strip #101358. - amberdilallo - 6/5/2025 6:26:13 AM

Drop off Location

- Downers Grove, IL Lenexa, KS
 Springfield, IL Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 2 Work order # 25051210

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client: Southern Illinois Power Cooperation
Address: 11543 Lake of Egypt Road
City / State / Zip: Marion, IL 62959
Contact: Jason McLaurin **Phone:** (618) 964-1448
E-Mail: jmclaurin@sipower.org **Fax:**

Samples on: ICE BLUE ICE NO ICE 12.1 °C LTG# 5
Preserved in: LAB FIELD **FOR LAB USE ONLY**
Lab Notes: 10/358 6/2/25

Are these samples known to be involved in litigation? If yes, a surcharge will apply Yes No
 Are these samples known to be hazardous? If yes, include details of the hazard. Yes No
 Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. Yes No

Client Comments Report QC LVL: 2
 ICP: Ba B Ca
 ICP/MS: Sb As Be Cd Cr Co Pb Li Mo Se Ti
 Field Parameters = Elevations, Purge Volume, pH, Conductivity, Temperature, DO, ORP, and Turbidity

Project Name/Number: Groundwater Monitoring
Sample Collector's Name: Payton Koch
Results Requested (call for PFAS TAT and surcharges)
 Standard 1-2 Day (100% Surcharge)
 Date 3 Day (50% Surcharge)

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers												
			UNP	HNO3											
25051210-001	EBG	<u>6/2/25 1237</u>	1	3											
-002	EP-1		1	3											
-003	EP-2		1	3											
-004	EP-3		1	3											
-005	EP-4		1	3											
-006	EP-5	<u>6/2/25 1330</u>	1	3											
-007	EP-6		1	3											
-008	EP-7		1	3											
-009	Equipment Blank		1	3											
-010	Field Blank		1	3											

MATRIX	INDICATE ANALYSIS REQUESTED										
	Groundwater	CI SO4 F-	Field Parameters	ICP Metals	ICP/MS Metals	Mercury	Ra226/228	TDS			
Aqueous	X	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X	X			

Relinquished By	Date/Time	Received By	Date/Time
<u>[Signature]</u>	<u>6/2/25 1421</u>	<u>[Signature]</u>	<u>6/2/25 1421</u>

Drop off Location

- Downers Grove, IL Lenexa, KS
 Springfield, IL Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 2 Work order # 25051210

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client: Southern Illinois Power Cooperation
Address: 11543 Lake of Egypt Road
City / State / Zip: Marion, IL 62959
Contact: Jason McLaurin **Phone:** (618) 964-1448
E-Mail: jmclaurin@sipower.org **Fax:** _____

Samples on: ICE BLUE ICE NO ICE 127 °C LTG# 3
Preserved in: LAB FIELD *PH 101358* **FOR LAB USE ONLY**
Lab Notes: JD 6/4/25

Client Comments Report QC LVL: 2
 ICP: Ba B Ca
 ICP/MS: Sb As Be Cd Cr Co Pb Li Mo Se Ti
 Field Parameters = Elevations, Purge Volume, pH, Conductivity, Temperature, DO, ORP, and Turbidity

Are these samples known to be involved in litigation? If yes, a surcharge will apply Yes No
 Are these samples known to be hazardous? If yes, include details of the hazard. Yes No
 Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. Yes No

Project Name/Number Groundwater Monitoring
Sample Collector's Name Allison Lampe

Results Requested (call for PFAS TAT and surcharges)
 Standard 1-2 Day (100% Surcharge)
 Date _____ 3 Day (50% Surcharge)

Lab Use Only	Sample Identification	Date/Time Sampled	Billing/PO#		# and Type of Containers	
			UNP	HNO3	UNP	HNO3
25051210-001	EBG		1	3		
-002	EP-1	6/3/25 10:58	1	3		
-003	EP-2	6/3/25 12:40	1	3		
-004	EP-3		1	3		
-005	EP-4		1	3		
-006	EP-5		1	3		
-007	EP-6		1	3		
-008	EP-7	6/3/25 14:23	1	3		
-009	Equipment Blank		1	3		
-010	Field Blank		1	3		

MATRIX	INDICATE ANALYSIS REQUESTED										
	CI SO4 F-	Field Parameters	ICP Metals	ICP/MS Metals	Mercury	Ra226/228	TDS				
Aqueous											
Groundwater	X	X	X	X	X	X	X				
	X	X	X	X	X	X	X				
	X	X	X	X	X	X	X				
	X	X	X	X	X	X	X				
	X	X	X	X	X	X	X				
	X	X	X	X	X	X	X				
	X	X	X	X	X	X	X				
	X	X	X	X	X	X	X				

Relinquished By	Date/Time	Received By	Date/Time
<i>Allison Lampe</i>	6/3 4:58	<i>Wm. DeLoe</i>	6/3/25 10:58

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 100269



Drop off Location

- Downers Grove, IL
 Lenexa, KS
 Springfield, IL
 Collinsville, IL

CHAIN OF CUSTODY

pg. 2 of 2 Work order # 25051210

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client: Southern Illinois Power Cooperation
Address: 11543 Lake of Egypt Road
City / State / Zip: Marion, IL 62959
Contact: Jason McLaurin **Phone:** (618) 964-1448
E-Mail: jmclaurin@sipower.org **Fax:**

Samples on: ICE
 BLUE ICE
 NO ICE °C LTG#
Preserved in: LAB
 FIELD **FOR LAB USE ONLY**
Lab Notes:

Client Comments Report QC LVL: 2
 ICP: Ba B Ca
 ICP/MS: Sb As Be Cd Cr Co Pb Li Mo Se Ti
 Field Parameters = Elevations, Purge Volume, pH, Conductivity, Temperature, DO, ORP, and Turbidity

Are these samples known to be involved in litigation? If yes, a surcharge will apply
 Yes
 No
 Are these samples known to be hazardous? If yes, include details of the hazard.
 Yes
 No
 Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section.
 Yes
 No

Project Name/Number
 Groundwater Monitoring

Sample Collector's Name
Payton Lock

Results Requested (call for PFAS TAT and surcharges)
 Standard
 1-2 Day (100% Surcharge)
 Date 3 Day (50% Surcharge)

Billing/PO# **# and Type of Containers**

Lab Use Only	Sample Identification	Date/Time Sampled	UNP	HNO3							
25051210-011	Field Duplicate	6/5/25 1100	1	3							

MATRIX	INDICATE ANALYSIS REQUESTED												
	Groundwater	Aqueous	Cl SO4 F-	Field Parameters	ICP Metals	ICP/MS Metals	Mercury	Ra226/228	TDS				
X			X	X	X	X	X	X	X				

Relinquished By	Date/Time	Received By	Date/Time
<i>Wag</i>	6/5/25 1554	<i>Wagner</i>	6/4/25 1554



Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
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Website: <http://www.settek.com>

July 23, 2025

Elizabeth Hurley
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:
RE: 25051210

Order No.: 25060927

Dear Elizabeth Hurley:

Alliance Technical Group - Akron received 11 sample(s) on 6/9/2025 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

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

Sincerely,

A handwritten signature in black ink that reads "Jennifer M. Woolf". The signature is written in a cursive, flowing style.

Jennifer Woolf
Project Manager
3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C



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Case Narrative

WO#: 25060927
Date: 7/23/2025

CLIENT: TEKLAB Inc,
Project: 25051210

WorkOrder Narrative:

25060927: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Sequence QC Notes:

LCS/LCSD-85504 Radium-226_DW(903.0): RPD between LCS and LCSD is greater than criteria allows due to low recovery of LCS. LCSD, QCS, and RLC demonstrate control.

LCS/LCSD-85791 Radium-226_DW(903.0): LCS and LCSD exhibit high RPD. Individually each LCS and LCSD meet criteria.

Original

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	RL	Reporting Limit
QC	Quality Control	MDL	Method Detection Limit
MB	Method Blank	LOD	Level of Detection
LCS	Laboratory Control Sample	LOQ	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	PQL	Practical Quantitation Limit
QCS	Quality Control Sample	CRQL	Contract Required Quantitation Limit
DUP	Duplicate	PL	Permit Limit
MS	Matrix Spike	RegLvl	Regulatory Limit
MSD	Matrix Spike Duplicate	MCL	Maximum Contamination Limit
RPD	Relative Percent Different	MinCL	Minimum Compound Limit
ICV	Initial Calibration Verification	RA	Reanalysis
ICB	Initial Calibration Blank	RE	Reextraction
CCV	Continuing Calibration Verification	TIC	Tentatively Identified Compound
CCB	Continuing Calibration Blank	RT	Retention Time
RLC	Reporting Limit Check	CF	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.



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Workorder Sample Summary

WO#: 25060927
23-Jul-25

CLIENT: TEKLAB Inc,
Project: 25051210

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
25060927-001	25051210-001		6/2/2025 12:37:00 PM	6/9/2025 1:00:00 PM	Non-Potable Water
25060927-002	25051210-002		6/3/2025 10:58:00 AM	6/9/2025 1:00:00 PM	Non-Potable Water
25060927-003	25051210-003		6/3/2025 12:40:00 PM	6/9/2025 1:00:00 PM	Non-Potable Water
25060927-004	25051210-004		6/4/2025 11:55:00 AM	6/9/2025 1:00:00 PM	Non-Potable Water
25060927-005	25051210-005		6/4/2025 12:54:00 PM	6/9/2025 1:00:00 PM	Non-Potable Water
25060927-006	25051210-006		6/2/2025 1:30:00 PM	6/9/2025 1:00:00 PM	Non-Potable Water
25060927-007	25051210-007		6/4/2025 11:00:00 AM	6/9/2025 1:00:00 PM	Non-Potable Water
25060927-008	25051210-008		6/3/2025 2:23:00 PM	6/9/2025 1:00:00 PM	Non-Potable Water
25060927-009	25051210-009		6/4/2025 1:05:00 PM	6/9/2025 1:00:00 PM	Non-Potable Water
25060927-010	25051210-010		6/4/2025 1:05:00 PM	6/9/2025 1:00:00 PM	Non-Potable Water
25060927-011	25051210-011		6/4/2025 11:00:00 AM	6/9/2025 1:00:00 PM	Non-Potable Water



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DATES REPORT

WO#: 25060927
 23-Jul-25

Client: TEKLAB Inc,
Project: 25051210

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25060927-001A	25051210-001	6/2/2025 12:37:00 PM	Non-Potable Water	Combined Radium (EPA903+904)		7/3/2025 11:53:43 AM	7/14/2025 8:40:00 AM
				Radium-226 (EPA 903.0)		7/3/2025 11:53:43 AM	7/14/2025 8:40:00 AM
				Radium-228 (EPA 904.0)		7/3/2025 11:53:43 AM	7/11/2025 3:01:00 PM
25060927-002A	25051210-002	6/3/2025 10:58:00 AM		Combined Radium (EPA903+904)		7/3/2025 11:53:43 AM	7/14/2025 8:40:00 AM
				Radium-226 (EPA 903.0)		7/3/2025 11:53:43 AM	7/14/2025 8:40:00 AM
				Radium-228 (EPA 904.0)		7/3/2025 11:53:43 AM	7/11/2025 3:01:00 PM
25060927-003A	25051210-003	6/3/2025 12:40:00 PM		Combined Radium (EPA903+904)		7/3/2025 11:53:43 AM	7/14/2025 8:40:00 AM
				Radium-226 (EPA 903.0)		7/3/2025 11:53:43 AM	7/14/2025 8:40:00 AM
				Radium-228 (EPA 904.0)		7/3/2025 11:53:43 AM	7/11/2025 3:01:00 PM
25060927-004A	25051210-004	6/4/2025 11:55:00 AM		Combined Radium (EPA903+904)		7/3/2025 11:53:43 AM	7/14/2025 8:40:00 AM
				Radium-226 (EPA 903.0)		7/3/2025 11:53:43 AM	7/14/2025 8:40:00 AM
				Radium-228 (EPA 904.0)		7/3/2025 11:53:43 AM	7/11/2025 3:01:00 PM
25060927-005A	25051210-005	6/4/2025 12:54:00 PM		Combined Radium (EPA903+904)		7/3/2025 11:53:43 AM	7/14/2025 8:40:00 AM
				Radium-226 (EPA 903.0)		7/3/2025 11:53:43 AM	7/14/2025 8:40:00 AM
				Radium-228 (EPA 904.0)		7/3/2025 11:53:43 AM	7/11/2025 3:01:00 PM
25060927-006A	25051210-006	6/2/2025 1:30:00 PM		Combined Radium (EPA903+904)		7/3/2025 11:53:43 AM	7/14/2025 8:40:00 AM
				Radium-226 (EPA 903.0)		7/3/2025 11:53:43 AM	7/14/2025 8:40:00 AM
				Radium-228 (EPA 904.0)		7/3/2025 11:53:43 AM	7/11/2025 3:01:00 PM
25060927-007A	25051210-007	6/4/2025 11:00:00 AM		Combined Radium (EPA903+904)		7/3/2025 11:53:43 AM	7/14/2025 8:40:00 AM
				Radium-226 (EPA 903.0)		7/3/2025 11:53:43 AM	7/14/2025 8:40:00 AM
				Radium-228 (EPA 904.0)		7/3/2025 11:53:43 AM	7/11/2025 3:01:00 PM
25060927-008A	25051210-008	6/3/2025 2:23:00 PM		Combined Radium (EPA903+904)		7/16/2025 9:35:00 AM	7/23/2025 8:04:00 AM
				Radium-226 (EPA 903.0)		7/3/2025 11:53:43 AM	7/14/2025 8:40:00 AM

Original



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DATES REPORT

WO#: 25060927
 23-Jul-25

Client: TEKLAB Inc,
Project: 25051210

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25060927-008A	25051210-008	6/3/2025 2:23:00 PM	Non-Potable Water	Radium-228 (EPA 904.0)		7/3/2025 11:53:43 AM	7/11/2025 3:01:00 PM
				Radium-228 (EPA 904.0)		7/16/2025 9:35:00 AM	7/22/2025 2:46:00 PM
25060927-009A	25051210-009	6/4/2025 1:05:00 PM		Combined Radium (EPA903+904)		7/3/2025 11:53:43 AM	7/14/2025 8:40:00 AM
				Radium-226 (EPA 903.0)		7/3/2025 11:53:43 AM	7/14/2025 8:40:00 AM
				Radium-228 (EPA 904.0)		7/3/2025 11:53:43 AM	7/11/2025 3:01:00 PM
25060927-010A	25051210-010			Combined Radium (EPA903+904)		7/16/2025 9:35:00 AM	7/23/2025 8:04:00 AM
				Radium-226 (EPA 903.0)		7/3/2025 11:53:43 AM	7/14/2025 8:40:00 AM
				Radium-228 (EPA 904.0)		7/3/2025 11:53:43 AM	7/11/2025 3:01:00 PM
				Radium-228 (EPA 904.0)		7/16/2025 9:35:00 AM	7/22/2025 2:46:00 PM
25060927-011A	25051210-011	6/4/2025 11:00:00 AM		Combined Radium (EPA903+904)		7/3/2025 11:53:43 AM	7/14/2025 8:40:00 AM
				Radium-226 (EPA 903.0)		7/3/2025 11:53:43 AM	7/14/2025 8:40:00 AM
				Radium-228 (EPA 904.0)		7/3/2025 11:53:43 AM	7/11/2025 3:01:00 PM

Original



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Analytical Report

(consolidated)

WO#: 25060927

Date Reported: 7/23/2025

CLIENT: TEKLAB Inc,
Project: 25051210
Lab ID: 25060927-001
Client Sample ID: 25051210-001

Collection Date: 6/2/2025 12:37:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228								
COMBINED RADIUM (EPA903+904)								
EPA903+904 900 SERIES Analyst: SEE								
Radium-226/Radium-228	0.24	2.00	2.00	U	pCi/L	± 0.41	1	7/14/2025 8:40:00 AM
RAD226/228								
RADIUM-226 (EPA 903.0)								
EPA 903.0 1980 900 SERIES Analyst: SEE								
Radium-226	0.04	0.627	1.00	U	pCi/L	± 0.05	1	7/14/2025 8:40:00 AM
Yield	1						1	7/14/2025 8:40:00 AM
RAD226/228								
RADIUM-228 (EPA 904.0)								
EPA 904.0 1980 900 SERIES Analyst: SEE								
Radium-228	0.2	0.640	1.00	U	pCi/L	± 0.36	1	7/11/2025 3:01:00 PM
Yield	1						1	7/11/2025 3:01:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode
J	Analyte detected below quantitation limits		



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Analytical Report

(consolidated)

WO#: 25060927

Date Reported: 7/23/2025

CLIENT: TEKLAB Inc,
Project: 25051210
Lab ID: 25060927-002
Client Sample ID: 25051210-002

Collection Date: 6/3/2025 10:58:00 AM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228								
COMBINED RADIUM (EPA903+904)								
EPA903+904 900 SERIES Analyst: SEE								
Radium-226/Radium-228	0.8	2.00	2.00	U	pCi/L	± 0.44	1	7/14/2025 8:40:00 AM
RAD226/228								
RADIUM-226 (EPA 903.0)								
EPA 903.0 1980 900 SERIES Analyst: SEE								
Radium-226	0.13	0.627	1.00	U	pCi/L	± 0.07	1	7/14/2025 8:40:00 AM
Yield	1						1	7/14/2025 8:40:00 AM
RAD226/228								
RADIUM-228 (EPA 904.0)								
EPA 904.0 1980 900 SERIES Analyst: SEE								
Radium-228	0.67	0.640	1.00	J	pCi/L	± 0.37	1	7/11/2025 3:01:00 PM
Yield	1						1	7/11/2025 3:01:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode
J	Analyte detected below quantitation limits		



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Analytical Report

(consolidated)

WO#: 25060927

Date Reported: 7/23/2025

CLIENT: TEKLAB Inc,
Project: 25051210
Lab ID: 25060927-003
Client Sample ID: 25051210-003

Collection Date: 6/3/2025 12:40:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 EPA903+904 900 SERIES Analyst: SEE COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	1.87	2.00	2.00	U	pCi/L	± 0.61	1	7/14/2025 8:40:00 AM
RAD226/228 EPA 903.0 1980 900 SERIES Analyst: SEE RADIUM-226 (EPA 903.0)								
Radium-226	0.52	0.627	1.00	U	pCi/L	± 0.13	1	7/14/2025 8:40:00 AM
Yield	1						1	7/14/2025 8:40:00 AM
RAD226/228 EPA 904.0 1980 900 SERIES Analyst: SEE RADIUM-228 (EPA 904.0)								
Radium-228	1.35	0.640	1.00		pCi/L	± 0.48	1	7/11/2025 3:01:00 PM
Yield	1						1	7/11/2025 3:01:00 PM

Qualifiers: H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response
 ND Not Detected PL Permit Limit
 R RPD outside accepted recovery limits RL Reporting Detection Limit
 U Samples with CalcVal < MDL W Sample container temperature is out of limit as specified at testcode
 J Analyte detected below quantitation limits



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Analytical Report

(consolidated)

WO#: 25060927

Date Reported: 7/23/2025

CLIENT: TEKLAB Inc,
Project: 25051210
Lab ID: 25060927-004
Client Sample ID: 25051210-004

Collection Date: 6/4/2025 11:55:00 AM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228								
COMBINED RADIUM (EPA903+904)								
EPA903+904 900 SERIES Analyst: SEE								
Radium-226/Radium-228	1.26	2.00	2.00	U	pCi/L	± 0.52	1	7/14/2025 8:40:00 AM
RAD226/228								
RADIUM-226 (EPA 903.0)								
EPA 903.0 1980 900 SERIES Analyst: SEE								
Radium-226	0.2	0.627	1.00	U	pCi/L	± 0.09	1	7/14/2025 8:40:00 AM
Yield							1	7/14/2025 8:40:00 AM
RAD226/228								
RADIUM-228 (EPA 904.0)								
EPA 904.0 1980 900 SERIES Analyst: SEE								
Radium-228	1.06	0.640	1.00		pCi/L	± 0.43	1	7/11/2025 3:01:00 PM
Yield							1	7/11/2025 3:01:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode
J	Analyte detected below quantitation limits		



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 Website: <http://www.settek.com>

Analytical Report

(consolidated)

WO#: 25060927

Date Reported: 7/23/2025

CLIENT: TEKLAB Inc,
Project: 25051210
Lab ID: 25060927-005
Client Sample ID: 25051210-005

Collection Date: 6/4/2025 12:54:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228								
COMBINED RADIUM (EPA903+904)								
EPA903+904 900 SERIES Analyst: SEE								
Radium-226/Radium-228	1.87	2.00	2.00	U	pCi/L	± 0.6	1	7/14/2025 8:40:00 AM
RAD226/228								
RADIUM-226 (EPA 903.0)								
EPA 903.0 1980 900 SERIES Analyst: SEE								
Radium-226	0.14	0.627	1.00	U	pCi/L	± 0.07	1	7/14/2025 8:40:00 AM
Yield							1	7/14/2025 8:40:00 AM
RAD226/228								
RADIUM-228 (EPA 904.0)								
EPA 904.0 1980 900 SERIES Analyst: SEE								
Radium-228	1.73	0.640	1.00		pCi/L	± 0.53	1	7/11/2025 3:01:00 PM
Yield							1	7/11/2025 3:01:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode
J	Analyte detected below quantitation limits		



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Analytical Report

(consolidated)

WO#: 25060927

Date Reported: 7/23/2025

CLIENT: TEKLAB Inc,
Project: 25051210
Lab ID: 25060927-006
Client Sample ID: 25051210-006

Collection Date: 6/2/2025 1:30:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228								
COMBINED RADIUM (EPA903+904)								
EPA903+904 900 SERIES Analyst: SEE								
Radium-226/Radium-228	1.13	2.00	2.00	U	pCi/L	± 0.5	1	7/14/2025 8:40:00 AM
RAD226/228								
RADIUM-226 (EPA 903.0)								
EPA 903.0 1980 900 SERIES Analyst: SEE								
Radium-226	0.18	0.627	1.00	U	pCi/L	± 0.08	1	7/14/2025 8:40:00 AM
Yield	1						1	7/14/2025 8:40:00 AM
RAD226/228								
RADIUM-228 (EPA 904.0)								
EPA 904.0 1980 900 SERIES Analyst: SEE								
Radium-228	0.95	0.640	1.00	J	pCi/L	± 0.42	1	7/11/2025 3:01:00 PM
Yield	1						1	7/11/2025 3:01:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode
J	Analyte detected below quantitation limits		



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Analytical Report

(consolidated)

WO#: 25060927

Date Reported: 7/23/2025

CLIENT: TEKLAB Inc,
Project: 25051210
Lab ID: 25060927-007
Client Sample ID: 25051210-007

Collection Date: 6/4/2025 11:00:00 AM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)						EPA903+904	900 SERIES	Analyst: SEE
Radium-226/Radium-228	0.8	2.00	2.00	U	pCi/L	± 0.45	1	7/14/2025 8:40:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)						EPA 903.0 1980	900 SERIES	Analyst: SEE
Radium-226	0.01	0.627	1.00	U	pCi/L	± 0.03	1	7/14/2025 8:40:00 AM
Yield	1						1	7/14/2025 8:40:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)						EPA 904.0 1980	900 SERIES	Analyst: SEE
Radium-228	0.79	0.640	1.00	J	pCi/L	± 0.42	1	7/11/2025 3:01:00 PM
Yield	1						1	7/11/2025 3:01:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode
J	Analyte detected below quantitation limits		



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Analytical Report

(consolidated)

WO#: 25060927

Date Reported: 7/23/2025

CLIENT: TEKLAB Inc,
Project: 25051210
Lab ID: 25060927-008
Client Sample ID: 25051210-008

Collection Date: 6/3/2025 2:23:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)						EPA903+904	900 SERIES	Analyst: SEE
Radium-226/Radium-228	0.39	2.00	2.00	U	pCi/L	± 0.39	1	7/23/2025 8:04:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)						EPA 903.0 1980	900 SERIES	Analyst: SEE
Radium-226	0.17	0.627	1.00	U	pCi/L	± 0.08	1	7/14/2025 8:40:00 AM
Yield		1					1	7/14/2025 8:40:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)						EPA 904.0 1980	900 SERIES	Analyst: SEE
Radium-228	0.22	0.640	1.00	U	pCi/L	± 0.31	1	7/22/2025 2:46:00 PM
Yield		1					1	7/22/2025 2:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode
J	Analyte detected below quantitation limits		



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Analytical Report

(consolidated)

WO#: 25060927

Date Reported: 7/23/2025

CLIENT: TEKLAB Inc,
Project: 25051210
Lab ID: 25060927-009
Client Sample ID: 25051210-009

Collection Date: 6/4/2025 1:05:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228								
COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0.93	2.00	2.00	U	pCi/L	± 0.49	1	7/14/2025 8:40:00 AM
EPA903+904 900 SERIES Analyst: SEE								
RAD226/228								
RADIUM-226 (EPA 903.0)								
Radium-226	-0.04	0.627	1.00	U	pCi/L	± 0.05	1	7/14/2025 8:40:00 AM
Yield	1						1	7/14/2025 8:40:00 AM
EPA 903.0 1980 900 SERIES Analyst: SEE								
RAD226/228								
RADIUM-228 (EPA 904.0)								
Radium-228	0.93	0.640	1.00	J	pCi/L	± 0.44	1	7/11/2025 3:01:00 PM
Yield	1						1	7/11/2025 3:01:00 PM
EPA 904.0 1980 900 SERIES Analyst: SEE								

Qualifiers:

- | | | | |
|----|--|----|---|
| H | Holding times for preparation or analysis exceeded | M | Manual Integration used to determine area response |
| ND | Not Detected | PL | Permit Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| U | Samples with CalcVal < MDL | W | Sample container temperature is out of limit as specified at testcode |
| J | Analyte detected below quantitation limits | | |



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Analytical Report

(consolidated)

WO#: 25060927

Date Reported: 7/23/2025

CLIENT: TEKLAB Inc,
Project: 25051210
Lab ID: 25060927-010
Client Sample ID: 25051210-010

Collection Date: 6/4/2025 1:05:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 EPA903+904 900 SERIES Analyst: SEE								
COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0.58	2.00	2.00	U	pCi/L	± 0.46	1	7/23/2025 8:04:00 AM
RAD226/228 EPA 903.0 1980 900 SERIES Analyst: SEE								
RADIUM-226 (EPA 903.0)								
Radium-226	0.02	0.627	1.00	U	pCi/L	± 0.05	1	7/14/2025 8:40:00 AM
Yield	1						1	7/14/2025 8:40:00 AM
RAD226/228 EPA 904.0 1980 900 SERIES Analyst: SEE								
RADIUM-228 (EPA 904.0)								
Radium-228	0.56	0.640	1.00	U	pCi/L	± 0.41	1	7/22/2025 2:46:00 PM
Yield	1						1	7/22/2025 2:46:00 PM

Qualifiers: H Holding times for preparation or analysis exceeded
 ND Not Detected
 R RPD outside accepted recovery limits
 U Samples with CalcVal < MDL
 J Analyte detected below quantitation limits
 M Manual Integration used to determine area response
 PL Permit Limit
 RL Reporting Detection Limit
 W Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 25060927

Date Reported: 7/23/2025

CLIENT: TEKLAB Inc,
Project: 25051210
Lab ID: 25060927-011
Client Sample ID: 25051210-011

Collection Date: 6/4/2025 11:00:00 AM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)						EPA903+904	900 SERIES	Analyst: SEE
Radium-226/Radium-228	0.32	2.00	2.00	U	pCi/L	± 0.42	1	7/14/2025 8:40:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)						EPA 903.0 1980	900 SERIES	Analyst: SEE
Radium-226	0.06	0.627	1.00	U	pCi/L	± 0.06	1	7/14/2025 8:40:00 AM
Yield		1					1	7/14/2025 8:40:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)						EPA 904.0 1980	900 SERIES	Analyst: SEE
Radium-228	0.26	0.640	1.00	U	pCi/L	± 0.36	1	7/11/2025 3:01:00 PM
Yield		1					1	7/11/2025 3:01:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode
J	Analyte detected below quantitation limits		



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QC SUMMARY REPORT

WO#: 25060927
 23-Jul-25

Client: TEKLAB Inc,
Project: 25051210

BatchID: 85504

Sample ID: MB-85504	SampType: MBLK	TestCode: Radium-228_	Units: pCi/L	Prep Date: 7/3/2025	RunNo: 212433						
Client ID: BatchQC	Batch ID: 85504	TestNo: E904.0	E903-904	Analysis Date: 7/11/2025	SeqNo: 5677115						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						U
Yield	0.880			0	0						

Sample ID: LCS-85504	SampType: LCS	TestCode: Radium-228_	Units: pCi/L	Prep Date: 7/3/2025	RunNo: 212433						
Client ID: BatchQC	Batch ID: 85504	TestNo: E904.0	E903-904	Analysis Date: 7/11/2025	SeqNo: 5677116						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.28	1.00	5.000	0	65.6	50	130				
Yield	1.00			0	0						

Sample ID: LCSD-85504	SampType: LCSD	TestCode: Radium-228_	Units: pCi/L	Prep Date: 7/3/2025	RunNo: 212433						
Client ID: BatchQC	Batch ID: 85504	TestNo: E904.0	E903-904	Analysis Date: 7/11/2025	SeqNo: 5677117						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.22	1.00	5.000	0	64.4	50	130	3.280	1.85	20	
Yield	1.00			0	0			1.000	0		

Qualifiers: H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits M Manual Integration used to determine area response
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit S Spike Recovery outside accepted recovery limits U Samples with CalcVal < MDL
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 25060927
 23-Jul-25

Client: TEKLAB Inc,
Project: 25051210

BatchID: 85504

Sample ID: 25060903-001ADUP	SampType: DUP	TestCode: Radium-228_	Units: pCi/L	Prep Date: 7/3/2025	RunNo: 212433						
Client ID: BatchQC	Batch ID: 85504	TestNo: E904.0	E903-904	Analysis Date: 7/11/2025	SeqNo: 5677122						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.09	1.00		0	0			1.120	2.71	20	
Yield	0.900			0	0			1.000	10.5		

Sample ID: 25060904-001ADUP	SampType: DUP	TestCode: Radium-228_	Units: pCi/L	Prep Date: 7/3/2025	RunNo: 212433						
Client ID: BatchQC	Batch ID: 85504	TestNo: E904.0	E903-904	Analysis Date: 7/11/2025	SeqNo: 5677124						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.700	1.00		0	0			0.6700	4.38	20	J
Yield	1.00			0	0			1.000	0		

Qualifiers:
 H Holding times for preparation or analysis exceeded
 ND Not Detected
 RL Reporting Detection Limit
 W Sample container temperature is out of limit as specified at testcode

J Analyte detected below quantitation limits
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits

M Manual Integration used to determine area response
 R RPD outside accepted recovery limits
 U Samples with CalcVal < MDL



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QC SUMMARY REPORT

WO#: 25060927
 23-Jul-25

Client: TEKLAB Inc,
Project: 25051210

BatchID: 85504

Sample ID: MB-85504	SampType: MBLK	TestCode: Radium-226_	Units: pCi/L	Prep Date: 7/3/2025	RunNo: 212439						
Client ID: BatchQC	Batch ID: 85504	TestNo: E903.0	E903-904	Analysis Date: 7/14/2025	SeqNo: 5677160						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									U
Yield	ND										

Sample ID: LCSD-85504	SampType: LCSD	TestCode: Radium-226_	Units: pCi/L	Prep Date: 7/3/2025	RunNo: 212439						
Client ID: BatchQC	Batch ID: 85504	TestNo: E903.0	E903-904	Analysis Date: 7/14/2025	SeqNo: 5677162						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.96	1.00	5.000	0	99.2	70	130	3.410	37.0	20	R

Sample ID: 25060903-001ADUP	SampType: DUP	TestCode: Radium-226_	Units: pCi/L	Prep Date: 7/3/2025	RunNo: 212439						
Client ID: BatchQC	Batch ID: 85504	TestNo: E903.0	E903-904	Analysis Date: 7/14/2025	SeqNo: 5681412						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	0.650	1.00						0	200	20	JR
Yield	0.920							1.000	8.33	0	

Qualifiers: H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits M Manual Integration used to determine area response
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit S Spike Recovery outside accepted recovery limits U Samples with CalcVal < MDL
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 25060927
 23-Jul-25

Client: TEKLAB Inc,
Project: 25051210

BatchID: 85791

Sample ID: MB-85791	SampType: MBLK	TestCode: Radium-228_	Units: pCi/L	Prep Date: 7/16/2025	RunNo: 213039						
Client ID: BatchQC	Batch ID: 85791	TestNo: E904.0	E903-904	Analysis Date: 7/22/2025	SeqNo: 5691484						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						U
Yield	1.00			0	0						

Sample ID: LCS-85791	SampType: LCS	TestCode: Radium-228_	Units: pCi/L	Prep Date: 7/16/2025	RunNo: 213039						
Client ID: BatchQC	Batch ID: 85791	TestNo: E904.0	E903-904	Analysis Date: 7/22/2025	SeqNo: 5691485						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.08	1.00	5.000	0	61.6	50	130				
Yield	1.00			0	0						

Sample ID: LCSD-85791	SampType: LCSD	TestCode: Radium-228_	Units: pCi/L	Prep Date: 7/16/2025	RunNo: 213039						
Client ID: BatchQC	Batch ID: 85791	TestNo: E904.0	E903-904	Analysis Date: 7/22/2025	SeqNo: 5691486						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.59	1.00	5.000	0	71.8	50	130	3.080	15.3	20	
Yield	1.00			0	0			1.000	0		

Qualifiers: H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits M Manual Integration used to determine area response
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit S Spike Recovery outside accepted recovery limits U Samples with CalcVal < MDL
 W Sample container temperature is out of limit as specified at testcode



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QC SUMMARY REPORT

WO#: 25060927
 23-Jul-25

Client: TEKLAB Inc,
Project: 25051210

BatchID: 85791

Sample ID: 25061746-001ADUP	SampType: DUP	TestCode: Radium-228_	Units: pCi/L	Prep Date: 7/16/2025	RunNo: 213039						
Client ID: BatchQC	Batch ID: 85791	TestNo: E904.0	E903-904	Analysis Date: 7/22/2025	SeqNo: 5691491						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	U
Yield	1.00			0	0			1.000	0		

Sample ID: 25061792-001ADUP	SampType: DUP	TestCode: Radium-228_	Units: pCi/L	Prep Date: 7/16/2025	RunNo: 213039						
Client ID: BatchQC	Batch ID: 85791	TestNo: E904.0	E903-904	Analysis Date: 7/22/2025	SeqNo: 5691493						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	U
Yield	1.00			0	0			1.000	0		

Qualifiers:
 H Holding times for preparation or analysis exceeded
 ND Not Detected
 RL Reporting Detection Limit
 W Sample container temperature is out of limit as specified at testcode

J Analyte detected below quantitation limits
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits

M Manual Integration used to determine area response
 R RPD outside accepted recovery limits
 U Samples with CalcVal < MDL

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES NO With: Ice Blue Ice Preserved in: Lab Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: QC Level:

Project#

Comments: **Please issue reports and invoices via email only**
Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site.

Contact:

Email:

Requested Due Date:

Billing/PO:

Phone:

25060927

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228	cpm =	pt											
	25051210-001	6/2/25 1237	HNO3	Groundwater	<input checked="" type="checkbox"/>	1011	11											
	25051210-002	6/3/25 1058	HNO3	Groundwater	<input checked="" type="checkbox"/>	2120	11											
	25051210-003	6/3/25 1240	HNO3	Groundwater	<input checked="" type="checkbox"/>	1910	11											
	25051210-004	6/4/25 1155	HNO3	Groundwater	<input checked="" type="checkbox"/>	2018	11											
	25051210-005	6/4/25 1254	HNO3	Groundwater	<input checked="" type="checkbox"/>	2028	11											
	25051210-006	6/2/25 1330	HNO3	Groundwater	<input checked="" type="checkbox"/>	1126	11											
	25051210-007	6/4/25 1100	HNO3	Groundwater	<input checked="" type="checkbox"/>	2118	11											
	25051210-008	6/3/25 1423	HNO3	Groundwater	<input checked="" type="checkbox"/>	1915	11											
	25051210-009	6/4/25 1305	HNO3	Aqueous	<input checked="" type="checkbox"/>	1010	11											
	25051210-010	6/4/25 1305	HNO3	Aqueous	<input checked="" type="checkbox"/>	1215	11											
	25051210-011	6/4/25 1100	HNO3	Groundwater	<input checked="" type="checkbox"/>	1313	11											

*Relinquished By	Date/Time	Received By	Date/Time
<i>Moni Orallo</i>	6/5/25 1200	<i>[Signature]</i>	6/9/25 1300

L.S. Inact - 4970
Feddy Cooke 4971
4972
6/15/25



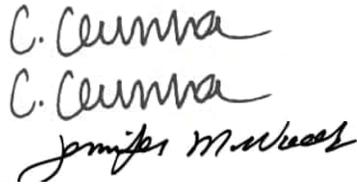
Alliance Technical Group - Akron
 3310 Win St.
 Cuyahoga Falls, Ohio 44223
 TEL: (330) 253-8211 FAX: (330) 253-4489
 Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A**

Work Order Number: **25060927**

RcptNo: **1**

Logged by:	Christina N. Gemma	6/9/2025 1:00:00 PM	
Completed By:	Christina N. Gemma	6/12/2025 3:00:21 PM	
Reviewed By:	Jennifer Woolf	6/13/2025 2:50:28 PM	

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
- Custody seals intact on shipping container/cooler? Yes No Not Present NA
- No. Seal Date: 6/5/2025 Signed By:
5. Was an attempt made to cool the samples? Yes No NA
6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- Not required**
7. Sample(s) in proper container(s)? Yes No
8. Sufficient sample volume for indicated test(s)? Yes No
9. Are samples (except VOA and ONG) properly preserved? Yes No
10. Was preservative added to bottles? Yes No NA
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
12. Were any sample containers received broken? Yes No
13. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes No
15. Is it clear what analyses were requested? Yes No
16. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:
 reporting notes not included: EDD & negative values
 needs Combined reported also per email

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	20.8	Good	Yes	4970	6/5/2025	



Alliance Technical Group - Akron
3310 Win St.
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Sample Log-In Check List

Client Name: **TEK-IL-62234-A**

Work Order Number: **25060927**

RcptNo: 1

2	19.1	Good	Yes	4971	6/5/2025
3	19.8	Good	Yes	4972	6/5/2025

October 29, 2025

Jason McLaurin
Southern Illinois Power Cooperation
11543 Lake of Egypt Road
Marion, IL 62959
TEL: (618) 964-1448
FAX:



Illinois	100226
Illinois	1004652024-2
Kansas	E-10438
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Groundwater Monitoring

WorkOrder: 25080029

Dear Jason McLaurin:

TEKLAB, INC received 11 samples on 9/3/2025 5:42:00 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



Report Contents

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Quality Control Results	25
Receiving Check List	39
Chain of Custody	Appended

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

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)

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

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)

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

Cooler Receipt Temp: 5.7 °C

An employee of Teklab, Inc. collected the sample(s).

Ra226/228 analyses were performed by Alliance Technical Group-Akron. See attached report for results and QC data.

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: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2026	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2026	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2026	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2026	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2025	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	KWLCP	KY98050		12/31/2025	Collinsville
Kentucky	KWLCP	KY98006		12/31/2025	Collinsville
Kentucky	UST	0073		1/31/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville



Laboratory Results

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

Client: Southern Illinois Power Cooperation
 Client Project: Groundwater Monitoring
 Lab ID: 25080029-001
 Matrix: GROUNDWATER

Work Order: 25080029
 Report Date: 29-Oct-25

Client Sample ID: EBG

Collection Date: 09/02/2025 11:31

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		9.41	ft	1	09/02/2025 11:31	R370815
Elevation of groundwater surface	*	0	0		515.46	ft	1	09/02/2025 11:31	R370815
Measuring Point Elevation	*	0	0		524.87	ft	1	09/02/2025 11:31	R370815
FIELD PURGE VOLUME									
Purge Volume	*	0	0		1.80	gal	1	09/02/2025 11:31	R370815
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		3.4	NTU	1	09/02/2025 11:31	R370815
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		153	mV	1	09/02/2025 11:31	R370815
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		0.543	mS/cm	1	09/02/2025 11:31	R370815
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		21.3	°C	1	09/02/2025 11:31	R370815
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		5.22	mg/L	1	09/02/2025 11:31	R370815
SW-846 9040B FIELD									
pH	*	0	1.00		6.67		1	09/02/2025 11:31	R370815
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	16	20		340	mg/L	1	09/03/2025 11:17	R370773
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50		0.67	mg/L	10	09/04/2025 15:08	R370831
Chloride	NELAP	1.00	5.00		9.75	mg/L	10	09/03/2025 14:07	R370757
Sulfate	NELAP	0.99	10.0		84.0	mg/L	10	09/03/2025 14:07	R370757
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0428	mg/L	1	09/05/2025 16:35	244261
Boron	NELAP	0.0090	0.0200		< 0.0200	mg/L	1	09/05/2025 16:35	244261
Calcium	NELAP	0.0350	0.100		10.4	mg/L	1	09/05/2025 16:35	244261
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010	B	< 0.0010	mg/L	5	09/04/2025 18:36	244261
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/04/2025 18:36	244261
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/04/2025 18:36	244261
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/04/2025 18:36	244261
Chromium	NELAP	0.0007	0.0015		0.0029	mg/L	5	09/04/2025 18:36	244261
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	09/04/2025 18:36	244261
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/05/2025 12:05	244261
Lithium	*	0.0015	0.0030		0.0146	mg/L	5	09/04/2025 18:36	244261
Molybdenum	NELAP	0.0006	0.0015	J	0.0009	mg/L	5	09/05/2025 12:05	244261
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/04/2025 18:36	244261
Thallium	NELAP	0.0010	0.0020	BJ	0.0019	mg/L	5	09/05/2025 12:05	244261
<i>Contamination present in the MBLK for Tl. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
<i>Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
<i>LCS recovered outside upper control limits for Se. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	09/04/2025 12:52	244298
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	10/17/2025 13:11	R373675



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

Lab ID: 25080029-001

Client Sample ID: EBG

Matrix: GROUNDWATER

Collection Date: 09/02/2025 11:31

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228									
Radium-228	*	0	0		See Attached	pci/L	1	10/17/2025 13:11	R373675



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

Lab ID: 25080029-002

Client Sample ID: EP-1

Matrix: GROUNDWATER

Collection Date: 09/02/2025 14:19

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		7.45	ft	1	09/02/2025 14:19	R370815
Elevation of groundwater surface	*	0	0		512.27	ft	1	09/02/2025 14:19	R370815
Measuring Point Elevation	*	0	0		519.72	ft	1	09/02/2025 14:19	R370815
FIELD PURGE VOLUME									
Purge Volume	*	0	0		2.60	gal	1	09/02/2025 14:19	R370815
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		1.9	NTU	1	09/02/2025 14:19	R370815
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		172	mV	1	09/02/2025 14:19	R370815
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2.744	mS/cm	1	09/02/2025 14:19	R370815
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		17.8	°C	1	09/02/2025 14:19	R370815
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.88	mg/L	1	09/02/2025 14:19	R370815
SW-846 9040B FIELD									
pH	*	0	1.00		6.24		1	09/02/2025 14:19	R370815
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	16	20		2480	mg/L	1	09/03/2025 11:17	R370773
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50	J	0.20	mg/L	10	09/04/2025 15:46	R370831
Chloride	NELAP	1.00	5.00		39.9	mg/L	10	09/03/2025 14:45	R370757
Sulfate	NELAP	0.99	10.0		1500	mg/L	10	09/03/2025 14:45	R370757
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0161	mg/L	1	09/05/2025 16:36	244261
Boron	NELAP	0.0090	0.0200		1.24	mg/L	1	09/05/2025 16:36	244261
Calcium	NELAP	0.0350	0.100		500	mg/L	1	09/05/2025 16:36	244261
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010	B	< 0.0010	mg/L	5	09/04/2025 18:41	244261
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/04/2025 18:41	244261
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/04/2025 18:41	244261
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/04/2025 18:41	244261
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	09/04/2025 18:41	244261
Cobalt	NELAP	0.0001	0.0010	J	0.0002	mg/L	5	09/04/2025 18:41	244261
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/05/2025 12:10	244261
Lithium	*	0.0015	0.0030		0.0088	mg/L	5	09/04/2025 18:41	244261
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	09/05/2025 12:10	244261
Selenium	NELAP	0.0006	0.0010		0.0010	mg/L	5	09/05/2025 12:10	244261
Thallium	NELAP	0.0010	0.0020	BJ	0.0011	mg/L	5	09/05/2025 12:10	244261
<i>Contamination present in the MBLK for Tl. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
<i>Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	09/04/2025 13:04	244298
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	10/17/2025 13:11	R373675
Radium-228	*	0	0		See Attached	pci/L	1	10/17/2025 13:11	R373675



Laboratory Results

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

Client: Southern Illinois Power Cooperation
 Client Project: Groundwater Monitoring
 Lab ID: 25080029-003
 Matrix: GROUNDWATER

Work Order: 25080029
 Report Date: 29-Oct-25

Client Sample ID: EP-2

Collection Date: 09/03/2025 13:34

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		12.02	ft	1	09/03/2025 13:34	R370815
Elevation of groundwater surface	*	0	0		501.77	ft	1	09/03/2025 13:34	R370815
Measuring Point Elevation	*	0	0		513.79	ft	1	09/03/2025 13:34	R370815
FIELD PURGE VOLUME									
Purge Volume	*	0	0		1.30	gal	1	09/03/2025 13:34	R370815
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		4.0	NTU	1	09/03/2025 13:34	R370815
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		82	mV	1	09/03/2025 13:34	R370815
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		3.689	mS/cm	1	09/03/2025 13:34	R370815
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		21.0	°C	1	09/03/2025 13:34	R370815
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.79	mg/L	1	09/03/2025 13:34	R370815
SW-846 9040B FIELD									
pH	*	0	1.00		6.30		1	09/03/2025 13:34	R370815
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	16	20		3690	mg/L	1	09/04/2025 14:22	R370862
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50		0.58	mg/L	10	09/04/2025 22:06	R370831
Chloride	NELAP	1.00	5.00		79.8	mg/L	10	09/04/2025 22:06	R370831
Sulfate	NELAP	0.99	10.0		2310	mg/L	10	09/04/2025 22:06	R370831
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0240	mg/L	1	09/09/2025 10:06	244354
Boron	NELAP	0.0090	0.0200		0.381	mg/L	1	09/09/2025 10:06	244354
Calcium	NELAP	0.0350	0.100		451	mg/L	1	09/09/2025 10:06	244354
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010	J	0.0007	mg/L	5	09/05/2025 16:23	244354
Arsenic	NELAP	0.0004	0.0010		0.0032	mg/L	5	09/05/2025 16:23	244354
Beryllium	NELAP	0.0002	0.0010	J	0.0004	mg/L	5	09/05/2025 16:23	244354
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/05/2025 16:23	244354
Chromium	NELAP	0.0007	0.0015	B	< 0.0015	mg/L	5	09/05/2025 16:23	244354
Cobalt	NELAP	0.0001	0.0010		0.0318	mg/L	5	09/05/2025 16:23	244354
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/05/2025 16:23	244354
Lithium	*	0.0015	0.0030		0.0199	mg/L	5	09/05/2025 16:23	244354
Molybdenum	NELAP	0.0006	0.0015		0.0037	mg/L	5	09/08/2025 18:45	244354
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/05/2025 16:23	244354
Thallium	NELAP	0.0010	0.0020	J	0.0012	mg/L	5	09/15/2025 7:52	244731
CCV recovered outside the upper control limits for Pb. Sample results are below the reporting limit. Data is reportable per the TNI standard.									
Contamination present in the MBLK for Cr. Sample results below the reporting limit are reportable per the TNI Standard.									
LCS recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	09/04/2025 17:38	244336
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	10/17/2025 13:11	R373675



Laboratory Results

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

Client: Southern Illinois Power Cooperation
Client Project: Groundwater Monitoring
Lab ID: 25080029-003
Matrix: GROUNDWATER

Work Order: 25080029
Report Date: 29-Oct-25

Client Sample ID: EP-2

Collection Date: 09/03/2025 13:34

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228									
Radium-228	*	0	0		See Attached	pci/L	1	10/17/2025 13:11	R373675



Laboratory Results

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

Client: Southern Illinois Power Cooperation
 Client Project: Groundwater Monitoring
 Lab ID: 25080029-004
 Matrix: GROUNDWATER

Work Order: 25080029
 Report Date: 29-Oct-25

Client Sample ID: EP-3

Collection Date: 09/03/2025 12:18

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		16.91	ft	1	09/03/2025 12:18	R370815
Elevation of groundwater surface	*	0	0		502.04	ft	1	09/03/2025 12:18	R370815
Measuring Point Elevation	*	0	0		518.95	ft	1	09/03/2025 12:18	R370815
FIELD PURGE VOLUME									
Purge Volume	*	0	0		2.40	gal	1	09/03/2025 12:18	R370815
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		7.0	NTU	1	09/03/2025 12:18	R370815
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		-52	mV	1	09/03/2025 12:18	R370815
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1.318	mS/cm	1	09/03/2025 12:18	R370815
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		21.6	°C	1	09/03/2025 12:18	R370815
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.99	mg/L	1	09/03/2025 12:18	R370815
SW-846 9040B FIELD									
pH	*	0	1.00		6.09		1	09/03/2025 12:18	R370815
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	23	29		709	mg/L	1.43	09/04/2025 14:22	R370862
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50	J	0.19	mg/L	10	09/04/2025 23:22	R370831
Chloride	NELAP	1.00	5.00		154	mg/L	10	09/04/2025 23:22	R370831
Sulfate	NELAP	0.99	10.0		98.7	mg/L	10	09/04/2025 23:22	R370831
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.101	mg/L	1	09/09/2025 10:07	244354
Boron	NELAP	0.0090	0.0200		0.0706	mg/L	1	09/09/2025 10:07	244354
Calcium	NELAP	0.0350	0.100		36.1	mg/L	1	09/09/2025 10:07	244354
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010	J	0.0005	mg/L	5	09/05/2025 16:28	244354
Arsenic	NELAP	0.0004	0.0010		0.0082	mg/L	5	09/05/2025 16:28	244354
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/05/2025 16:28	244354
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/05/2025 16:28	244354
Chromium	NELAP	0.0007	0.0015		0.0021	mg/L	5	09/08/2025 7:57	244354
Cobalt	NELAP	0.0001	0.0010		0.0786	mg/L	5	09/05/2025 16:28	244354
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/05/2025 16:28	244354
Lithium	*	0.0015	0.0030		0.0210	mg/L	5	09/05/2025 16:28	244354
Molybdenum	NELAP	0.0006	0.0015	J	0.0006	mg/L	5	09/15/2025 8:01	244731
Selenium	NELAP	0.0006	0.0010	J	0.0007	mg/L	5	09/05/2025 16:28	244354
Thallium	NELAP	0.0010	0.0020	J	0.0017	mg/L	5	09/10/2025 8:41	244354
CCV recovered outside the upper control limits for Pb. Sample results are below the reporting limit. Data is reportable per the TNI standard.									
LCS recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	09/04/2025 17:41	244336
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	10/17/2025 13:11	R373675
Radium-228	*	0	0		See Attached	pci/L	1	10/17/2025 13:11	R373675



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

Lab ID: 25080029-005

Client Sample ID: EP-4

Matrix: GROUNDWATER

Collection Date: 09/03/2025 12:17

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		6.41	ft	1	09/03/2025 12:17	R370815
Elevation of groundwater surface	*	0	0		513.33	ft	1	09/03/2025 12:17	R370815
Measuring Point Elevation	*	0	0		519.74	ft	1	09/03/2025 12:17	R370815
FIELD PURGE VOLUME									
Purge Volume	*	0	0		5.00	gal	1	09/03/2025 12:17	R370815
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		6.8	NTU	1	09/03/2025 12:17	R370815
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		26	mV	1	09/03/2025 12:17	R370815
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2.576	mS/cm	1	09/03/2025 12:17	R370815
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		22.1	°C	1	09/03/2025 12:17	R370815
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.68	mg/L	1	09/03/2025 12:17	R370815
SW-846 9040B FIELD									
pH	*	0	1.00		5.92		1	09/03/2025 12:17	R370815
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	25		1910	mg/L	1.25	09/04/2025 14:22	R370862
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50	J	0.14	mg/L	10	09/04/2025 23:34	R370831
Chloride	NELAP	1.00	5.00		528	mg/L	10	09/04/2025 23:34	R370831
Sulfate	NELAP	0.99	10.0		495	mg/L	10	09/04/2025 23:34	R370831
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0412	mg/L	1	09/09/2025 10:07	244354
Boron	NELAP	0.0090	0.0200		9.87	mg/L	1	09/09/2025 10:07	244354
Calcium	NELAP	0.0350	0.100		159	mg/L	1	09/09/2025 10:07	244354
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/05/2025 16:34	244354
Arsenic	NELAP	0.0004	0.0010		0.0213	mg/L	5	09/05/2025 16:34	244354
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/05/2025 16:34	244354
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/05/2025 16:34	244354
Chromium	NELAP	0.0007	0.0015	BJ	0.0010	mg/L	5	09/05/2025 16:34	244354
Cobalt	NELAP	0.0001	0.0010		0.211	mg/L	5	09/05/2025 16:34	244354
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/05/2025 16:34	244354
Lithium	*	0.0015	0.0030	J	0.0029	mg/L	5	09/05/2025 16:34	244354
Molybdenum	NELAP	0.0006	0.0015	BJ	0.0014	mg/L	5	09/08/2025 8:02	244354
Selenium	NELAP	0.0006	0.0010	J	0.0007	mg/L	5	09/05/2025 16:34	244354
Thallium	NELAP	0.0010	0.0020		0.0020	mg/L	5	09/08/2025 8:02	244354
<i>Contamination present in the MBLK for Mo. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
<i>CCV recovered outside the upper control limits for Pb. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i>									
<i>Contamination present in the MBLK for Cr. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
<i>LCS recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	09/04/2025 17:43	244336



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

Lab ID: 25080029-005

Client Sample ID: EP-4

Matrix: GROUNDWATER

Collection Date: 09/03/2025 12:17

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	10/17/2025 13:11	R373675
Radium-228	*	0	0		See Attached	pci/L	1	10/17/2025 13:11	R373675



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

Lab ID: 25080029-006

Client Sample ID: EP-5

Matrix: GROUNDWATER

Collection Date: 09/02/2025 13:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		14.81	ft	1	09/02/2025 13:10	R370815
Elevation of groundwater surface	*	0	0		512.78	ft	1	09/02/2025 13:10	R370815
Measuring Point Elevation	*	0	0		527.59	ft	1	09/02/2025 13:10	R370815
FIELD PURGE VOLUME									
Purge Volume	*	0	0		2.60	gal	1	09/02/2025 13:10	R370815
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		4.1	NTU	1	09/02/2025 13:10	R370815
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		157	mV	1	09/02/2025 13:10	R370815
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		0.424	mS/cm	1	09/02/2025 13:10	R370815
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		20.4	°C	1	09/02/2025 13:10	R370815
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		3.31	mg/L	1	09/02/2025 13:10	R370815
SW-846 9040B FIELD									
pH	*	0	1.00		6.61		1	09/02/2025 13:10	R370815
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	16	20		282	mg/L	1	09/03/2025 11:18	R370773
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50		0.50	mg/L	10	09/04/2025 15:59	R370831
Chloride	NELAP	1.0	5.0	J	3.2	mg/L	10	09/03/2025 14:58	R370757
Sulfate	NELAP	0.99	10.0		92.4	mg/L	10	09/03/2025 14:58	R370757
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0441	mg/L	1	09/05/2025 16:37	244261
Boron	NELAP	0.0090	0.0200		< 0.0200	mg/L	1	09/05/2025 16:37	244261
Calcium	NELAP	0.0350	0.100		13.8	mg/L	1	09/05/2025 16:37	244261
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010	B	< 0.0010	mg/L	5	09/04/2025 18:47	244261
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/04/2025 18:47	244261
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/04/2025 18:47	244261
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/04/2025 18:47	244261
Chromium	NELAP	0.0007	0.0015		0.0037	mg/L	5	09/04/2025 18:47	244261
Cobalt	NELAP	0.0001	0.0010	J	0.0002	mg/L	5	09/04/2025 18:47	244261
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/05/2025 12:15	244261
Lithium	*	0.0015	0.0030		0.0030	mg/L	5	09/04/2025 18:47	244261
Molybdenum	NELAP	0.0006	0.0015	J	0.0013	mg/L	5	09/05/2025 12:15	244261
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/04/2025 18:47	244261
Thallium	NELAP	0.0010	0.0020	B	< 0.0020	mg/L	5	09/05/2025 12:15	244261
<i>Contamination present in the MBLK for Tl. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
<i>Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
<i>LCS recovered outside upper control limits for Se. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	09/04/2025 12:54	244298
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	10/17/2025 13:11	R373675



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

Lab ID: 25080029-006

Client Sample ID: EP-5

Matrix: GROUNDWATER

Collection Date: 09/02/2025 13:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228									
Radium-228	*	0	0		See Attached	pci/L	1	10/17/2025 13:11	R373675



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

Lab ID: 25080029-007

Client Sample ID: EP-6

Matrix: GROUNDWATER

Collection Date: 09/03/2025 14:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		4.54	ft	1	09/03/2025 14:45	R370815
Elevation of groundwater surface	*	0	0		500.57	ft	1	09/03/2025 14:45	R370815
Measuring Point Elevation	*	0	0		505.11	ft	1	09/03/2025 14:45	R370815
FIELD PURGE VOLUME									
Purge Volume	*	0	0		1.30	gal	1	09/03/2025 14:45	R370815
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		3.5	NTU	1	09/03/2025 14:45	R370815
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		145	mV	1	09/03/2025 14:45	R370815
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		0.340	mS/cm	1	09/03/2025 14:45	R370815
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		26.4	°C	1	09/03/2025 14:45	R370815
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.69	mg/L	1	09/03/2025 14:45	R370815
SW-846 9040B FIELD									
pH	*	0	1.00		5.10		1	09/03/2025 14:45	R370815
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	16	20		284	mg/L	1	09/04/2025 14:31	R370862
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50		ND	mg/L	10	09/04/2025 23:47	R370831
Chloride	NELAP	1.00	5.00		21.1	mg/L	10	09/04/2025 23:47	R370831
Sulfate	NELAP	0.99	10.0		75.1	mg/L	10	09/04/2025 23:47	R370831
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0383	mg/L	1	09/09/2025 12:41	244354
Boron	NELAP	0.0090	0.0200		< 0.0200	mg/L	1	09/09/2025 12:41	244354
Calcium	NELAP	0.0350	0.100		1.82	mg/L	1	09/09/2025 12:41	244354
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/05/2025 18:25	244354
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/05/2025 18:25	244354
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/05/2025 18:25	244354
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/05/2025 18:25	244354
Chromium	NELAP	0.0007	0.0015		0.0068	mg/L	5	09/08/2025 10:14	244354
Cobalt	NELAP	0.0001	0.0010	J	0.0008	mg/L	5	09/05/2025 18:25	244354
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/05/2025 18:25	244354
Lithium	*	0.0015	0.0030		0.0148	mg/L	5	09/05/2025 18:25	244354
Molybdenum	NELAP	0.0006	0.0015	B	0.0243	mg/L	5	09/08/2025 10:14	244354
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/05/2025 18:25	244354
Thallium	NELAP	0.0010	0.0020	J	0.0019	mg/L	5	09/08/2025 10:14	244354
<i>Sample result for Mo exceeds 10 times the method blank contamination. Data is reportable per the TNI Standard.</i>									
<i>CCV recovered outside the upper control limits Pb. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i>									
<i>LCS recovered outside upper control limits Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	09/04/2025 17:45	244336
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	10/17/2025 13:11	R373675



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

Lab ID: 25080029-007

Client Sample ID: EP-6

Matrix: GROUNDWATER

Collection Date: 09/03/2025 14:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228									
Radium-228	*	0	0		See Attached	pci/L	1	10/17/2025 13:11	R373675



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

Lab ID: 25080029-008

Client Sample ID: EP-7

Matrix: GROUNDWATER

Collection Date: 09/03/2025 15:04

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		14.71	ft	1	09/03/2025 15:04	R370815
Elevation of groundwater surface	*	0	0		500.73	ft	1	09/03/2025 15:04	R370815
Measuring Point Elevation	*	0	0		515.44	ft	1	09/03/2025 15:04	R370815
FIELD PURGE VOLUME									
Purge Volume	*	0	0		2.60	gal	1	09/03/2025 15:04	R370815
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		5.0	NTU	1	09/03/2025 15:04	R370815
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		-16	mV	1	09/03/2025 15:04	R370815
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1.735	mS/cm	1	09/03/2025 15:04	R370815
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		21.0	°C	1	09/03/2025 15:04	R370815
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.30	mg/L	1	09/03/2025 15:04	R370815
SW-846 9040B FIELD									
pH	*	0	1.00		5.72		1	09/03/2025 15:04	R370815
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	16	20		1100	mg/L	1	09/04/2025 14:31	R370862
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50	J	0.14	mg/L	10	09/05/2025 0:00	R370831
Chloride	NELAP	1.00	5.00		308	mg/L	10	09/05/2025 0:00	R370831
Sulfate	NELAP	0.99	10.0		243	mg/L	10	09/05/2025 0:00	R370831
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0428	mg/L	1	09/09/2025 12:44	244354
Boron	NELAP	0.0090	0.0200		0.525	mg/L	1	09/09/2025 12:44	244354
Calcium	NELAP	0.0350	0.100		63.9	mg/L	1	09/09/2025 12:44	244354
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/05/2025 16:39	244354
Arsenic	NELAP	0.0004	0.0010		0.0100	mg/L	5	09/05/2025 16:39	244354
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/05/2025 16:39	244354
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/05/2025 16:39	244354
Chromium	NELAP	0.0007	0.0015		0.0181	mg/L	5	09/08/2025 8:08	244354
Cobalt	NELAP	0.0001	0.0010		0.190	mg/L	5	09/05/2025 16:39	244354
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/05/2025 16:39	244354
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	09/05/2025 16:39	244354
Molybdenum	NELAP	0.0006	0.0015	BJ	0.0010	mg/L	5	09/08/2025 8:08	244354
Selenium	NELAP	0.0006	0.0010	J	0.0006	mg/L	5	09/05/2025 16:39	244354
Thallium	NELAP	0.0010	0.0020	J	0.0017	mg/L	5	09/08/2025 8:08	244354
<i>Contamination present in the MBLK for Mo. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
<i>CCV recovered outside the upper control limits for Pb. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i>									
<i>LCS recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	09/04/2025 17:48	244336
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	10/17/2025 13:11	R373675



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

Lab ID: 25080029-008

Client Sample ID: EP-7

Matrix: GROUNDWATER

Collection Date: 09/03/2025 15:04

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228									
Radium-228	*	0	0		See Attached	pci/L	1	10/17/2025 13:11	R373675



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

Lab ID: 25080029-009

Client Sample ID: Equipment Blank

Matrix: AQUEOUS

Collection Date: 09/03/2025 15:18

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	16	20	J	16	mg/L	1	09/04/2025 14:31	R370862
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50		ND	mg/L	10	09/05/2025 0:12	R370831
Chloride	NELAP	1.00	5.00		ND	mg/L	10	09/05/2025 0:12	R370831
Sulfate	NELAP	0.99	10.0		ND	mg/L	10	09/05/2025 0:12	R370831
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025	J	0.0012	mg/L	1	09/09/2025 12:09	244354
Boron	NELAP	0.0090	0.0200		< 0.0200	mg/L	1	09/09/2025 12:09	244354
Calcium	NELAP	0.035	0.10	J	0.045	mg/L	1	09/09/2025 12:09	244354
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/05/2025 16:45	244354
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/05/2025 16:45	244354
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/05/2025 16:45	244354
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/05/2025 16:45	244354
Chromium	NELAP	0.0007	0.0015	BJ	0.0008	mg/L	5	09/05/2025 16:45	244354
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	09/05/2025 16:45	244354
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/05/2025 16:45	244354
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	09/05/2025 16:45	244354
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	09/15/2025 8:11	244731
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/05/2025 16:45	244354
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	09/15/2025 8:11	244731
<p><i>CCV recovered outside the upper control limits for Pb. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i></p> <p><i>Contamination present in the MBLK for Cr. Sample results below the reporting limit are reportable per the TNI Standard.</i></p> <p><i>LCS recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i></p>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	09/04/2025 17:50	244336
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	10/20/2025 14:34	R373675
Radium-228	*	0	0		See Attached	pci/L	1	10/20/2025 14:34	R373675



Laboratory Results

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

Client: Southern Illinois Power Cooperation
 Client Project: Groundwater Monitoring
 Lab ID: 25080029-010
 Matrix: AQUEOUS

Work Order: 25080029
 Report Date: 29-Oct-25

Client Sample ID: Field Blank

Collection Date: 09/03/2025 12:17

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	16	20		< 20	mg/L	1	09/04/2025 14:31	R370862
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50		ND	mg/L	10	09/05/2025 0:25	R370831
Chloride	NELAP	1.00	5.00		ND	mg/L	10	09/05/2025 0:25	R370831
Sulfate	NELAP	0.99	10.0		ND	mg/L	10	09/05/2025 0:25	R370831
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025	J	0.0015	mg/L	1	09/09/2025 10:23	244354
Boron	NELAP	0.0090	0.0200		< 0.0200	mg/L	1	09/09/2025 10:23	244354
Calcium	NELAP	0.035	0.10	J	0.070	mg/L	1	09/09/2025 10:23	244354
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/05/2025 16:50	244354
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/05/2025 16:50	244354
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/05/2025 16:50	244354
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/05/2025 16:50	244354
Chromium	NELAP	0.0007	0.0015	BJ	0.0008	mg/L	5	09/05/2025 16:50	244354
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	09/05/2025 16:50	244354
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/05/2025 16:50	244354
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	09/05/2025 16:50	244354
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	09/15/2025 8:43	244731
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/05/2025 16:50	244354
Thallium	NELAP	0.0010	0.0020	J	0.0018	mg/L	5	09/08/2025 11:20	244354
CCV recovered outside the upper control limits for Pb. Sample results are below the reporting limit. Data is reportable per the TNI standard.									
Contamination present in the MBLK for Cr. Sample results below the reporting limit are reportable per the TNI Standard.									
LCS recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	09/04/2025 17:55	244336
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	10/20/2025 14:34	R373675
Radium-228	*	0	0		See Attached	pci/L	1	10/20/2025 14:34	R373675



Laboratory Results

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

Client: Southern Illinois Power Cooperation
 Client Project: Groundwater Monitoring
 Lab ID: 25080029-011
 Matrix: GROUNDWATER

Work Order: 25080029
 Report Date: 29-Oct-25

Client Sample ID: Field Duplicate

Collection Date: 09/03/2025 12:17

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		6.41	ft	1	09/03/2025 12:17	R370815
Elevation of groundwater surface	*	0	0		513.33	ft	1	09/03/2025 12:17	R370815
Measuring Point Elevation	*	0	0		519.74	ft	1	09/03/2025 12:17	R370815
FIELD PURGE VOLUME									
Purge Volume	*	0	0		5.00	gal	1	09/03/2025 12:17	R370815
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		6.8	NTU	1	09/03/2025 12:17	R370815
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		26	mV	1	09/03/2025 12:17	R370815
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2.576	mS/cm	1	09/03/2025 12:17	R370815
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		22.1	°C	1	09/03/2025 12:17	R370815
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.68	mg/L	1	09/03/2025 12:17	R370815
SW-846 9040B FIELD									
pH	*	0	1.00		5.92		1	09/03/2025 12:17	R370815
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	32	40		1790	mg/L	2	09/04/2025 14:31	R370862
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.04	0.50	J	0.13	mg/L	10	09/05/2025 0:38	R370831
Chloride	NELAP	1.00	5.00		526	mg/L	10	09/05/2025 0:38	R370831
Sulfate	NELAP	0.99	10.0		495	mg/L	10	09/05/2025 0:38	R370831
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0421	mg/L	1	09/09/2025 10:24	244354
Boron	NELAP	0.0090	0.0200		10.0	mg/L	1	09/09/2025 10:24	244354
Calcium	NELAP	0.0350	0.100		159	mg/L	1	09/09/2025 10:24	244354
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/05/2025 16:56	244354
Arsenic	NELAP	0.0004	0.0010		0.0194	mg/L	5	09/05/2025 16:56	244354
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/05/2025 16:56	244354
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/05/2025 16:56	244354
Chromium	NELAP	0.0007	0.0015	BJ	0.0012	mg/L	5	09/05/2025 16:56	244354
Cobalt	NELAP	0.0001	0.0010		0.192	mg/L	5	09/05/2025 16:56	244354
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/05/2025 16:56	244354
Lithium	*	0.0015	0.0030	J	0.0026	mg/L	5	09/05/2025 16:56	244354
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	09/15/2025 8:52	244731
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/05/2025 16:56	244354
Thallium	NELAP	0.0010	0.0020	J	0.0016	mg/L	5	09/08/2025 11:25	244354
CCV recovered outside the upper control limits for Pb. Sample results are below the reporting limit. Data is reportable per the TNI standard.									
Contamination present in the MBLK for Cr. Sample results below the reporting limit are reportable per the TNI Standard.									
LCS recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	09/04/2025 17:52	244336
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	10/20/2025 14:34	R373675



Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

Lab ID: 25080029-011

Client Sample ID: Field Duplicate

Matrix: GROUNDWATER

Collection Date: 09/03/2025 12:17

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228									
Radium-228	*	0	0		See Attached	pci/L	1	10/20/2025 14:34	R373675



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

STANDARD METHODS 2510 B FIELD

Batch R370815		SampType: LCS		Units mS/cm							
SampID: LCS-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1.417	1.412	0	100.4	90	110	09/02/2025	

Batch R370815		SampType: LCS		Units mS/cm							
SampID: LCS-2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1.412	1.412	0	100.0	90	110	09/03/2025	

Batch R370815		SampType: LCS		Units mS/cm							
SampID: LCS-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1.416	1.412	0	100.3	90	110	09/03/2025	

SW-846 9040B FIELD

Batch R370815		SampType: LCS		Units							
SampID: LCS-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.09	7.000	0	101.3	98.57	101.4	09/02/2025	

Batch R370815		SampType: LCS		Units							
SampID: LCS-2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.05	7.000	0	100.7	98.57	101.4	09/03/2025	

Batch R370815		SampType: LCS		Units							
SampID: LCS-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.08	7.000	0	101.1	98.57	101.4	09/03/2025	

STANDARD METHODS 2540 C (TOTAL) 2020

Batch R370773		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	09/03/2025	



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

STANDARD METHODS 2540 C (TOTAL) 2020

Batch R370773		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		234	250.0	0	93.6	90	110	09/03/2025	

Batch R370773		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 25080029-001ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		330				340.0	2.99	09/03/2025		

Batch R370773		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 25090140-001ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		500		5950				5450	8.77	09/04/2025		

Batch R370862		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	09/04/2025	

Batch R370862		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		242	250.0	0	96.8	90	110	09/04/2025	

Batch R370862		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 25080029-003ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		3670				3686	0.54	09/04/2025		

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R370757		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK/ICB											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.05		ND	0.0040	0	0	0	100	09/03/2025	
Chloride		0.50		ND	0.1000	0	0	0	100	09/03/2025	
Sulfate		1.00		ND	0.0990	0	0	0	100	09/03/2025	



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R370757		SampType: LCS		Units mg/L						
SampID: LCS/ICV/QCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		1.09	1.000	0	108.9	90	110	09/03/2025
Chloride		0.50		20.5	20.00	0	102.7	90	110	09/03/2025
Sulfate		1.00		18.8	20.00	0	94.0	90	110	09/03/2025

Batch R370757		SampType: MS		Units mg/L						
SampID: 25080029-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		5.00		207	200.0	9.747	98.8	80	120	09/03/2025
Sulfate		10.0		269	200.0	84.04	92.2	80	120	09/03/2025

Batch R370757		SampType: MSD		Units mg/L							RPD Limit 15
SampID: 25080029-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		5.00		209	200.0	9.747	99.4	207.4	0.53	09/03/2025	
Sulfate		10.0		270	200.0	84.04	92.8	268.5	0.43	09/03/2025	

Batch R370757		SampType: MS		Units mg/L						
SampID: 25090053-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		5.00		333	200.0	109.5	111.5	80	120	09/03/2025
Sulfate		10.0		1020	200.0	813.6	104.9	80	120	09/03/2025

Batch R370757		SampType: MSD		Units mg/L							RPD Limit 15
SampID: 25090053-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		5.00		337	200.0	109.5	113.6	332.5	1.26	09/03/2025	
Sulfate		10.0		1030	200.0	813.6	108.4	1023	0.69	09/03/2025	

Batch R370757		SampType: MS		Units mg/L						
SampID: 25090109-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		50.0		8140	2000	5945	109.9	80	120	09/03/2025
Sulfate		100		4290	2000	2314	98.8	80	120	09/03/2025



Quality Control Results

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Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R370757		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 25090109-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		50.0		8300	2000	5945	117.7	8143	1.90	09/03/2025	
Sulfate		100		4360	2000	2314	102.4	4290	1.68	09/03/2025	

Batch R370757		SampType: MS		Units mg/L				RPD Limit 15		Date Analyzed
SampID: 25090174-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		5.00	H	512	200.0	289.2	111.2	80	120	09/04/2025
Sulfate		10.0	H	1470	200.0	1302	83.7	80	120	09/04/2025

Batch R370757		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 25090174-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		5.00	H	518	200.0	289.2	114.5	511.7	1.27	09/04/2025	
Sulfate		10.0	H	1490	200.0	1302	96.1	1470	1.67	09/04/2025	

Batch R370757		SampType: MS		Units mg/L				RPD Limit 15		Date Analyzed
SampID: 25090177-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		5.00	H	401	200.0	171.4	114.9	80	120	09/03/2025
Sulfate		10.0	H	1090	200.0	884.1	103.1	80	120	09/03/2025

Batch R370757		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 25090177-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		5.00	H	402	200.0	171.4	115.1	401.1	0.09	09/03/2025	
Sulfate		10.0	H	1090	200.0	884.1	102.0	1090	0.19	09/03/2025	

Batch R370757		SampType: MS		Units mg/L				RPD Limit 15		Date Analyzed
SampID: 25090258-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		1.00		56.9	40.00	13.01	109.8	80	120	09/04/2025
Sulfate		2.00		474	40.00	434.1	99.3	80	120	09/04/2025

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R370757		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 25090258-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		1.00		57.7	40.00	13.01	111.7	56.95	1.32	09/04/2025	
Sulfate		2.00		475	40.00	434.1	102.9	473.8	0.30	09/04/2025	

Batch R370831		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK/ICB											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.05		ND	0.0040	0	0	0	100	09/04/2025	
Chloride		0.50		ND	0.1000	0	0	0	100	09/04/2025	
Sulfate		1.00		ND	0.0990	0	0	0	100	09/04/2025	

Batch R370831		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS/ICV/QCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.05		1.07	1.000	0	106.9	90	110	09/04/2025	
Chloride		0.50		20.7	20.00	0	103.4	90	110	09/04/2025	
Sulfate		1.00		18.3	20.00	0	91.5	90	110	09/04/2025	

Batch R370831		SampType: MS		Units mg/L							Date Analyzed
SampID: 25080029-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.50		11.3	10.00	0.6670	106.5	80	120	09/04/2025	

Batch R370831		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 25080029-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.50		11.3	10.00	0.6670	106.7	11.32	0.18	09/04/2025	

Batch R370831		SampType: MS		Units mg/L							Date Analyzed
SampID: 25080029-003AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.50		11.3	10.00	0.5770	107.1	80	120	09/04/2025	
Chloride		5.00		308	200.0	79.75	114.1	80	120	09/04/2025	
Sulfate		10.0		2490	200.0	2311	88.3	80	120	09/04/2025	



Quality Control Results

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Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R370831		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 25080029-003AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		11.1	10.00	0.5770	105.4	11.28	1.45	09/04/2025
Chloride		5.00		307	200.0	79.75	113.6	308.0	0.35	09/04/2025
Sulfate		10.0		2500	200.0	2311	93.6	2488	0.42	09/04/2025

Batch R370831		SampType: MS		Units mg/L						Date Analyzed
SampID: 25090053-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		13.4	10.00	2.790	106.5	80	120	09/04/2025

Batch R370831		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 25090053-001AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		13.6	10.00	2.790	107.9	13.44	0.98	09/04/2025

Batch R370831		SampType: MS		Units mg/L						Date Analyzed
SampID: 25090245-002AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		11.3	10.00	0.9520	103.4	80	120	09/05/2025
Sulfate		10.0		330	200.0	143.9	92.8	80	120	09/05/2025

Batch R370831		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 25090245-002AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		11.6	10.00	0.9520	106.3	11.30	2.48	09/05/2025
Sulfate		10.0		342	200.0	143.9	99.2	329.5	3.79	09/05/2025

Batch R370831		SampType: MS		Units mg/L						Date Analyzed
SampID: 25090247-004AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		11.3	10.00	0.3140	109.8	80	120	09/05/2025
Chloride		5.00		341	200.0	112.7	114.3	80	120	09/05/2025
Sulfate		10.0		253	200.0	61.91	95.3	80	120	09/05/2025



Quality Control Results

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Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R370831		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 25090247-004AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.50		11.2	10.00	0.3140	108.4	11.29	1.23	09/05/2025	
Chloride		5.00		339	200.0	112.7	113.0	341.4	0.80	09/05/2025	
Sulfate		10.0		251	200.0	61.91	94.4	252.6	0.77	09/05/2025	

Batch R370831		SampType: MS		Units mg/L				RPD Limit 15		Date Analyzed
SampID: 25090322-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		11.6	10.00	0.8500	107.5	80	120	09/05/2025
Chloride		5.00		375	200.0	149.5	112.9	80	120	09/05/2025
Sulfate		10.0		258	200.0	71.00	93.5	80	120	09/05/2025

Batch R370831		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 25090322-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.50		11.6	10.00	0.8500	107.6	11.60	0.16	09/05/2025	
Chloride		5.00		378	200.0	149.5	114.4	375.2	0.81	09/05/2025	
Sulfate		10.0		259	200.0	71.00	94.1	257.9	0.45	09/05/2025	

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 244261		SampType: MBLK		Units mg/L				RPD Limit 15		Date Analyzed
SampID: MBLK-244261										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	09/05/2025
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	09/05/2025
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	09/05/2025

Batch 244261		SampType: LCS		Units mg/L				RPD Limit 15		Date Analyzed
SampID: LCS-244261										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		2.05	2.000	0	102.5	85	115	09/05/2025
Boron		0.0200		0.964	1.000	0	96.4	85	115	09/05/2025
Calcium		0.100		4.96	5.000	0	99.2	85	115	09/05/2025



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 244354 **SampType: MBLK** Units mg/L
 SampID: MBLK-244354

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	09/08/2025
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	09/08/2025
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	09/08/2025

Batch 244354 **SampType: LCS** Units mg/L
 SampID: LCS-244354

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		2.10	2.000	0	105.0	85	115	09/08/2025
Boron		0.0200		1.00	1.000	0	100.0	85	115	09/08/2025
Calcium		0.100		4.81	5.000	0	96.2	85	115	09/08/2025

Batch 244354 **SampType: MS** Units mg/L
 SampID: 25080029-007CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		2.16	2.000	0.03830	106.1	75	125	09/09/2025
Boron		0.0200		1.01	1.000	0	100.6	75	125	09/09/2025
Calcium		0.100		6.56	5.000	1.824	94.7	75	125	09/09/2025

Batch 244354 **SampType: MSD** Units mg/L RPD Limit 20
 SampID: 25080029-007CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0025		2.07	2.000	0.03830	101.6	2.160	4.26	09/09/2025
Boron		0.0200		0.971	1.000	0	97.1	1.006	3.51	09/09/2025
Calcium		0.100		6.32	5.000	1.824	89.9	6.560	3.73	09/09/2025

Batch 244731 **SampType: MBLK** Units mg/L
 SampID: MBLK-244731

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	09/17/2025
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	09/17/2025
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	09/17/2025



Quality Control Results

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Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 244731		SampType: LCS		Units mg/L						
SampID: LCS-244731										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		1.98	2.000	0	98.8	85	115	09/17/2025
Boron		0.0200		0.967	1.000	0	96.7	85	115	09/17/2025
Calcium		0.100		4.78	5.000	0	95.7	85	115	09/17/2025

Batch 244731		SampType: MS		Units mg/L						
SampID: 25091025-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		2.10	2.000	0.1141	99.3	75	125	09/17/2025
Boron		0.0200		6.41	1.000	5.501	91.3	75	125	09/17/2025

Batch 244731		SampType: MSD		Units mg/L							RPD Limit 20
SampID: 25091025-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Barium		0.0025		2.10	2.000	0.1141	99.3	2.100	0.00	09/17/2025	
Boron		0.0200		6.32	1.000	5.501	81.5	6.414	1.53	09/17/2025	

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 244261		SampType: MBLK		Units mg/L						
SampID: MBLK-244261										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010	JS	0.0005	0.0004	0	112.0	-100	100	09/04/2025
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/04/2025
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	09/04/2025
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/04/2025
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/04/2025
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	09/04/2025
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/04/2025
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	09/04/2025
Molybdenum		0.0015		< 0.0015	0.0006	0	0	-100	100	09/05/2025
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	09/04/2025
Thallium		0.0020	S	0.0042	0.0010	0	439.4	-100	100	09/05/2025



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 244261 **SampType:** LCS **Units** mg/L
SampID: LCS-244261

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010	B	1.16	1.000	0	116.0	80	120	09/04/2025
Arsenic		0.0010		0.944	1.000	0	94.4	80	120	09/04/2025
Beryllium		0.0010		0.920	1.000	0	92.0	80	120	09/04/2025
Cadmium		0.0010	E	2.09	2.000	0	104.4	80	120	09/04/2025
Chromium		0.0015		0.888	1.000	0	88.8	80	120	09/04/2025
Cobalt		0.0010		0.885	1.000	0	88.5	80	120	09/04/2025
Lead		0.0010		1.84	2.000	0	92.2	80	120	09/05/2025
Lithium	*	0.0030		0.950	1.000	0	95.0	80	120	09/04/2025
Molybdenum		0.0015		0.975	1.000	0	97.5	80	120	09/05/2025
Selenium		0.0010	S	1.35	1.000	0	134.9	80	120	09/04/2025
Thallium		0.0020	B	0.848	1.000	0	84.8	80	120	09/05/2025

Batch 244261 **SampType:** MS **Units** mg/L
SampID: 25082416-005AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010	BSE	1.26	1.000	0	125.7	75	125	09/04/2025

Batch 244261 **SampType:** MSD **Units** mg/L **RPD Limit** 20
SampID: 25082416-005AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010	B	1.23	1.000	0	123.5	1.257	1.76	09/04/2025



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 244354 **SampType:** MBLK **Units** mg/L
SampID: MBLK-244354

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	09/05/2025
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/05/2025
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	09/05/2025
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/05/2025
Chromium		0.0015	JS	0.0008	0.0007	0	111.5	-100	100	09/05/2025
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/08/2025
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	09/05/2025
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/05/2025
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	09/05/2025
Molybdenum		0.0015	JS	0.0012	0.0006	0	192.9	-100	100	09/08/2025
Molybdenum		0.0015		< 0.0015	0.0006	0	0	-100	100	09/08/2025
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	09/05/2025
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	09/05/2025

Batch 244354 **SampType:** LCS **Units** mg/L
SampID: LCS-244354

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010	SE	1.26	1.000	0	126.3	80	120	09/05/2025
Antimony		0.0010		1.13	1.000	0	112.7	80	120	09/09/2025
Arsenic		0.0010		0.984	1.000	0	98.4	80	120	09/05/2025
Beryllium		0.0010		0.869	1.000	0	86.9	80	120	09/05/2025
Cadmium		0.0010	E	2.28	2.000	0	113.8	80	120	09/05/2025
Chromium		0.0015	B	0.902	1.000	0	90.2	80	120	09/05/2025
Cobalt		0.0010		0.886	1.000	0	88.6	80	120	09/05/2025
Lead		0.0010		1.99	2.000	0	99.7	80	120	09/05/2025
Lithium	*	0.0030		0.880	1.000	0	88.0	80	120	09/05/2025
Molybdenum		0.0015	B	1.01	1.000	0	101.5	80	120	09/08/2025
Molybdenum		0.0015		1.14	1.000	0	113.8	80	120	09/08/2025
Selenium		0.0010		1.07	1.000	0	107.2	80	120	09/05/2025
Thallium		0.0020		0.956	1.000	0	95.6	80	120	09/08/2025



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 244354 **SampType: MS** Units mg/L
 SampID: 25080029-007CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		1.23	1.000	0	122.8	75	125	09/05/2025
Arsenic		0.0010		0.990	1.000	0	99.0	75	125	09/05/2025
Beryllium		0.0010		0.886	1.000	0	88.6	75	125	09/05/2025
Cadmium		0.0010	E	2.22	2.000	0	111.0	75	125	09/05/2025
Chromium		0.0015		0.947	1.000	0.006774	94.1	75	125	09/08/2025
Cobalt		0.0010		0.913	1.000	0.0008026	91.2	75	125	09/05/2025
Lead		0.0010		2.02	2.000	0	101.2	75	125	09/05/2025
Lithium	*	0.0030		0.886	1.000	0.01483	87.1	75	125	09/05/2025
Molybdenum		0.0015	B	0.999	1.000	0.02433	97.5	75	125	09/08/2025
Selenium		0.0010		1.06	1.000	0	106.2	75	125	09/05/2025
Thallium		0.0020		0.924	1.000	0.001940	92.2	75	125	09/08/2025

Batch 244354 **SampType: MSD** Units mg/L
 SampID: 25080029-007CMSD

RPD Limit **20**

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		1.16	1.000	0	116.4	1.228	5.33	09/05/2025
Arsenic		0.0010		0.935	1.000	0	93.5	0.9900	5.67	09/05/2025
Beryllium		0.0010		0.842	1.000	0	84.2	0.8859	5.12	09/05/2025
Cadmium		0.0010	E	2.11	2.000	0	105.5	2.219	5.07	09/05/2025
Chromium		0.0015		0.925	1.000	0.006774	91.8	0.9475	2.38	09/08/2025
Cobalt		0.0010		0.853	1.000	0.0008026	85.2	0.9132	6.81	09/05/2025
Lead		0.0010		1.96	2.000	0	98.0	2.024	3.17	09/05/2025
Lithium	*	0.0030		0.851	1.000	0.01483	83.6	0.8856	4.00	09/05/2025
Molybdenum		0.0015	B	1.01	1.000	0.02433	98.2	0.9994	0.70	09/08/2025
Selenium		0.0010		1.02	1.000	0	101.8	1.062	4.21	09/05/2025
Thallium		0.0020		0.914	1.000	0.001940	91.3	0.9236	0.99	09/08/2025

Batch 244354 **SampType: MS** Units mg/L
 SampID: 25090100-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Lead		0.0010		2.04	2.000	0.01411	101.1	75	125	09/05/2025

Batch 244354 **SampType: MSD** Units mg/L
 SampID: 25090100-002AMSD

RPD Limit **20**

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Lead		0.0010		1.99	2.000	0.01411	98.6	2.036	2.45	09/05/2025



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 244731 **SampType: MBLK** Units mg/L
 SampID: MBLK-244731

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	09/15/2025
Antimony		0.0010	JS	0.0005	0.0004	0	100.1	-100	100	09/16/2025
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/16/2025
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/15/2025
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/16/2025
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	09/15/2025
Molybdenum		0.0015		< 0.0015	0.0006	0	0	-100	100	09/15/2025
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	09/15/2025

Batch 244731 **SampType: LCS** Units mg/L
 SampID: LCS-244731

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010	SE	1.20	1.000	0	120.0	85	115	09/16/2025
Arsenic		0.0010		0.975	1.000	0	97.5	85	115	09/16/2025
Lead		0.0010		1.99	2.000	0	99.3	85	115	09/16/2025
Lithium	*	0.0030		0.911	1.000	0	91.1	85	115	09/15/2025
Molybdenum		0.0015		0.902	1.000	0	90.2	85	115	09/15/2025
Thallium		0.0020		0.862	1.000	0	86.2	85	115	09/15/2025

Batch 244731 **SampType: MS** Units mg/L
 SampID: 25091025-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010	BE	1.27	1.000	0	127.3	70	130	09/16/2025
Arsenic		0.0010		1.02	1.000	0.003287	101.2	70	130	09/16/2025
Lead		0.0010		1.97	2.000	0	98.3	70	130	09/16/2025
Lithium	*	0.0030		0.909	1.000	0.01594	89.3	70	130	09/15/2025

Batch 244731 **SampType: MSD** Units mg/L
 SampID: 25091025-001BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010	BE	1.28	1.000	0	127.9	1.273	0.52	09/16/2025
Arsenic		0.0010		0.991	1.000	0.003287	98.8	1.016	2.40	09/16/2025
Lead		0.0010		1.99	2.000	0	99.4	1.965	1.14	09/16/2025
Lithium	*	0.0030		0.925	1.000	0.01594	91.0	0.9088	1.82	09/15/2025



Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

SW-846 7470A (TOTAL)

Batch 244298		SampType: MBLK		Units mg/L						
SampID: MBLK-244298										
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	09/04/2025

Batch 244298		SampType: LCS		Units mg/L						
SampID: LCS-244298										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00486	0.0050	0	97.1	85	115	09/04/2025

Batch 244298		SampType: MS		Units mg/L						
SampID: 25080029-006CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00490	0.0050	0	98.0	75	125	09/04/2025

Batch 244298		SampType: MSD		Units mg/L						
SampID: 25080029-006CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		0.00483	0.0050	0	96.6	0.004901	1.45	09/04/2025

Batch 244336		SampType: MBLK		Units mg/L						
SampID: MBLK-244336										
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	09/04/2025

Batch 244336		SampType: LCS		Units mg/L						
SampID: LCS-244336										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00444	0.0050	0	88.8	85	115	09/04/2025

Batch 244336		SampType: MS		Units mg/L						
SampID: 25080029-010CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00428	0.0050	0	85.6	75	125	09/04/2025

Batch 244336		SampType: MSD		Units mg/L						
SampID: 25080029-010CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		0.00446	0.0050	0	89.2	0.004280	4.17	09/04/2025



Receiving Check List

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

Client: Southern Illinois Power Cooperation

Work Order: 25080029

Client Project: Groundwater Monitoring

Report Date: 29-Oct-25

Carrier: Allison Lampe

Received By: EK

Completed by:

Reviewed by:

On:

03-Sep-25

Laura E Henson

On:

04-Sep-25

Ellie Hopkins

Pages to follow: Chain of custody

Extra pages included

- Shipping container/cooler in good condition? Yes No Not Present Temp °C **5.7**
- Type of thermal preservation? None Ice Blue Ice Dry Ice
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Reported field parameters measured: Field Lab NA
- Container/Temp Blank temperature in compliance? Yes No

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 No No VOA vials
- Water - TOX containers have zero headspace? Yes No No TOX containers
- Water - pH acceptable upon receipt? Yes No NA
- NPDES/CWA TCN interferences checked/treated in the field? Yes No NA

Any No responses must be detailed below or on the COC.

pH strip #104524. - AMD/lhenson - 9/3/2025 8:27:33 AM

Samples were received on 9/3/25 at 17:42 on ice [9.3C - LTG#5]. pH strip #104524.- lhenson - 9/4/2025 8:37:22 AM

Drop off Location

- Downers Grove, IL
 Lenexa, KS
 Springfield, IL
 Collinsville, IL

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client: Southern Illinois Power Cooperation
Address: 11543 Lake of Egypt Road
City / State / Zip: Marion, IL 62959
Contact: Jason McLaurin **Phone:** (618) 964-1448
E-Mail: jmclaurin@sipower.org **Fax:**

Samples on: ICE BLUE ICE NO ICE °C LTG# _____
Preserved in: LAB FIELD **FOR LAB USE ONLY**
Lab Notes:

Client Comments Report QC LVL: 2
 ICP: Ba B Ca
 ICP/MS: Sb As Be Cd Cr Co Pb Li Mo Se Tl
 Field Parameters = Elevations, Purge Volume, pH, Conductivity, Temperature, DO, ORP, and Turbidity

Are these samples known to be involved in litigation? If yes, a surcharge will apply Yes No
 Are these samples known to be hazardous? If yes, include details of the hazard. Yes No
 Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. Yes No

Project Name/Number Groundwater Monitoring
Sample Collector's Name

Results Requested (call for PFAS TAT and surcharges) Standard 1-2 Day (100% Surcharge)
 Date _____ 3 Day (50% Surcharge)

Lab Use Only	Sample Identification	Date/Time Sampled	Billing/PO#		# and Type of Containers															
			UNP	HNO3																
25080029-011	Field Duplicate		1	4																

MATRIX	INDICATE ANALYSIS REQUESTED												
	Aqueous	Groundwater	Cl SO4 F-	Field Parameters	ICP Metals	ICP/MS Metals	Mercury	Ra226/228	TDS				
X		X	X	X	X	X	X	X					

Relinquished By	Date/Time	Received By	Date/Time
		<i>Emily Kowalski</i>	9/21/25 1710

Drop off Location

- Downers Grove, IL Lenexa, KS
 Springfield, IL Collinsville, IL

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client: Southern Illinois Power Cooperation
Address: 11543 Lake of Egypt Road
City / State / Zip: Marion, IL 62959
Contact: Jason McLaurin **Phone:** (618) 964-1448
E-Mail: jmclaurin@sipower.org **Fax:**

Samples on: ICE BLUE ICE NO ICE 9.3 °C **LTG#** 5
Preserved in: LAB FIELD **FOR LAB USE ONLY**
Lab Notes: PHN 104524
 ut 9/4/25

Client Comments Report QC LVL: 2
 ICP: Ba B Ca
 ICP/MS: Sb As Be Cd Cr Co Pb Li Mo Se Tl
 Field Parameters = Elevations, Purge Volume, pH, Conductivity, Temperature, DO, ORP, and Turbidity

Are these samples known to be involved in litigation? If yes, a surcharge will apply Yes No
 Are these samples known to be hazardous? If yes, include details of the hazard. Yes No
 Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section. Yes No

Project Name/Number Groundwater Monitoring
Sample Collector's Name Allison Lampe

Results Requested (call for PFAS TAT and surcharges)
 Standard 1-2 Day (100% Surcharge)
 Date 3 Day (50% Surcharge)

Lab Use Only	Sample Identification	Date/Time Sampled	Billing/PO#		# and Type of Containers			
			UNP	HNO3				
25080029-001	EBG		1	4				
-002	EP-1		1	4				
-003	EP-2	9-03-25 1334	1	4				
-004	EP-3	9-03-25 1218	1	4				
-005	EP-4	9-03-25 1217	1	4				
-006	EP-5		1	4				
-007	EP-6	9-03-25 1445	1	4				
-008	EP-7	9-03-25 1504	1	4				
-009	Equipment Blank	9-03-25 1516	1	4				
-010	Field Blank	9-03-25 1217	1	4				

MATRIX	INDICATE ANALYSIS REQUESTED									
	CI SO4 F-	Field Parameters	ICP Metals	ICP/MS Metals	Mercury	Ra226/228	TDS			
Aqueous										
Groundwater	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X			
	X	X	X	X	X	X	X			

Relinquished By	Date/Time	Received By	Date/Time
Allison Lampe	9-03-25 1742	[Signature]	9/3/25 1742



*Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>*

October 28, 2025

Elizabeth Hurley
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:
RE: 25080029

Order No.: 25090555

Dear Elizabeth Hurley:

Alliance Technical Group - Akron received 11 sample(s) on 9/8/2025 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

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

Sincerely,

A handwritten signature in black ink that reads "Jennifer M. Woolf". The signature is written in a cursive, flowing style.

Jennifer Woolf
Project Manager
3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C



Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Case Narrative

WO#: 25090555
Date: 10/28/2025

CLIENT: TEKLAB Inc,
Project: 25080029

WorkOrder Narrative:

25090555: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Sequence QC Notes:

LCS/LCSD-89202 Radium-226_DW(903.0): LCS and LCSD exhibit high RPD. Both LCS and LCSD individually meet criteria

Original

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	RL	Reporting Limit
QC	Quality Control	MDL	Method Detection Limit
MB	Method Blank	LOD	Level of Detection
LCS	Laboratory Control Sample	LOQ	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	PQL	Practical Quantitation Limit
QCS	Quality Control Sample	CRQL	Contract Required Quantitation Limit
DUP	Duplicate	PL	Permit Limit
MS	Matrix Spike	RegLvl	Regulatory Limit
MSD	Matrix Spike Duplicate	MCL	Maximum Contamination Limit
RPD	Relative Percent Different	MinCL	Minimum Compound Limit
ICV	Initial Calibration Verification	RA	Reanalysis
ICB	Initial Calibration Blank	RE	Reextraction
CCV	Continuing Calibration Verification	TIC	Tentatively Identified Compound
CCB	Continuing Calibration Blank	RT	Retention Time
RLC	Reporting Limit Check	CF	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.



Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Workorder
Sample Summary
WO#: 25090555
28-Oct-25

CLIENT: TEKLAB Inc,
Project: 25080029

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
25090555-001	25080029-001B		9/2/2025 11:31:00 AM	9/8/2025 4:30:00 PM	Non-Potable Water
25090555-002	25080029-002B		9/2/2025 2:19:00 PM	9/8/2025 4:30:00 PM	Non-Potable Water
25090555-003	25080029-003B		9/3/2025 1:34:00 PM	9/8/2025 4:30:00 PM	Non-Potable Water
25090555-004	25080029-004B		9/3/2025 12:18:00 PM	9/8/2025 4:30:00 PM	Non-Potable Water
25090555-005	25080029-005B		9/3/2025 12:17:00 PM	9/8/2025 4:30:00 PM	Non-Potable Water
25090555-006	25080029-006B		9/2/2025 1:10:00 PM	9/8/2025 4:30:00 PM	Non-Potable Water
25090555-007	25080029-007B		9/3/2025 2:45:00 PM	9/8/2025 4:30:00 PM	Non-Potable Water
25090555-008	25080029-008B		9/3/2025 3:04:00 PM	9/8/2025 4:30:00 PM	Non-Potable Water
25090555-009	25080029-009B		9/3/2025 3:18:00 PM	9/8/2025 4:30:00 PM	Non-Potable Water
25090555-010	25080029-010B		9/3/2025 12:17:00 PM	9/8/2025 4:30:00 PM	Non-Potable Water
25090555-011	25080029-011B		9/3/2025 12:17:00 PM	9/8/2025 4:30:00 PM	Non-Potable Water



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DATES REPORT

WO#: 25090555
 28-Oct-25

Client: TEKLAB Inc,
Project: 25080029

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25090555-001A	25080029-001B	9/2/2025 11:31:00 AM	Non-Potable Water	Combined Radium (EPA903+904)		10/10/2025 1:05:53 PM	10/21/2025 8:34:00 AM
				Radium-226 (EPA 903.0)		10/10/2025 1:05:53 PM	10/21/2025 8:34:00 AM
				Radium-228 (EPA 904.0)		10/10/2025 1:05:53 PM	10/17/2025 1:11:00 PM
25090555-002A	25080029-002B	9/2/2025 2:19:00 PM		Combined Radium (EPA903+904)		10/10/2025 1:05:53 PM	10/21/2025 8:34:00 AM
				Radium-226 (EPA 903.0)		10/10/2025 1:05:53 PM	10/21/2025 8:34:00 AM
				Radium-228 (EPA 904.0)		10/10/2025 1:05:53 PM	10/17/2025 1:11:00 PM
25090555-003A	25080029-003B	9/3/2025 1:34:00 PM		Combined Radium (EPA903+904)		10/10/2025 1:05:53 PM	10/21/2025 8:34:00 AM
				Radium-226 (EPA 903.0)		10/10/2025 1:05:53 PM	10/21/2025 8:34:00 AM
				Radium-228 (EPA 904.0)		10/10/2025 1:05:53 PM	10/17/2025 1:11:00 PM
25090555-004A	25080029-004B	9/3/2025 12:18:00 PM		Combined Radium (EPA903+904)		10/10/2025 1:05:53 PM	10/21/2025 8:34:00 AM
				Radium-226 (EPA 903.0)		10/10/2025 1:05:53 PM	10/21/2025 8:34:00 AM
				Radium-228 (EPA 904.0)		10/10/2025 1:05:53 PM	10/17/2025 1:11:00 PM
25090555-005A	25080029-005B	9/3/2025 12:17:00 PM		Combined Radium (EPA903+904)		10/10/2025 1:05:53 PM	10/21/2025 8:34:00 AM
				Radium-226 (EPA 903.0)		10/10/2025 1:05:53 PM	10/21/2025 8:34:00 AM
				Radium-228 (EPA 904.0)		10/10/2025 1:05:53 PM	10/17/2025 1:11:00 PM
25090555-006A	25080029-006B	9/2/2025 1:10:00 PM		Combined Radium (EPA903+904)		10/10/2025 1:05:53 PM	10/21/2025 8:34:00 AM
				Radium-226 (EPA 903.0)		10/10/2025 1:05:53 PM	10/21/2025 8:34:00 AM
				Radium-228 (EPA 904.0)		10/10/2025 1:05:53 PM	10/17/2025 1:11:00 PM
25090555-007A	25080029-007B	9/3/2025 2:45:00 PM		Combined Radium (EPA903+904)		10/10/2025 1:05:53 PM	10/21/2025 8:34:00 AM
				Radium-226 (EPA 903.0)		10/10/2025 1:05:53 PM	10/21/2025 8:34:00 AM
				Radium-228 (EPA 904.0)		10/10/2025 1:05:53 PM	10/17/2025 1:11:00 PM
25090555-008A	25080029-008B	9/3/2025 3:04:00 PM		Combined Radium (EPA903+904)		10/10/2025 1:05:53 PM	10/21/2025 8:34:00 AM
				Radium-226 (EPA 903.0)		10/10/2025 1:05:53 PM	10/21/2025 8:34:00 AM

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DATES REPORT

WO#: 25090555
 28-Oct-25

Client: TEKLAB Inc,
Project: 25080029

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25090555-008A	25080029-008B	9/3/2025 3:04:00 PM	Non-Potable Water	Radium-228 (EPA 904.0)		10/10/2025 1:05:53 PM	10/17/2025 1:11:00 PM
25090555-009A	25080029-009B	9/3/2025 3:18:00 PM		Combined Radium (EPA903+904)		10/14/2025 9:03:22 PM	10/22/2025 10:36:00 AM
				Radium-226 (EPA 903.0)		10/14/2025 9:03:22 PM	10/22/2025 10:36:00 AM
				Radium-228 (EPA 904.0)		10/14/2025 9:03:22 PM	10/20/2025 2:34:00 PM
25090555-010A	25080029-010B	9/3/2025 12:17:00 PM		Combined Radium (EPA903+904)		10/14/2025 9:03:22 PM	10/22/2025 10:36:00 AM
				Radium-226 (EPA 903.0)		10/14/2025 9:03:22 PM	10/22/2025 10:36:00 AM
				Radium-228 (EPA 904.0)		10/14/2025 9:03:22 PM	10/20/2025 2:34:00 PM
25090555-011A	25080029-011B			Combined Radium (EPA903+904)		10/14/2025 9:03:22 PM	10/22/2025 10:36:00 AM
				Radium-226 (EPA 903.0)		10/14/2025 9:03:22 PM	10/22/2025 10:36:00 AM
				Radium-228 (EPA 904.0)		10/14/2025 9:03:22 PM	10/20/2025 2:34:00 PM

Original



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Analytical Report

(consolidated)

WO#: 25090555

Date Reported: 10/28/2025

CLIENT: TEKLAB Inc,
Project: 25080029
Lab ID: 25090555-001
Client Sample ID: 25080029-001B

Collection Date: 9/2/2025 11:31:00 AM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228								
COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0	2.00	2.00	U	pCi/L	± 0.45	1	10/21/2025 8:34:00 AM
RAD226/228								
RADIUM-226 (EPA 903.0)								
Radium-226	-0.05	0.627	1.00	U	pCi/L	± 0.04	1	10/21/2025 8:34:00 AM
Yield	1						1	10/21/2025 8:34:00 AM
RAD226/228								
RADIUM-228 (EPA 904.0)								
Radium-228	-0.54	0.640	1.00	U	pCi/L	± 0.41	1	10/17/2025 1:11:00 PM
Yield	1						1	10/17/2025 1:11:00 PM

Qualifiers:

- | | | | |
|----|--|----|---|
| H | Holding times for preparation or analysis exceeded | M | Manual Integration used to determine area response |
| ND | Not Detected | PL | Permit Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| U | Samples with CalcVal < MDL | W | Sample container temperature is out of limit as specified at testcode |



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Analytical Report

(consolidated)

WO#: 25090555

Date Reported: 10/28/2025

CLIENT: TEKLAB Inc,
Project: 25080029
Lab ID: 25090555-002
Client Sample ID: 25080029-002B

Collection Date: 9/2/2025 2:19:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 EPA903+904 900 SERIES Analyst: SEE								
COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0.19	2.00	2.00	U	pCi/L	± 0.39	1	10/21/2025 8:34:00 AM
RAD226/228 EPA 903.0 1980 900 SERIES Analyst: SEE								
RADIUM-226 (EPA 903.0)								
Radium-226	0.06	0.627	1.00	U	pCi/L	± 0.04	1	10/21/2025 8:34:00 AM
Yield		1					1	10/21/2025 8:34:00 AM
RAD226/228 EPA 904.0 1980 900 SERIES Analyst: SEE								
RADIUM-228 (EPA 904.0)								
Radium-228	0.13	0.640	1.00	U	pCi/L	± 0.35	1	10/17/2025 1:11:00 PM
Yield		1					1	10/17/2025 1:11:00 PM

Qualifiers: H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response
 ND Not Detected PL Permit Limit
 R RPD outside accepted recovery limits RL Reporting Detection Limit
 U Samples with CalcVal < MDL W Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 25090555

Date Reported: 10/28/2025

CLIENT: TEKLAB Inc,
Project: 25080029
Lab ID: 25090555-003
Client Sample ID: 25080029-003B

Collection Date: 9/3/2025 1:34:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 EPA903+904 900 SERIES Analyst: SEE COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0.61	2.00	2.00	U	pCi/L	± 0.52	1	10/21/2025 8:34:00 AM
RAD226/228 EPA 903.0 1980 900 SERIES Analyst: SEE RADIUM-226 (EPA 903.0)								
Radium-226	0.24	0.627	1.00	U	pCi/L	± 0.08	1	10/21/2025 8:34:00 AM
Yield	0.71						1	10/21/2025 8:34:00 AM
RAD226/228 EPA 904.0 1980 900 SERIES Analyst: SEE RADIUM-228 (EPA 904.0)								
Radium-228	0.37	0.640	1.00	U	pCi/L	± 0.44	1	10/17/2025 1:11:00 PM
Yield	0.77						1	10/17/2025 1:11:00 PM

Qualifiers: H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response
 ND Not Detected PL Permit Limit
 R RPD outside accepted recovery limits RL Reporting Detection Limit
 U Samples with CalcVal < MDL W Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 25090555

Date Reported: 10/28/2025

CLIENT: TEKLAB Inc,
Project: 25080029
Lab ID: 25090555-004
Client Sample ID: 25080029-004B

Collection Date: 9/3/2025 12:18:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 EPA903+904 900 SERIES Analyst: SEE COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0.72	2.00	2.00	U	pCi/L	± 0.48	1	10/21/2025 8:34:00 AM
RAD226/228 EPA 903.0 1980 900 SERIES Analyst: SEE RADIUM-226 (EPA 903.0)								
Radium-226	0.3	0.627	1.00	U	pCi/L	± 0.07	1	10/21/2025 8:34:00 AM
Yield	0.91						1	10/21/2025 8:34:00 AM
RAD226/228 EPA 904.0 1980 900 SERIES Analyst: SEE RADIUM-228 (EPA 904.0)								
Radium-228	0.42	0.640	1.00	U	pCi/L	± 0.41	1	10/17/2025 1:11:00 PM
Yield	0.92						1	10/17/2025 1:11:00 PM

Qualifiers: H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response
 ND Not Detected PL Permit Limit
 R RPD outside accepted recovery limits RL Reporting Detection Limit
 U Samples with CalcVal < MDL W Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 25090555

Date Reported: 10/28/2025

CLIENT: TEKLAB Inc,
Project: 25080029
Lab ID: 25090555-005
Client Sample ID: 25080029-005B

Collection Date: 9/3/2025 12:17:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 EPA903+904 900 SERIES Analyst: SEE COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0.41	2.00	2.00	U	pCi/L	± 0.38	1	10/21/2025 8:34:00 AM
RAD226/228 EPA 903.0 1980 900 SERIES Analyst: SEE RADIUM-226 (EPA 903.0)								
Radium-226	0.14	0.627	1.00	U	pCi/L	± 0.05	1	10/21/2025 8:34:00 AM
Yield	1						1	10/21/2025 8:34:00 AM
RAD226/228 EPA 904.0 1980 900 SERIES Analyst: SEE RADIUM-228 (EPA 904.0)								
Radium-228	0.27	0.640	1.00	U	pCi/L	± 0.33	1	10/17/2025 1:11:00 PM
Yield	1						1	10/17/2025 1:11:00 PM

Qualifiers: H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response
 ND Not Detected PL Permit Limit
 R RPD outside accepted recovery limits RL Reporting Detection Limit
 U Samples with CalcVal < MDL W Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 25090555

Date Reported: 10/28/2025

CLIENT: TEKLAB Inc,
Project: 25080029
Lab ID: 25090555-006
Client Sample ID: 25080029-006B

Collection Date: 9/2/2025 1:10:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228								
COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0.68	2.00	2.00	U	pCi/L	± 0.46	1	10/21/2025 8:34:00 AM
RAD226/228								
RADIUM-226 (EPA 903.0)								
Radium-226	0.07	0.627	1.00	U	pCi/L	± 0.04	1	10/21/2025 8:34:00 AM
Yield							1	10/21/2025 8:34:00 AM
RAD226/228								
RADIUM-228 (EPA 904.0)								
Radium-228	0.61	0.640	1.00	U	pCi/L	± 0.42	1	10/17/2025 1:11:00 PM
Yield							1	10/17/2025 1:11:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 25090555

Date Reported: 10/28/2025

CLIENT: TEKLAB Inc,
Project: 25080029
Lab ID: 25090555-007
Client Sample ID: 25080029-007B

Collection Date: 9/3/2025 2:45:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed	
RAD226/228									
COMBINED RADIUM (EPA903+904)							EPA903+904	900 SERIES	Analyst: SEE
Radium-226/Radium-228	0.41	2.00	2.00	U	pCi/L	± 0.38	1	10/21/2025 8:34:00 AM	
RAD226/228									
RADIUM-226 (EPA 903.0)							EPA 903.0 1980	900 SERIES	Analyst: SEE
Radium-226	0	0.627	1.00	U	pCi/L	± 0.03	1	10/21/2025 8:34:00 AM	
Yield	1						1	10/21/2025 8:34:00 AM	
RAD226/228									
RADIUM-228 (EPA 904.0)							EPA 904.0 1980	900 SERIES	Analyst: SEE
Radium-228	0.41	0.640	1.00	U	pCi/L	± 0.35	1	10/17/2025 1:11:00 PM	
Yield	1						1	10/17/2025 1:11:00 PM	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 25090555

Date Reported: 10/28/2025

CLIENT: TEKLAB Inc,
Project: 25080029
Lab ID: 25090555-008
Client Sample ID: 25080029-008B

Collection Date: 9/3/2025 3:04:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228								
COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0.55	2.00	2.00	U	pCi/L	± 0.43	1	10/21/2025 8:34:00 AM
EPA903+904 900 SERIES Analyst: SEE								
RAD226/228								
RADIUM-226 (EPA 903.0)								
Radium-226	0.11	0.627	1.00	U	pCi/L	± 0.04	1	10/21/2025 8:34:00 AM
Yield	1						1	10/21/2025 8:34:00 AM
EPA 903.0 1980 900 SERIES Analyst: SEE								
RAD226/228								
RADIUM-228 (EPA 904.0)								
Radium-228	0.44	0.640	1.00	U	pCi/L	± 0.39	1	10/17/2025 1:11:00 PM
Yield	1						1	10/17/2025 1:11:00 PM
EPA 904.0 1980 900 SERIES Analyst: SEE								

Qualifiers: H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response
 ND Not Detected PL Permit Limit
 R RPD outside accepted recovery limits RL Reporting Detection Limit
 U Samples with CalcVal < MDL W Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 25090555

Date Reported: 10/28/2025

CLIENT: TEKLAB Inc,
Project: 25080029
Lab ID: 25090555-009
Client Sample ID: 25080029-009B

Collection Date: 9/3/2025 3:18:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 EPA903+904 900 SERIES Analyst: SEE COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0.08	2.00	2.00	U	pCi/L	± 1.06	1	10/22/2025 10:36:00 AM
RAD226/228 EPA 903.0 1980 900 SERIES Analyst: SEE RADIUM-226 (EPA 903.0)								
Radium-226	0.08	0.627	1.00	U	pCi/L	± 0.07	1	10/22/2025 10:36:00 AM
Yield	1						1	10/22/2025 10:36:00 AM
RAD226/228 EPA 904.0 1980 900 SERIES Analyst: SEE RADIUM-228 (EPA 904.0)								
Radium-228	-1.38	0.640	1.00	U	pCi/L	± 0.99	1	10/20/2025 2:34:00 PM
Yield	1						1	10/20/2025 2:34:00 PM

Qualifiers: H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response
 ND Not Detected PL Permit Limit
 R RPD outside accepted recovery limits RL Reporting Detection Limit
 U Samples with CalcVal < MDL W Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 25090555

Date Reported: 10/28/2025

CLIENT: TEKLAB Inc,
Project: 25080029
Lab ID: 25090555-010
Client Sample ID: 25080029-010B

Collection Date: 9/3/2025 12:17:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228								
COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0	2.00	2.00	U	pCi/L	± 0.99	1	10/22/2025 10:36:00 AM
RAD226/228								
RADIUM-226 (EPA 903.0)								
Radium-226	-0.12	0.627	1.00	U	pCi/L	± 0.07	1	10/22/2025 10:36:00 AM
Yield	1						1	10/22/2025 10:36:00 AM
RAD226/228								
RADIUM-228 (EPA 904.0)								
Radium-228	-0.77	0.640	1.00	U	pCi/L	± 0.92	1	10/20/2025 2:34:00 PM
Yield	1						1	10/20/2025 2:34:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode



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Analytical Report

(consolidated)

WO#: 25090555

Date Reported: 10/28/2025

CLIENT: TEKLAB Inc,
Project: 25080029
Lab ID: 25090555-011
Client Sample ID: 25080029-011B

Collection Date: 9/3/2025 12:17:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 EPA903+904 900 SERIES Analyst: SEE								
COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	1.07	2.00	2.00	U	pCi/L	± 0.93	1	10/22/2025 10:36:00 AM
RAD226/228 EPA 903.0 1980 900 SERIES Analyst: SEE								
RADIUM-226 (EPA 903.0)								
Radium-226	0.21	0.627	1.00	U	pCi/L	± 0.07	1	10/22/2025 10:36:00 AM
Yield	1						1	10/22/2025 10:36:00 AM
RAD226/228 EPA 904.0 1980 900 SERIES Analyst: SEE								
RADIUM-228 (EPA 904.0)								
Radium-228	0.86	0.640	1.00	J	pCi/L	± 0.86	1	10/20/2025 2:34:00 PM
Yield	1						1	10/20/2025 2:34:00 PM

Qualifiers: H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response
 ND Not Detected PL Permit Limit
 R RPD outside accepted recovery limits RL Reporting Detection Limit
 U Samples with CalcVal < MDL W Sample container temperature is out of limit as specified at testcode



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 Cuyahoga Falls, Ohio 44223
 TEL: (330) 253-8211 FAX: (330) 253-4489
 Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 25090555
 28-Oct-25

Client: TEKLAB Inc,
Project: 25080029

BatchID: 89046

Sample ID: 25090555-007ADUP	SampType: DUP	TestCode: Radium-228_	Units: pCi/L	Prep Date: 10/10/2025	RunNo: 219201						
Client ID: 25080029-007B	Batch ID: 89046	TestNo: E904.0	E903-904	Analysis Date: 10/17/2025	SeqNo: 5845584						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	-0.02	1.00		0	0			0	0	30	U
Yield	1			0	0			1.000	0		

Sample ID: 25090555-008ADUP	SampType: DUP	TestCode: Radium-228_	Units: pCi/L	Prep Date: 10/10/2025	RunNo: 219201						
Client ID: 25080029-008B	Batch ID: 89046	TestNo: E904.0	E903-904	Analysis Date: 10/17/2025	SeqNo: 5845586						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.11	1.00		0	0			0	0	30	U
Yield	1			0	0			1.000	0		

Qualifiers: H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits M Manual Integration used to determine area response
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit U Samples with CalcVal < MDL W Sample container temperature is out of limit as spec

Original



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QC SUMMARY REPORT

WO#: 25090555
 28-Oct-25

Client: TEKLAB Inc,
Project: 25080029

BatchID: 89046

Sample ID: MB-89046	SampType: MBLK	TestCode: Radium-228_	Units: pCi/L	Prep Date: 10/10/2025	RunNo: 219201						
Client ID: BatchQC	Batch ID: 89046	TestNo: E904.0	E903-904	Analysis Date: 10/17/2025	SeqNo: 5845559						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						U
Yield	1.00			0	0						

Sample ID: LCS-89046	SampType: LCS	TestCode: Radium-228_	Units: pCi/L	Prep Date: 10/10/2025	RunNo: 219201						
Client ID: BatchQC	Batch ID: 89046	TestNo: E904.0	E903-904	Analysis Date: 10/17/2025	SeqNo: 5845560						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.12	1.00	5.000	0	82.4	50	130				
Yield	1.00			0	0						

Sample ID: LCSD-89046	SampType: LCSD	TestCode: Radium-228_	Units: pCi/L	Prep Date: 10/10/2025	RunNo: 219201						
Client ID: BatchQC	Batch ID: 89046	TestNo: E904.0	E903-904	Analysis Date: 10/17/2025	SeqNo: 5845561						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.57	1.00	5.000	0	71.4	50	130	4.120	14.3	20	
Yield	1.00			0	0			1.000	0		

Qualifiers: H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits M Manual Integration used to determine area response
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit U Samples with CalcVal < MDL W Sample container temperature is out of limit as specified

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QC SUMMARY REPORT

WO#: 25090555
 28-Oct-25

Client: TEKLAB Inc,
Project: 25080029

BatchID: 89046

Sample ID: 25090555-007ADUP	SampType: DUP	TestCode: Radium-226_	Units: pCi/L	Prep Date: 10/10/2025	RunNo: 219204						
Client ID: 25080029-007B	Batch ID: 89046	TestNo: E903.0	E903-904	Analysis Date: 10/21/2025	SeqNo: 5845636						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	0.1	1.00						0	0	30	U
Yield	0.99							1.000	1.01	0	

Sample ID: 25090555-008ADUP	SampType: DUP	TestCode: Radium-226_	Units: pCi/L	Prep Date: 10/10/2025	RunNo: 219204						
Client ID: 25080029-008B	Batch ID: 89046	TestNo: E903.0	E903-904	Analysis Date: 10/21/2025	SeqNo: 5845638						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	0.09	1.00						0	0	30	U
Yield	1							1.000	0	0	

Qualifiers: H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits M Manual Integration used to determine area response
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit U Samples with CalcVal < MDL W Sample container temperature is out of limit as spec

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QC SUMMARY REPORT

WO#: 25090555
 28-Oct-25

Client: TEKLAB Inc,
Project: 25080029

BatchID: 89046

Sample ID: MB-89046	SampType: MBLK	TestCode: Radium-226_	Units: pCi/L	Prep Date: 10/10/2025	RunNo: 219204						
Client ID: BatchQC	Batch ID: 89046	TestNo: E903.0	E903-904	Analysis Date: 10/21/2025	SeqNo: 5845618						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									U
Yield	1.00										

Sample ID: LCS-89046	SampType: LCS	TestCode: Radium-226_	Units: pCi/L	Prep Date: 10/10/2025	RunNo: 219204						
Client ID: BatchQC	Batch ID: 89046	TestNo: E903.0	E903-904	Analysis Date: 10/21/2025	SeqNo: 5845619						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.96	1.00	5.000	0	99.2	70	130				

Sample ID: LCSD-89046	SampType: LCSD	TestCode: Radium-226_	Units: pCi/L	Prep Date: 10/10/2025	RunNo: 219204						
Client ID: BatchQC	Batch ID: 89046	TestNo: E903.0	E903-904	Analysis Date: 10/21/2025	SeqNo: 5845620						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.15	1.00	5.000	0	103	70	130	4.960	3.76	20	

Qualifiers: H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits M Manual Integration used to determine area response
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit U Samples with CalcVal < MDL W Sample container temperature is out of limit as spec

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QC SUMMARY REPORT

WO#: 25090555
 28-Oct-25

Client: TEKLAB Inc,
Project: 25080029

BatchID: 89202

Sample ID: MB-89202	SampType: MBLK	TestCode: Radium-228_	Units: pCi/L	Prep Date: 10/14/2025	RunNo: 219280						
Client ID: BatchQC	Batch ID: 89202	TestNo: E904.0	E903-904	Analysis Date: 10/20/2025	SeqNo: 5847395						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						U
Yield	0.500			0	0						

Sample ID: LCS-89202	SampType: LCS	TestCode: Radium-228_	Units: pCi/L	Prep Date: 10/14/2025	RunNo: 219280						
Client ID: BatchQC	Batch ID: 89202	TestNo: E904.0	E903-904	Analysis Date: 10/20/2025	SeqNo: 5847396						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.36	1.00	5.000	0	67.2	50	130				
Yield	1.00			0	0						

Sample ID: LCSD-89202	SampType: LCSD	TestCode: Radium-228_	Units: pCi/L	Prep Date: 10/14/2025	RunNo: 219280						
Client ID: BatchQC	Batch ID: 89202	TestNo: E904.0	E903-904	Analysis Date: 10/20/2025	SeqNo: 5847397						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.00	1.00	5.000	0	80.0	50	130	3.360	17.4	20	
Yield	1.00			0	0			1.000	0		

Qualifiers: H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits M Manual Integration used to determine area response
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit U Samples with CalcVal < MDL W Sample container temperature is out of limit as spec

Original



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QC SUMMARY REPORT

WO#: 25090555
 28-Oct-25

Client: TEKLAB Inc,
Project: 25080029

BatchID: 89202

Sample ID: 25090648-001ADUP	SampType: DUP	TestCode: Radium-228_	Units: pCi/L	Prep Date: 10/14/2025	RunNo: 219280						
Client ID: BatchQC	Batch ID: 89202	TestNo: E904.0	E903-904	Analysis Date: 10/20/2025	SeqNo: 5847493						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.770	1.00		0	0			0.8700	12.2	20	J
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified

Original



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QC SUMMARY REPORT

WO#: 25090555
 28-Oct-25

Client: TEKLAB Inc,
Project: 25080029

BatchID: 89202

Sample ID: MB-89202	SampType: MBLK	TestCode: Radium-226_	Units: pCi/L	Prep Date: 10/14/2025	RunNo: 219290						
Client ID: BatchQC	Batch ID: 89202	TestNo: E903.0	E903-904	Analysis Date: 10/22/2025	SeqNo: 5847634						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									U
Yield	1.00										

Sample ID: LCS-89202	SampType: LCS	TestCode: Radium-226_	Units: pCi/L	Prep Date: 10/14/2025	RunNo: 219290						
Client ID: BatchQC	Batch ID: 89202	TestNo: E903.0	E903-904	Analysis Date: 10/22/2025	SeqNo: 5847635						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.94	1.00	5.000	0	98.8	70	130				QLR

Sample ID: LCSD-89202	SampType: LCSD	TestCode: Radium-226_	Units: pCi/L	Prep Date: 10/14/2025	RunNo: 219290						
Client ID: BatchQC	Batch ID: 89202	TestNo: E903.0	E903-904	Analysis Date: 10/22/2025	SeqNo: 5847636						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	6.26	1.00	5.000	0	125	70	130	4.940	23.6	20	R

Sample ID: 25090645-001ADUP	SampType: DUP	TestCode: Radium-226_	Units: pCi/L	Prep Date: 10/14/2025	RunNo: 219290						
Client ID: BatchQC	Batch ID: 89202	TestNo: E903.0	E903-904	Analysis Date: 10/22/2025	SeqNo: 5847781						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits M Manual Integration used to determine area response
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit U Samples with CalcVal < MDL W Sample container temperature is out of limit as specified

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 TEL: (330) 253-8211 FAX: (330) 253-4489
 Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 25090555
 28-Oct-25

Client: TEKLAB Inc,
Project: 25080029

BatchID: 89202

Sample ID: 25090645-001ADUP	SampType: DUP	TestCode: Radium-226_	Units: pCi/L	Prep Date: 10/14/2025	RunNo: 219290						
Client ID: BatchQC	Batch ID: 89202	TestNo: E903.0	E903-904	Analysis Date: 10/22/2025	SeqNo: 5847781						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.44	1.00						1.300	10.2	20	
Yield	1.00							1.000	0	0	

Sample ID: 25090648-001ADUP	SampType: DUP	TestCode: Radium-226_	Units: pCi/L	Prep Date: 10/14/2025	RunNo: 219290						
Client ID: BatchQC	Batch ID: 89202	TestNo: E903.0	E903-904	Analysis Date: 10/22/2025	SeqNo: 5847783						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	U
Yield	1.00							1.000	0	0	

Qualifiers: H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits M Manual Integration used to determine area response
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit U Samples with CalcVal < MDL W Sample container temperature is out of limit as spec

Original

26090555

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES NO With: Ice Blue Ice Preserved in: Lab Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: QC Level:

Project#

Comments: **Please Issue reports and invoices via email only**
SHIP to ATG-Akron. Include EDD. Please analyze for Radium 226/228 (including combined Radium) per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.

Contact: Email:
Requested Due Date: Billing/PO:

Phone: State of Sample Origin = IL

20.6 °C =
20.4 + 0.2

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228													
	25080029-001B	9/2/25 11:31	HNO3	Groundwater	✓													38 32 42
	25080029-002B	9/2/25 14:19	HNO3	Groundwater	✓													24 34 28
	25080029-003B	9/3/25 13:34	HNO3	Groundwater	✓													36 20 26
	25080029-004B	9/3/25 12:18	HNO3	Groundwater	✓			4										30 24 30
	25080029-005B	9/3/25 12:17	HNO3	Groundwater	✓													36 32 24
	25080029-006B	9/2/25 13:10	HNO3	Groundwater	✓													48 28 34
	25080029-007B	9/3/25 14:45	HNO3	Groundwater	✓													20 30 20
	25080029-008B	9/3/25 15:04	HNO3	Groundwater	✓													32 30 26
	25080029-009B	9/3/25 15:18	HNO3	Aqueous	✓													24 26 30
	25080029-010B	9/3/25 12:17	HNO3	Aqueous	✓													10 24 24
	25080029-011B	9/3/25 12:17	HNO3	Groundwater	✓													20 42 38

*Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	9/4/25 17:00	<i>[Signature]</i>	9/12/25 16:30 FedEx

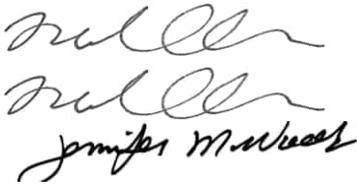
cuber seals
9/14/25

Sample Log-In Check List

Client Name: **TEK-IL-62234-A**

Work Order Number: **25090555**

RcptNo: **1**

Logged by:	Maggie M. Grmek	9/8/2025 4:30:00 PM	
Completed By:	Maggie M. Grmek	9/9/2025 9:38:01 AM	
Reviewed By:	Jennifer Woolf	9/10/2025 1:23:43 PM	

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
- Custody seals intact on shipping container/cooler? Yes No Not Present NA
- No. Seal Date: 9/4/2025 Signed By:
5. Was an attempt made to cool the samples? Yes No NA
6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- Not required**
7. Sample(s) in proper container(s)? Yes No
8. Sufficient sample volume for indicated test(s)? Yes No
9. Are samples (except VOA and ONG) properly preserved? Yes No
10. Was preservative added to bottles? Yes No NA
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
12. Were any sample containers received broken? Yes No
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
14. Are matrices correctly identified on Chain of Custody? Yes No
15. Is it clear what analyses were requested? Yes No
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	20.6	Good	Yes		9/4/2025	

APPENDIX C

2025 Data Usability Assessment Report

QA LEVEL I - DATA VERIFICATION CHECKLIST

Project Name: SIPC Groundwater Monitoring

Project Number: GL21467997.002

Reviewing Company: WSP USA

Project Manager: Danielle Sylvia Cofelice

Data Evaluator: Nathan Demers

Data Evaluation Date: January 8, 2025

Checked by: Danielle Sylvia Cofelice

Review Date: January 29, 2025

Laboratory: Teklab, Inc., Summit Environmental Technologies, Inc.

Lab Job #: 24110715

Matrix: Aqueous Soil Sediment Waste Air Other:

Analytical Methods: Total dissolved solids by SM 2540C; chloride by 4500-CL E; sulfate by SW-846 9036; fluoride by SW-846 9214; total metals by SW-846 3005A, 6010B and 6020A; mercury by SW-846 7470A; Radium226/228 by EPA 903.0/904.0

Sample Information: See Table 1.

Data Qualification: No qualifications required.

Work Plan or QAPP reference: None

Data Validation Guidance: EPA Guidance on Environmental Data Verification and Data Validation (EPA QA/G-8)

Chain of Custody (COC) and Sample Receipt	YES	NO	NA	COMMENT
a) COC complete and correct? (Project location, contacts, sample IDs, sample dates, field QC samples, analyses identified, et c.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) COC documents release of custody (signed and dated)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
c) Field QC types provided (note types)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EB, FB, FD
d) Did the cooler contents match the COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
e) Were samples received in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
f) Were cooler temperatures within control limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Data Package Information	YES	NO	NA	COMMENT
a) Laboratory name and location documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) All samples on COC reported in data package?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
c) Requested analytical methods used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
d) Requested analyte list reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
e) Requested units reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f) Did the laboratory define the qualifiers used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
g) Data package contains all information necessary to complete the data quality review?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Analytical Assessment	YES	NO	NA	COMMENT
a) Solid samples reported on a dry-weight basis?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b) Were solid samples percent moisture criteria acceptable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c) Were sample dilutions noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

QA LEVEL I - DATA VERIFICATION CHECKLIST

Analytical Assessment **YES NO NA** **COMMENT**

- d) Were detected concentrations less than the QL qualified by the laboratory?
- e) All detected sample results within the calibrated range?
- f) Did the laboratory satisfy the requested sensitivity requirements?

Laboratory Case Narrative **YES NO NA** **COMMENT**

- a) Do the laboratory narrative or laboratory qualifiers indicate deficiencies?

Sample Preservation and Holding Time **YES NO NA** **COMMENT**

- a) Were samples properly preserved?
- b) Were holding times met for sample preparation and/or extraction?
- c) Were holding times met for sample analysis?

Blanks **YES NO NA** **COMMENTS**

- a) No analytes detected in the associated preparation/method blank(s)? See Note 1.
- b) No analytes detected in the associated trip blank(s)? See Note 2.
- c) No analytes detected in the associated field or equipment/rinsate blank(s)? See Note 2.

Duplicates **YES NO NA** **COMMENTS**

- a) Were field duplicates reported?
- b) Was field duplicate RPD or absolute difference criteria acceptable? See Note 3.

Overall Evaluation **YES NO NA** **COMMENTS**

- a) No other technical problems that lead to data rejection identified by laboratory? See Note 4.
- b) Were data acceptable and usable, except where noted?

Comments/Notes:

- 1) The data was evaluated for precision, accuracy, representativeness, completeness, and comparability. Data usability was evaluated following the EPA Guidance on Environmental Data Verification and Data Validation (EPA QA/G-8).
- 2) Analytes were detected in the laboratory blanks, as shown in the table below. Associated results are non-detect; data usability is not affected.

Sample Name	Parameter	Analyte	Blank Result	RL	Units
MBLK-231984	ICP Metals	Lead	0.0099	0.0010	mg/L

- 3) Analytes were detected in the field and equipment blanks, as shown in the table below. Field and equipment blanks were only compared to primary samples collected on the same day. Associated detected results are considered potentially biased high.

Sample Name	Parameter	Analyte	Blank Result	RL	Units
-------------	-----------	---------	--------------	----	-------

QA LEVEL I - DATA VERIFICATION CHECKLIST

Field Blank	TDS	Total Dissolved Solids	44	20	mg/L
Field Blank	ICP Metals	Calcium	0.044 J	0.10	mg/L
Equipment Blank	TDS	Total Dissolved Solids	78	20	mg/L

- 4) Field duplicate relative percent difference was outside of quality control limits for site-specific samples as summarized in the table below. Using professional judgement, only relative percent differences above 30 percent were evaluated. Following the Guidelines for inorganics, when the primary or field duplicate result was less than 5 times the RL, and the difference between the results was greater than two times the RL, the associated results are considered estimated.

Primary Sample ID	Parameter	Analyte	Primary Sample Result	Duplicate Sample Result	RL	Unit	RPD (%)
EP-1	Metals	Arsenic	0.0006 J	0.0010 U	0.0010	mg/L	50
EP-1	Metals	Chromium	0.0191	0.0015 U	0.0015	mg/L	170
EP-1	Metals	Cobalt	0.00010 J	0.0010 U	0.0010	mg/L	160
EP-1	Metals	Lead	0.0020	0.0010 U	0.0010	mg/L	67
EP-1	Metals	Molybdenum	0.0034	0.0015 U	0.0015	mg/L	78

- 5) The laboratory narrative notes that matrix spike and/or matrix spike duplicates recovery are outside control limits. The laboratory qualified the data "S" to indicate the problem. Data usability is not affected when the sample concentrations were >4x the spike amount. No further action was taken as the item identified by the laboratory is outside the scope of a level 1 review and would not lead to data rejection.

TABLE 1
Sample Collection and Analysis Summary
SIPC CCR Groundwater Monitoring

Lab ID	Field Identification	Collection Date	Location	Matrix	QC Samples												
						Chloride	Field	Fluoride	ICP Metals	ICP/MS Metals	Mercury	Radium-226/228	Sulfate	TDS			
24080520-001	EBG	12/2/2024	EBG	GW	-	X	X	X	X	X	X	X	X	X	X	X	X
24080520-002	EP-1	12/2/2024	EP-1	GW	-	X	X	X	X	X	X	X	X	X	X	X	X
24080520-003	EP-2	12/3/2024	EP-2	GW	-	X	X	X	X	X	X	X	X	X	X	X	X
24080520-004	EP-3	12/2/2024	EP-3	GW	-	X	X	X	X	X	X	X	X	X	X	X	X
24080520-005	EP-4	12/2/2024	EP-4	GW	-	X	X	X	X	X	X	X	X	X	X	X	X
24080520-006	EP-5	12/2/2024	EP-5	GW	-	X	X	X	X	X	X	X	X	X	X	X	X
24080520-007	EP-6	12/3/2024	EP-6	GW	-	X	X	X	X	X	X	X	X	X	X	X	X
24080520-008	EP-7	12/2/2024	EP-7	GW	-	X	X	X	X	X	X	X	X	X	X	X	X
24080520-009	Equipment Blank	12/4/2024	-	WQ	EB	X	-	X	X	X	X	X	X	X	X	X	X
24080520-010	Field Blank	12/3/2024	-	WQ	FB	X	-	X	X	X	X	X	X	X	X	X	X
24080520-011	Field Duplicate	12/2/2024	EP-1	GW	FD	X	X	X	X	X	X	X	X	X	X	X	X

Notes:

All analyses performed by Teklab in Collinsville, IL and Summit Environmental Technologies in Cuyahoga Falls, OH

Abbreviations:

- EB: Equipment Blank
- FB: Field Blank
- FD: Field Duplicate
- GW: Ground Water
- QC: Quality Control
- TDS: Total Dissolved Solids
- WQ: Water Quality

QA LEVEL I - DATA VERIFICATION CHECKLIST

Project Name: SIPC Groundwater Monitoring
Reviewing Company: WSP USA
Data Evaluator: Gabriel Dixon
Checked by: Danielle Sylvia Cofelice
Laboratory: Teklab, Inc., Alliance Technical Group.

Project Number: GLA21467997.2353
Project Manager: Danielle Sylvia Cofelice
Data Evaluation Date: April 18, 2025
Review Date: April 18, 2025
Lab Job #: 25020763

Matrix: Aqueous Soil Sediment Waste Air Other:

Analytical Methods: Total dissolved solids by SM 2540C; chloride by 4500-CL E; sulfate by SW-846 9036; fluoride by SW-846 9214; total metals by SW-846 3005A, 6010B and 6020A; mercury by SW-846 7470A; Radium226/228 by EPA 903.0/904.0

Sample Information: See Table 1.

Data Qualification: No qualifications required.

Work Plan or QAPP reference: None

Data Validation Guidance: EPA Guidance on Environmental Data Verification and Data Validation (EPA QA/G-8)

Chain of Custody (COC) and Sample Receipt YES NO NA COMMENT

- a) COC complete and correct?
(Project location, contacts, sample IDs, sample dates, field QC samples, analyses identified, et c.)
- b) COC documents release of custody
(signed and dated)?
- c) Field QC types provided (note types)? EB, FB, FD
- d) Did the cooler contents match the COC?
- e) Were samples received in good condition?
- f) Were cooler temperatures within control limits?

Data Package Information YES NO NA COMMENT

- a) Laboratory name and location documented?
- b) All samples on COC reported in data package?
- c) Requested analytical methods used?
- d) Requested analyte list reported?
- e) Requested units reported?
- f) Did the laboratory define the qualifiers used?
- g) Data package contains all information necessary to complete the data quality review?

Analytical Assessment YES NO NA COMMENT

- a) Solid samples reported on a dry-weight basis?
- b) Were solid samples percent moisture criteria acceptable?
- c) Were sample dilutions noted?
- d) Were detected concentrations less than the QL qualified by the laboratory?

QA LEVEL I - DATA VERIFICATION CHECKLIST

Analytical Assessment	YES	NO	NA	COMMENT
e) All detected sample results within the calibrated range?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
f) Did the laboratory satisfy the requested sensitivity requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Laboratory Case Narrative	YES	NO	NA	COMMENT
a) Do the laboratory narrative or laboratory qualifiers indicate deficiencies?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Sample Preservation and Holding Time	YES	NO	NA	COMMENT
a) Were samples properly preserved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) Were holding times met for sample preparation and/or extraction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Were holding times met for sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Blanks	YES	NO	NA	COMMENTS
a) No analytes detected in the associated preparation/method blank(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) No analytes detected in the associated trip blank(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c) No analytes detected in the associated field or equipment/rinsate blank(s)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Note 2.

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b) Was field duplicate RPD or absolute difference criteria acceptable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Note 3.

Overall Evaluation	YES	NO	NA	COMMENTS
a) No other technical problems that lead to data rejection identified by laboratory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) Were data acceptable and usable, except where noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Comments/Notes:

- The data was evaluated for precision, accuracy, representativeness, completeness, and comparability. Data usability was evaluated following the EPA Guidance on Environmental Data Verification and Data Validation (EPA QA/G-8).
- Analytes were detected in the field and equipment blanks, as shown in the table below. Field and equipment blanks were only compared to primary samples collected on the same day. Associated detected results are considered potentially biased high.

Sample Name	Parameter	Analyte	Blank Result	RL	Units
Field Blank	TDS	Total Dissolved Solids	28	20	mg/L
Field Blank	ICP Metals	Boron	0.014 J	0.020	mg/L
Equipment Blank	ICP Metals	Boron	0.0220	0.0200	mg/L
Equipment Blank	ICP Metals	Calcium	0.633	0.100	mg/L
Equipment Blank	ICP Metals	Chromium	0.0010 J	0.0015	mg/L

- Field duplicate relative percent difference was outside of quality control limits for site-specific samples as summarized in the table below. Using professional judgement, only relative percent differences above 30 percent were evaluated.

QA LEVEL I - DATA VERIFICATION CHECKLIST

Following the Guidelines for inorganics, when the primary or field duplicate result was less than 5 times the RL, and the difference between the results was less than two times the RL, the associated results are considered did not require qualification.

Primary Sample ID	Parameter	Analyte	Primary Sample Result	Duplicate Sample Result	RL	Unit	RPD (%)
EP-2	Metals	Arsenic	0.0035	0.0018	0.0010	mg/L	64
EP-2	Radium	Radium-228	1.88	1.00 U	1.00	pci/L	61

TABLE 1
Sample Collection and Analysis Summary
SIPC CCR Groundwater Monitoring

Lab ID	Field Identification	Collection Date	Location	Matrix	QC Samples												
						Chloride	Field Parameters	Fluoride	ICP Metals	ICP/MS Metals	Mercury	Radium-226/228	Sulfate	TDS			
25020763-001	EBG	3/3/2025	EBG	GW	-	X	X	X	X	X	X	X	X	X	X	X	X
25020763-002	EP-1	3/3/2025	EP-1	GW	-	X	X	X	X	X	X	X	X	X	X	X	X
25020763-003	EP-2	3/3/2025	EP-2	GW	-	X	X	X	X	X	X	X	X	X	X	X	X
25020763-004	EP-3	3/3/2025	EP-3	GW	-	X	X	X	X	X	X	X	X	X	X	X	X
25020763-005	EP-4	3/4/2025	EP-4	GW	-	X	X	X	X	X	X	X	X	X	X	X	X
25020763-006	EP-5	3/3/2025	EP-5	GW	-	X	X	X	X	X	X	X	X	X	X	X	X
25020763-007	EP-6	3/3/2025	EP-6	GW	-	X	X	X	X	X	X	X	X	X	X	X	X
25020763-008	EP-7	3/3/2025	EP-7	GW	-	X	X	X	X	X	X	X	X	X	X	X	X
25020763-009	Equipment Blank	3/4/2025	-	WQ	EB	X	-	X	X	X	X	X	X	X	X	X	X
25020763-010	Field Blank	3/4/2025	-	WQ	FB	X	-	X	X	X	X	X	X	X	X	X	X
25020763-011	Field Duplicate	3/3/2025	EP-2	GW	FD	X	X	X	X	X	X	X	X	X	X	X	X

Notes:

All analyses performed by Teklab in Collinsville, IL and Alliance Technical Group in Cuyahoga Falls, OH

Abbreviations:

- EB: Equipment Blank
- FB: Field Blank
- FD: Field Duplicate
- GW: Ground Water
- QC: Quality Control
- TDS: Total Dissolved Solids
- WQ: Water Quality

Created by: GRD 4/18/25

QA LEVEL I - DATA VERIFICATION CHECKLIST

Project Name: SIPC Groundwater Monitoring
Reviewing Company: WSP USA
Data Evaluator: Gabriel Dixon
Checked by: Danielle Sylvia Cofelice
Laboratory: Teklab, Inc., Alliance Technical Group.

Project Number: GLA21467997.2353
Project Manager: Danielle Sylvia Cofelice
Data Evaluation Date: July 28, 2025
Review Date: July 31, 2025
Lab Job #: 25020763

Matrix: Aqueous Soil Sediment Waste Air Other:

Analytical Methods: Total dissolved solids by SM 2540C; anions (chloride, fluoride, and sulfate) by SW-846 9056A; total metals by SW-846 3005A, 6010B and 6020A; mercury by SW-846 7470A; Radium226/228 by EPA 903.0/904.0

Sample Information: See Table 1.

Data Qualification: No qualifications required.

Work Plan or QAPP reference: None

Data Validation Guidance: EPA Guidance on Environmental Data Verification and Data Validation (EPA QA/G-8)

Chain of Custody (COC) and Sample Receipt	YES	NO	NA	COMMENT
a) COC complete and correct? (Project location, contacts, sample IDs, sample dates, field QC samples, analyses identified, et c.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>		See Note 2.
b) COC documents release of custody (signed and dated)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
c) Field QC types provided (note types)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EB, FB, FD
d) Did the cooler contents match the COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
e) Were samples received in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
f) Were cooler temperatures within control limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		See Note 3.

Data Package Information	YES	NO	NA	COMMENT
a) Laboratory name and location documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) All samples on COC reported in data package?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
c) Requested analytical methods used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
d) Requested analyte list reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
e) Requested units reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f) Did the laboratory define the qualifiers used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
g) Data package contains all information necessary to complete the data quality review?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Analytical Assessment	YES	NO	NA	COMMENT
a) Solid samples reported on a dry-weight basis?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b) Were solid samples percent moisture criteria acceptable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c) Were sample dilutions noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
d) Were detected concentrations less than the QL qualified by the laboratory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

QA LEVEL I - DATA VERIFICATION CHECKLIST

Analytical Assessment	YES	NO	NA	COMMENT
e) All detected sample results within the calibrated range?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
f) Did the laboratory satisfy the requested sensitivity requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Laboratory Case Narrative	YES	NO	NA	COMMENT
a) Do the laboratory narrative or laboratory qualifiers indicate deficiencies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Note 4.

Sample Preservation and Holding Time	YES	NO	NA	COMMENT
a) Were samples properly preserved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) Were holding times met for sample preparation and/or extraction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Were holding times met for sample analysis?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		See Note 4.

Blanks	YES	NO	NA	COMMENTS
a) No analytes detected in the associated preparation/method blank(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) No analytes detected in the associated trip blank(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c) No analytes detected in the associated field or equipment/rinsate blank(s)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Note 4.

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b) Was field duplicate RPD or absolute difference criteria acceptable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Note 5.

Overall Evaluation	YES	NO	NA	COMMENTS
a) No other technical problems that lead to data rejection identified by laboratory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) Were data acceptable and usable, except where noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Comments/Notes:

- 1) The data was evaluated for precision, accuracy, representativeness, completeness, and comparability. Data usability was evaluated following the EPA Guidance on Environmental Data Verification and Data Validation (EPA QA/G-8).
- 2) The case narrative indicates that the sample date for the sample 25051210-11 was incorrectly listed on the COC. The sample date was changed to reflect the correct date listed in the field sampling notes.
- 3) Coolers containing samples 25051210-001, 25051210-006, 25051210-002, 25051210-003, and 25051210-008 were received at temperatures greater than the recommended temperature of 6 degrees C (12.1 and 12.7 degrees C). Samples were received at the laboratory the same day they were collected, therefore, data usability is not affected.
- 4) Samples EBG and EP-5 were analyzed outside of the recommended hold time of seven days for total dissolved solids. The samples were analyzed less than 12 hours outside of hold time. Associated detects are considered potentially biased low.
- 5) Analytes were detected in the field and equipment blanks, as shown in the table below. Field and equipment blanks were only compared to primary samples collected on the same day. Associated detected results are considered potentially biased high.

Sample Name	Parameter	Analyte	Blank Result	RL	Units
Equipment Blank	ICP Metals	Barium	0.0007 J	0.0025	mg/L

QA LEVEL I - DATA VERIFICATION CHECKLIST

Sample Name	Parameter	Analyte	Blank Result	RL	Units
Equipment Blank	ICP Metals	Boron	0.012 J	0.020	mg/L
Equipment Blank	ICP Metals	Calcium	0.035 J	0.10	mg/L
Equipment Blank	ICP Metals	Chromium	0.0011 J	0.0015	mg/L
Equipment Blank	Radium	Radium-228	0.93 J	1.00	pCi/L
Field Blank	ICP Metals	Barium	0.0007 J	0.0025	mg/L

- 6) Field duplicate relative percent difference was outside of quality control limits for site-specific samples as summarized in the table below. Using professional judgement, only relative percent differences above 30 percent were evaluated. Following the Guidelines for inorganics, when the primary or field duplicate result was less than 5 times the RL, and the difference between the results was less than two times the RL, the associated results are considered did not require qualification.

Primary Sample ID	Parameter	Analyte	Primary Sample Result	Duplicate Sample Result	RL	Unit	RPD (%)
EP-6	Anions	Fluoride	0.50 U	0.05 J	0.50	mg/L	164

- 7) Certain MS/MSD recoveries were outside QC criteria, however, the associated sample concentrations were greater than 4x the spike amount. Data usability is not affected.
- 8) The Radium-226 LCS/LCSD RPD associated with all samples was above QC limits. The associated LCS and LCSD recoveries are within QC limits. Data usability is not affected.

TABLE 1
Sample Collection and Analysis Summary
SIPC CCR Groundwater Monitoring

Lab ID	Field Identification	Collection Date	Location	Matrix	QC Samples											
						Chloride	Field Parameters	Fluoride	ICP Metals	ICP/MS Metals	Mercury	Radium-226/228	Sulfate	TDS		
25051210-001	EBG	6/2/2025	EBG	GW	-	X	X	X	X	X	X	X	X	X	X	X
25051210-002	EP-1	6/3/2025	EP-1	GW	-	X	X	X	X	X	X	X	X	X	X	X
25051210-003	EP-2	6/3/2025	EP-2	GW	-	X	X	X	X	X	X	X	X	X	X	X
25051210-004	EP-3	6/4/2025	EP-3	GW	-	X	X	X	X	X	X	X	X	X	X	X
25051210-005	EP-4	6/4/2025	EP-4	GW	-	X	X	X	X	X	X	X	X	X	X	X
25051210-006	EP-5	6/2/2025	EP-5	GW	-	X	X	X	X	X	X	X	X	X	X	X
25051210-007	EP-6	6/4/2025	EP-6	GW	-	X	X	X	X	X	X	X	X	X	X	X
25051210-008	EP-7	6/3/2025	EP-7	GW	-	X	X	X	X	X	X	X	X	X	X	X
25051210-009	Equipment Blank	6/4/2025	-	WQ	EB	X	-	X	X	X	X	X	X	X	X	X
25051210-010	Field Blank	6/4/2025	-	WQ	FB	X	-	X	X	X	X	X	X	X	X	X
25051210-011	Field Duplicate	6/4/2025	EP-6	GW	FD	X	X	X	X	X	X	X	X	X	X	X

Notes:

All analyses performed by Teklab in Collinsville, IL and Alliance Technical Group in Cuyahoga Falls, OH

Abbreviations:

- EB: Equipment Blank
- FB: Field Blank
- FD: Field Duplicate
- GW: Ground Water
- QC: Quality Control
- TDS: Total Dissolved Solids
- WQ: Water Quality

Created by: GRD 7/28/25

QA LEVEL I - DATA VERIFICATION CHECKLIST

Project Name: SIPC Groundwater Monitoring
Reviewing Company: WSP USA
Data Evaluator: Gabriel Dixon
Checked by: Danielle Sylvia Cofelice
Laboratory: Teklab, Inc., Alliance Technical Group.

Project Number: GLA21467997.2373
Project Manager: Danielle Sylvia Cofelice
Data Evaluation Date: November 5, 2025
Review Date: November 7, 2025
Lab Job #: 25080029

Matrix: Aqueous Soil Sediment Waste Air Other:

Analytical Methods: Total dissolved solids by SM 2540C; anions (chloride, fluoride, and sulfate) by SW-846 9056A; total metals by SW-846 3005A, 6010B and 6020A; mercury by SW-846 7470A; Radium226/228 by EPA 903.0/904.0

Sample Information: See Table 1.

Data Qualification: No qualifications required.

Work Plan or QAPP reference: None

Data Validation Guidance: EPA Guidance on Environmental Data Verification and Data Validation (EPA QA/G-8)

Chain of Custody (COC) and Sample Receipt	YES	NO	NA	COMMENT
a) COC complete and correct? (Project location, contacts, sample IDs, sample dates, field QC samples, analyses identified, et c.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) COC documents release of custody (signed and dated)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
c) Field QC types provided (note types)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EB, FB, FD
d) Did the cooler contents match the COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
e) Were samples received in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
f) Were cooler temperatures within control limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		See Note 2.

Data Package Information	YES	NO	NA	COMMENT
a) Laboratory name and location documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) All samples on COC reported in data package?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
c) Requested analytical methods used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
d) Requested analyte list reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
e) Requested units reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f) Did the laboratory define the qualifiers used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
g) Data package contains all information necessary to complete the data quality review?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Analytical Assessment	YES	NO	NA	COMMENT
a) Solid samples reported on a dry-weight basis?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b) Were solid samples percent moisture criteria acceptable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c) Were sample dilutions noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
d) Were detected concentrations less than the QL qualified by the laboratory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

QA LEVEL I - DATA VERIFICATION CHECKLIST

Analytical Assessment **YES NO NA** **COMMENT**

- e) All detected sample results within the calibrated range?
- f) Did the laboratory satisfy the requested sensitivity requirements?

Laboratory Case Narrative **YES NO NA** **COMMENT**

- a) Do the laboratory narrative or laboratory qualifiers indicate deficiencies? See Note 3.

Sample Preservation and Holding Time **YES NO NA** **COMMENT**

- a) Were samples properly preserved?
- b) Were holding times met for sample preparation and/or extraction?
- c) Were holding times met for sample analysis?

Blanks **YES NO NA** **COMMENTS**

- a) No analytes detected in the associated preparation/method blank(s)? See Note 3.
- b) No analytes detected in the associated trip blank(s)?
- c) No analytes detected in the associated field or equipment/rinsate blank(s)? See Note 3.

Duplicates **YES NO NA** **COMMENTS**

- a) Were field duplicates reported?
- b) Was field duplicate RPD or absolute difference criteria acceptable? See Note 4.

Overall Evaluation **YES NO NA** **COMMENTS**

- a) No other technical problems that lead to data rejection identified by laboratory?
- b) Were data acceptable and usable, except where noted? See Notes 5-7.

Comments/Notes:

- 1) The data was evaluated for precision, accuracy, representativeness, completeness, and comparability. Data usability was evaluated following the EPA Guidance on Environmental Data Verification and Data Validation (EPA QA/G-8).
- 2) The cooler containing samples 25080029-003, 25080029-004, 25080029-005, 25080029-007, 25080029-008, 25080029-009, 25080029-010, and 25080029-011 was received at a temperature greater than the recommended temperature of 6 degrees C (9.3 degrees C). Samples were received at the laboratory the same day they were collected, therefore, data usability is not affected.
- 3) Analytes were detected in the method, equipment, and field blanks, as shown in the table below. Field and equipment blanks were only compared to primary samples collected on the same day. Associated detected results are considered potentially biased high.

Sample Name	Parameter	Analyte	Blank Result	RL	Units
MBLK-244261	ICP Metals	Antimony	0.0005 JS	0.0010	mg/L
MBLK-244261	ICP Metals	Thallium	0.0042 S	0.0020	mg/L
MBLK-244354	ICP Metals	Chromium	0.0008 JS	0.0015	mg/L
MBLK-244354	ICP Metals	Molybdenum	0.0012 JS	0.0015	mg/L
MBLK-244731	ICP Metals	Antimony	0.0005 JS	0.0010	mg/L

QA LEVEL I - DATA VERIFICATION CHECKLIST

Sample Name	Parameter	Analyte	Blank Result	RL	Units
Equipment Blank	TDS	TDS	16 J	20	mg/L
Equipment Blank	ICP Metals	Barium	0.0012 J	0.0025	mg/L
Equipment Blank	ICP Metals	Calcium	0.045 J	0.10	mg/L
Equipment Blank	ICP Metals	Chromium	0.0008 BJ	0.0015	mg/L
Field Blank	ICP Metals	Barium	0.0015 J	0.0025	mg/L
Field Blank	ICP Metals	Calcium	0.070 J	0.10	mg/L
Field Blank	ICP Metals	Chromium	0.0008 BJ	0.0015	mg/L
Field Blank	ICP Metals	Thallium	0.0018 J	0.0020	mg/L

- 4) Field duplicate relative percent difference was outside of quality control limits for site-specific samples as summarized in the table below. Using professional judgement, only relative percent differences above 30 percent were evaluated. Following the Guidelines for inorganics, when the primary or field duplicate result was less than 5 times the RL, and the difference between the results was less than two times the RL, the associated results do not require qualification.

Primary Sample ID	Parameter	Analyte	Primary Sample Result	Duplicate Sample Result	RL	Unit	RPD (%)
EP-4	ICP Metals	Selenium	0.0007 J	0.001 U	0.0010	mg/L	35.3

- 5) Certain LCS and MS/MSD recoveries were above QC criteria. Associated detected results are considered potentially biased high.
- 6) Certain radium-226 LCS/LCSD RPD associated with all samples was above QC limits. The associated LCS and LCSD recoveries are within QC limits. Data usability is not affected.
- 7) The laboratory narrative indicates that the CCV recovered outside the upper control limit associated with certain samples. Review of CCV is outside the scope of this data validation, no action was taken other than to note.

TABLE 1
Sample Collection and Analysis Summary
SIPC CCR Groundwater Monitoring

Lab ID	Field Identification	Collection Date	Location	Matrix	QC Samples											
						Chloride	Field Parameters	Fluoride	ICP Metals	ICP/MS Metals	Mercury	Radium-226/228	Sulfate	TDS		
25080029-001	EBG	9/2/2025	EBG	GW	-	X	X	X	X	X	X	X	X	X	X	X
25080029-002	EP-1	9/2/2025	EP-1	GW	-	X	X	X	X	X	X	X	X	X	X	X
25080029-003	EP-2	9/3/2025	EP-2	GW	-	X	X	X	X	X	X	X	X	X	X	X
25080029-004	EP-3	9/3/2025	EP-3	GW	-	X	X	X	X	X	X	X	X	X	X	X
25080029-005	EP-4	9/3/2025	EP-4	GW	-	X	X	X	X	X	X	X	X	X	X	X
25080029-006	EP-5	9/2/2025	EP-5	GW	-	X	X	X	X	X	X	X	X	X	X	X
25080029-007	EP-6	9/3/2025	EP-6	GW	-	X	X	X	X	X	X	X	X	X	X	X
25080029-008	EP-7	9/3/2025	EP-7	GW	-	X	X	X	X	X	X	X	X	X	X	X
25080029-009	Equipment Blank	9/3/2025	-	WQ	EB	X	-	X	X	X	X	X	X	X	X	X
25080029-010	Field Blank	9/3/2025	-	WQ	FB	X	-	X	X	X	X	X	X	X	X	X
25080029-011	Field Duplicate	9/3/2025	EP-4	GW	FD	X	X	X	X	X	X	X	X	X	X	X

Notes:

All analyses performed by Teklab in Collinsville, IL and Alliance Technical Group in Cuyahoga Falls, OH

Abbreviations:

- EB: Equipment Blank
- FB: Field Blank
- FD: Field Duplicate
- GW: Ground Water
- QC: Quality Control
- TDS: Total Dissolved Solids
- WQ: Water Quality

Created by: GRD 11/5/25

APPENDIX D

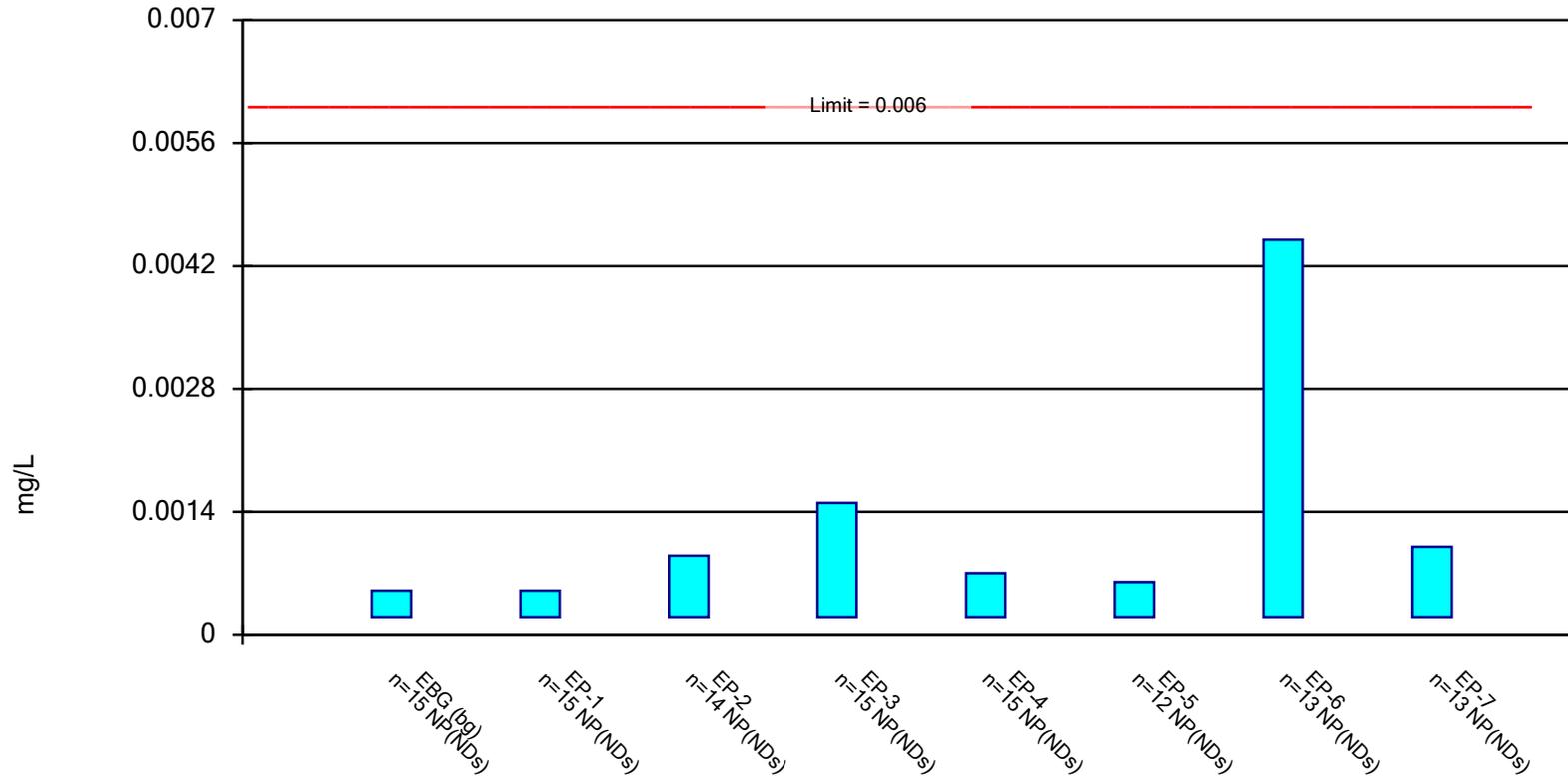
2025 Statistical Evaluation

APPENDIX D-1

Q4 2024 Groundwater Protection Standard Exceedances

Non-Parametric Confidence Interval

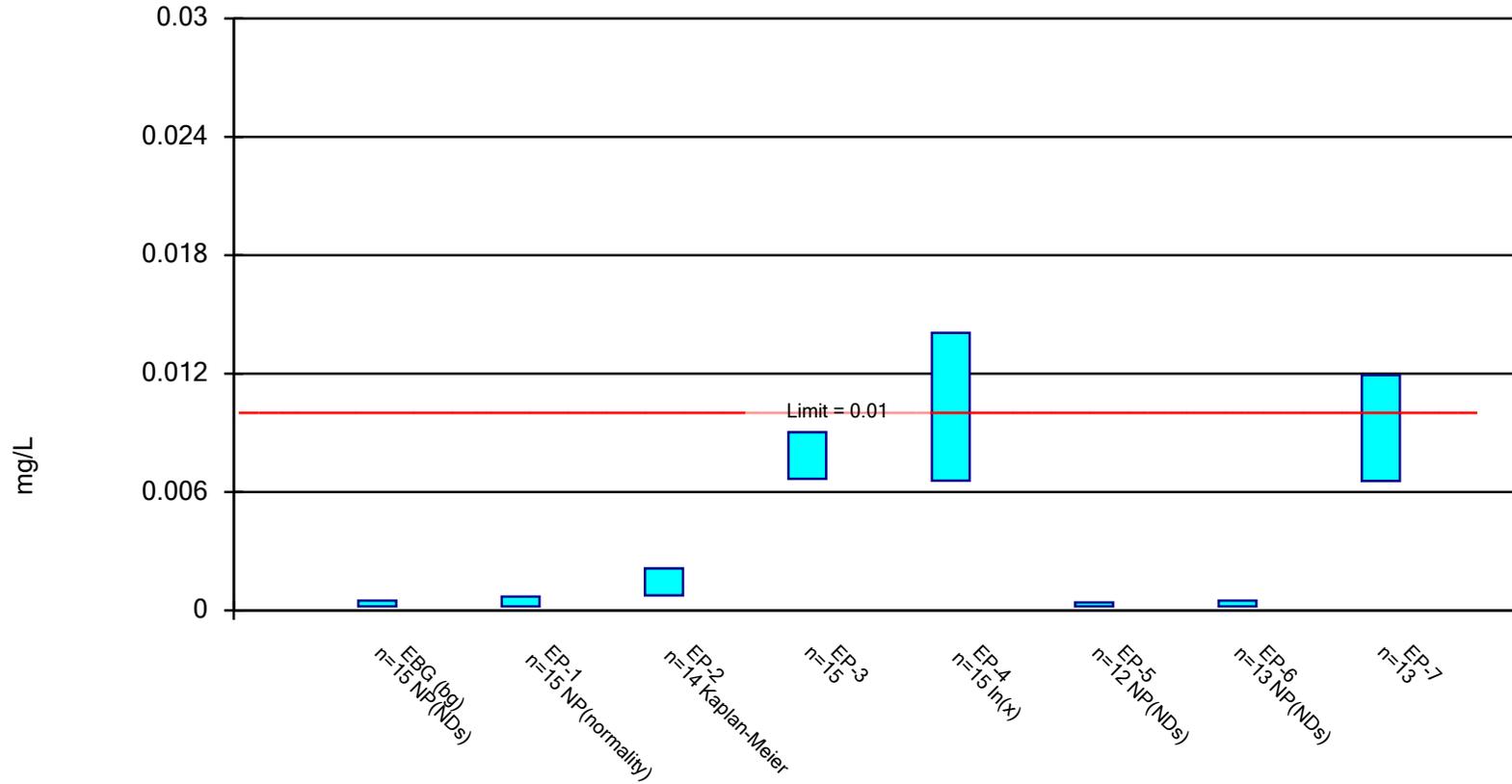
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 1/28/2025 9:36 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

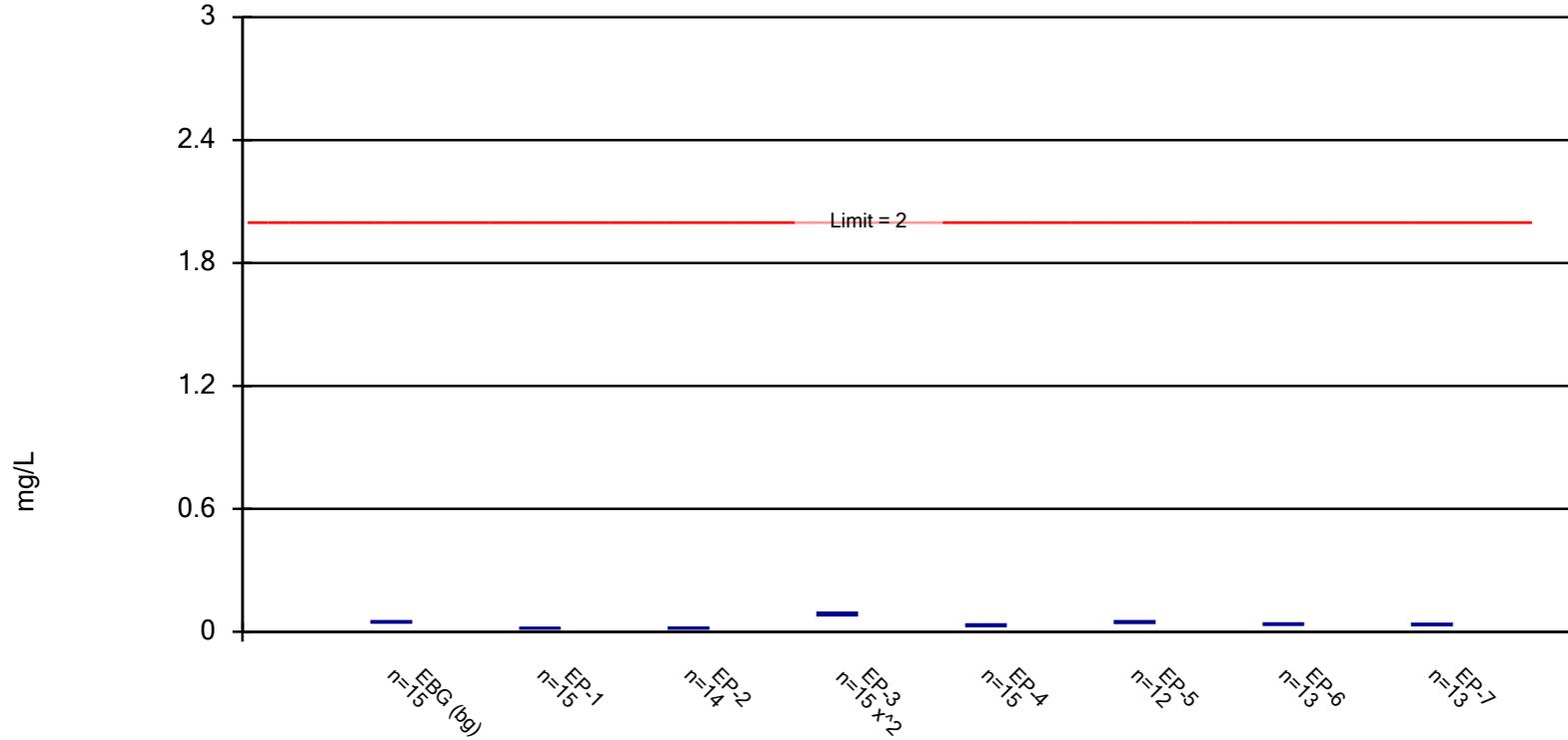
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 1/28/2025 9:36 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric Confidence Interval

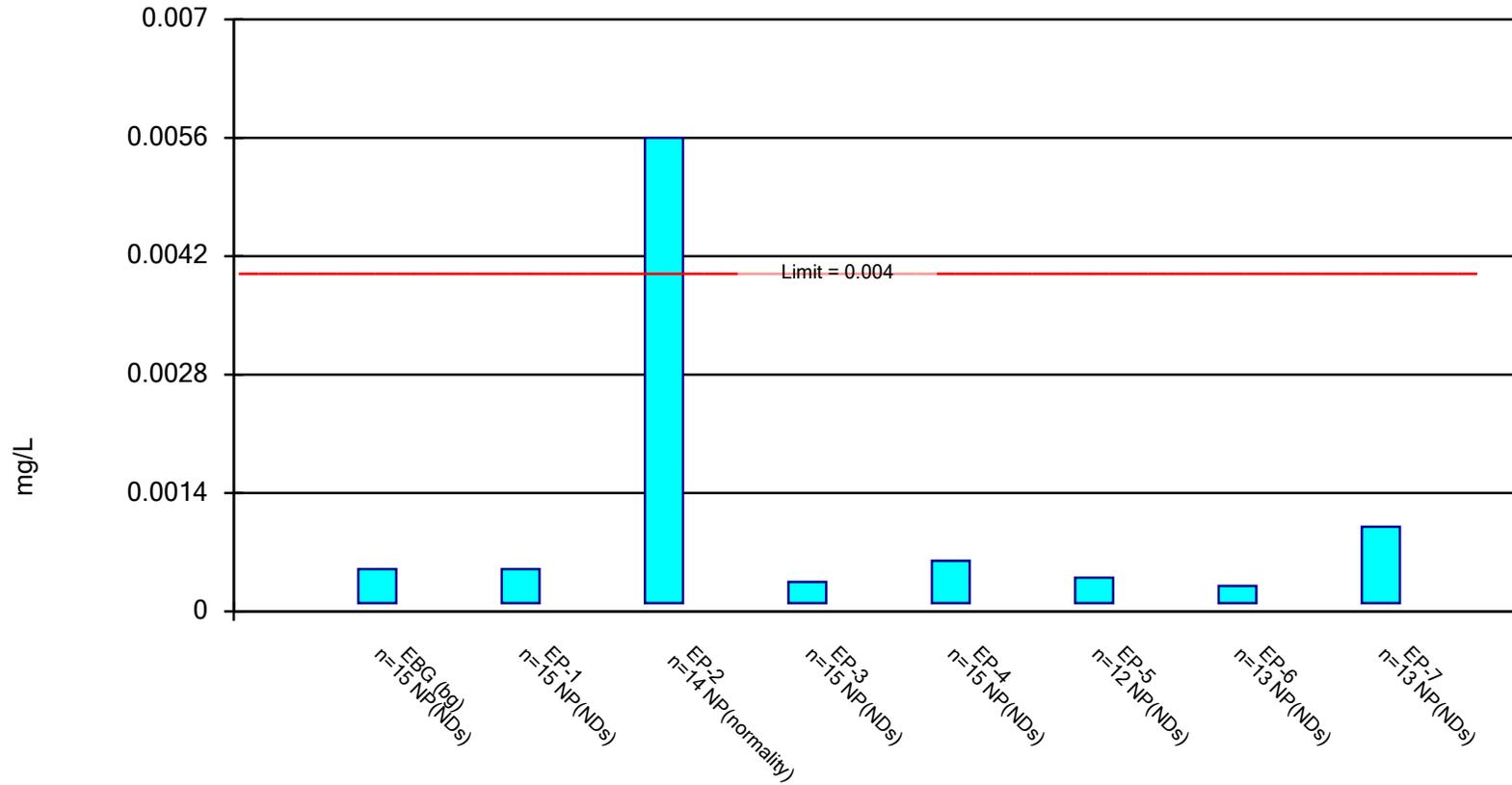
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 1/28/2025 9:36 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Non-Parametric Confidence Interval

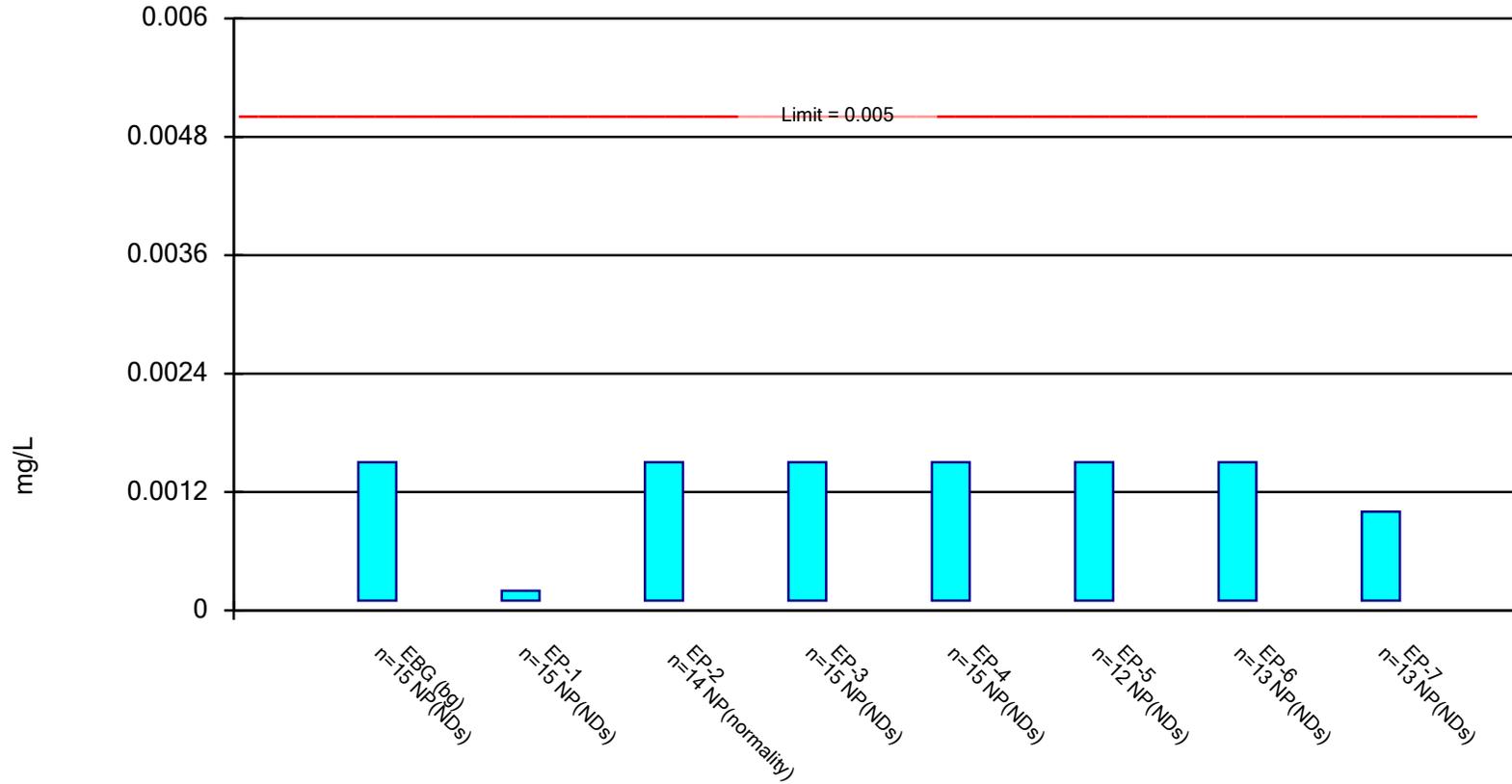
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 1/28/2025 9:36 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Non-Parametric Confidence Interval

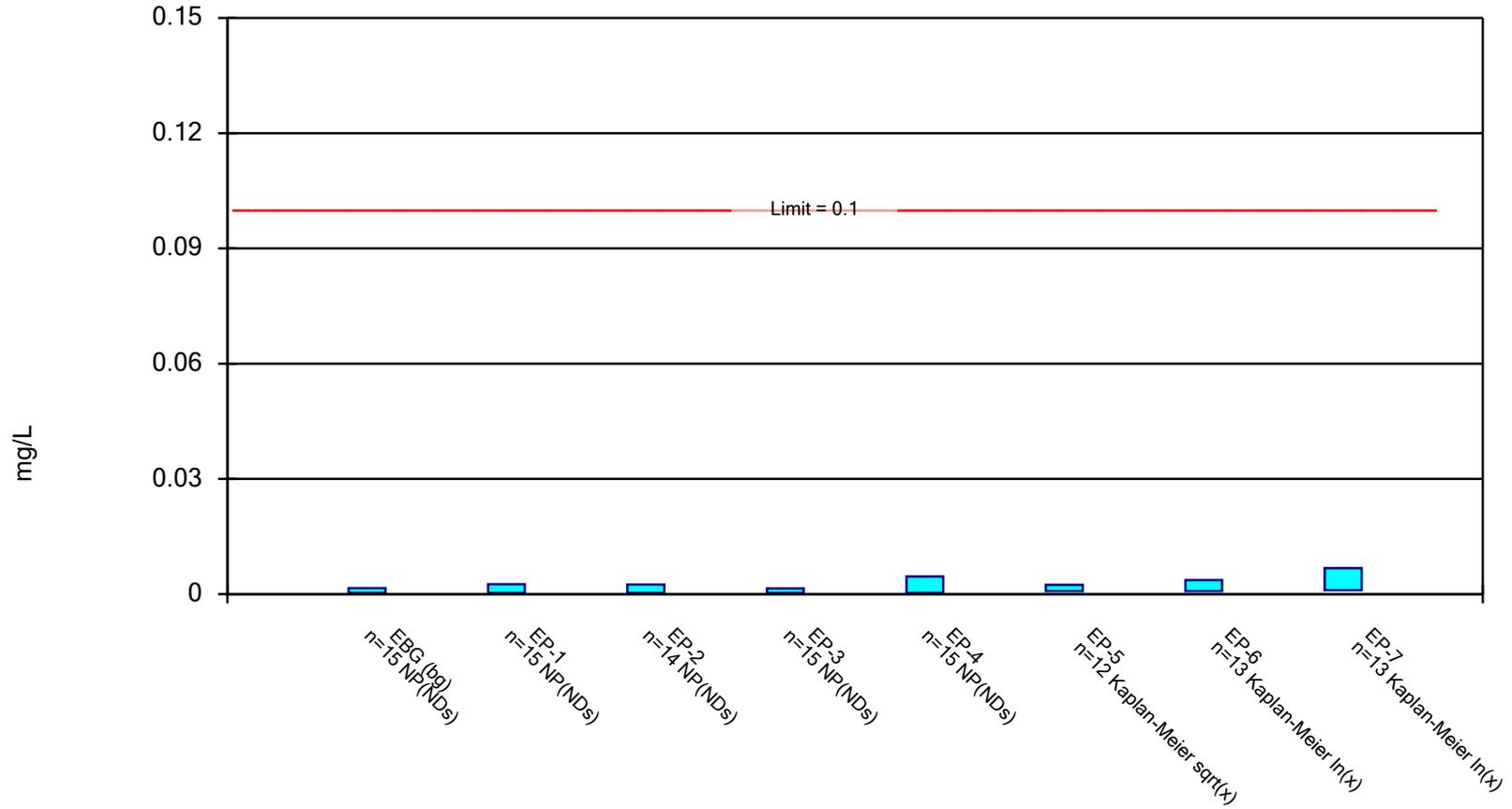
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 1/28/2025 9:36 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

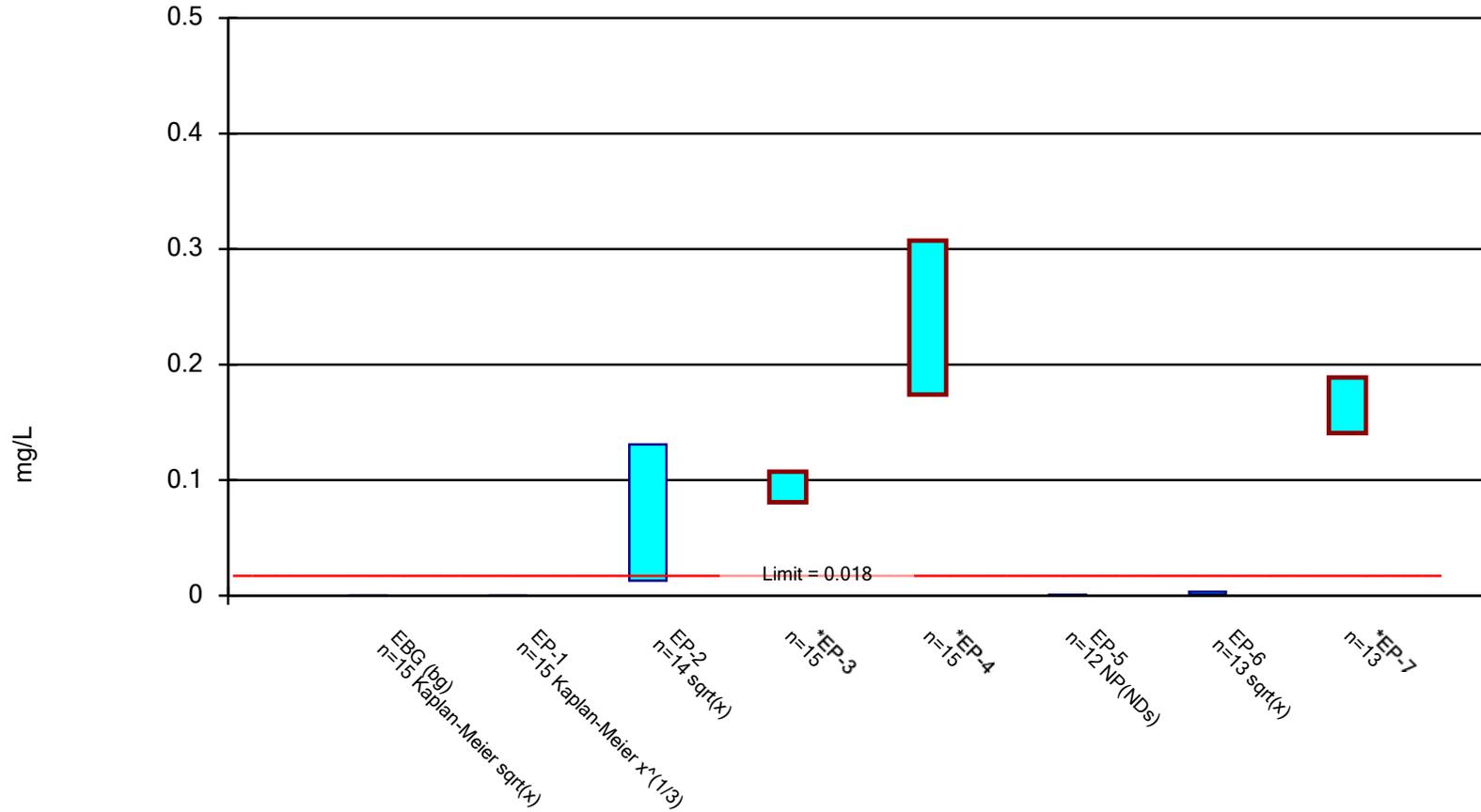
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 1/28/2025 9:36 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

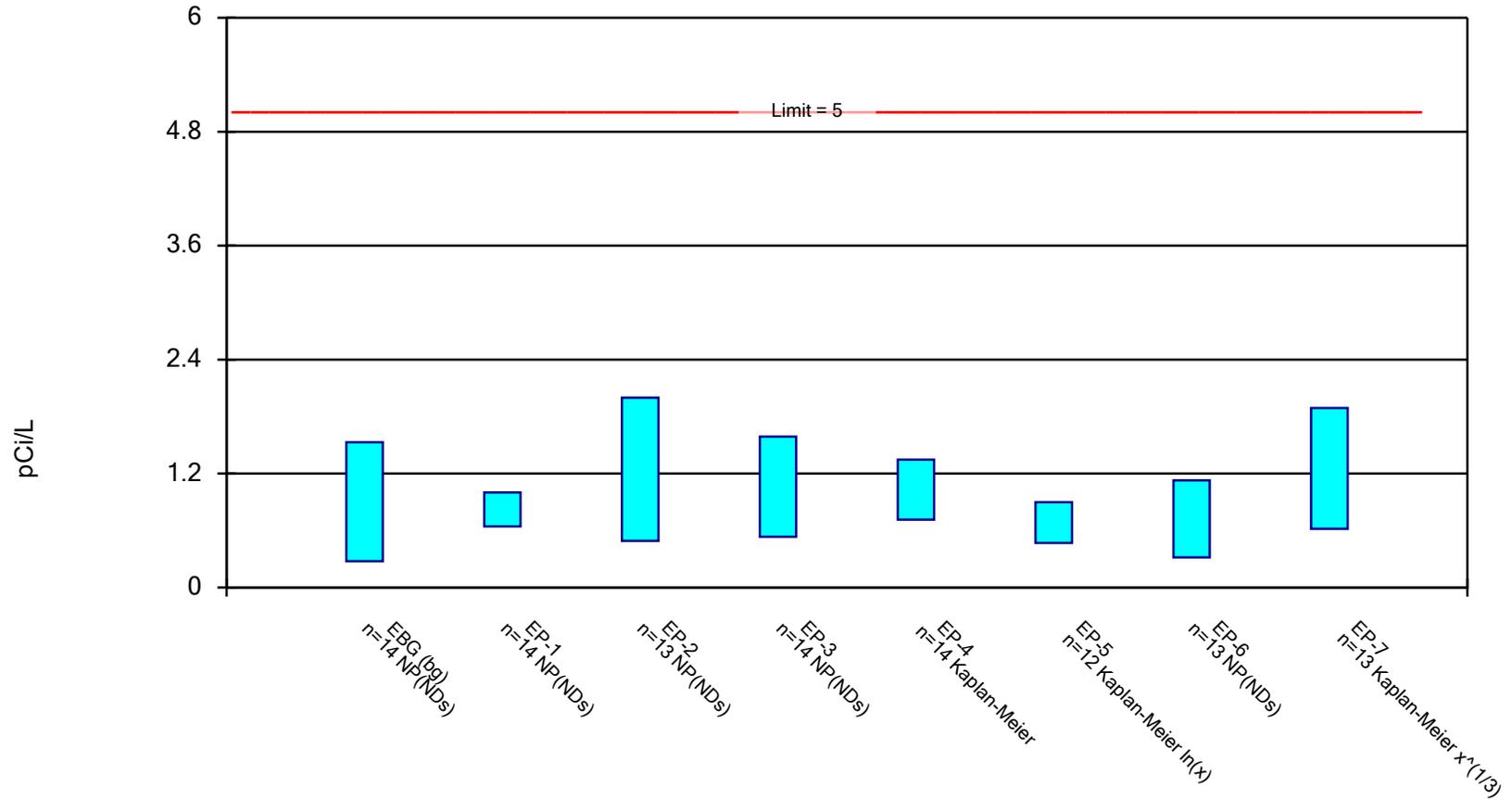
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 1/28/2025 9:36 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

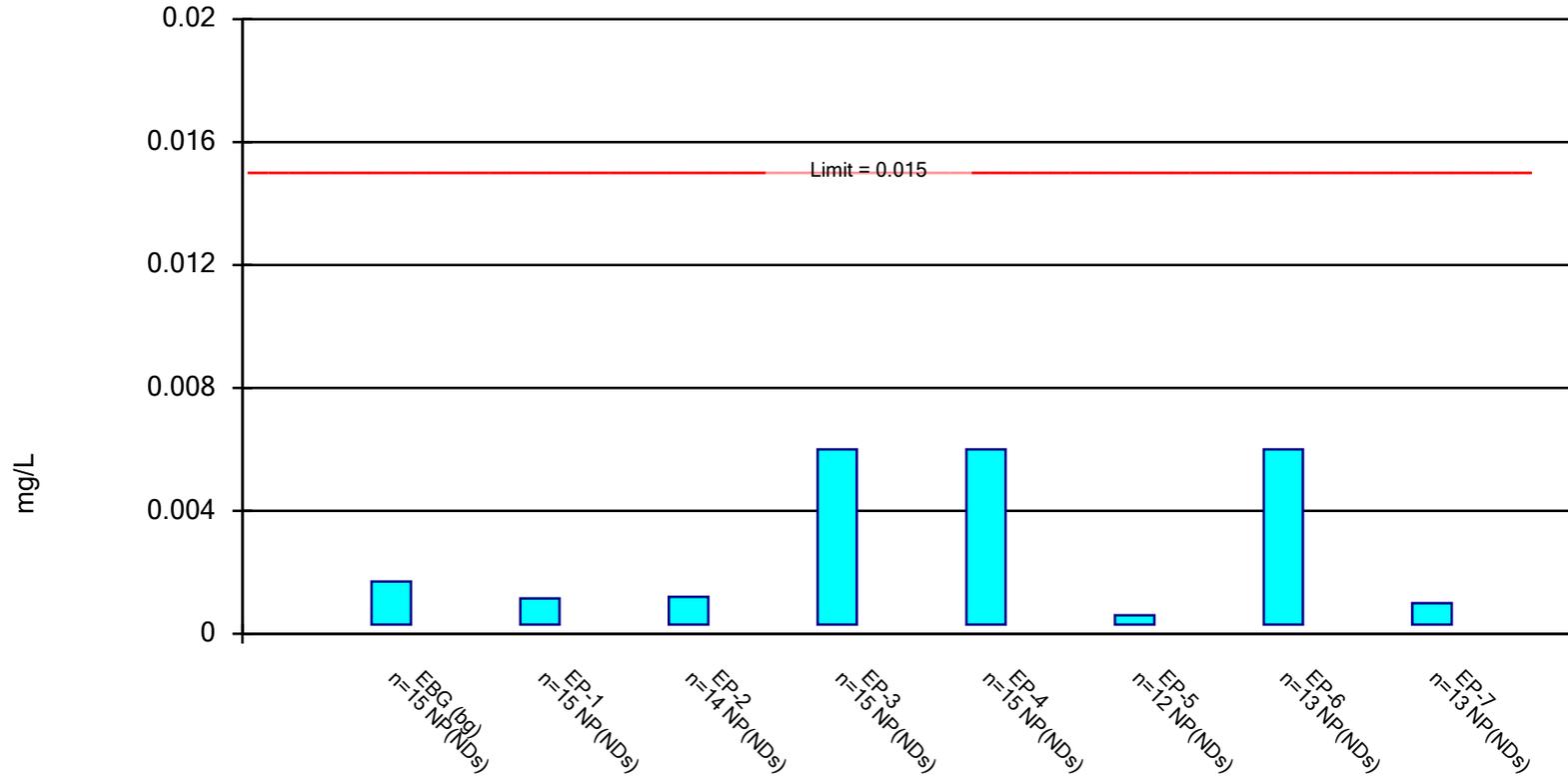
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium Analysis Run 1/28/2025 9:36 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

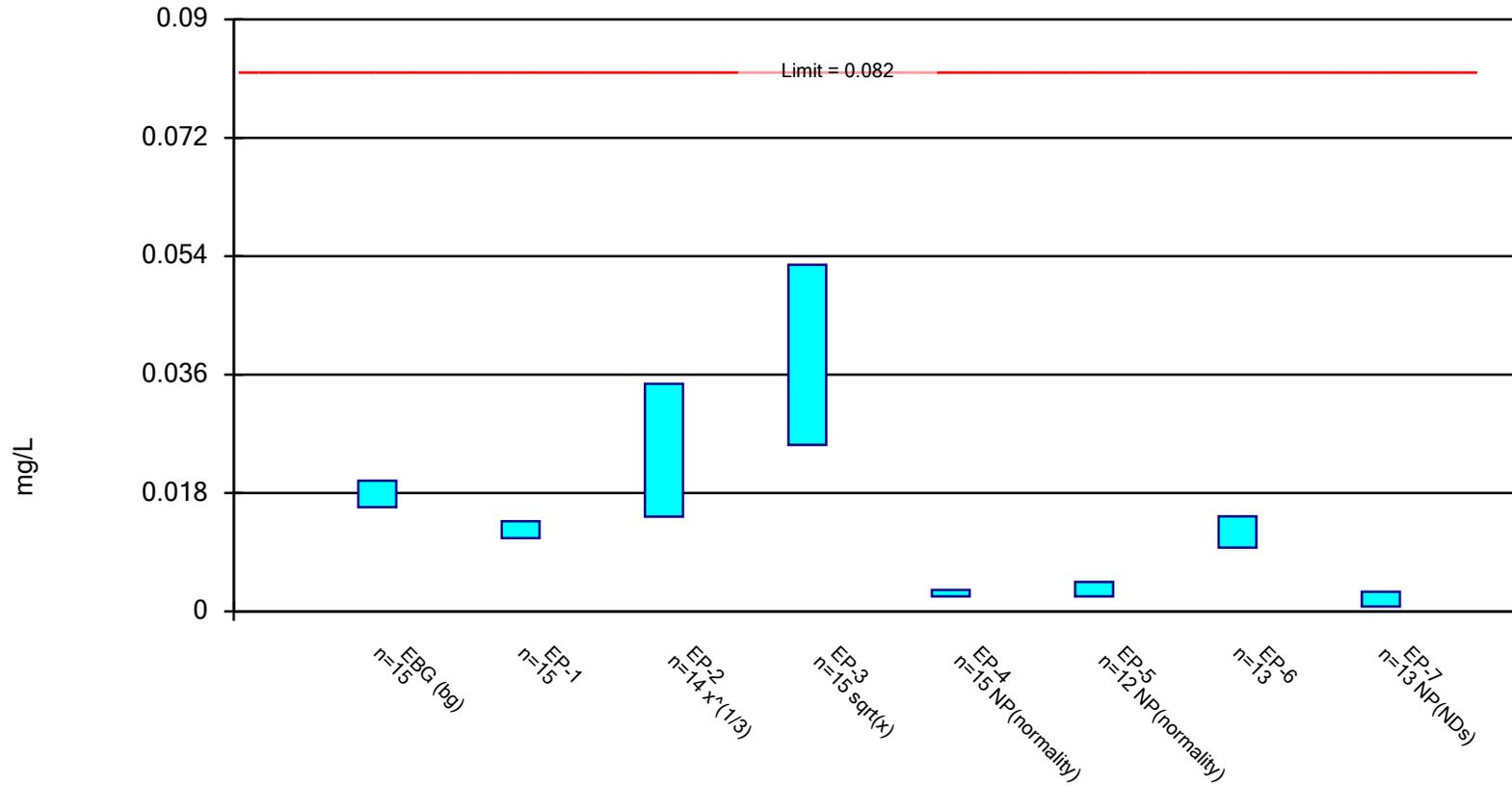


Constituent: Lead Analysis Run 1/28/2025 9:36 AM

Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

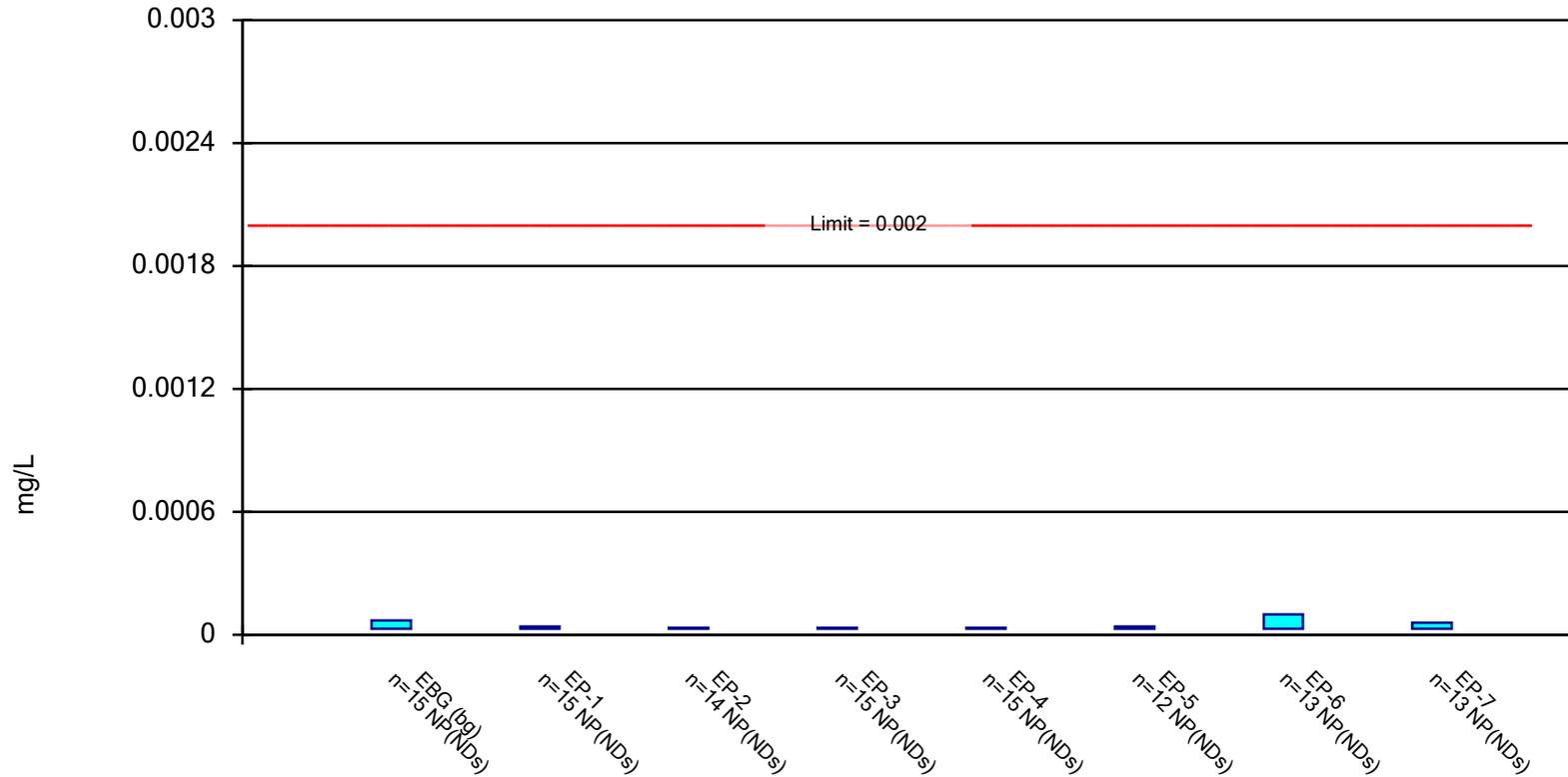


Constituent: Lithium Analysis Run 1/28/2025 9:36 AM

Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Non-Parametric Confidence Interval

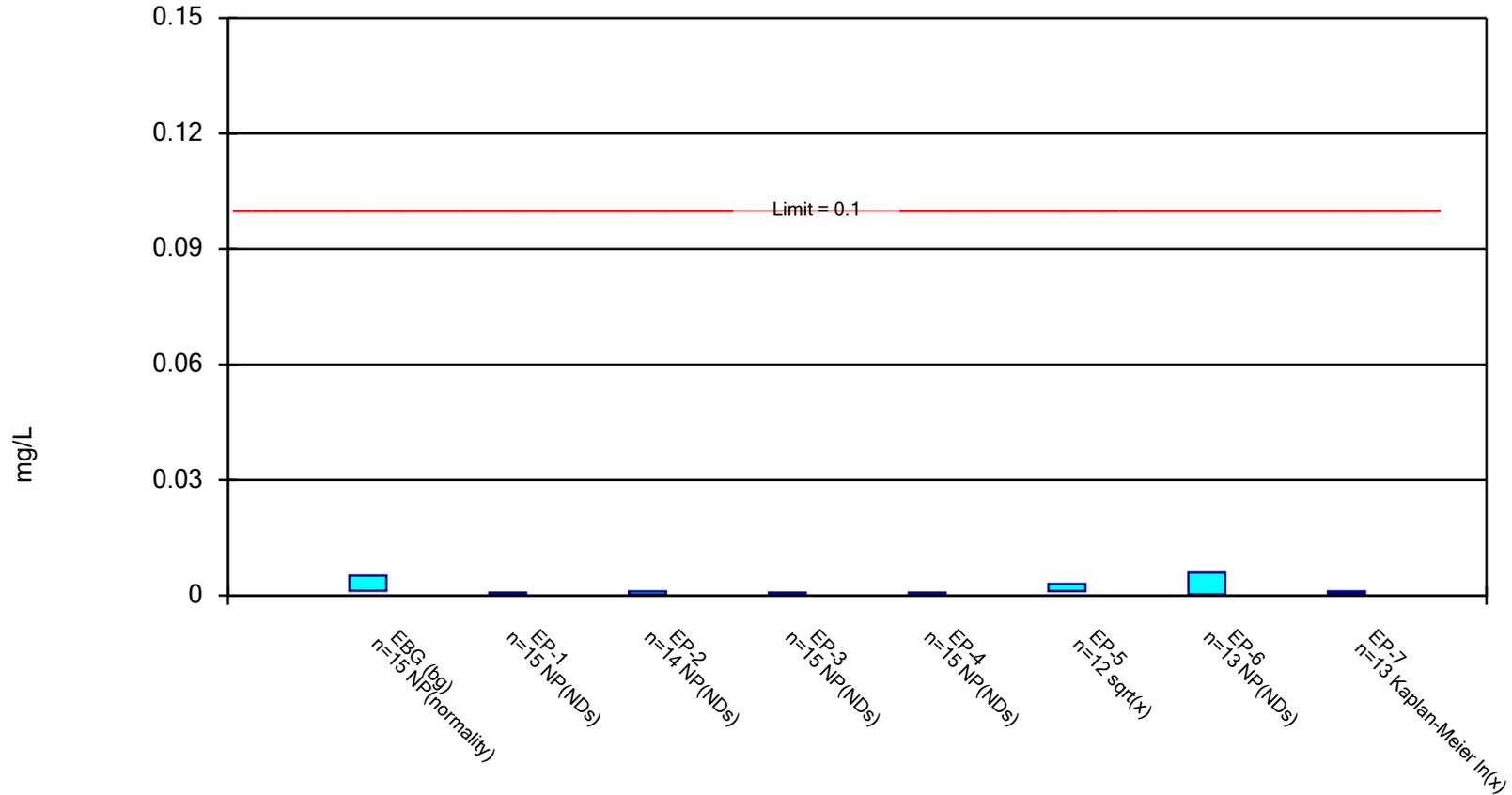
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 1/28/2025 9:36 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

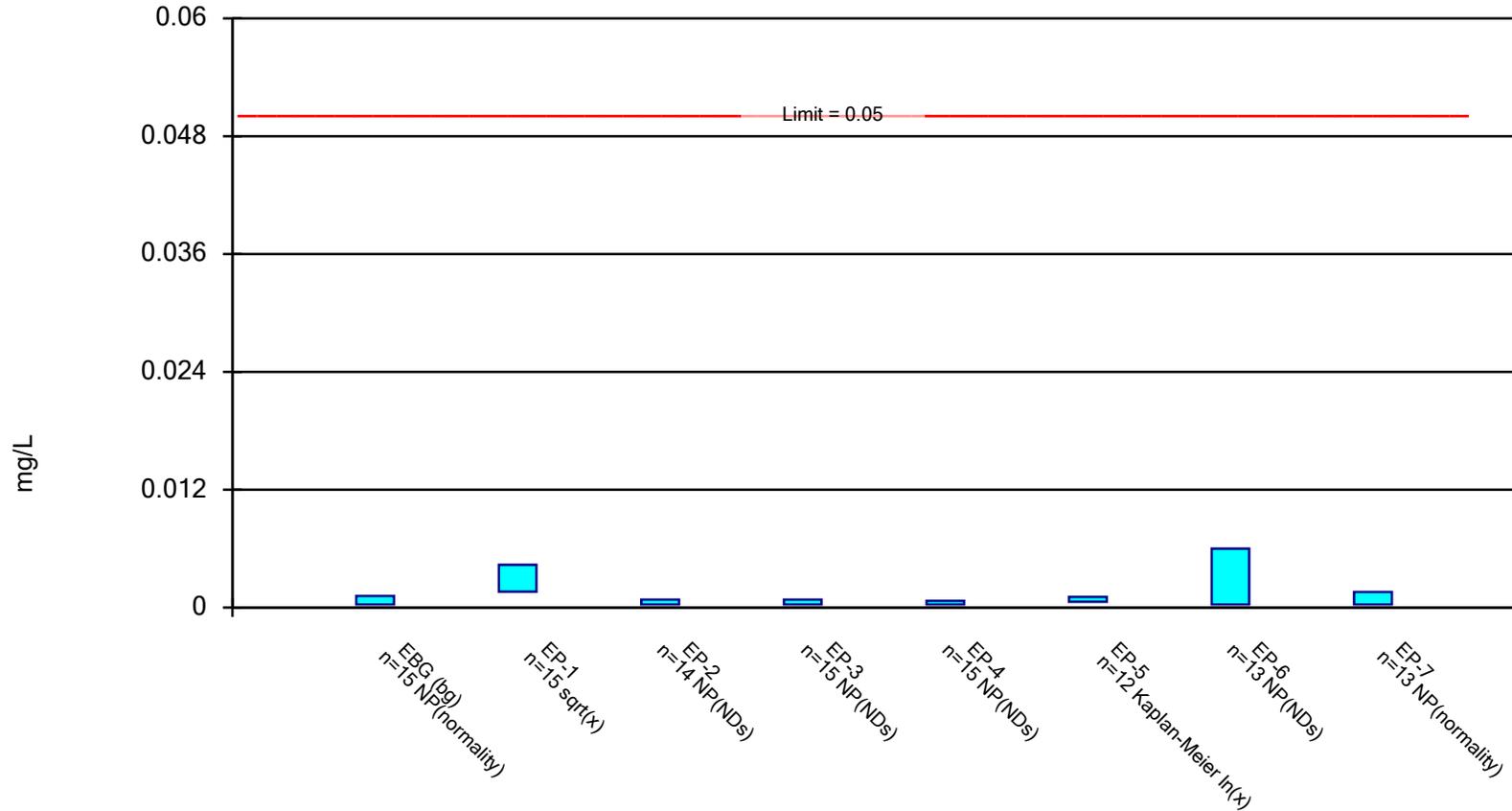
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 1/28/2025 9:36 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

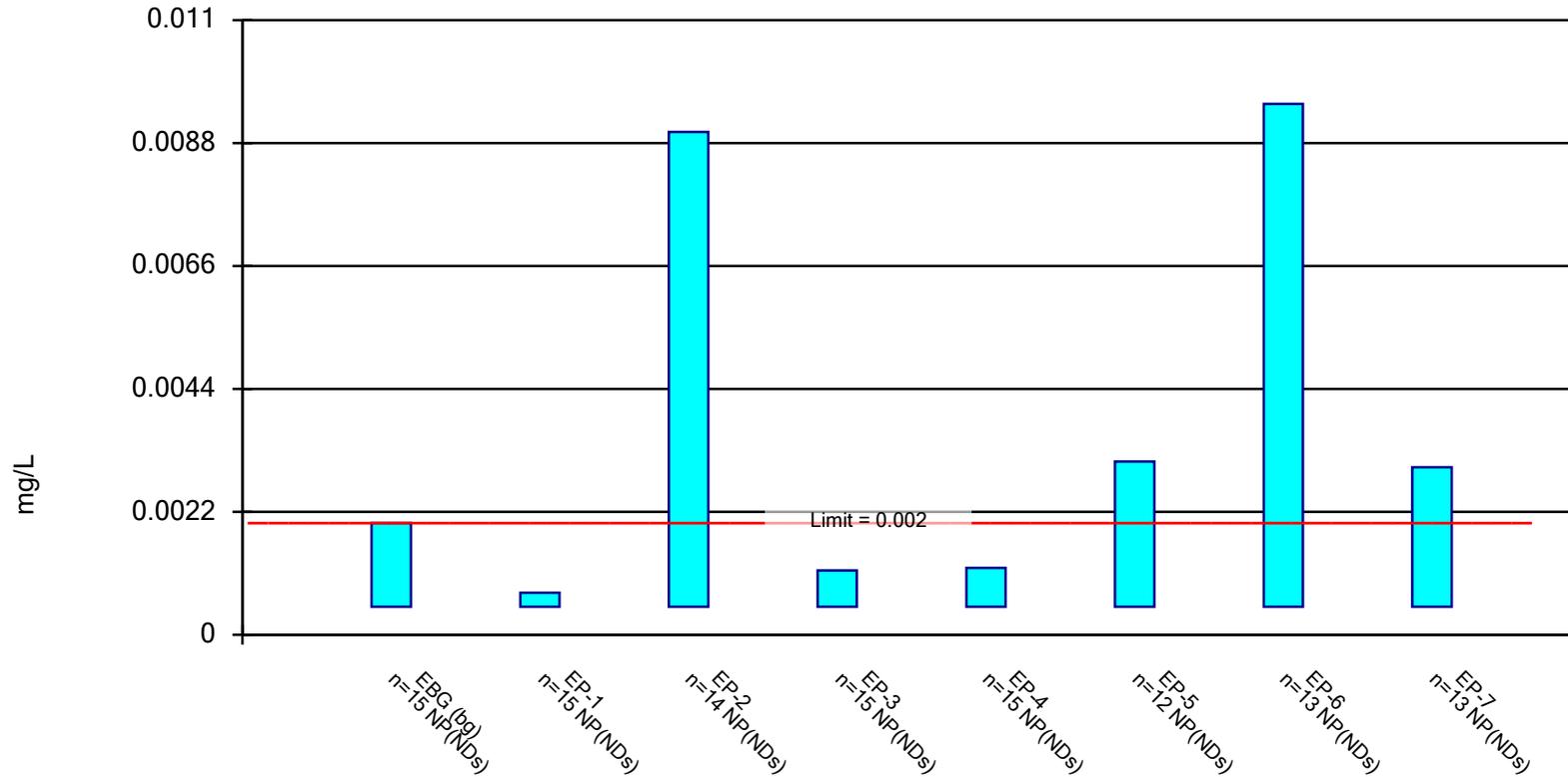
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 1/28/2025 9:36 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



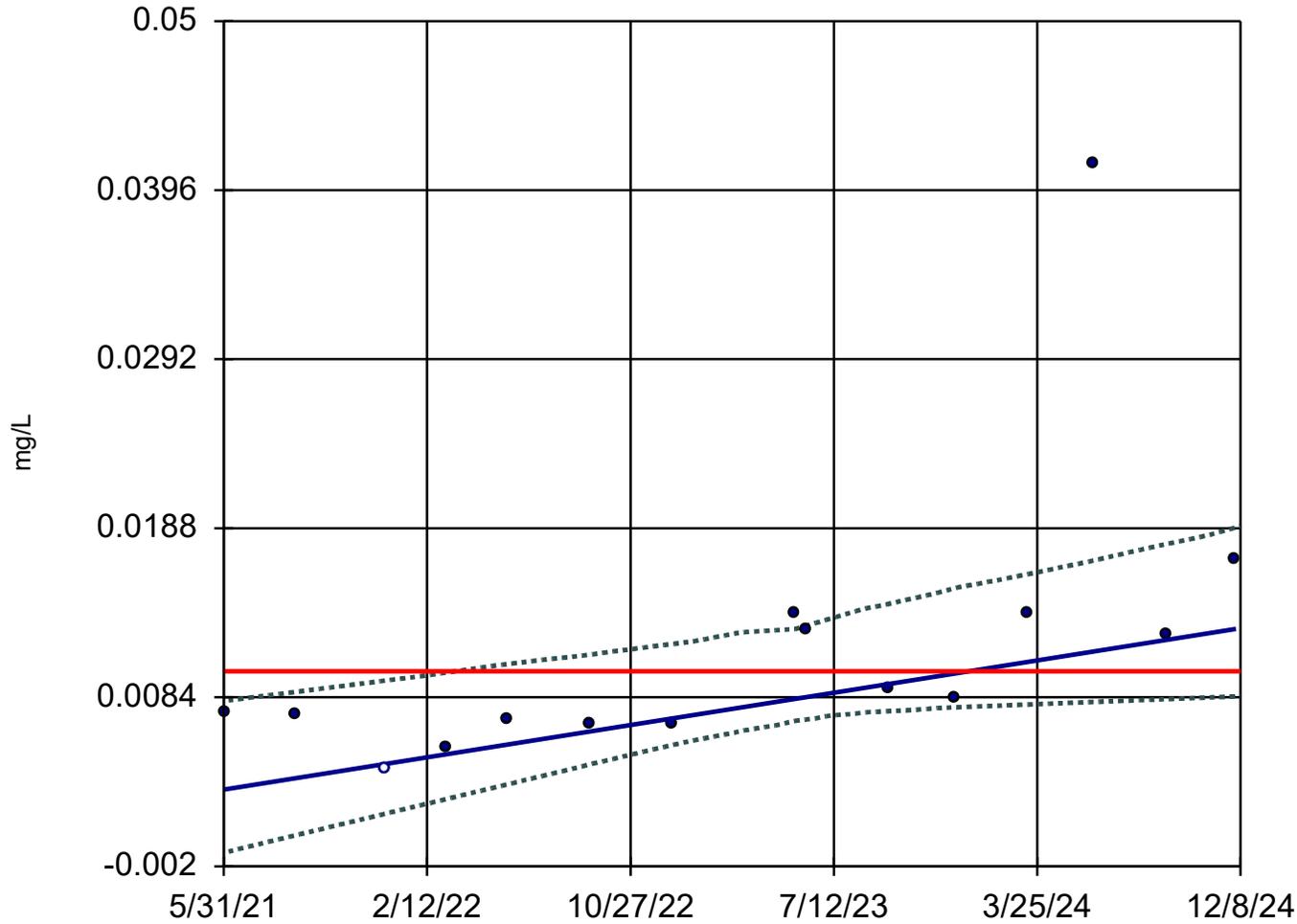
Constituent: Thallium Analysis Run 1/28/2025 9:36 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

APPENDIX D-2

Q4 2024 Statistically Significant Trends

Sen's Slope and 95% Confidence Band

EP-4



n = 15

Slope = 0.002815
units per year.

Mann-Kendall
statistic = 54
critical = 48

Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

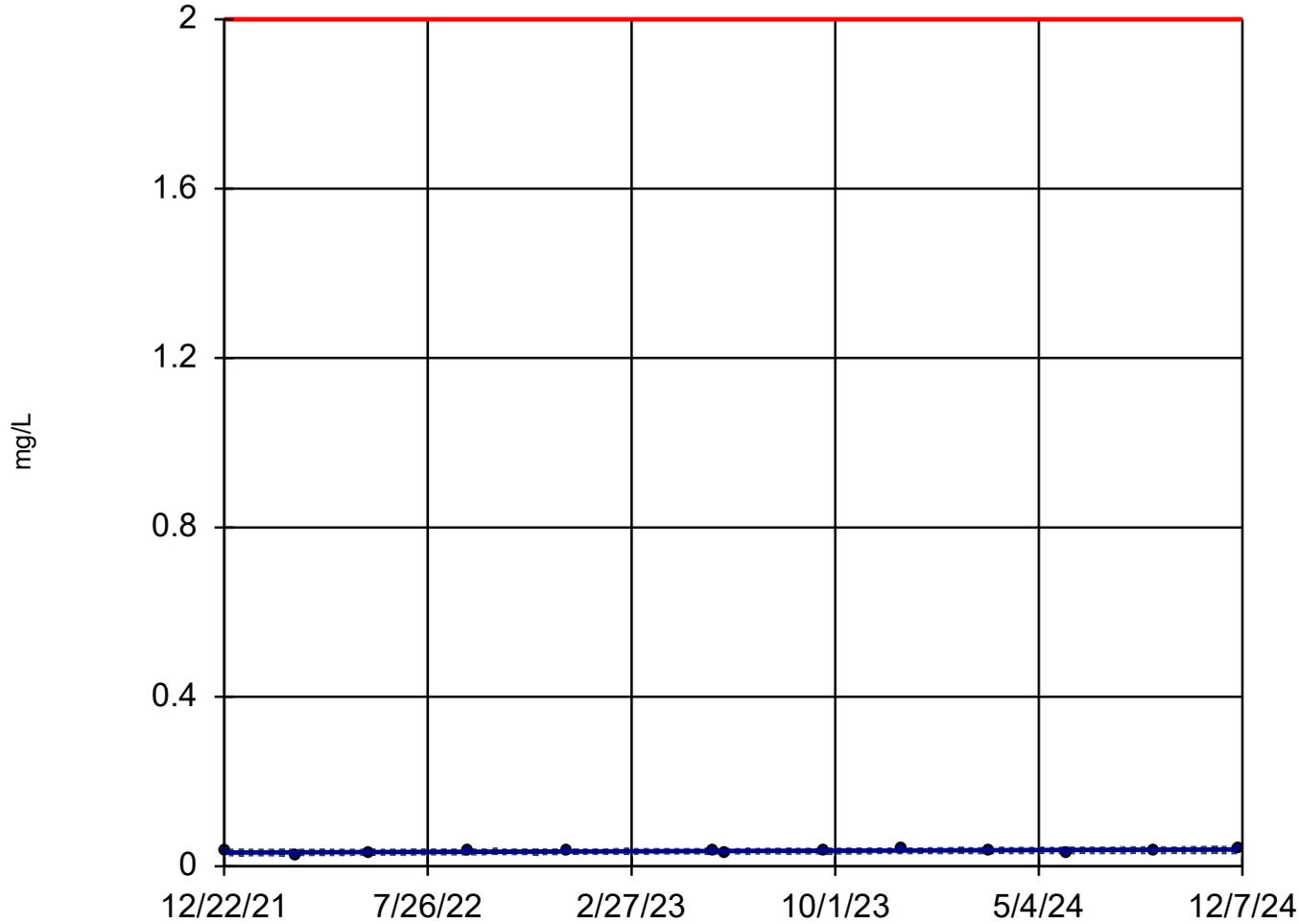
Confidence band intersects
EPA (0.01) on 03/28/22.

Constituent: Arsenic Analysis Run 1/28/2025 8:35 AM

Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-7



n = 13

Slope = 0.002292
units per year.

Mann-Kendall
statistic = 40
critical = 39

Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

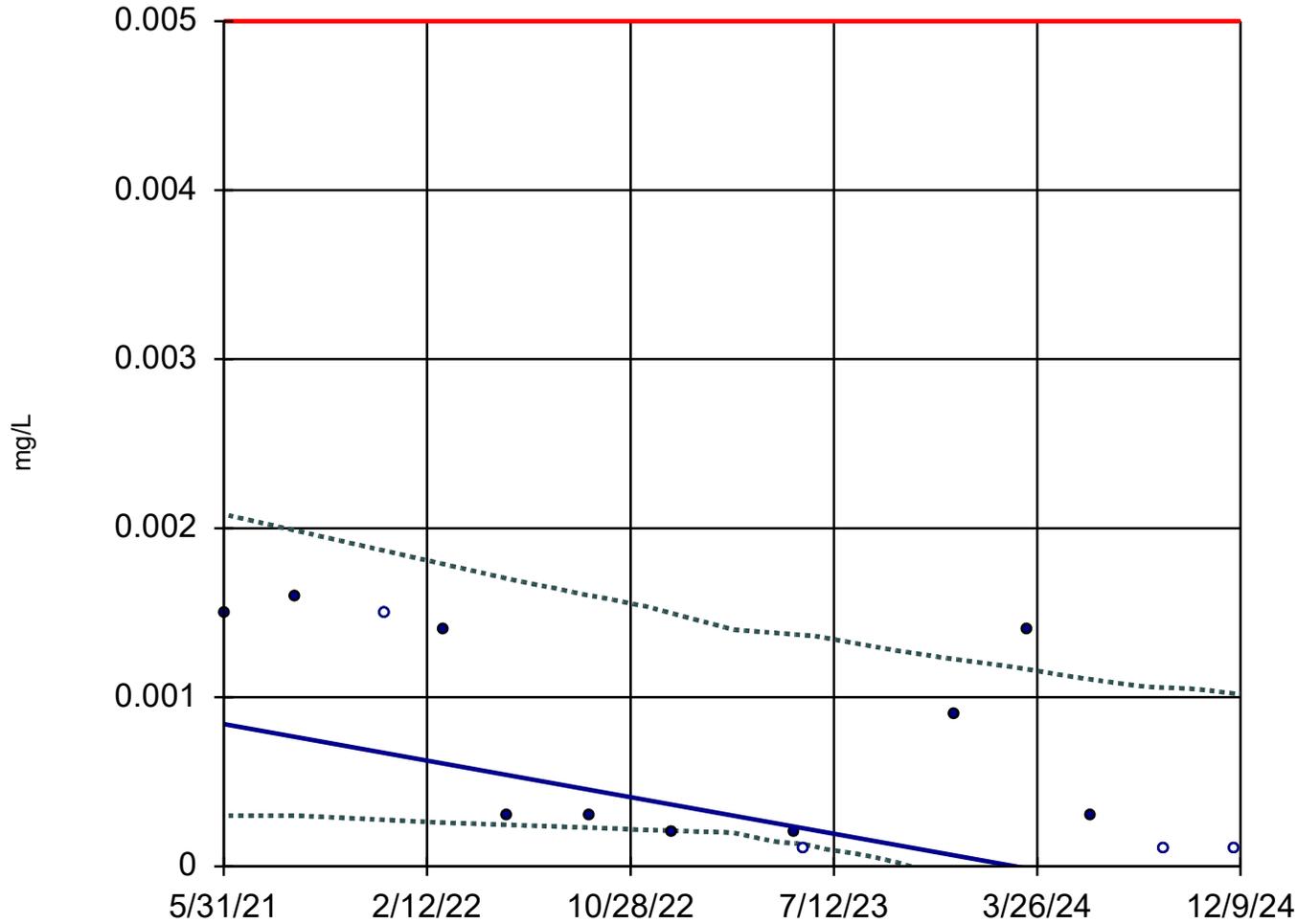
Confidence band is
below EPA (2).

Constituent: Barium Analysis Run 1/28/2025 8:35 AM

Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-2

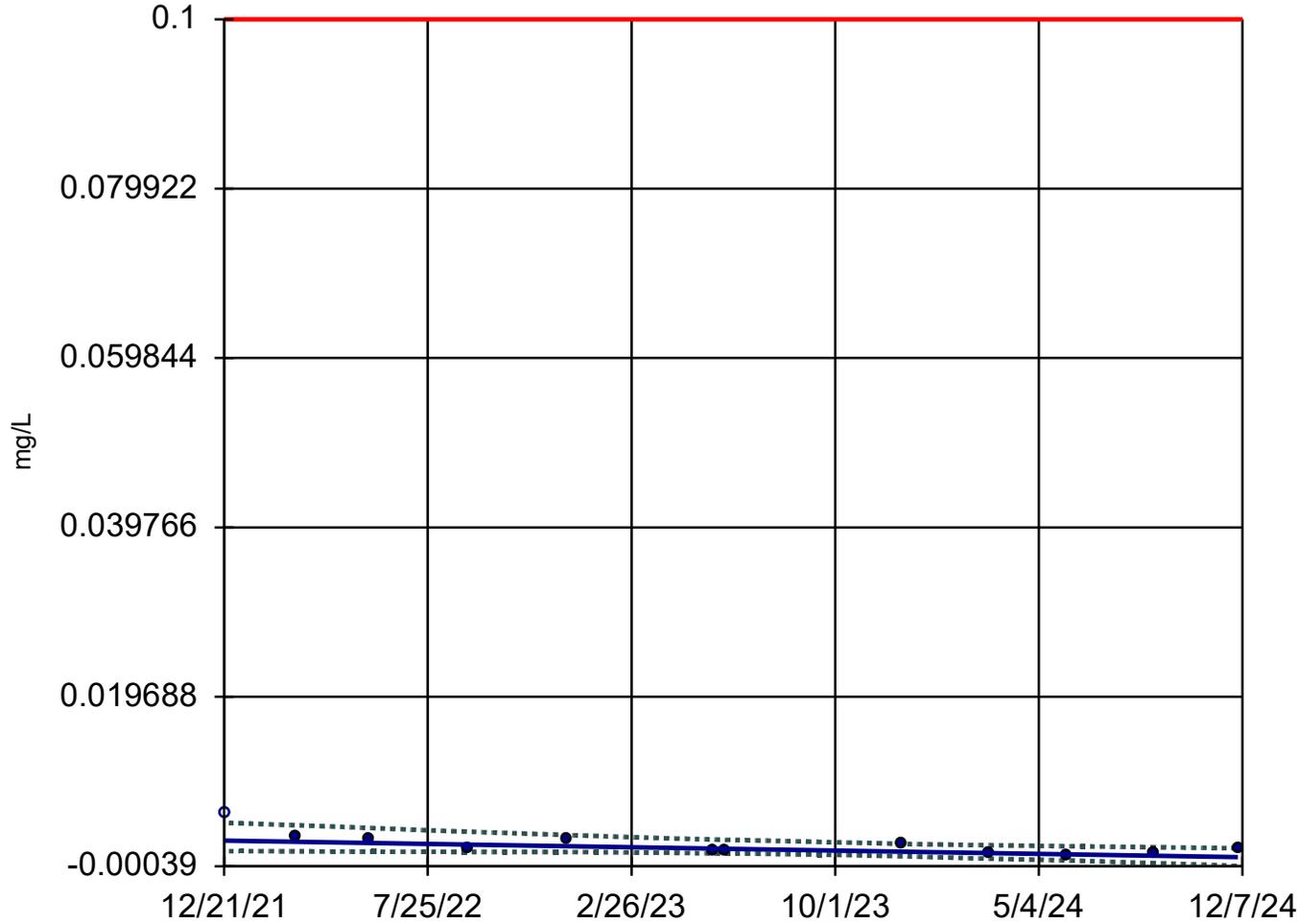


n = 14
Slope = -0.0003064
units per year.
Mann-Kendall
statistic = -52
critical = -44
Decreasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).
Confidence band is
below EPA (0.005).

Constituent: Cadmium Analysis Run 1/28/2025 8:35 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-5

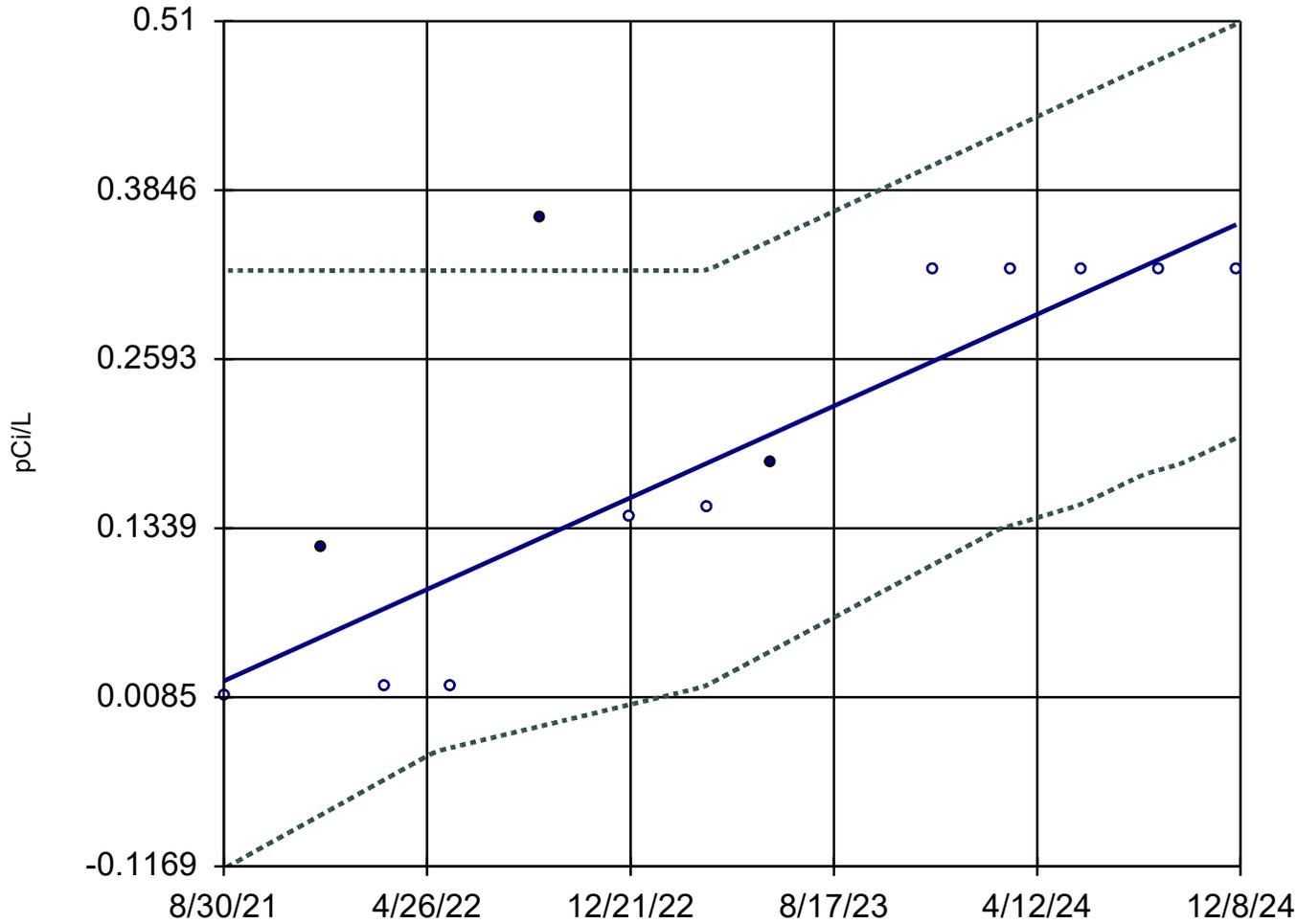


n = 12
Slope = -0.0006577
units per year.
Mann-Kendall
statistic = -41
critical = -35
Decreasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).
Confidence band is
below EPA (0.1).

Constituent: Molybdenum Analysis Run 1/28/2025 8:36 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-2



n = 13

Slope = 0.1037
units per year.

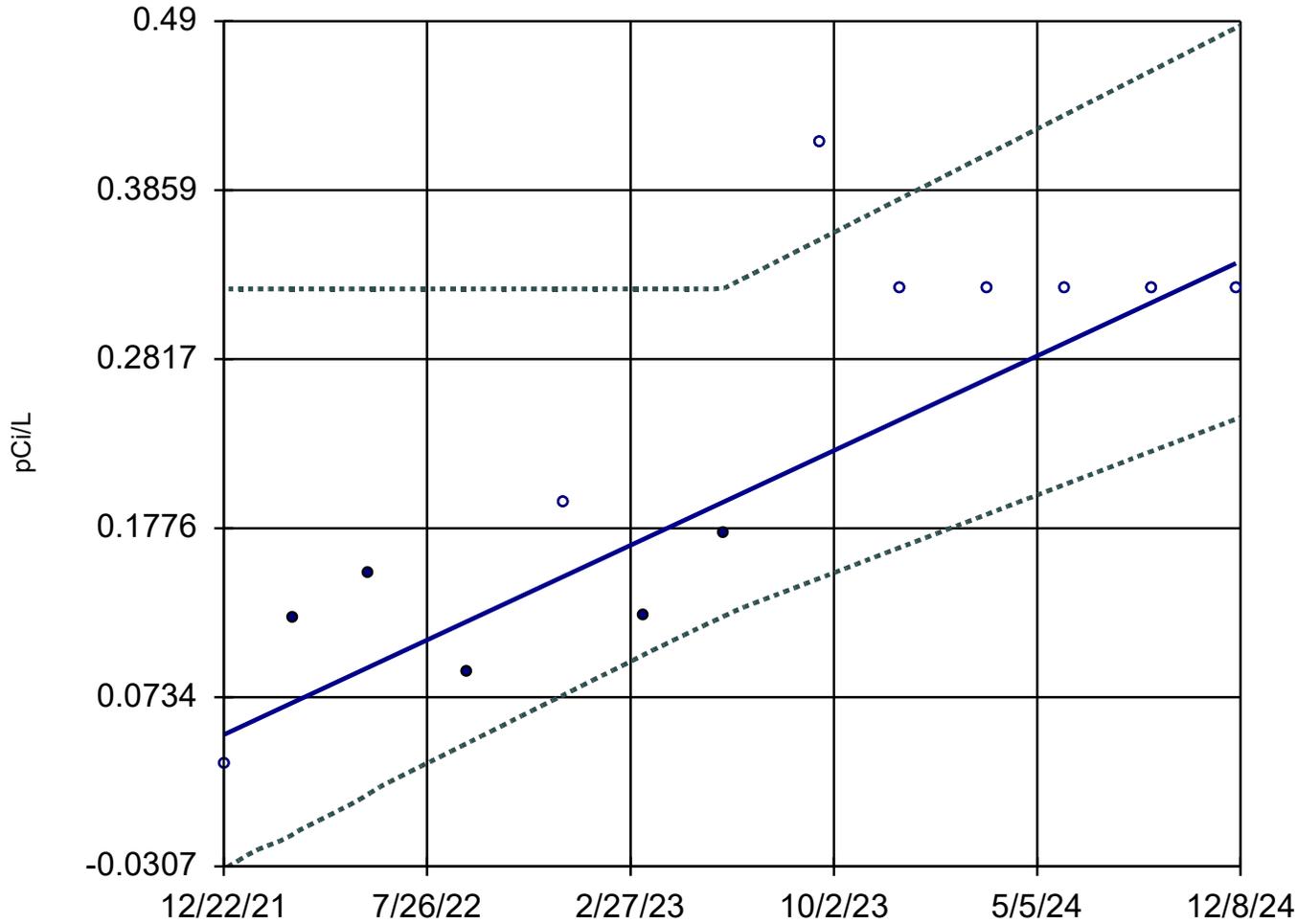
Mann-Kendall
statistic = 46
critical = 39

Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Radium 226 Analysis Run 1/28/2025 8:36 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-6

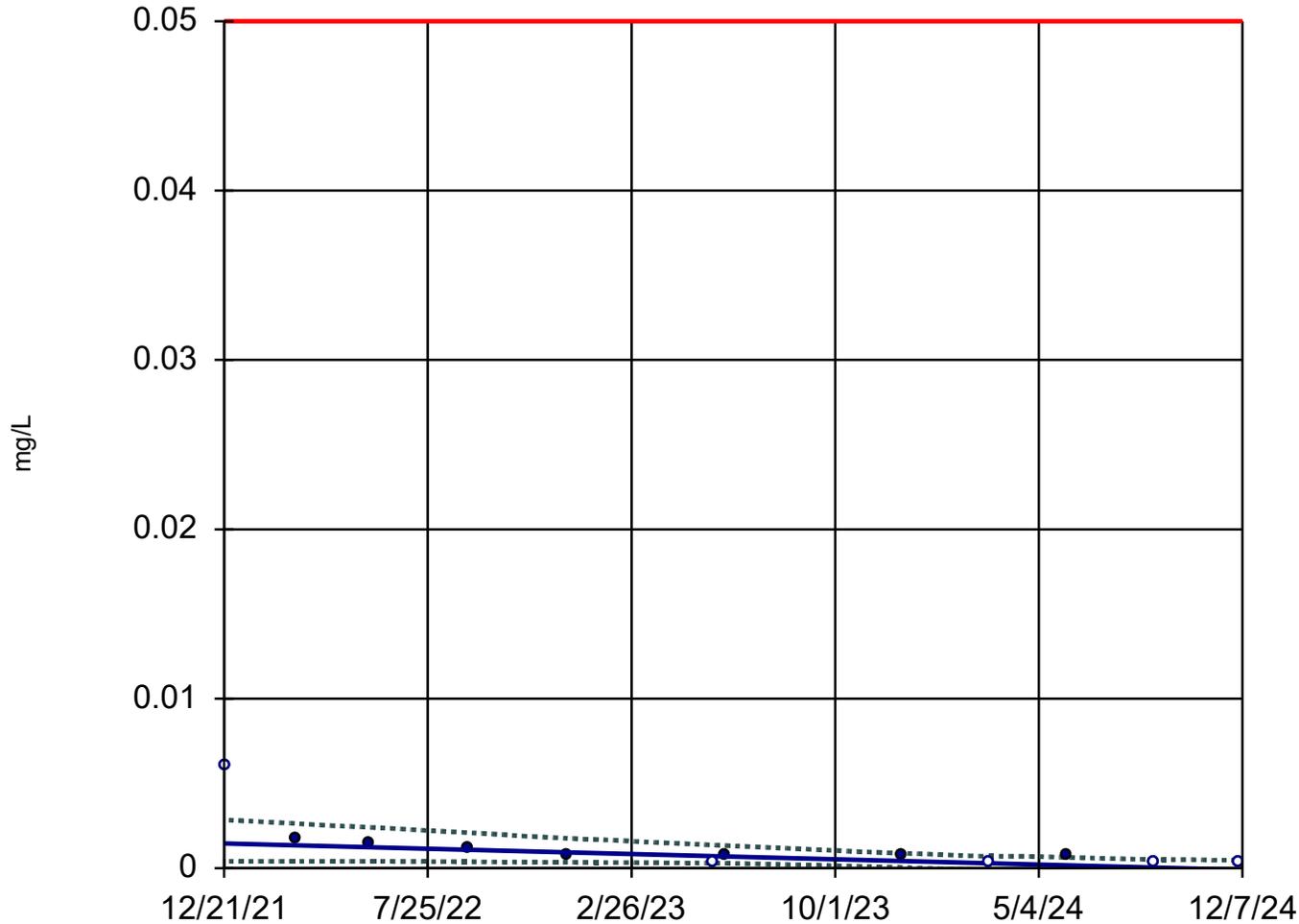


n = 13
Slope = 0.09843 units per year.
Mann-Kendall statistic = 48
critical = 39
Increasing trend significant at 98% confidence level ($\alpha = 0.01$ per tail).

Constituent: Radium 226 Analysis Run 1/28/2025 8:36 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-5



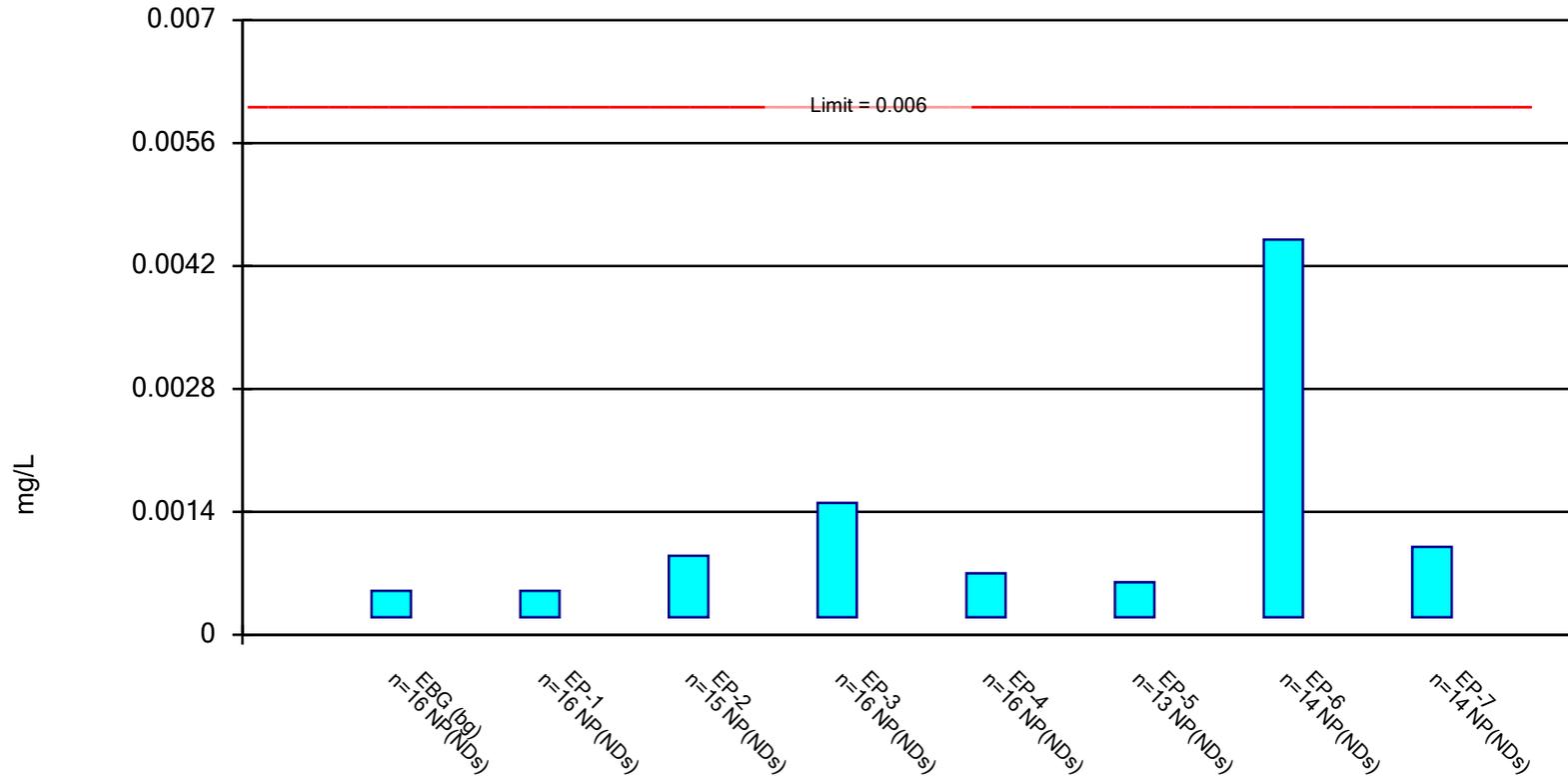
n = 12
Slope = -0.0005233
units per year.
Mann-Kendall
statistic = -45
critical = -35
Decreasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).
Confidence band is
below EPA (0.05).

APPENDIX D-3

**Q1 2025 Groundwater Protection
Standard Exceedances**

Non-Parametric Confidence Interval

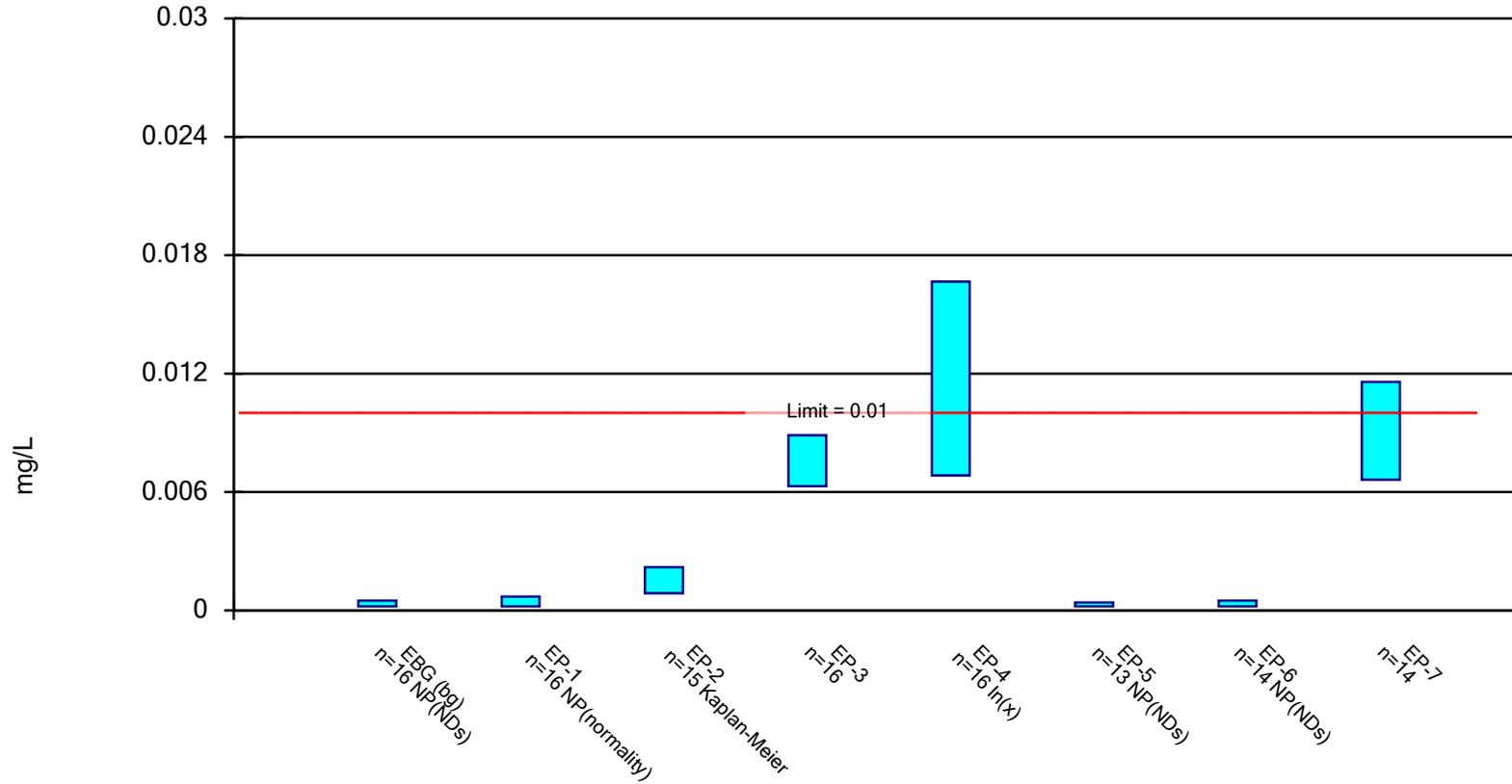
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 4/18/2025 11:52 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

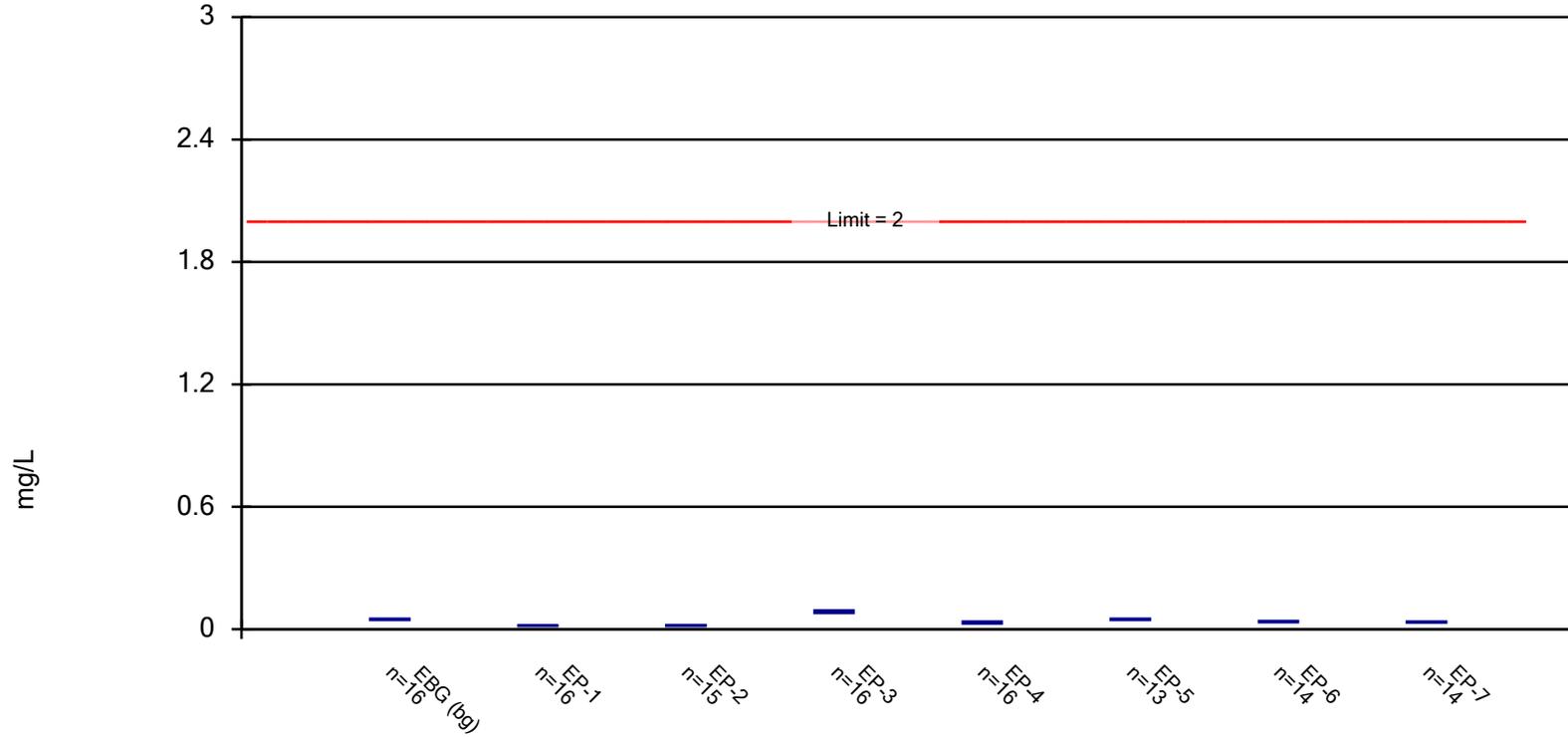
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 4/18/2025 11:52 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric Confidence Interval

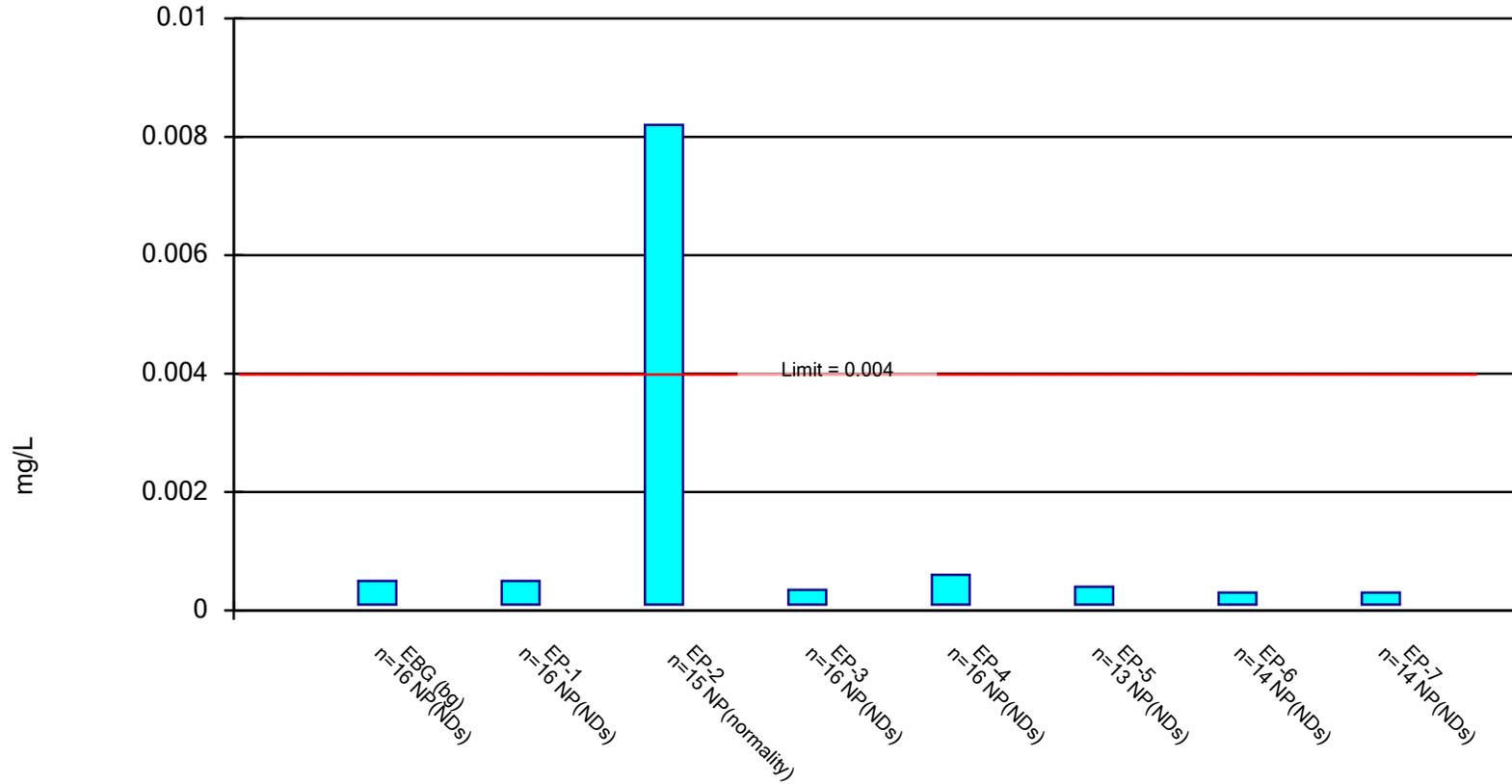
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/18/2025 11:52 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Non-Parametric Confidence Interval

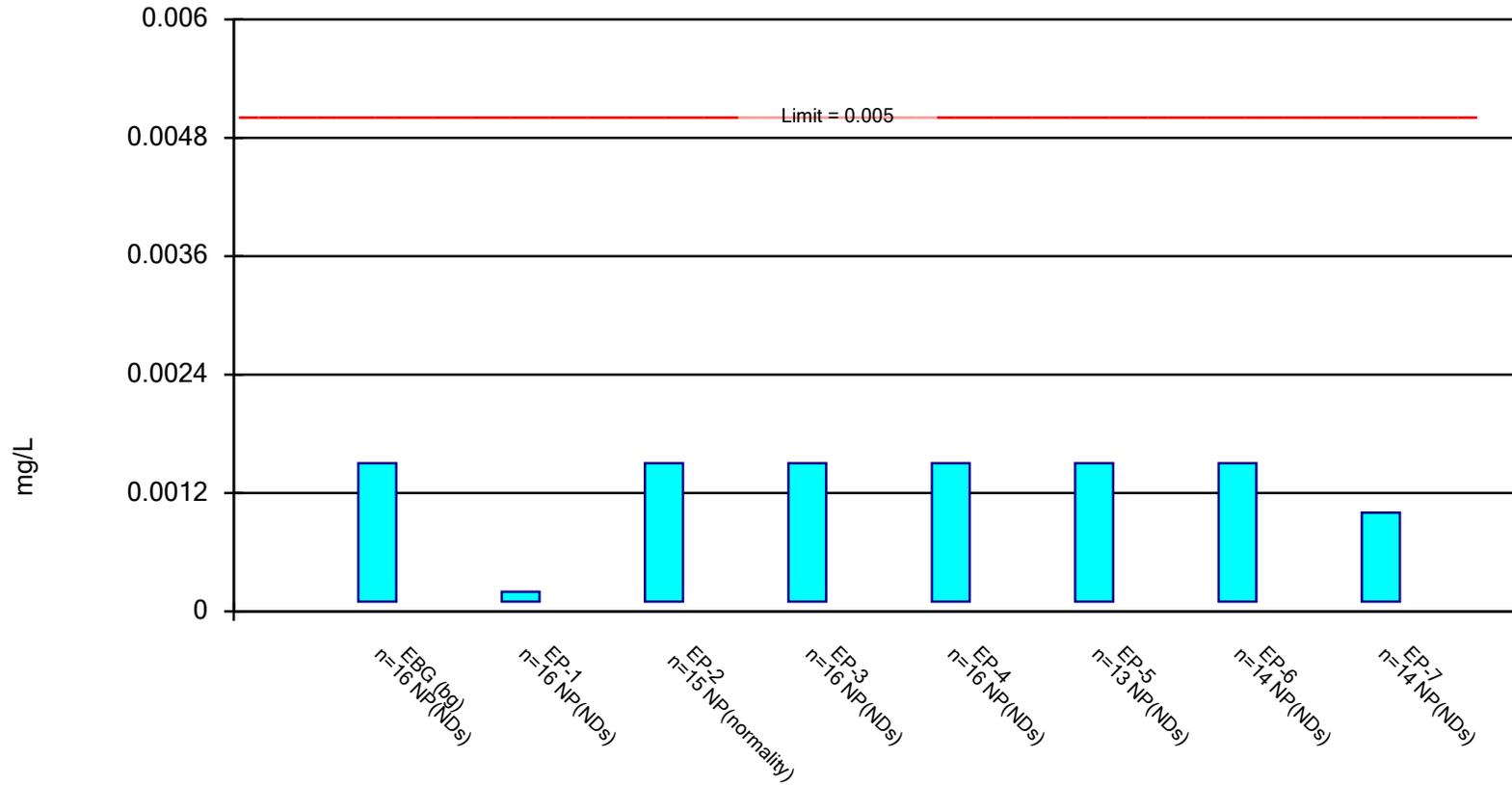
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 4/18/2025 11:52 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Non-Parametric Confidence Interval

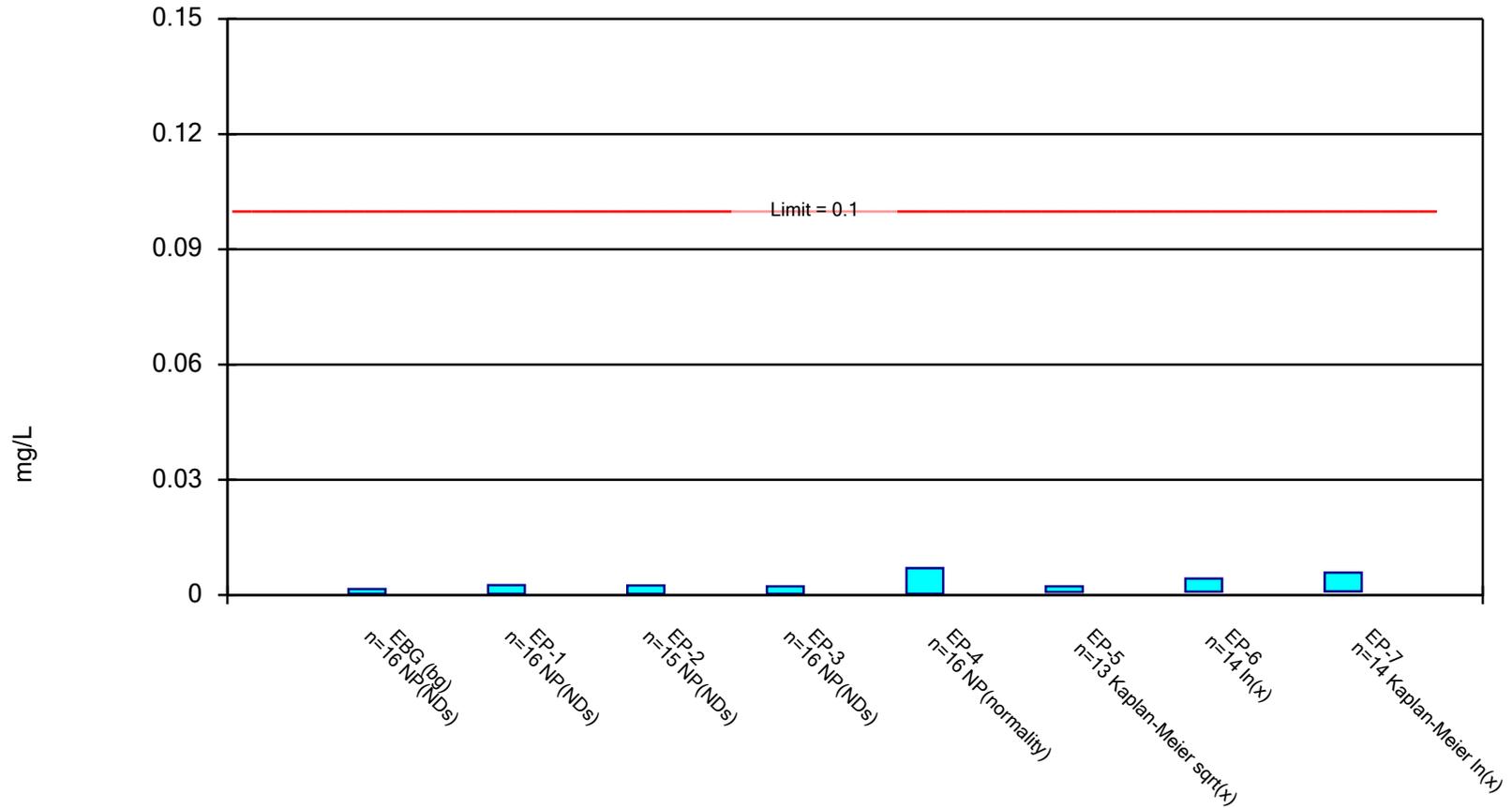
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 4/18/2025 11:52 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

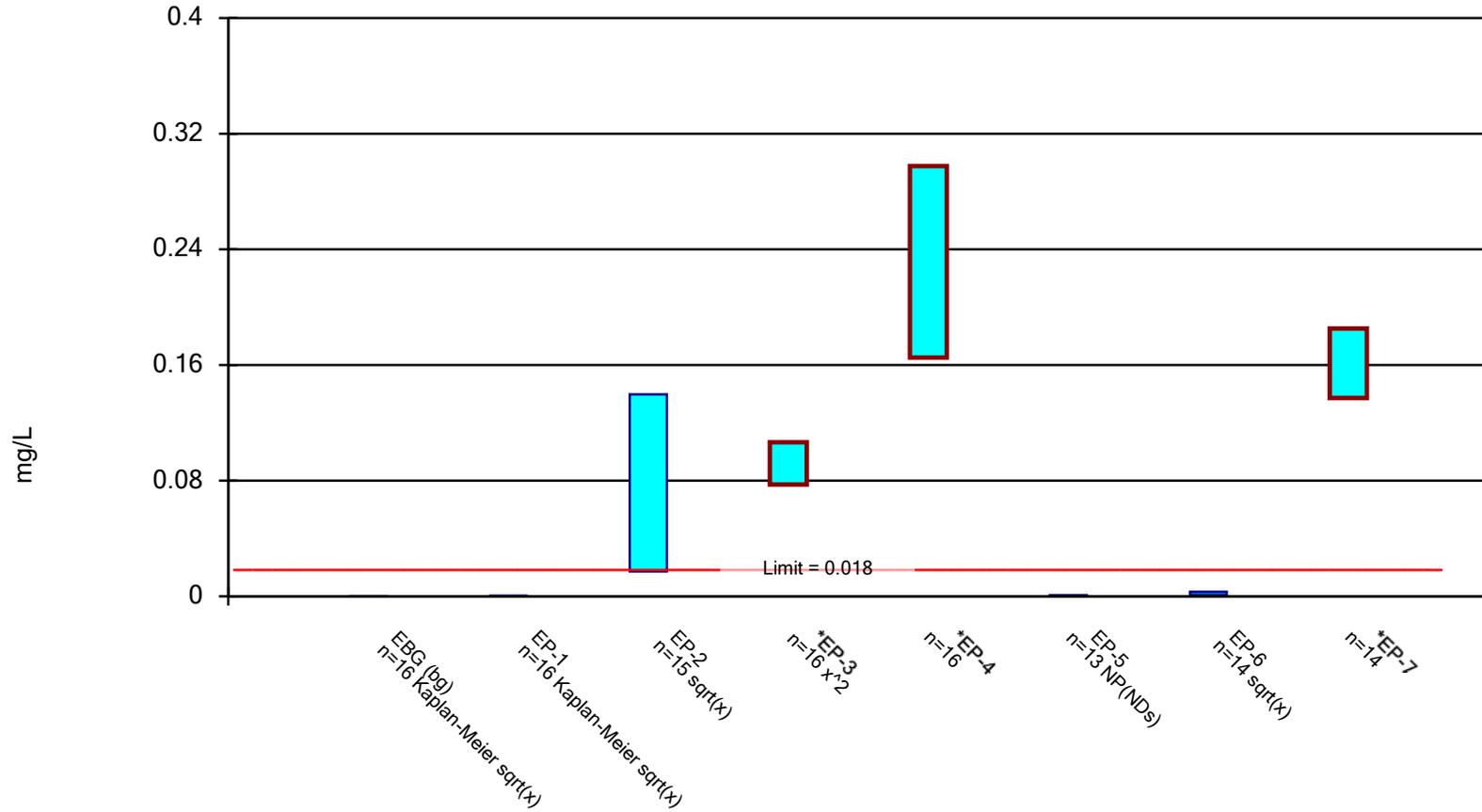
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 4/18/2025 11:52 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

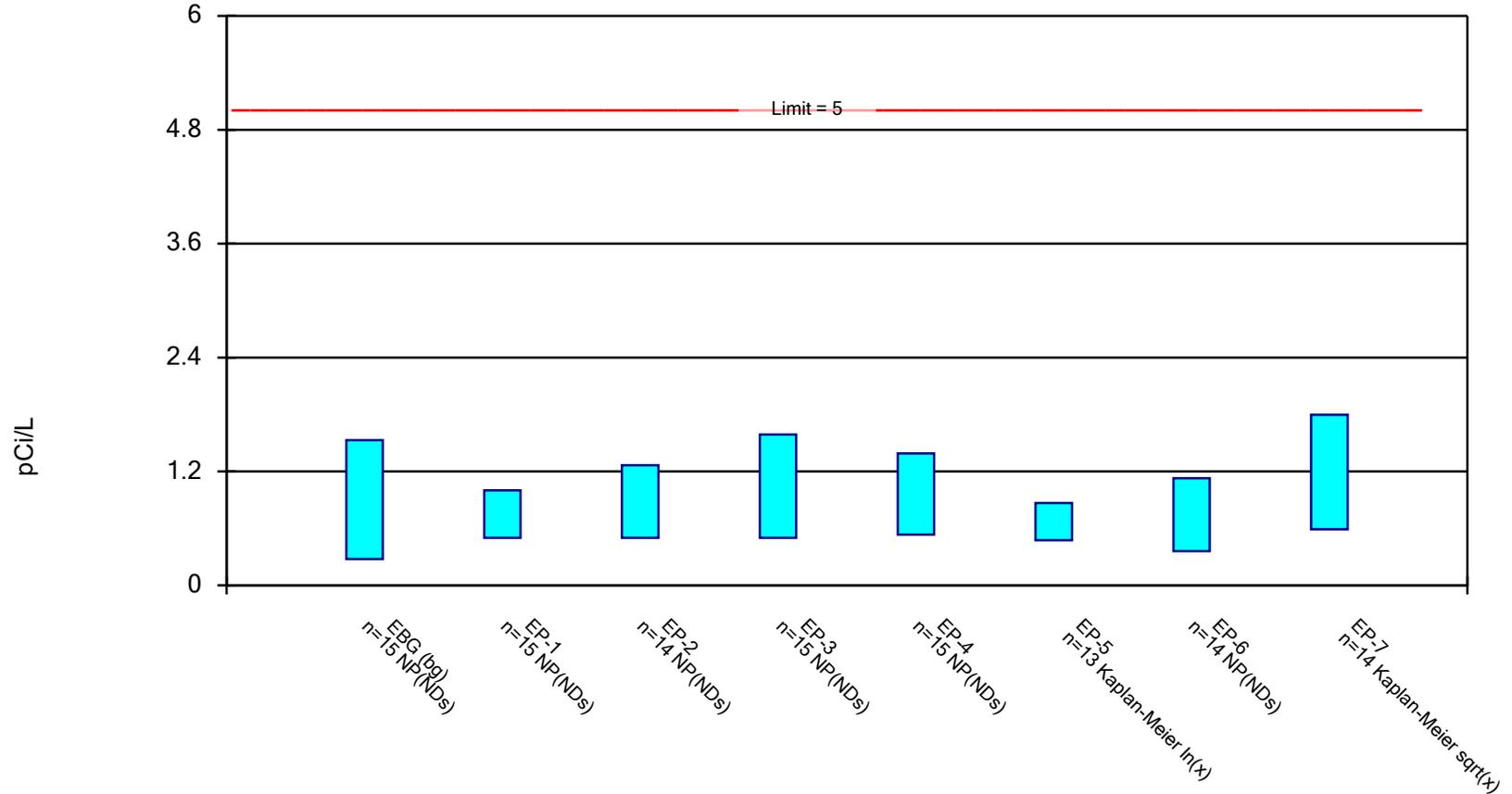


Constituent: Cobalt Analysis Run 4/18/2025 11:52 AM

Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

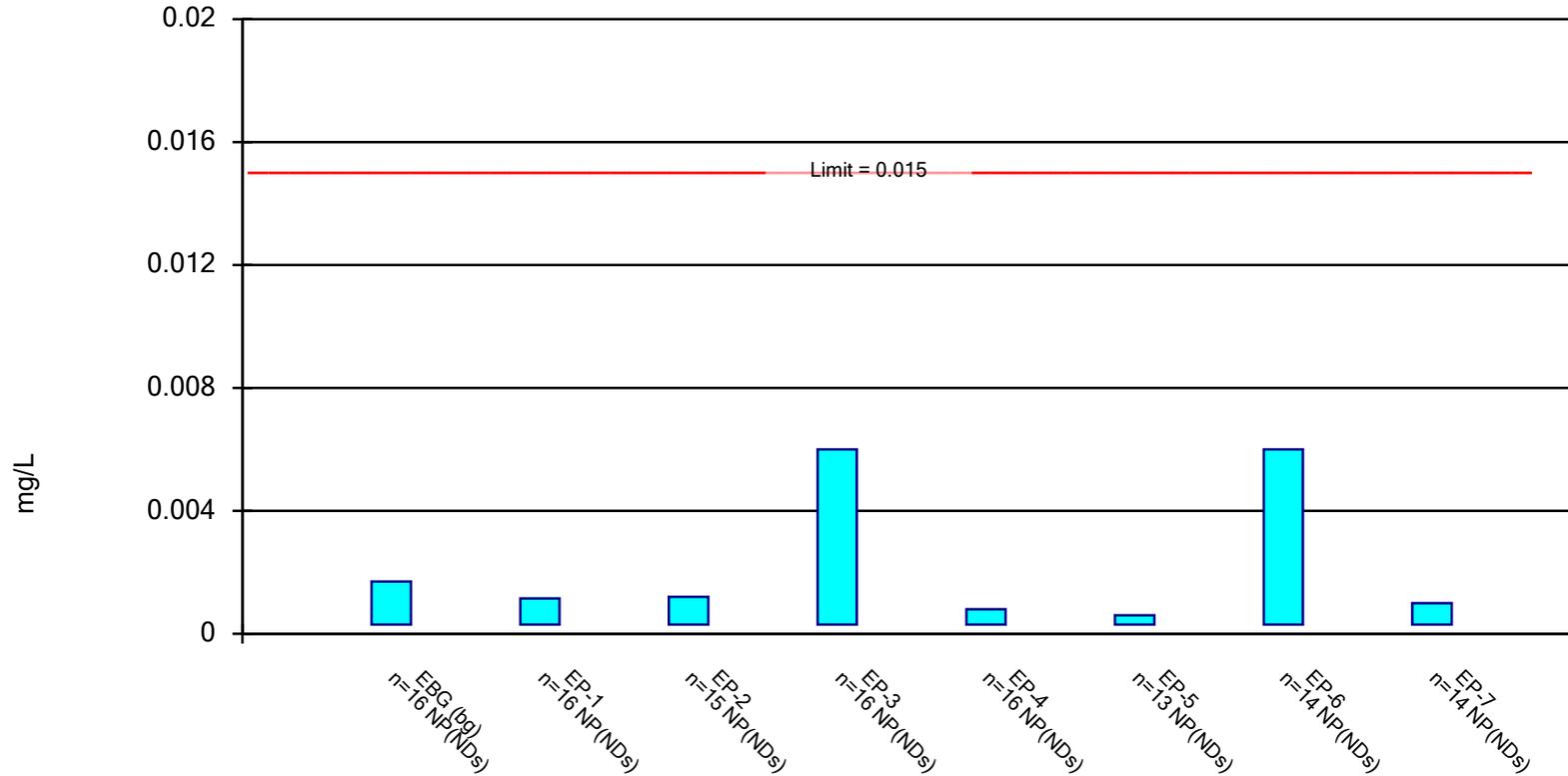
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium Analysis Run 4/18/2025 11:52 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Non-Parametric Confidence Interval

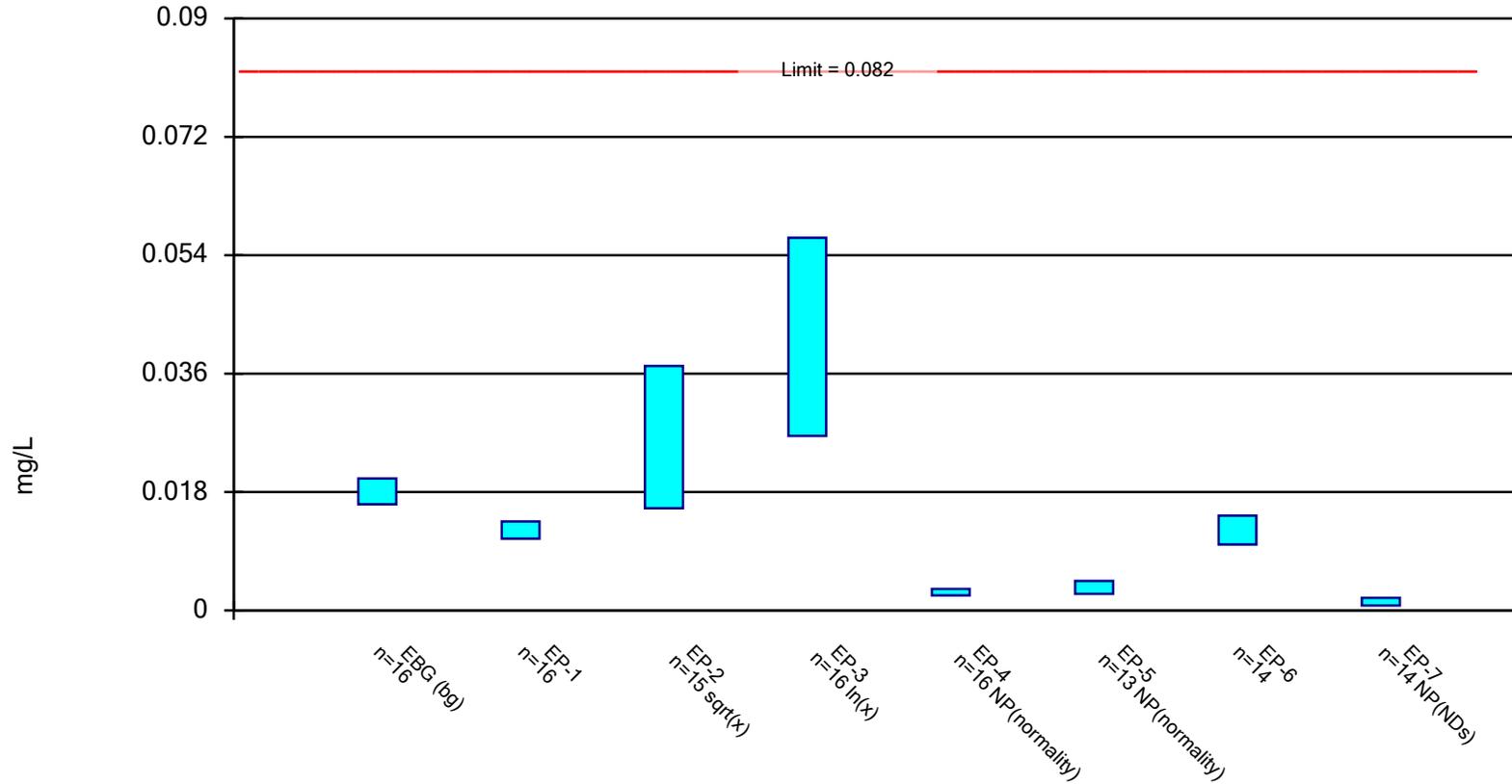
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 4/18/2025 11:52 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

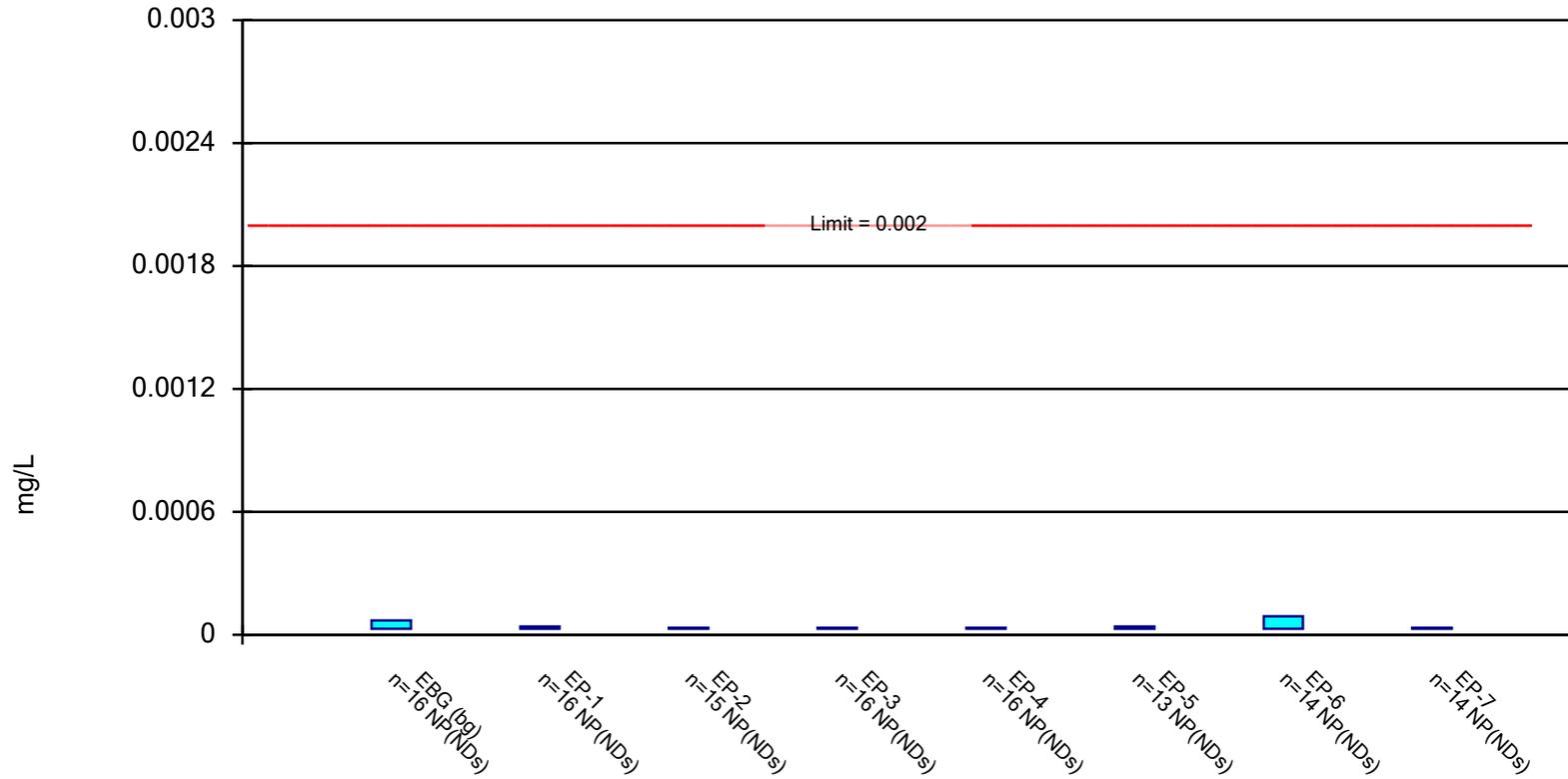
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/18/2025 11:52 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Non-Parametric Confidence Interval

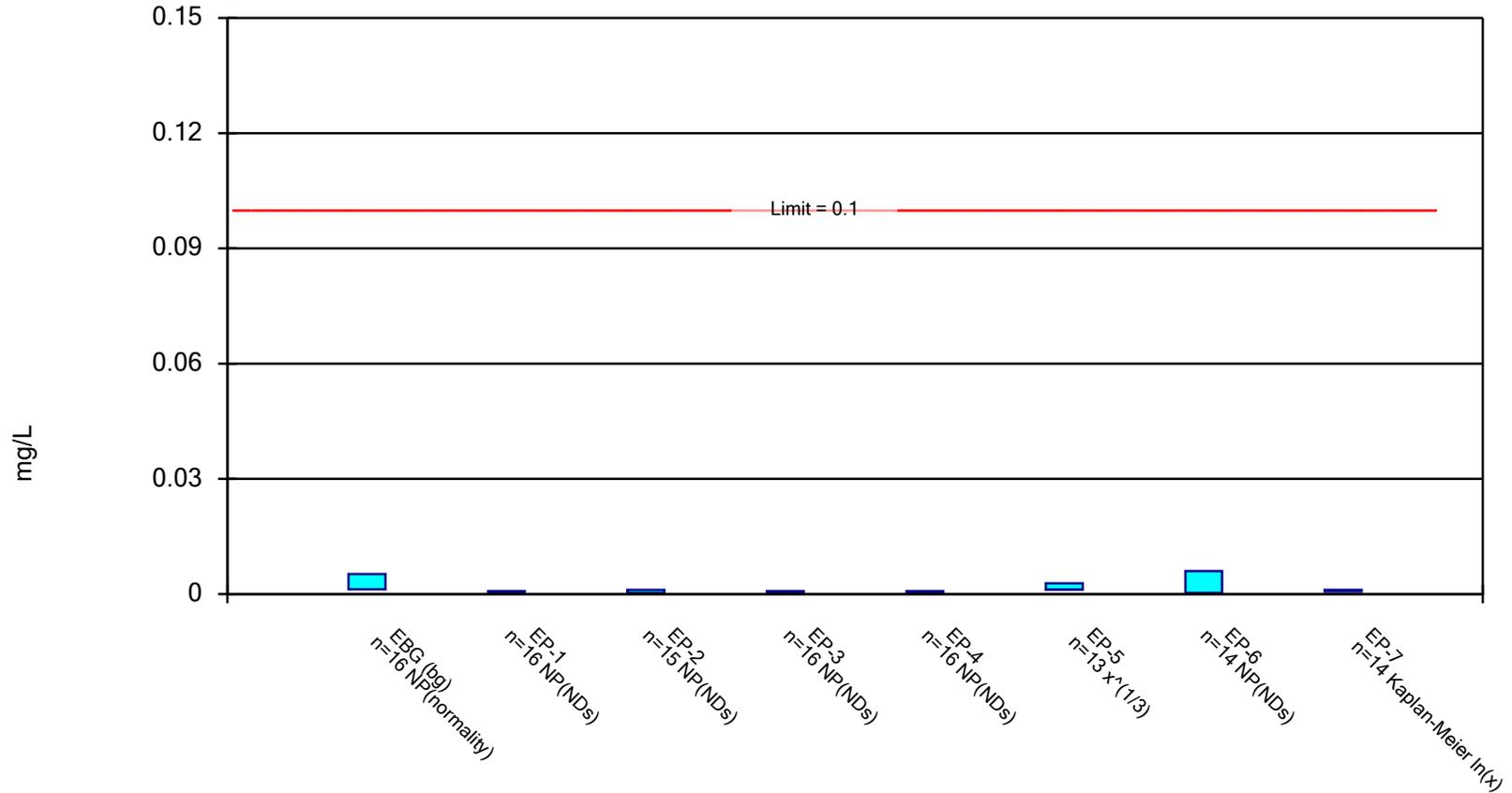
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 4/18/2025 11:53 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

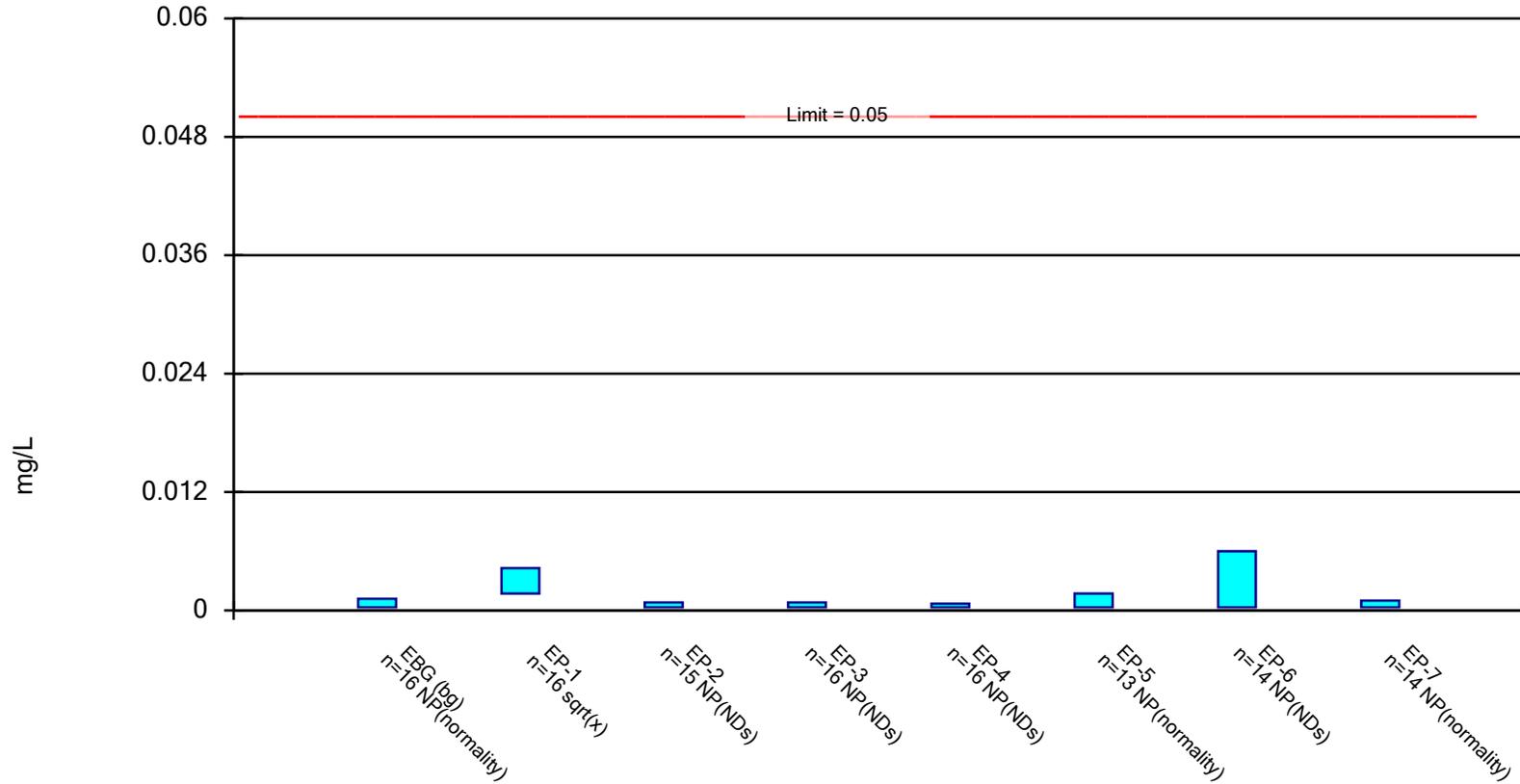
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/18/2025 11:53 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

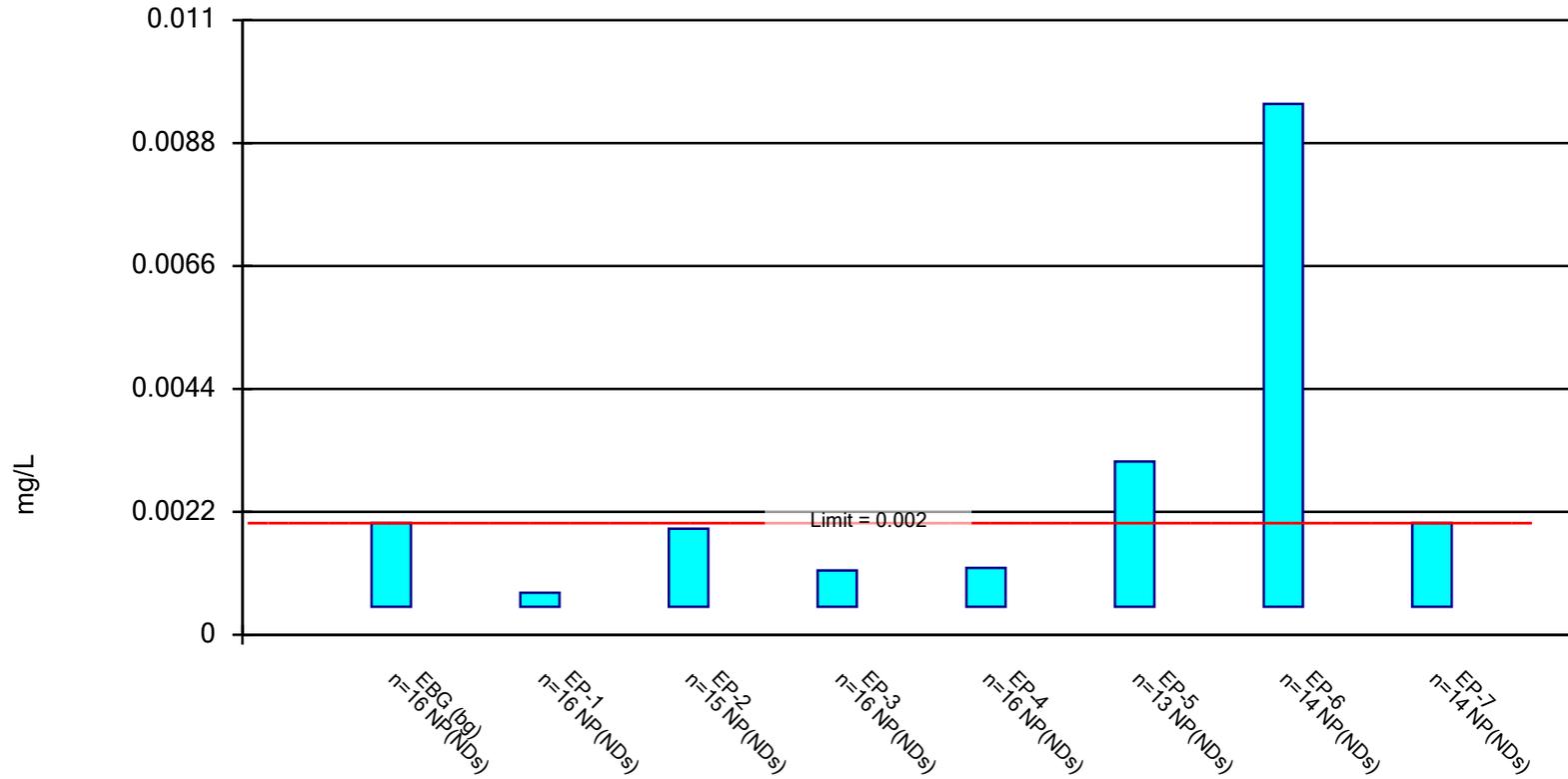
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/18/2025 11:53 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



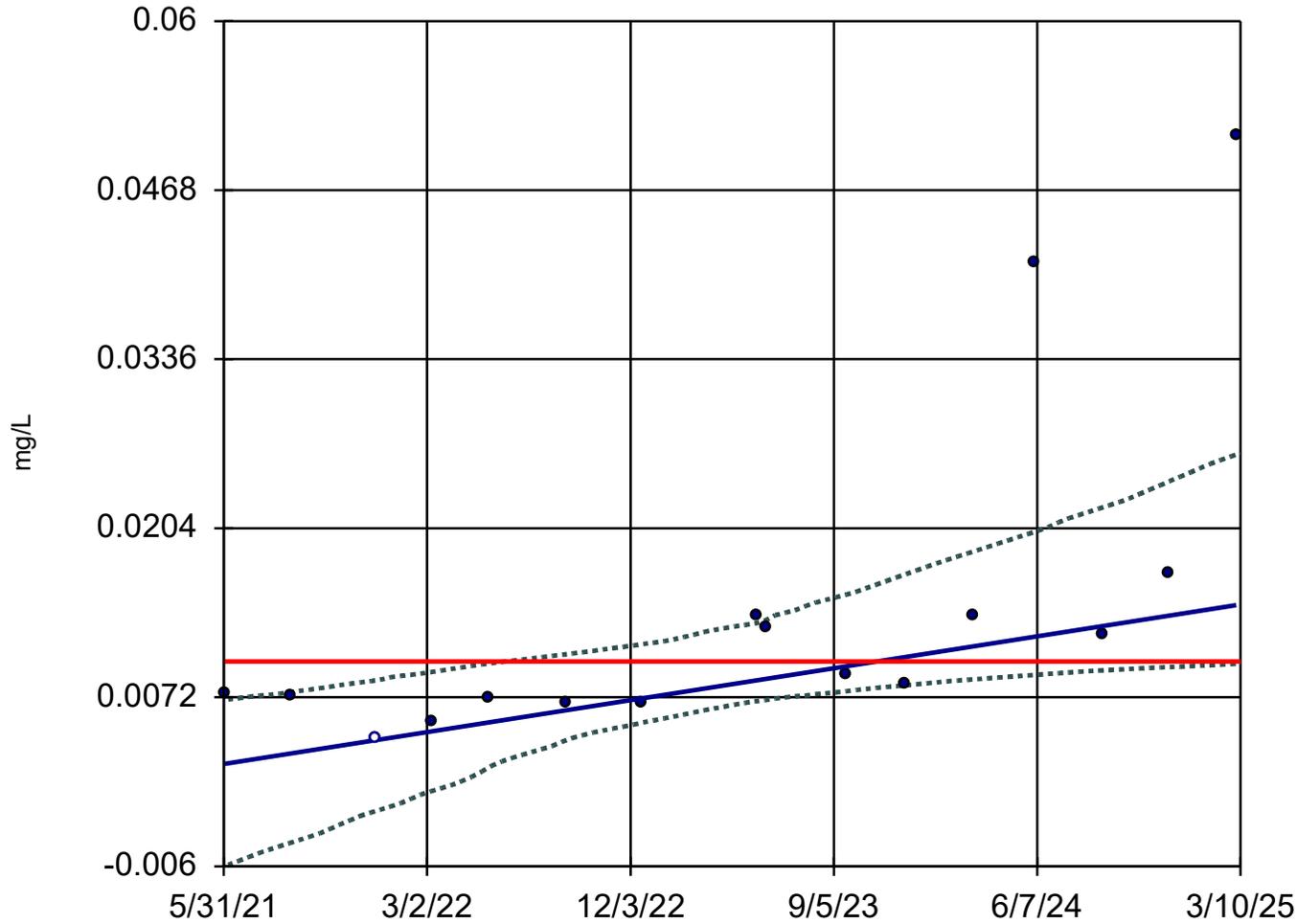
Constituent: Thallium Analysis Run 4/18/2025 11:53 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

APPENDIX D-4

**Q1 2025 Statistically
Significant Trends**

Sen's Slope and 95% Confidence Band

EP-4



n = 16

Slope = 0.003298
units per year.

Mann-Kendall
statistic = 69
critical = 53

Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

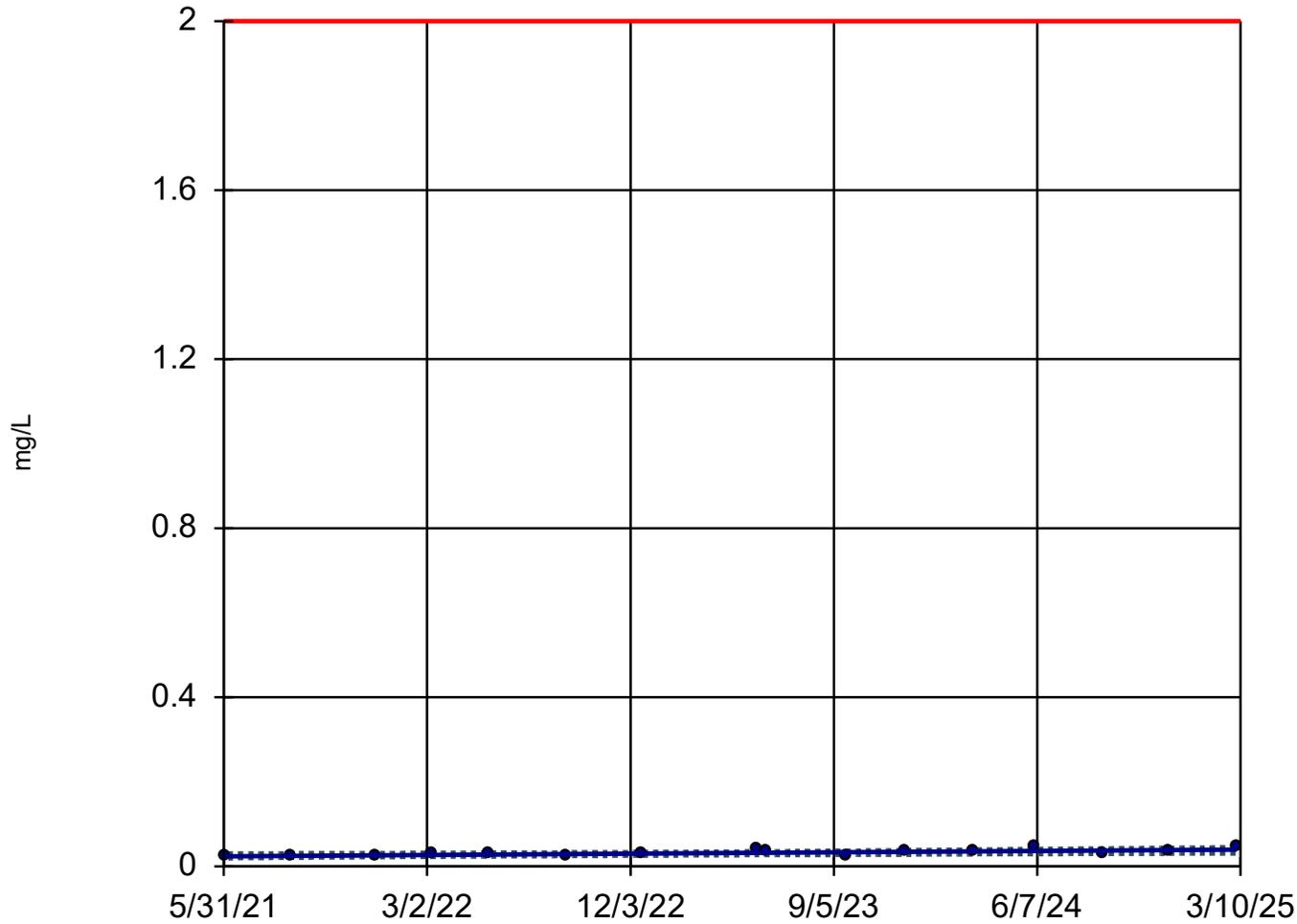
Confidence band intersects
EPA (0.01) on 06/26/22.

Constituent: Arsenic Analysis Run 4/18/2025 9:02 AM

Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-4



n = 16

Slope = 0.004039
units per year.

Mann-Kendall
statistic = 62
critical = 53

Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

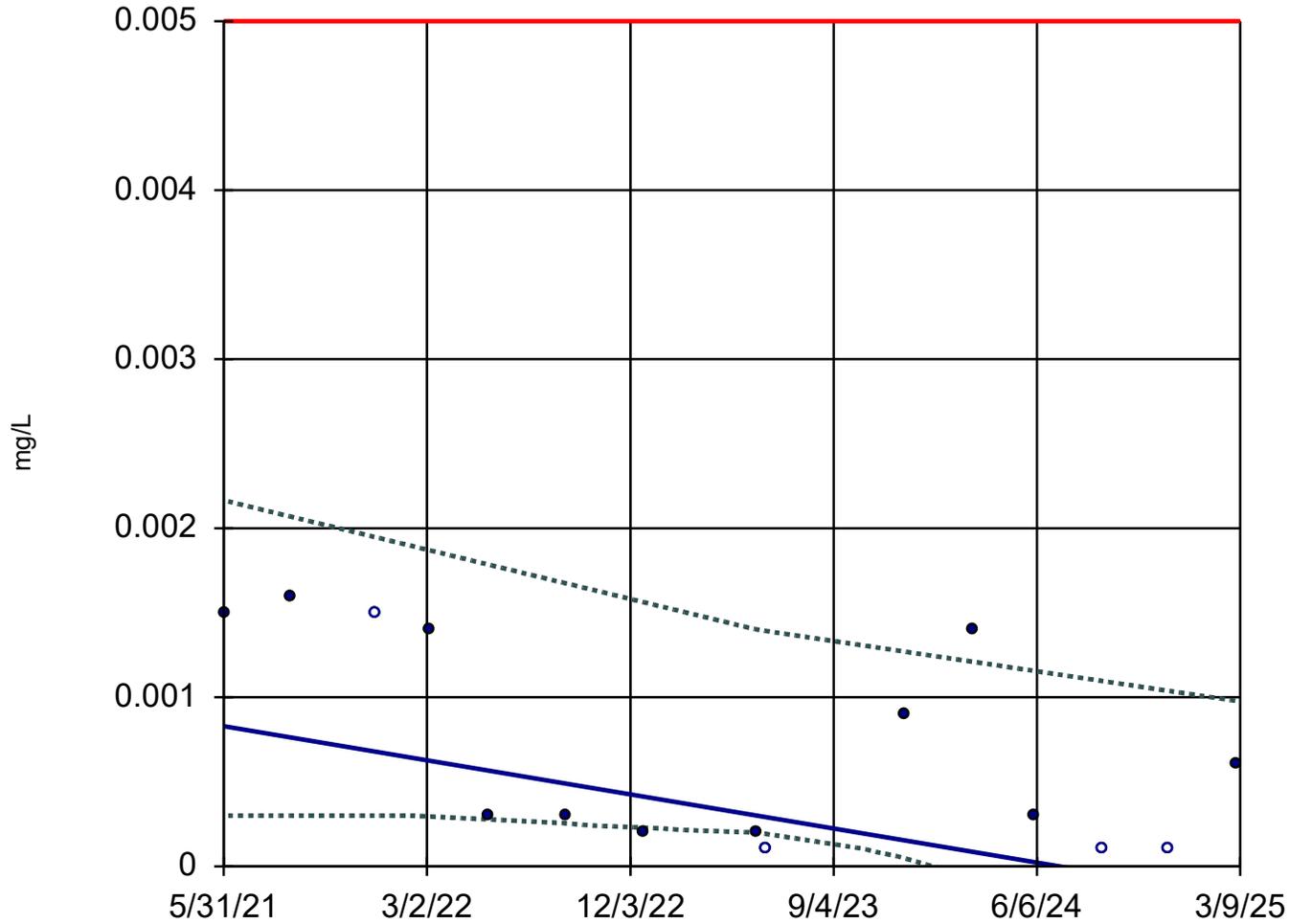
Confidence band is
below EPA (2).

Constituent: Barium Analysis Run 4/18/2025 9:02 AM

Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-2



n = 15

Slope = -0.0002674
units per year.

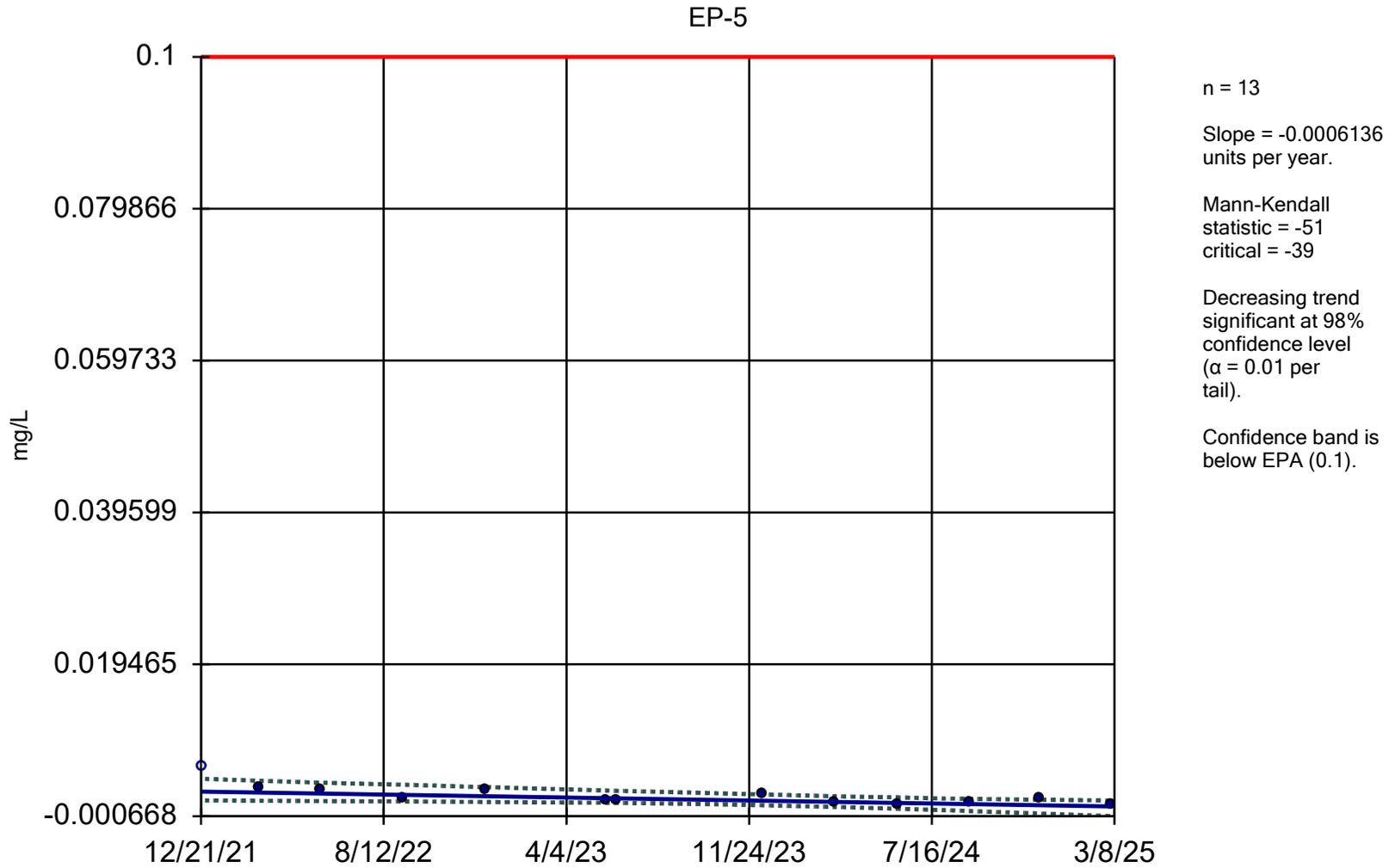
Mann-Kendall
statistic = -50
critical = -48

Decreasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Confidence band is
below EPA (0.005).

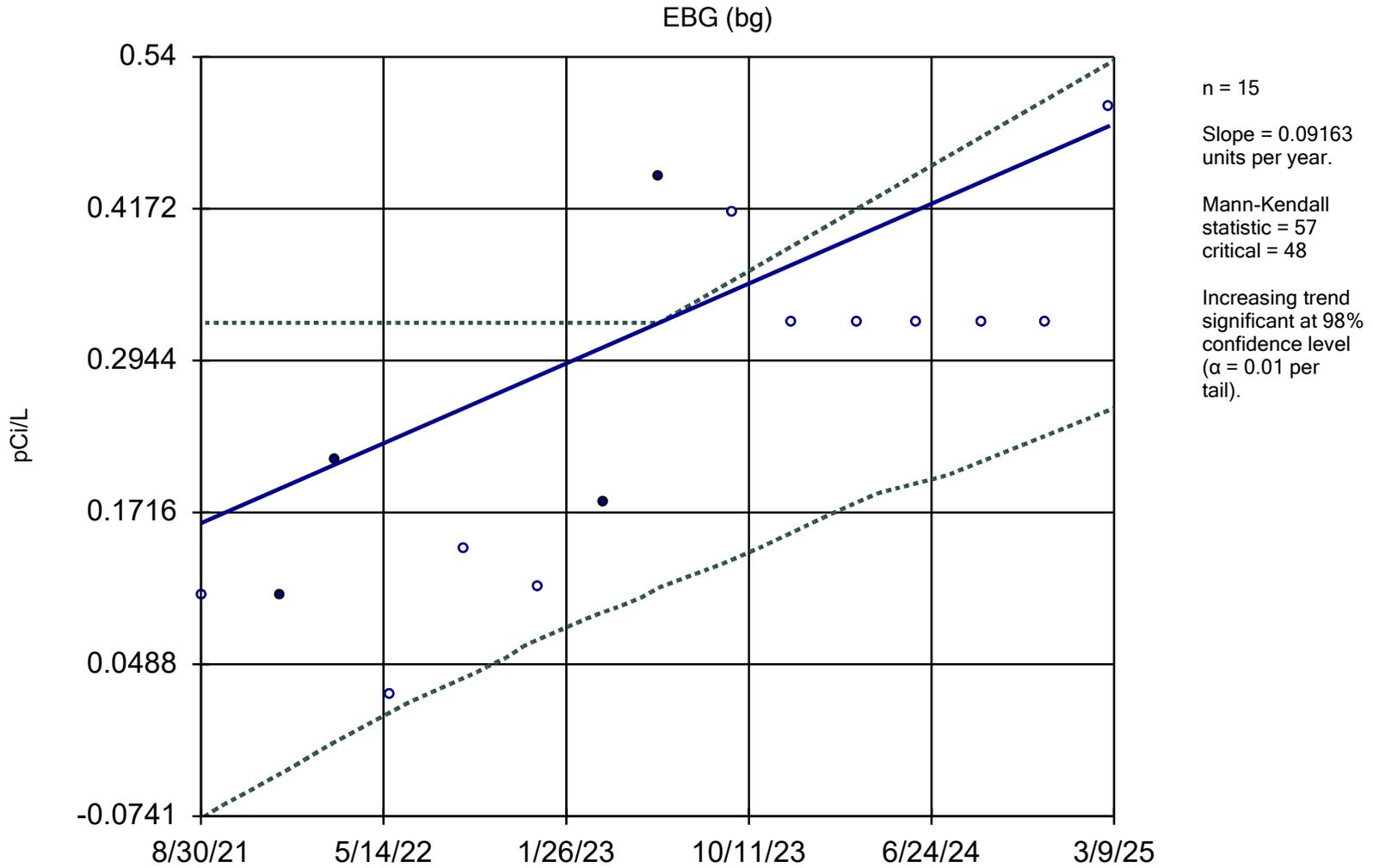
Constituent: Cadmium Analysis Run 4/18/2025 9:02 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band



Constituent: Molybdenum Analysis Run 4/18/2025 9:03 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

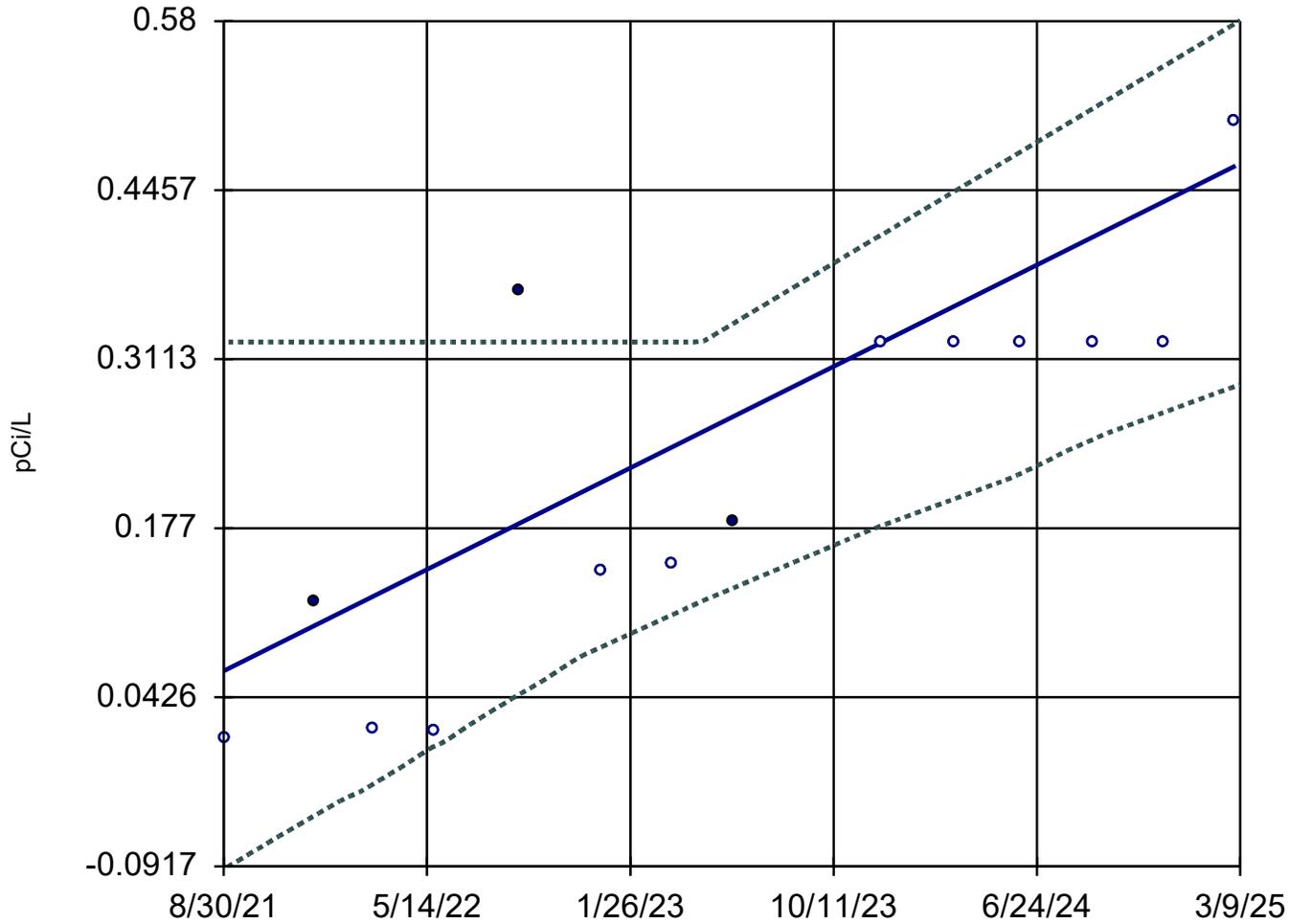
Sen's Slope and 95% Confidence Band



Constituent: Radium 226 Analysis Run 4/18/2025 9:03 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-2



n = 14

Slope = 0.1145
units per year.

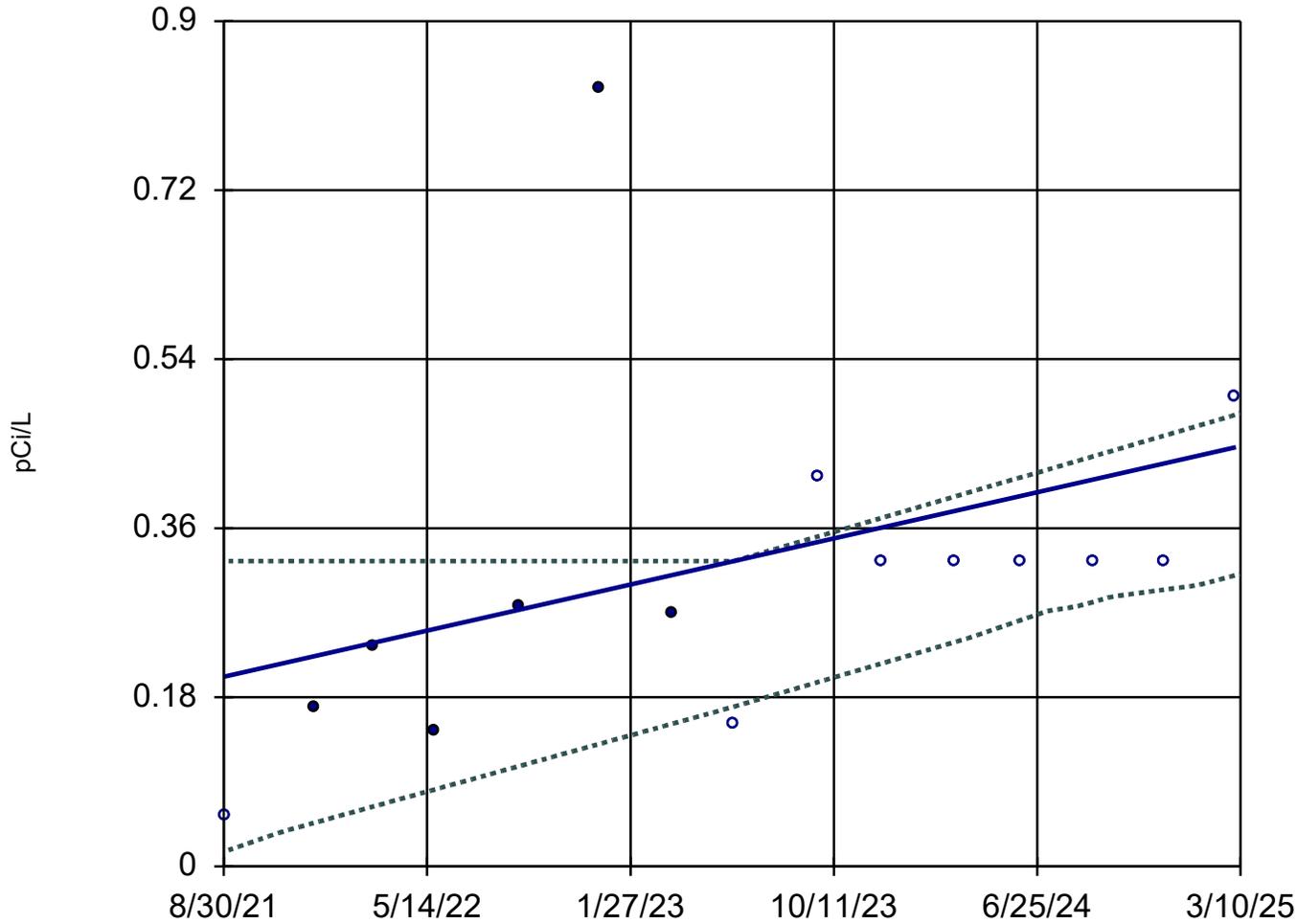
Mann-Kendall
statistic = 59
critical = 44

Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Radium 226 Analysis Run 4/18/2025 9:03 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-4

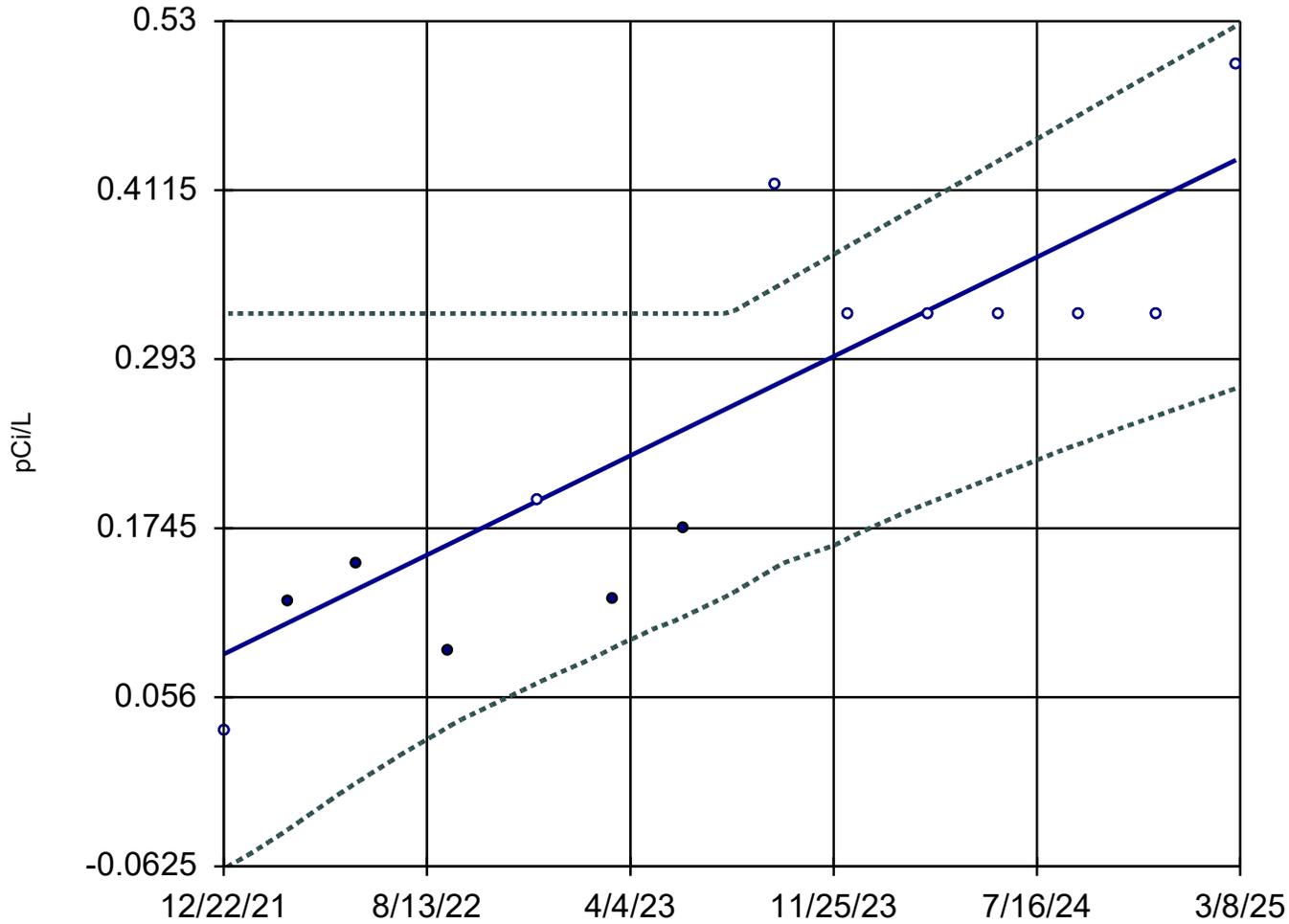


n = 15
Slope = 0.06959 units per year.
Mann-Kendall statistic = 53
critical = 48
Increasing trend significant at 98% confidence level ($\alpha = 0.01$ per tail).

Constituent: Radium 226 Analysis Run 4/18/2025 9:03 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-6



n = 14

Slope = 0.1083
units per year.

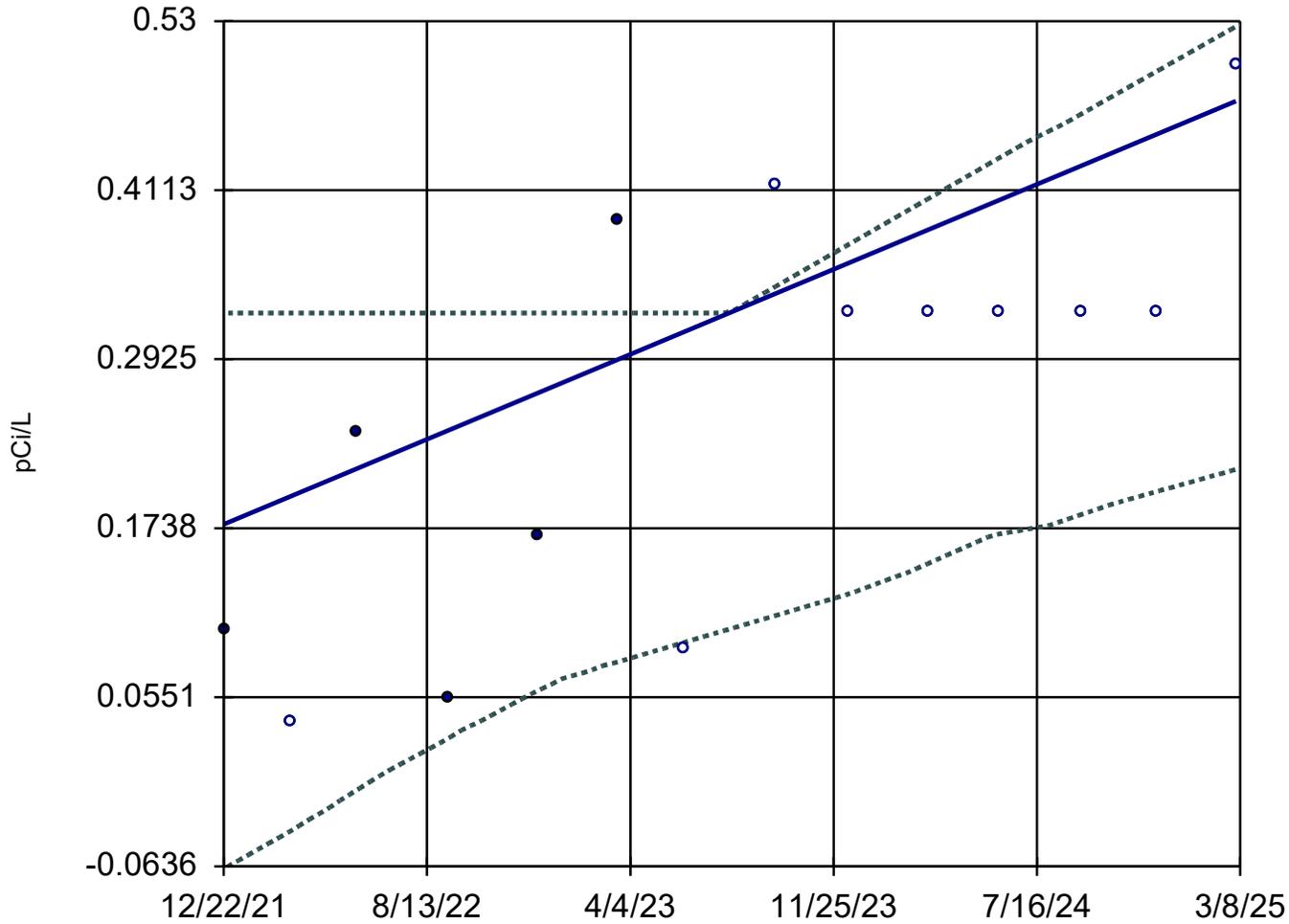
Mann-Kendall
statistic = 61
critical = 44

Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Radium 226 Analysis Run 4/18/2025 9:03 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-7



n = 14

Slope = 0.09296
units per year.

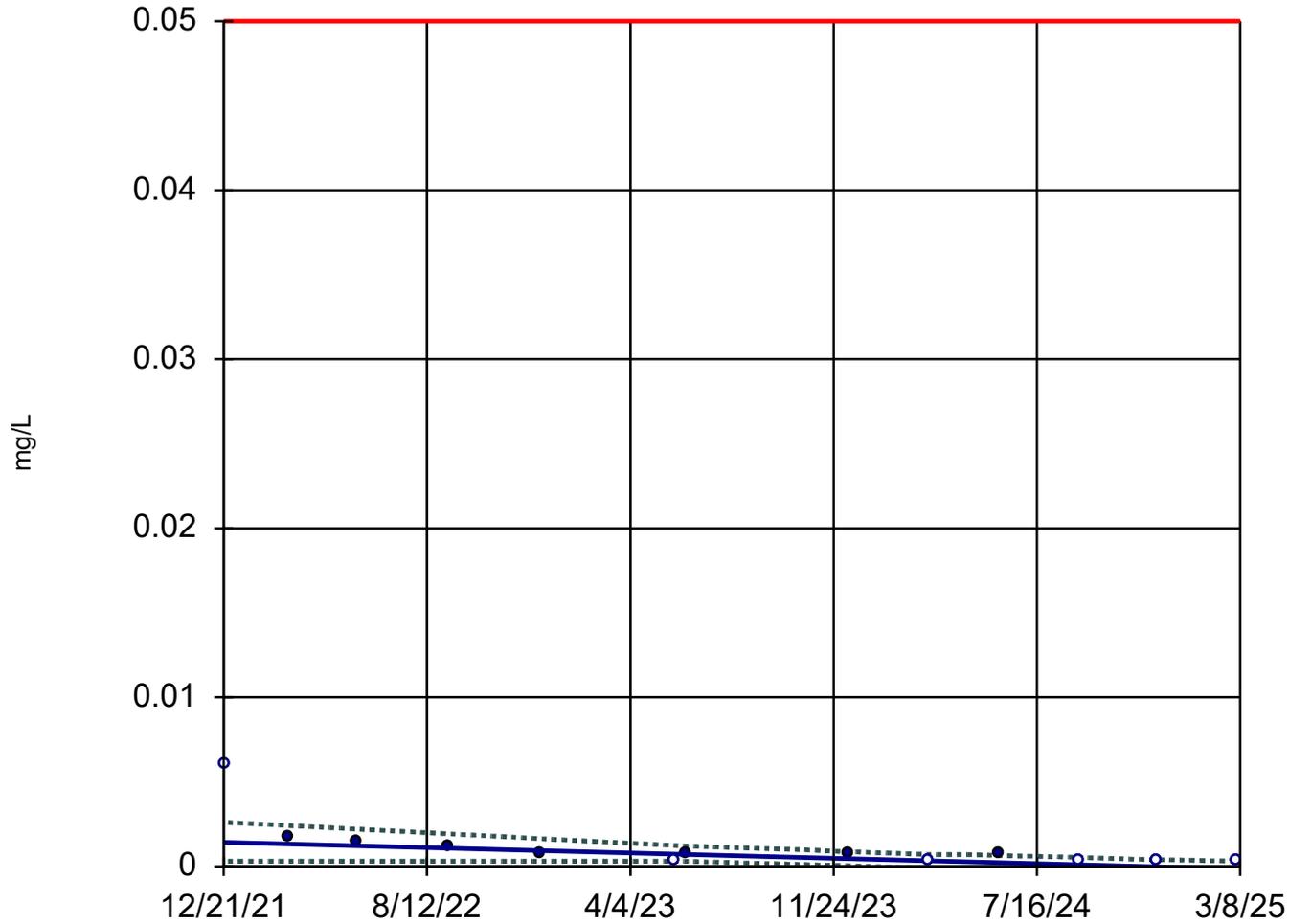
Mann-Kendall
statistic = 45
critical = 44

Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Radium 226 Analysis Run 4/18/2025 9:03 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-5



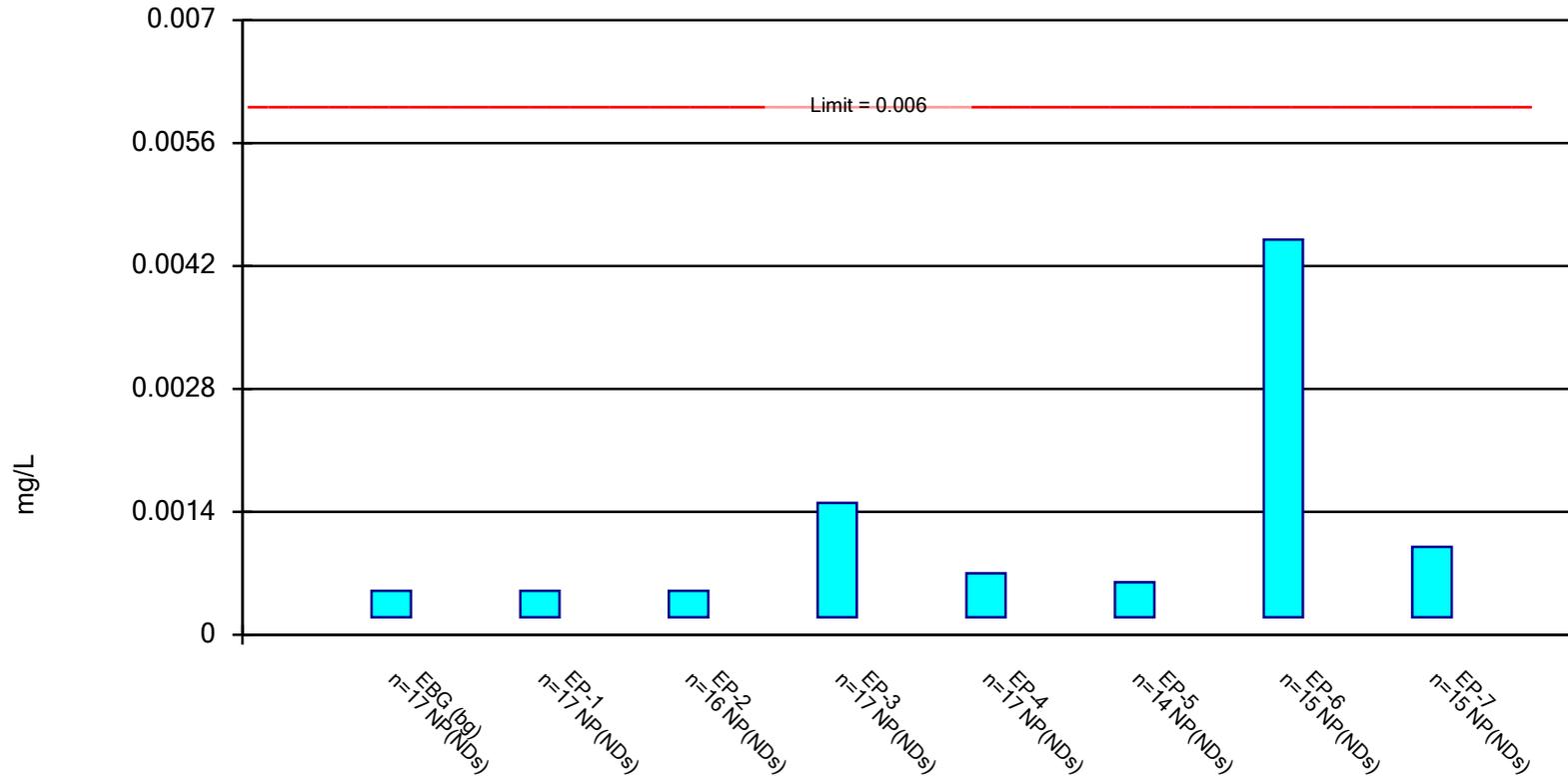
n = 13
Slope = -0.0004923
units per year.
Mann-Kendall
statistic = -53
critical = -39
Decreasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).
Confidence band is
below EPA (0.05).

APPENDIX D-5

**Q2 2025 Groundwater Protection
Standard Exceedances**

Non-Parametric Confidence Interval

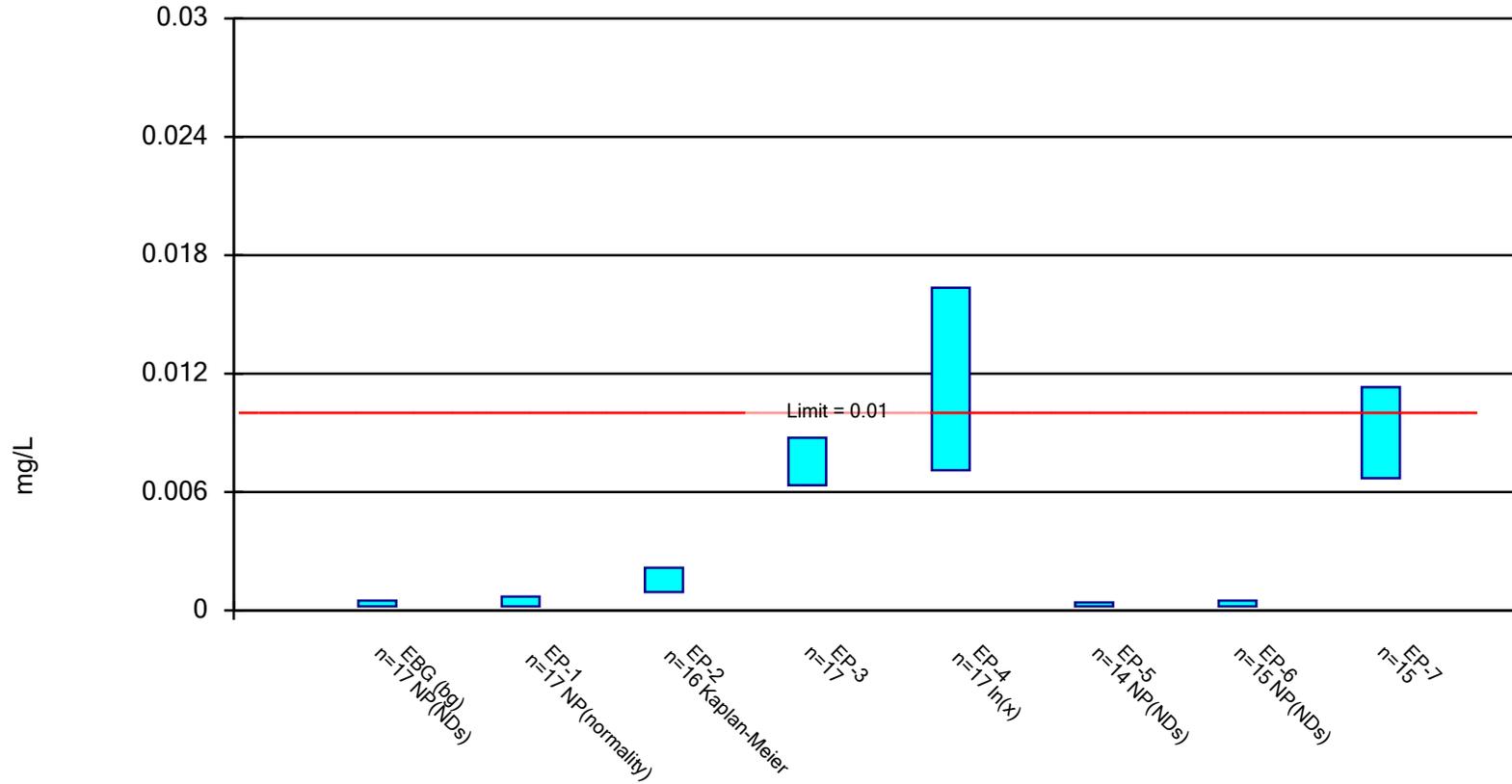
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 7/30/2025 4:20 PM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

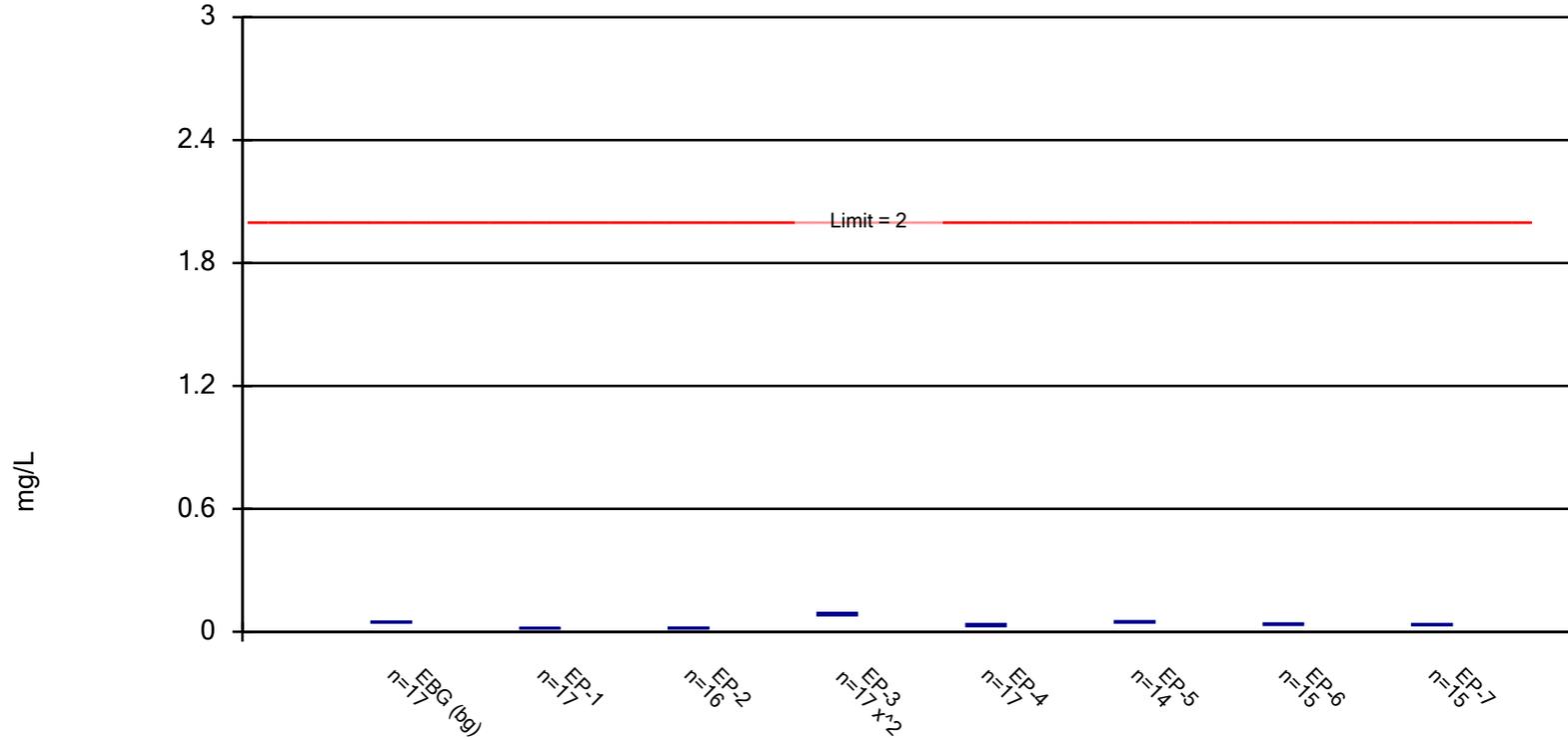


Constituent: Arsenic Analysis Run 7/30/2025 4:20 PM

Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric Confidence Interval

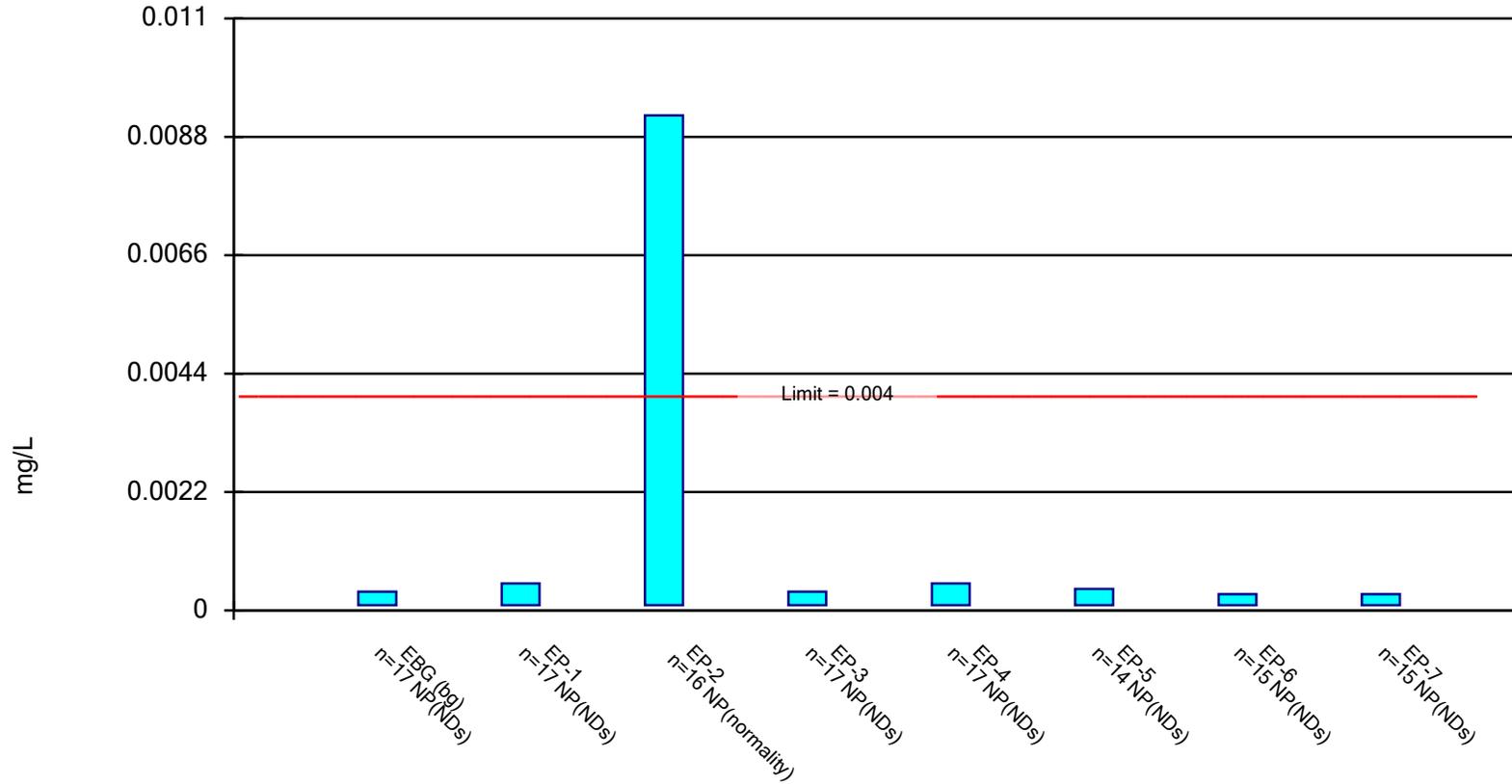
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 7/30/2025 4:20 PM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Non-Parametric Confidence Interval

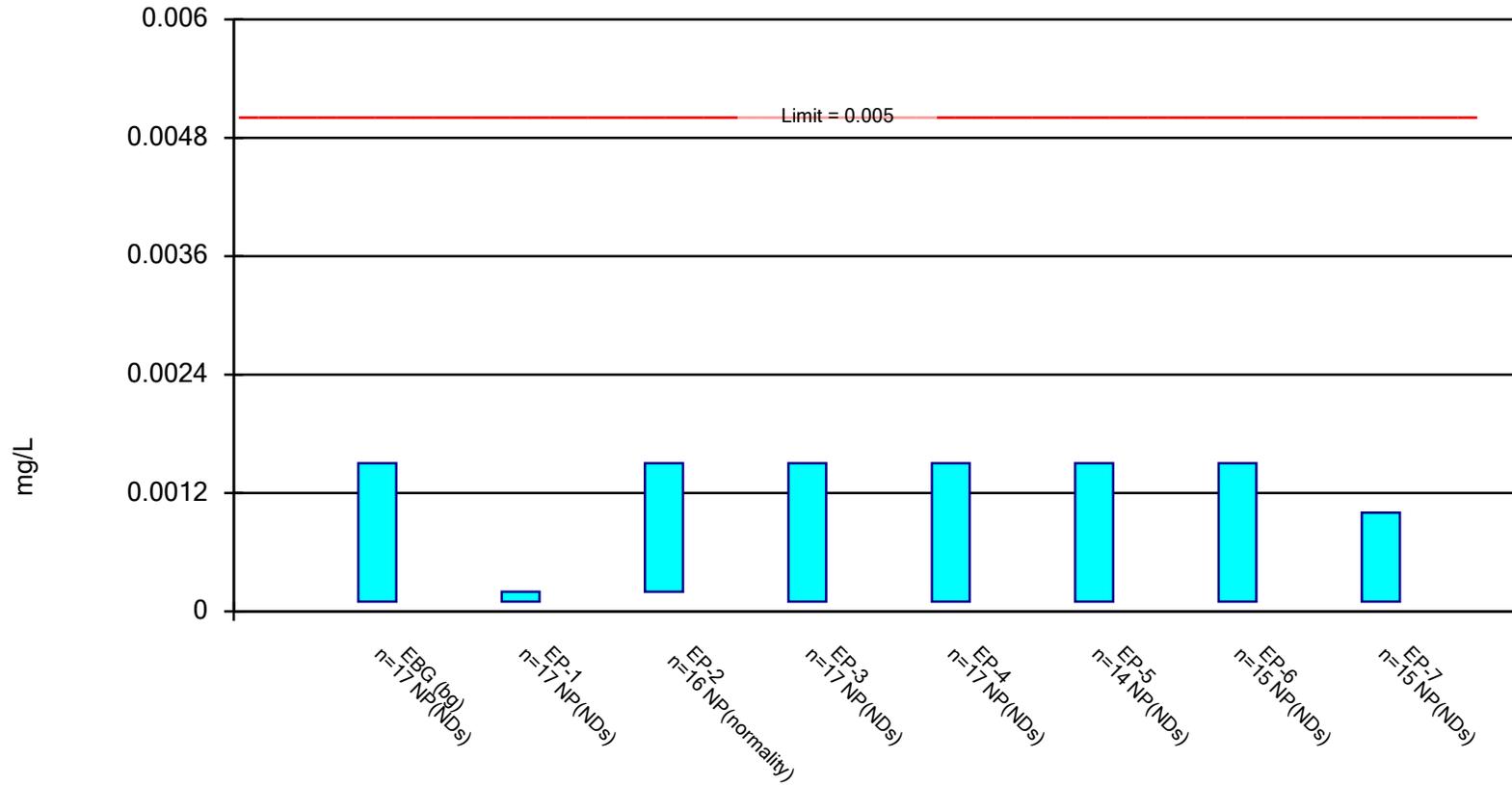
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 7/30/2025 4:20 PM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Non-Parametric Confidence Interval

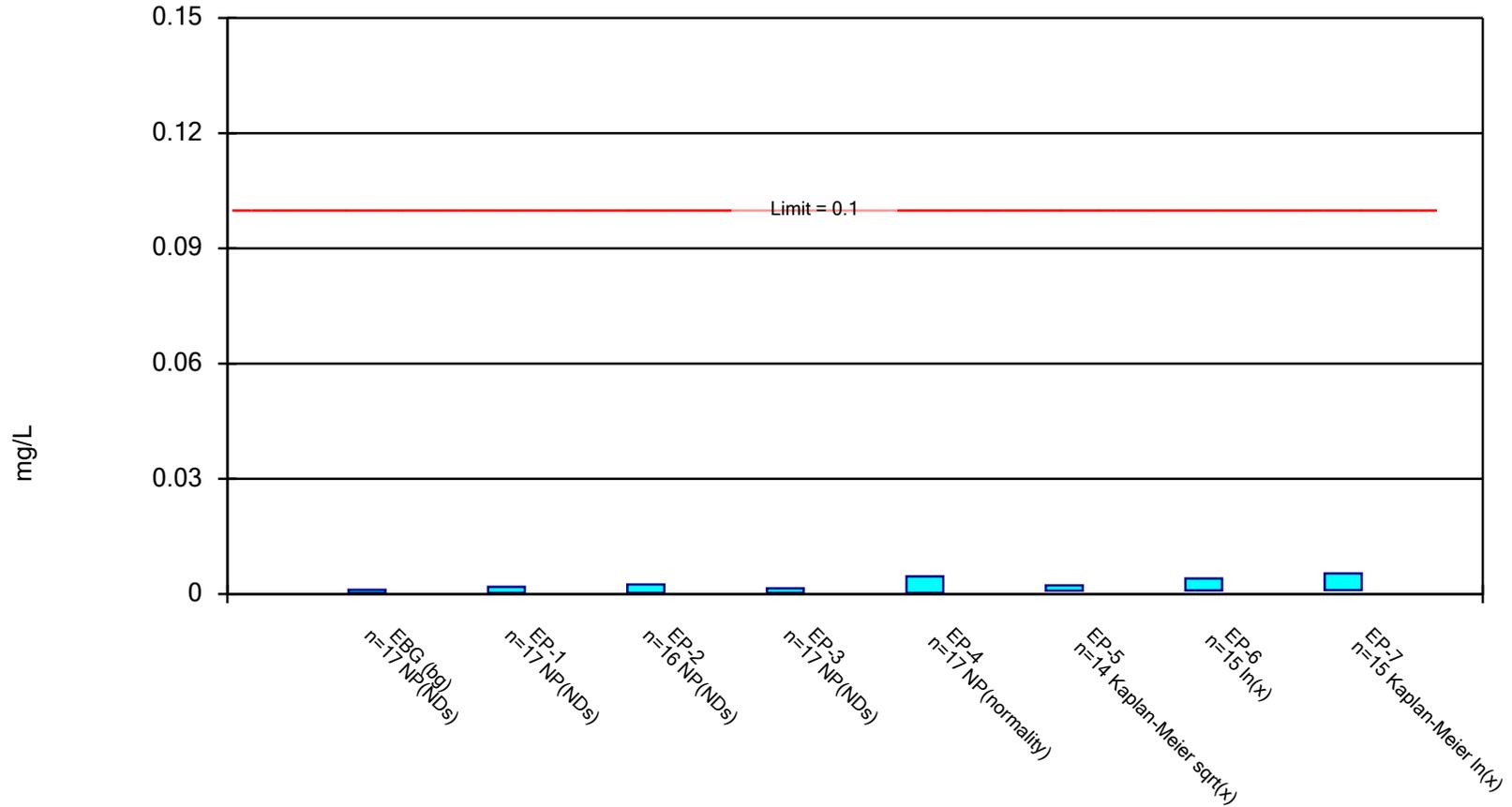
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 7/30/2025 4:20 PM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

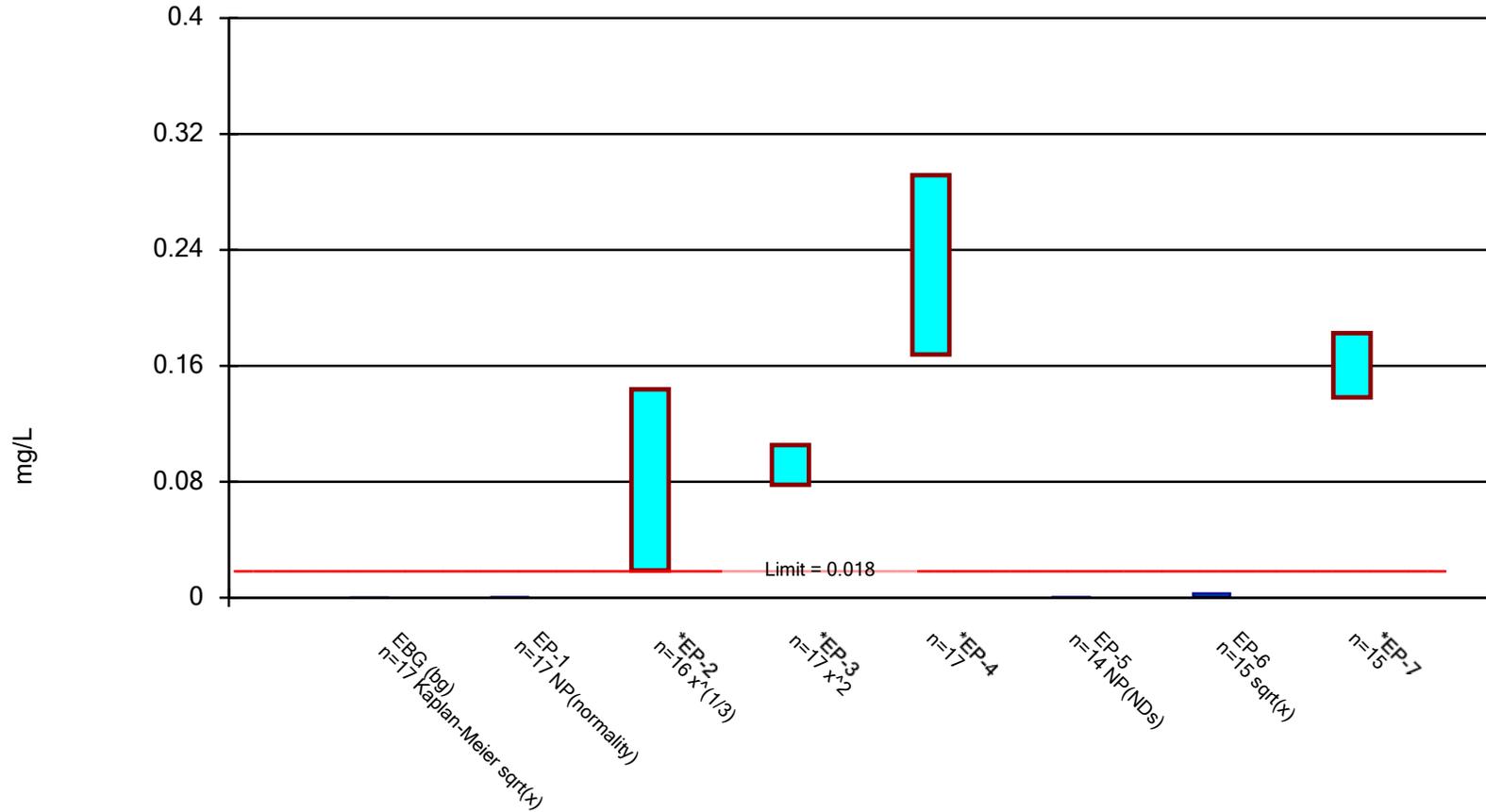


Constituent: Chromium Analysis Run 7/30/2025 4:21 PM

Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

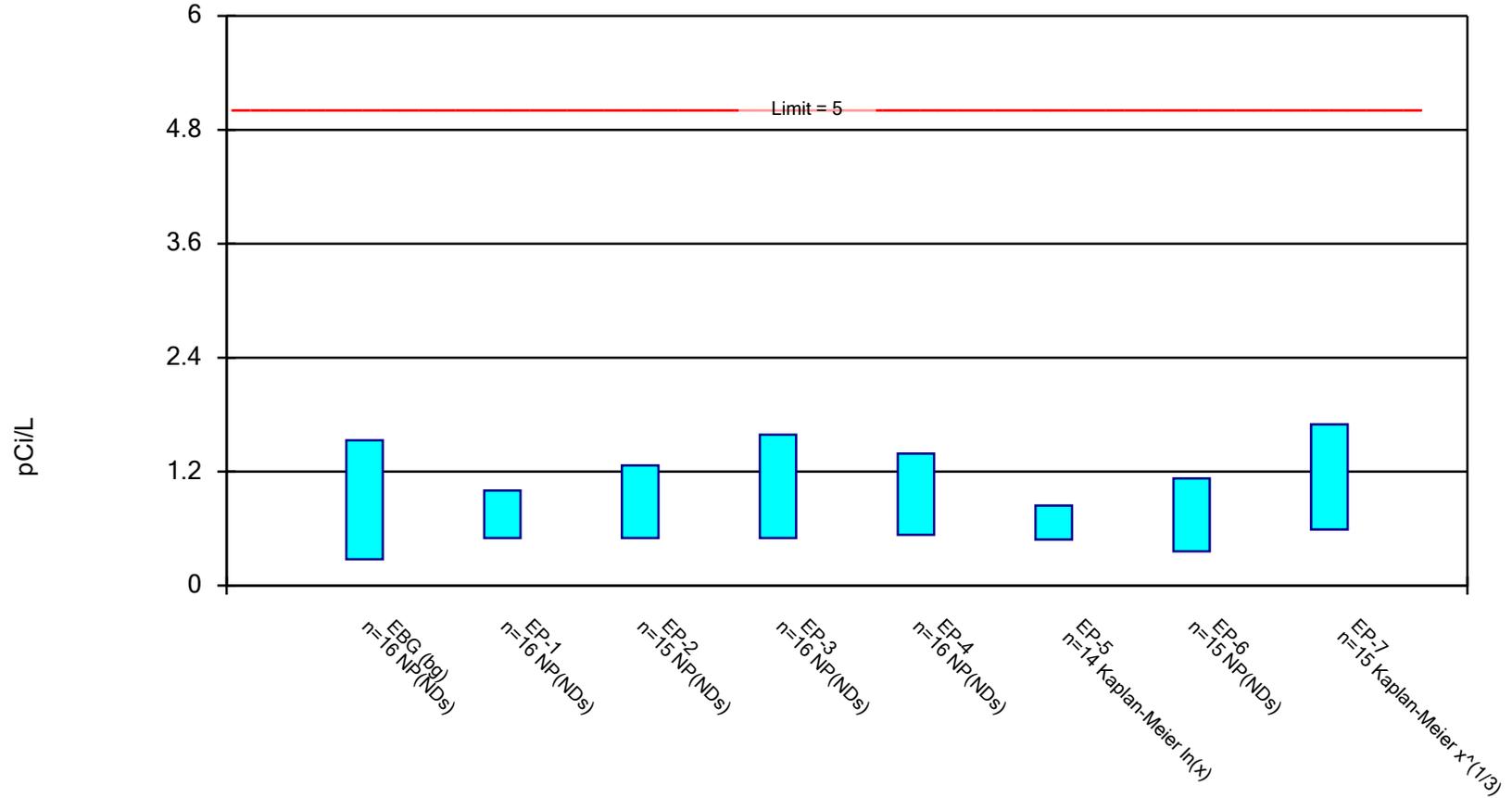
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/30/2025 4:21 PM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

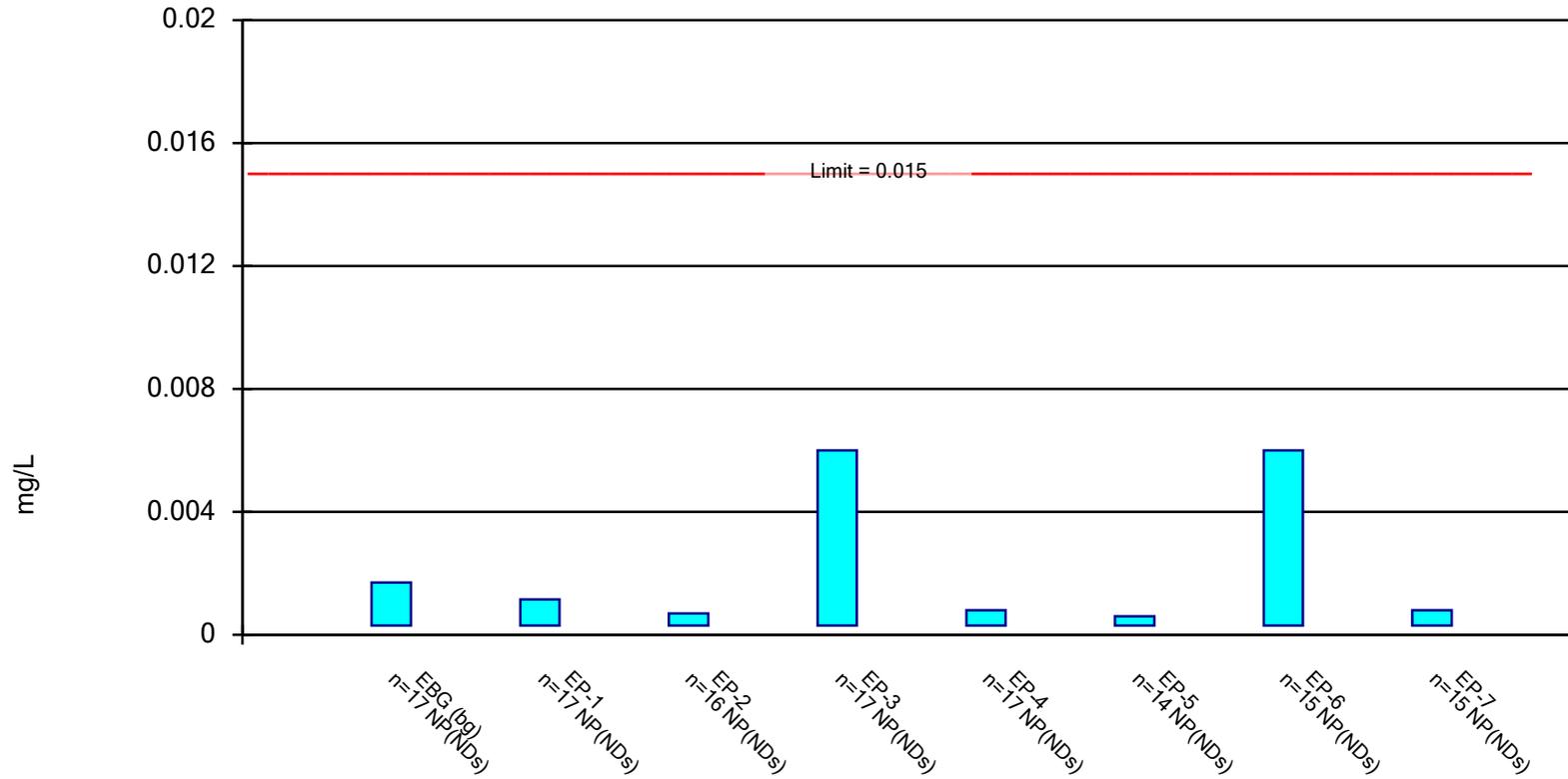
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium Analysis Run 7/30/2025 4:21 PM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

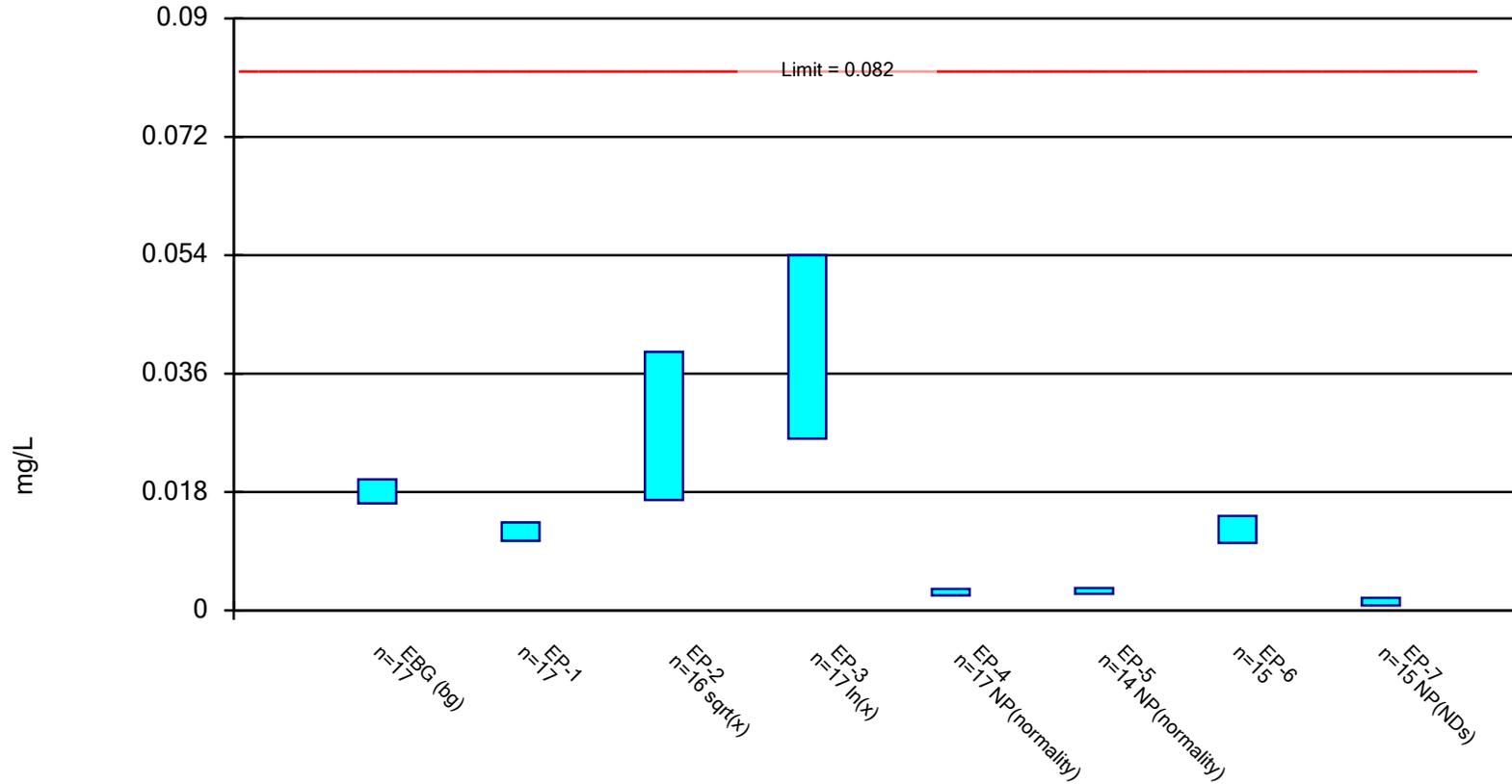


Constituent: Lead Analysis Run 7/30/2025 4:21 PM

Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

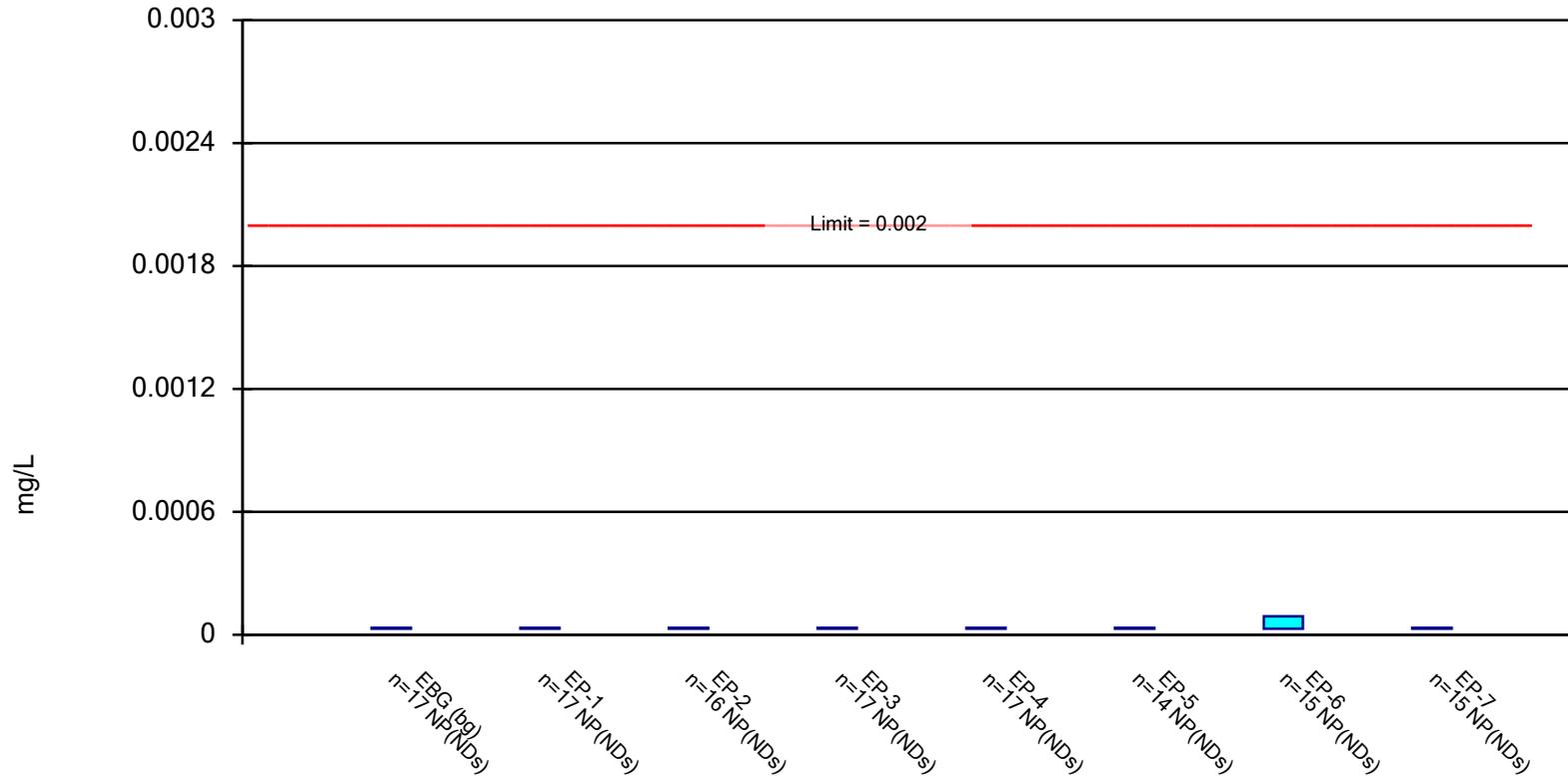
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 7/30/2025 4:21 PM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Non-Parametric Confidence Interval

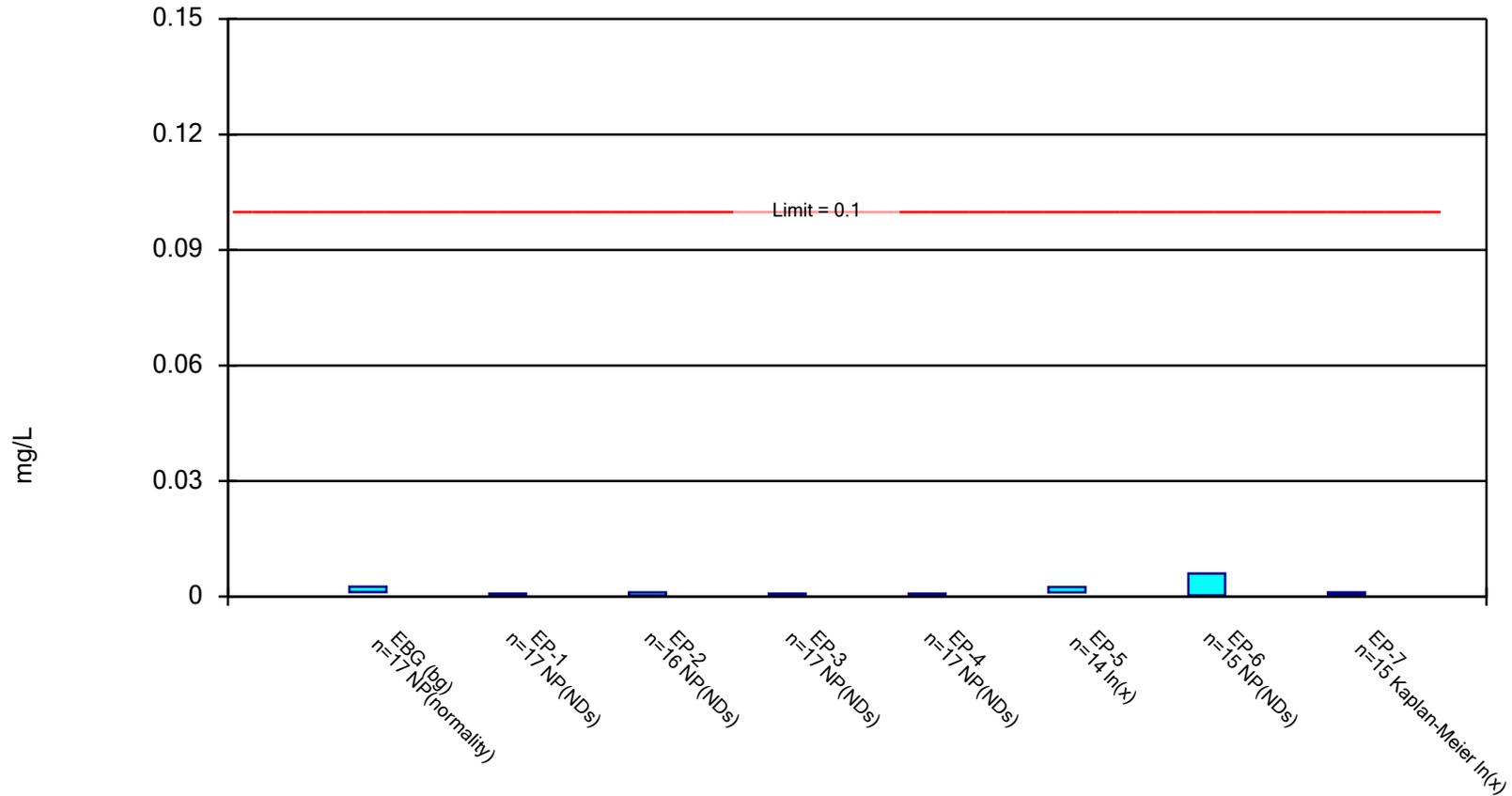
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 7/30/2025 4:21 PM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

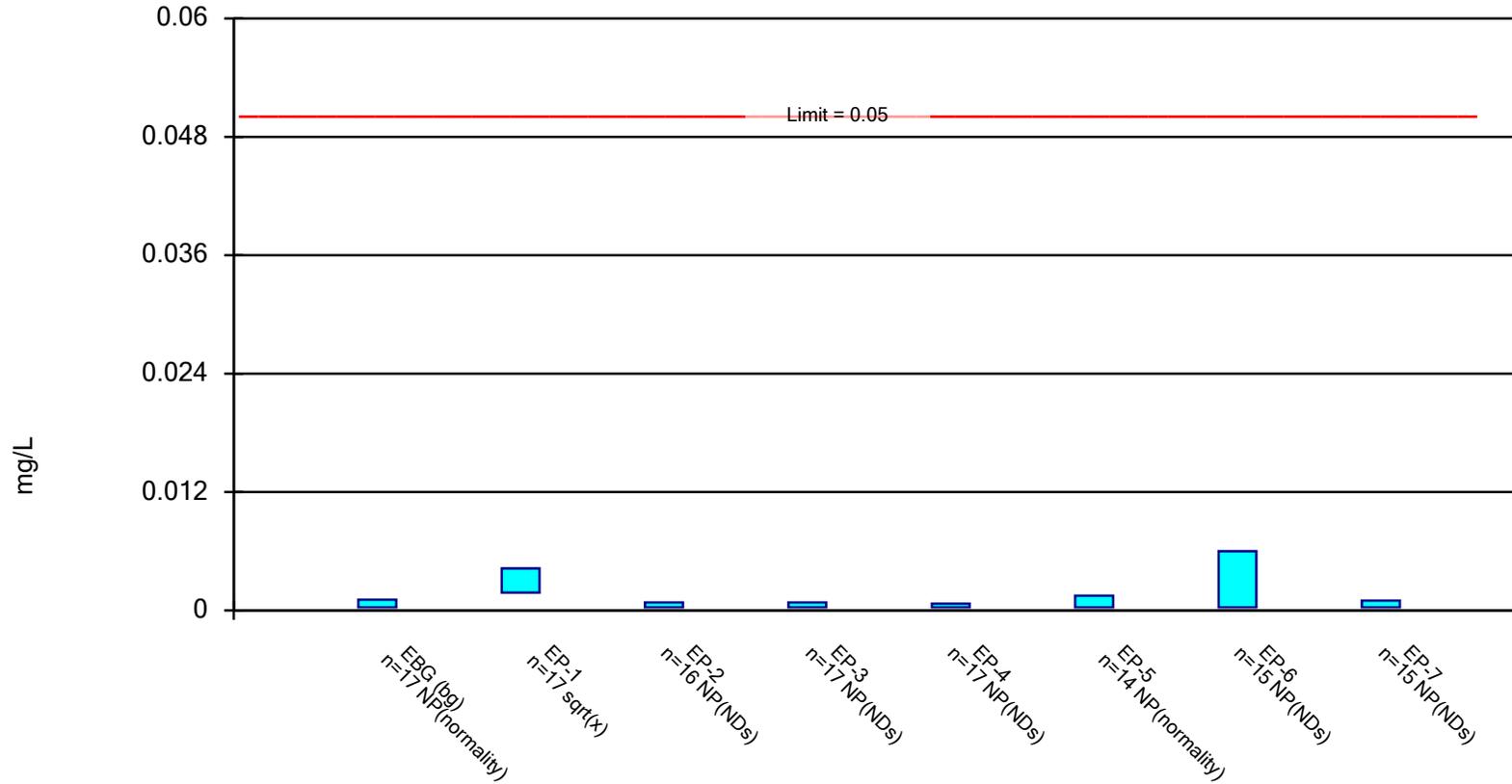
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 7/30/2025 4:21 PM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

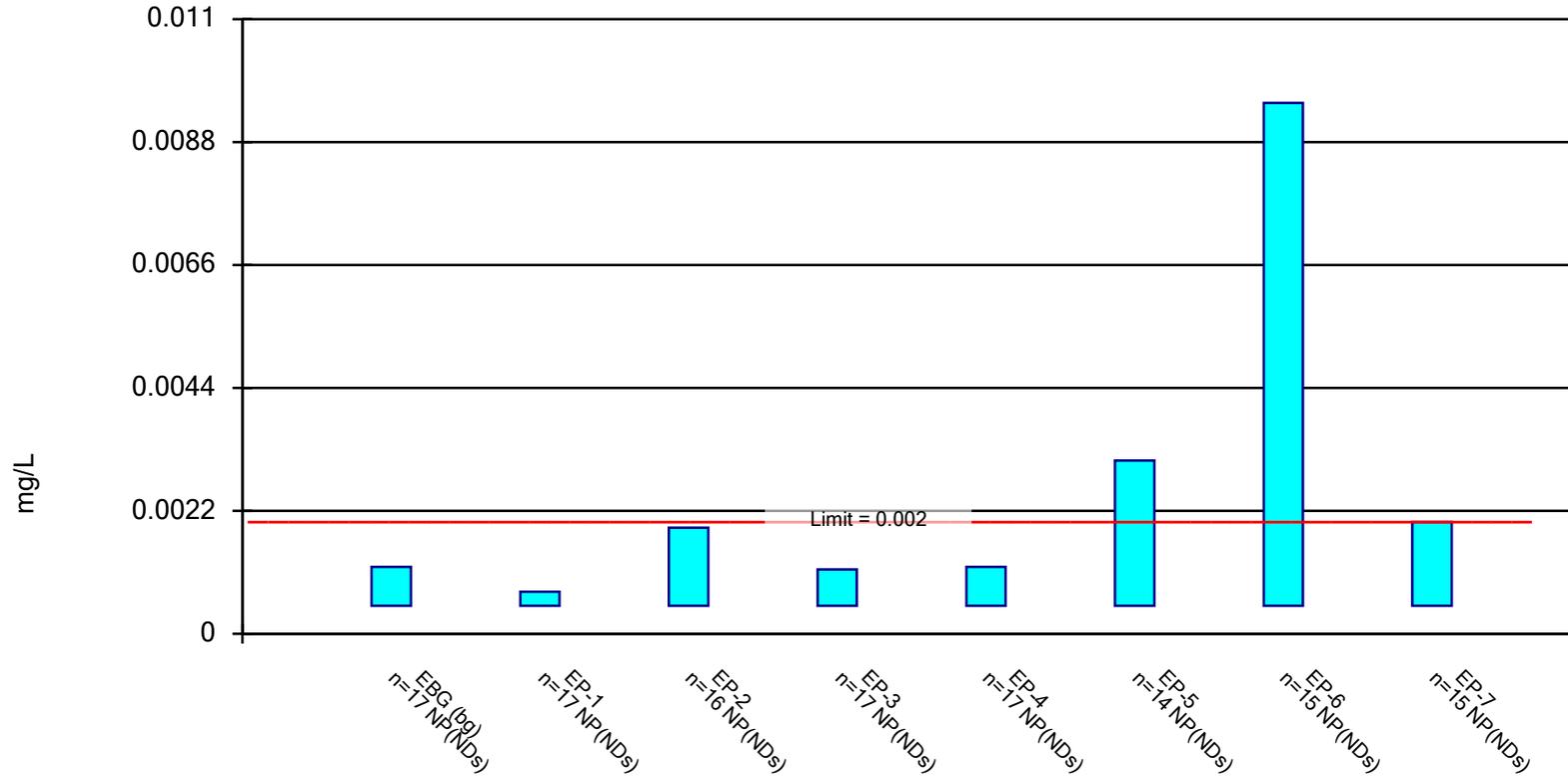
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 7/30/2025 4:21 PM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



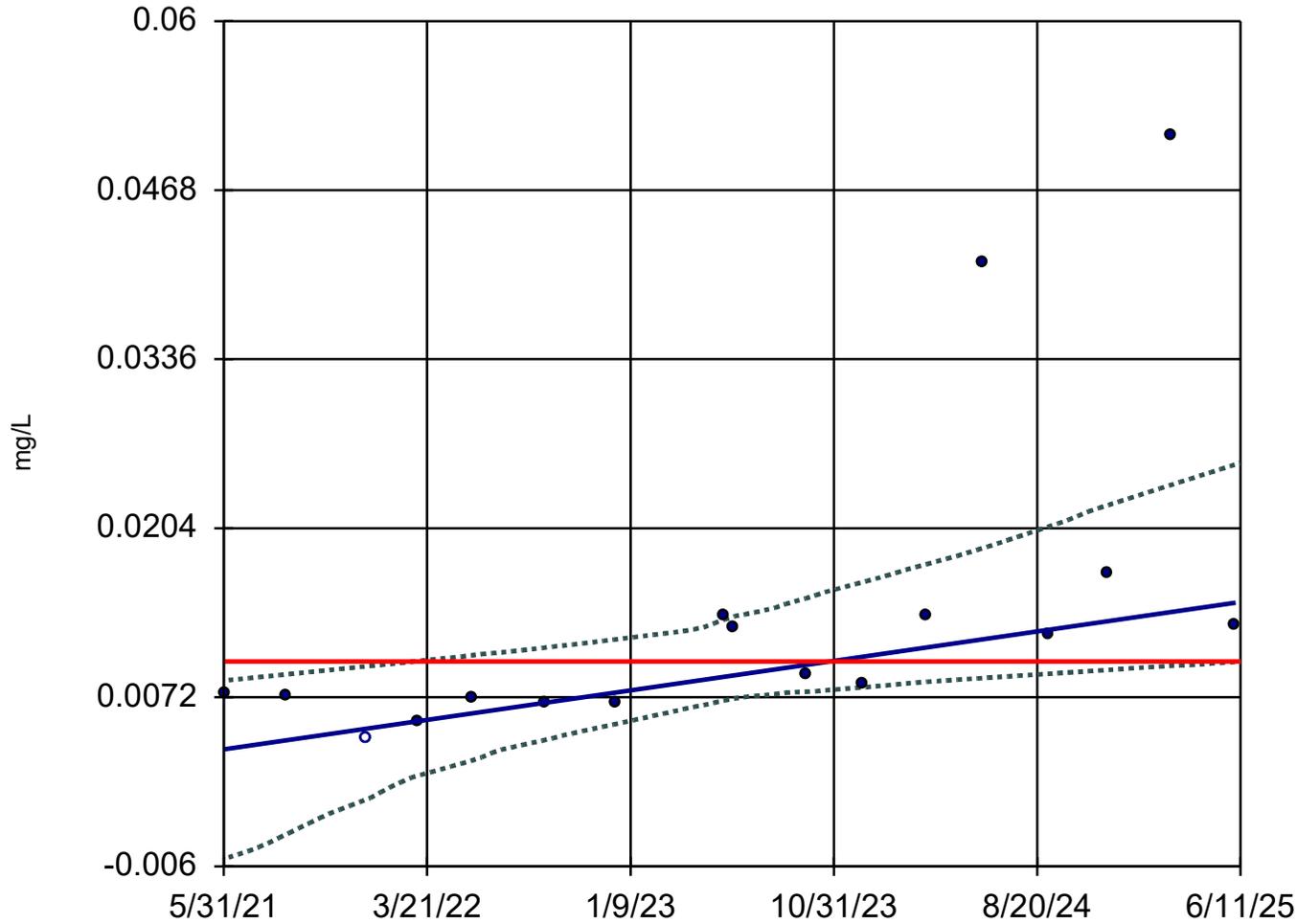
Constituent: Thallium Analysis Run 7/30/2025 4:21 PM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

APPENDIX D-6

**Q2 2025 Statistically
Significant Trends**

Sen's Slope and 95% Confidence Band

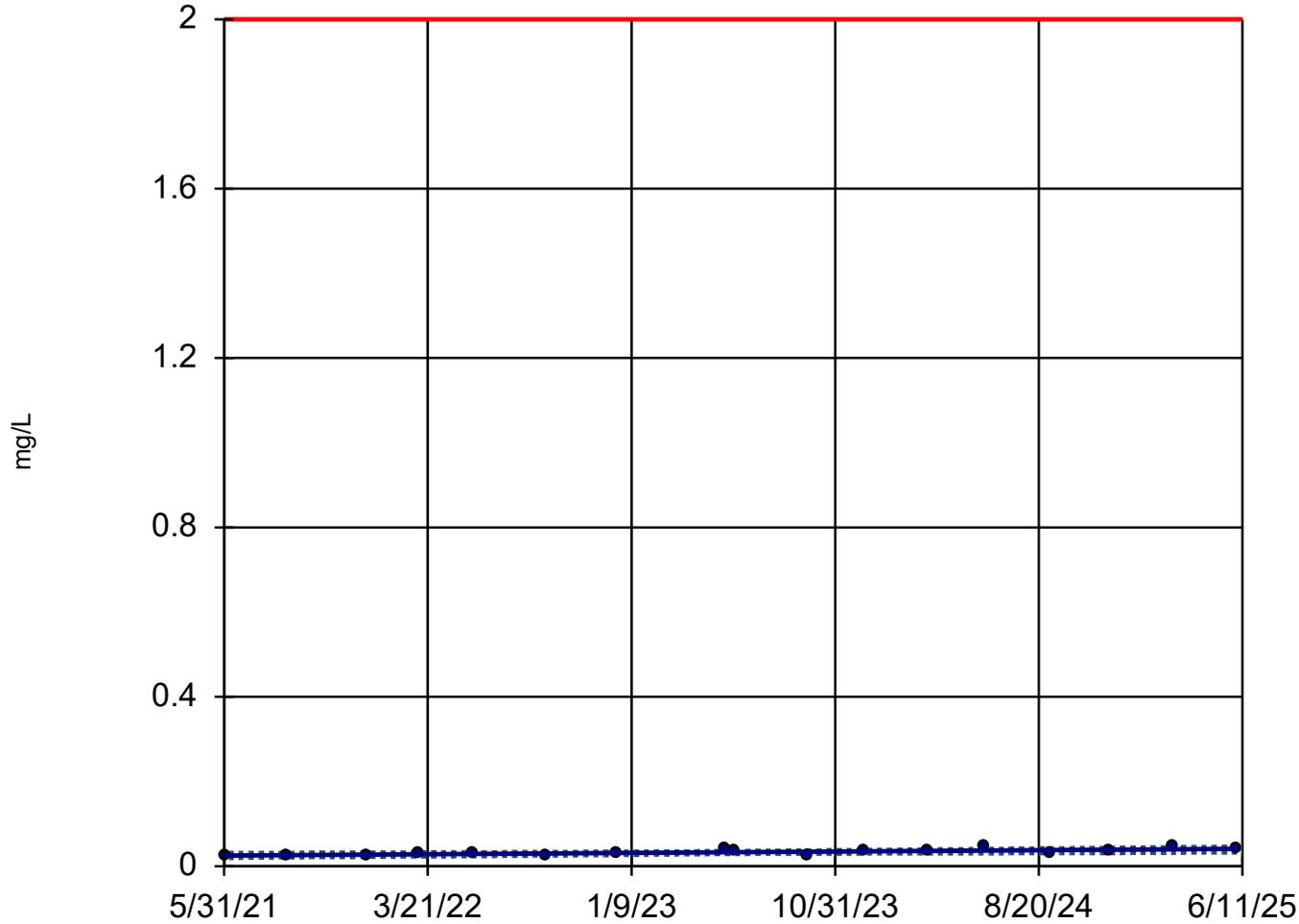
EP-4



n = 17
Slope = 0.00285 units per year.
Mann-Kendall statistic = 75
critical = 58
Increasing trend significant at 98% confidence level ($\alpha = 0.01$ per tail).
Confidence band intersects EPA (0.01) on 03/12/22.

Sen's Slope and 95% Confidence Band

EP-4



n = 17

Slope = 0.003929
units per year.

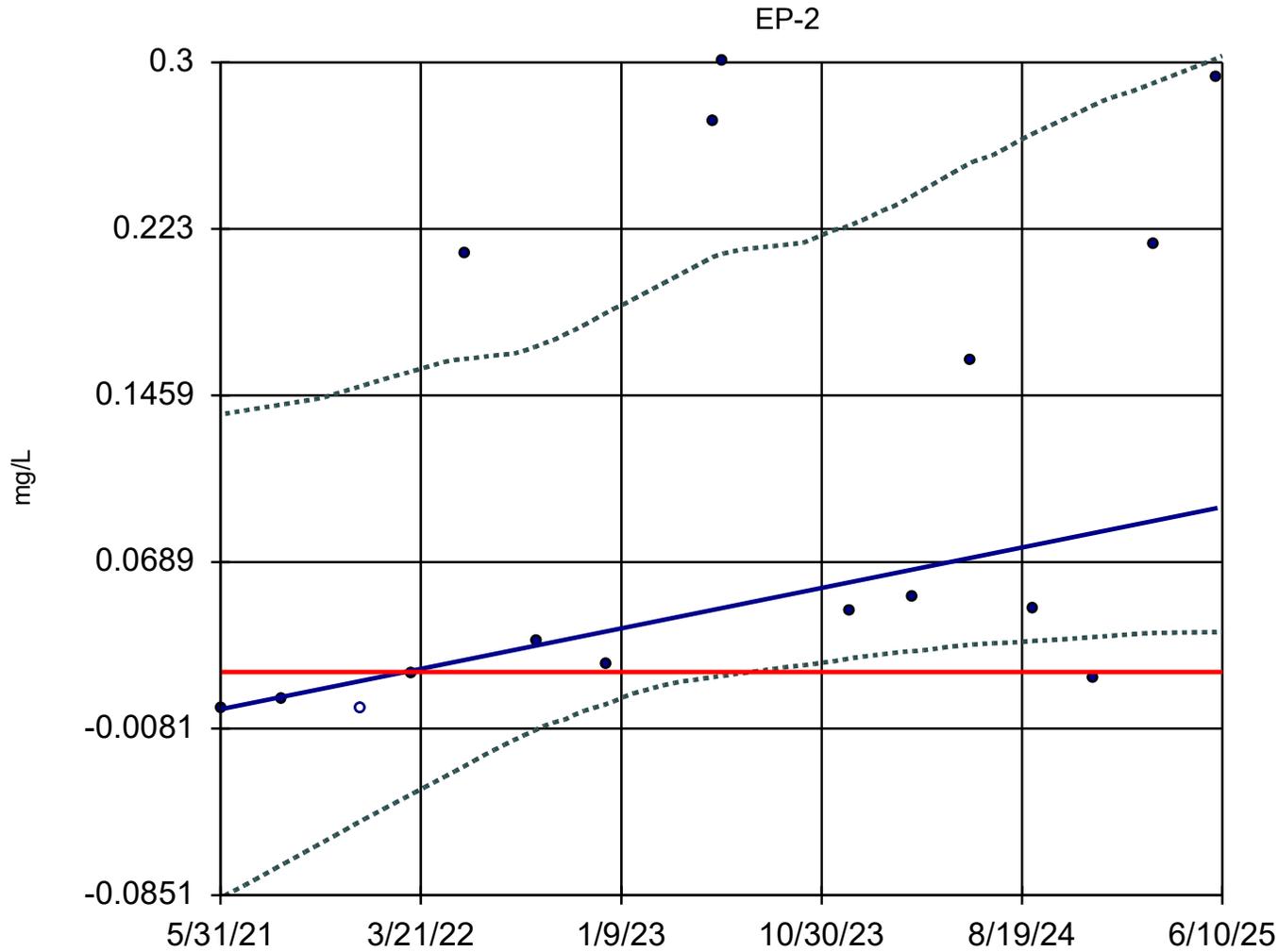
Mann-Kendall
statistic = 74
critical = 58

Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Confidence band is
below EPA (2).

Constituent: Barium Analysis Run 7/30/2025 10:56 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band



n = 16

Slope = 0.0232
units per year.

Mann-Kendall
statistic = 56
critical = 53

Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

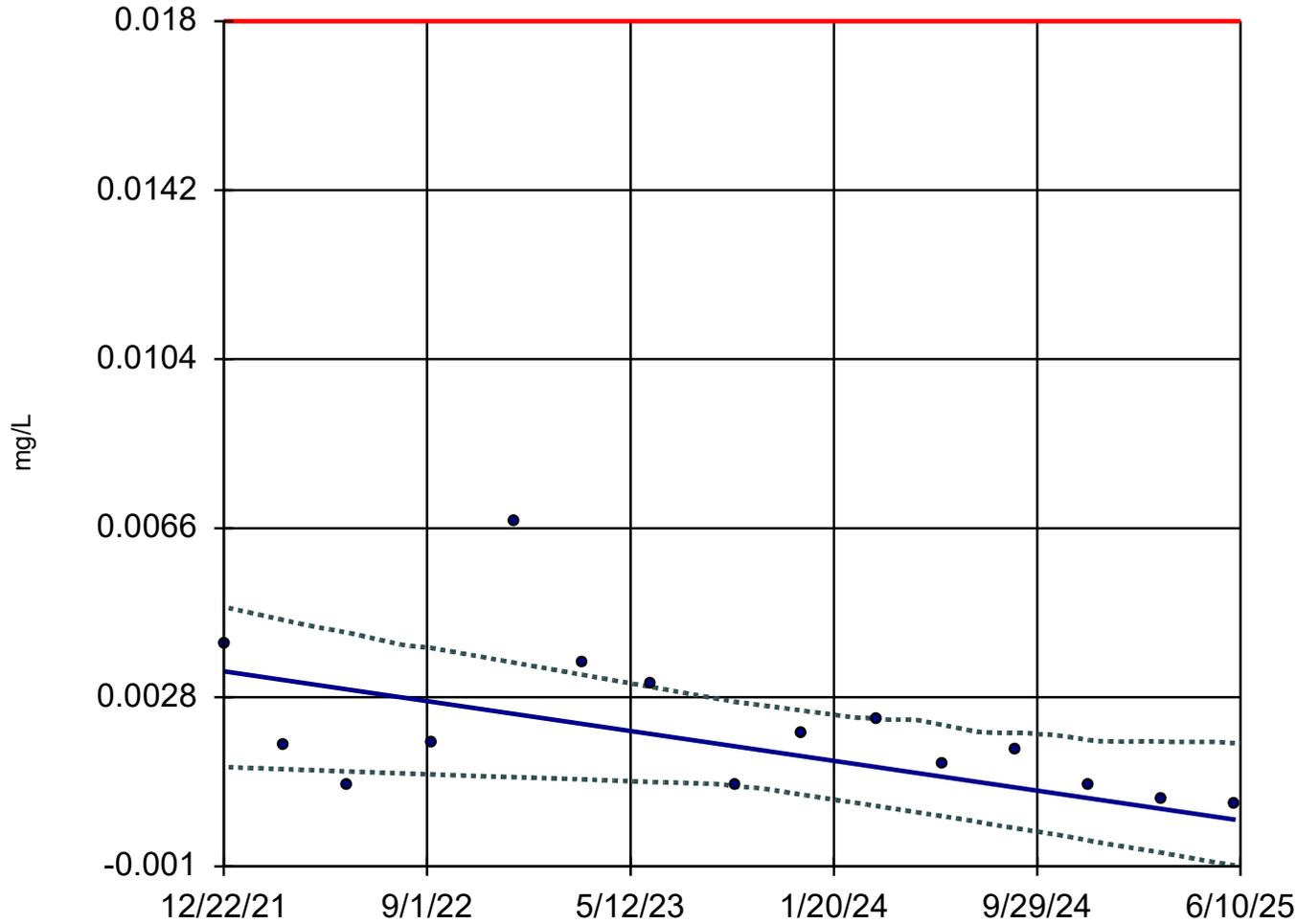
Confidence band intersects
EPA (0.018) on 07/23/23.

Constituent: Cobalt Analysis Run 7/30/2025 10:57 AM

Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

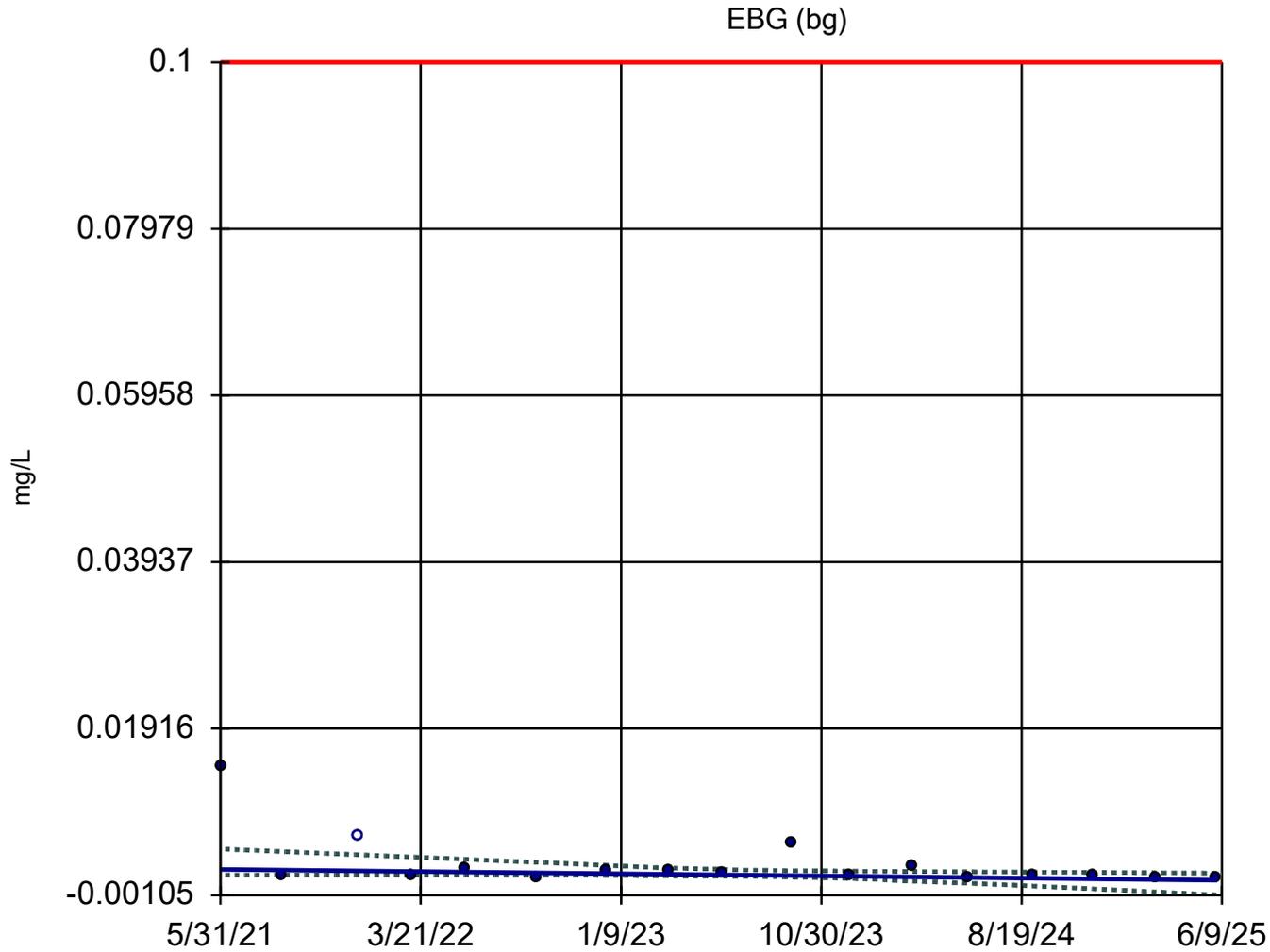
EP-6



n = 15
Slope = -0.0009656 units per year.
Mann-Kendall statistic = -52 critical = -48
Decreasing trend significant at 98% confidence level ($\alpha = 0.01$ per tail).
Confidence band is below EPA (0.018).

Constituent: Cobalt Analysis Run 7/30/2025 10:57 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

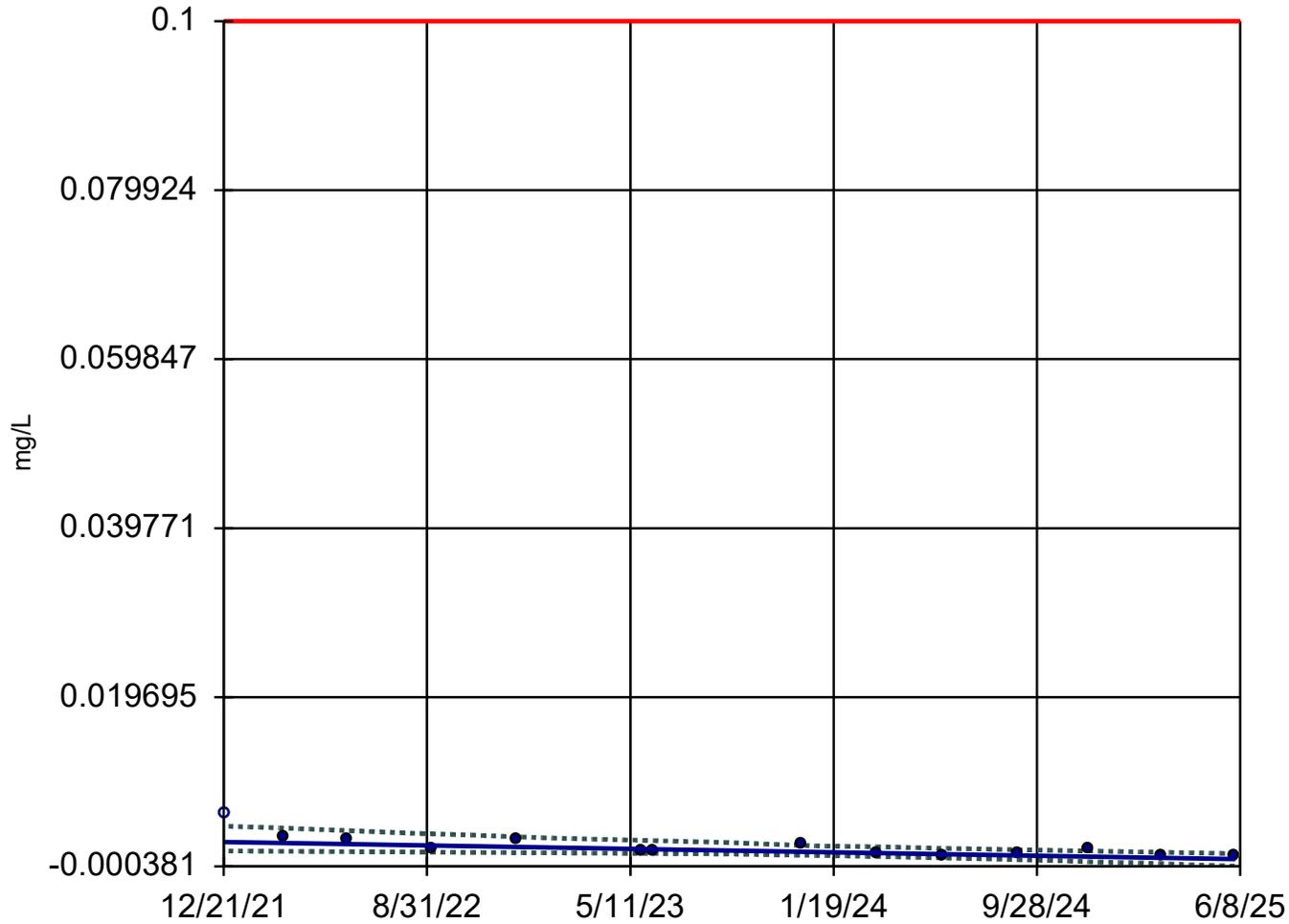
Sen's Slope and 95% Confidence Band



n = 17
Slope = -0.0003271
units per year.
Mann-Kendall
statistic = -59
critical = -58
Decreasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).
Confidence band is
below EPA (0.1).

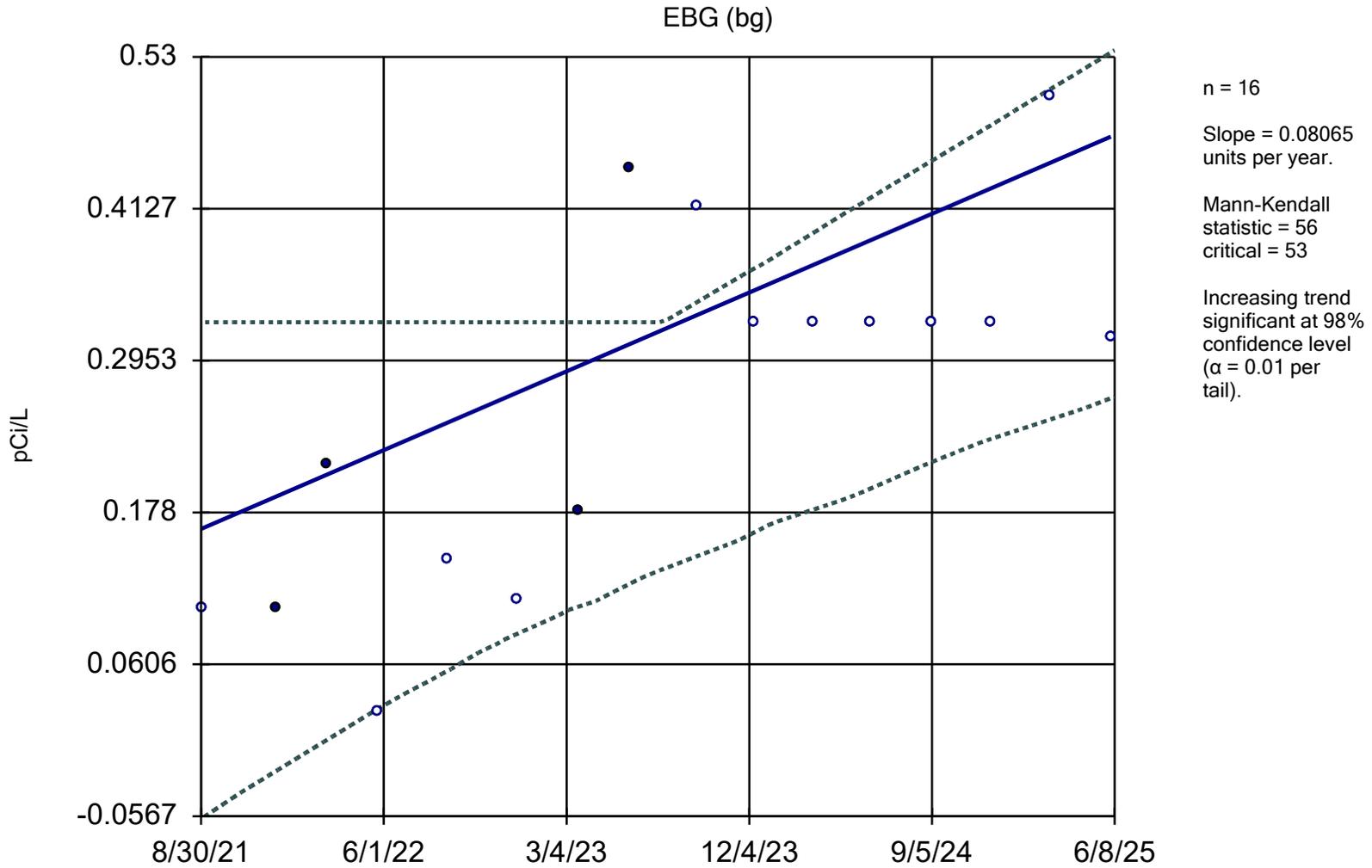
Sen's Slope and 95% Confidence Band

EP-5



n = 14
Slope = -0.0005946
units per year.
Mann-Kendall
statistic = -63
critical = -44
Decreasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).
Confidence band is
below EPA (0.1).

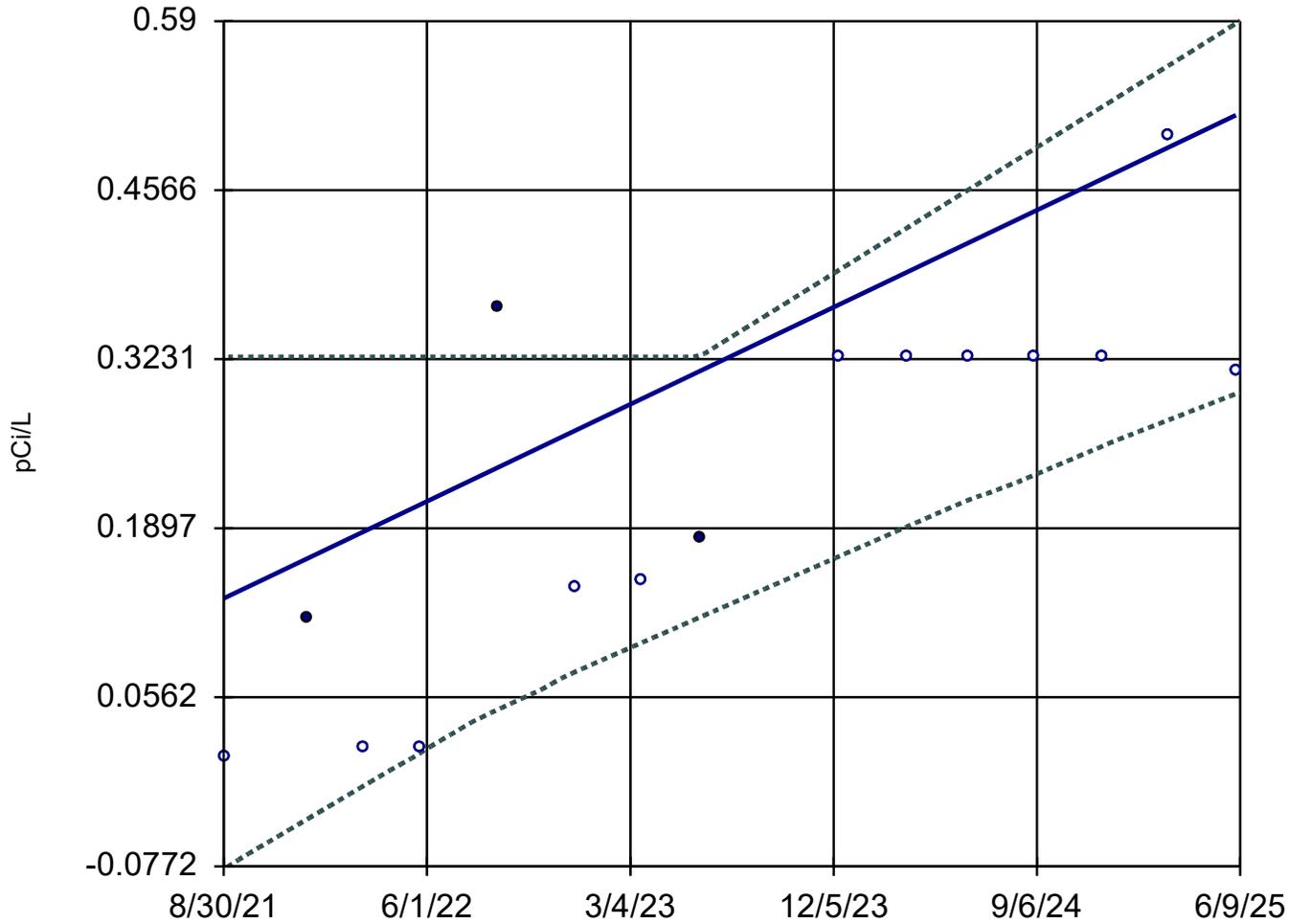
Sen's Slope and 95% Confidence Band



Constituent: Radium 226 Analysis Run 7/30/2025 10:58 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-2



n = 15

Slope = 0.1014
units per year.

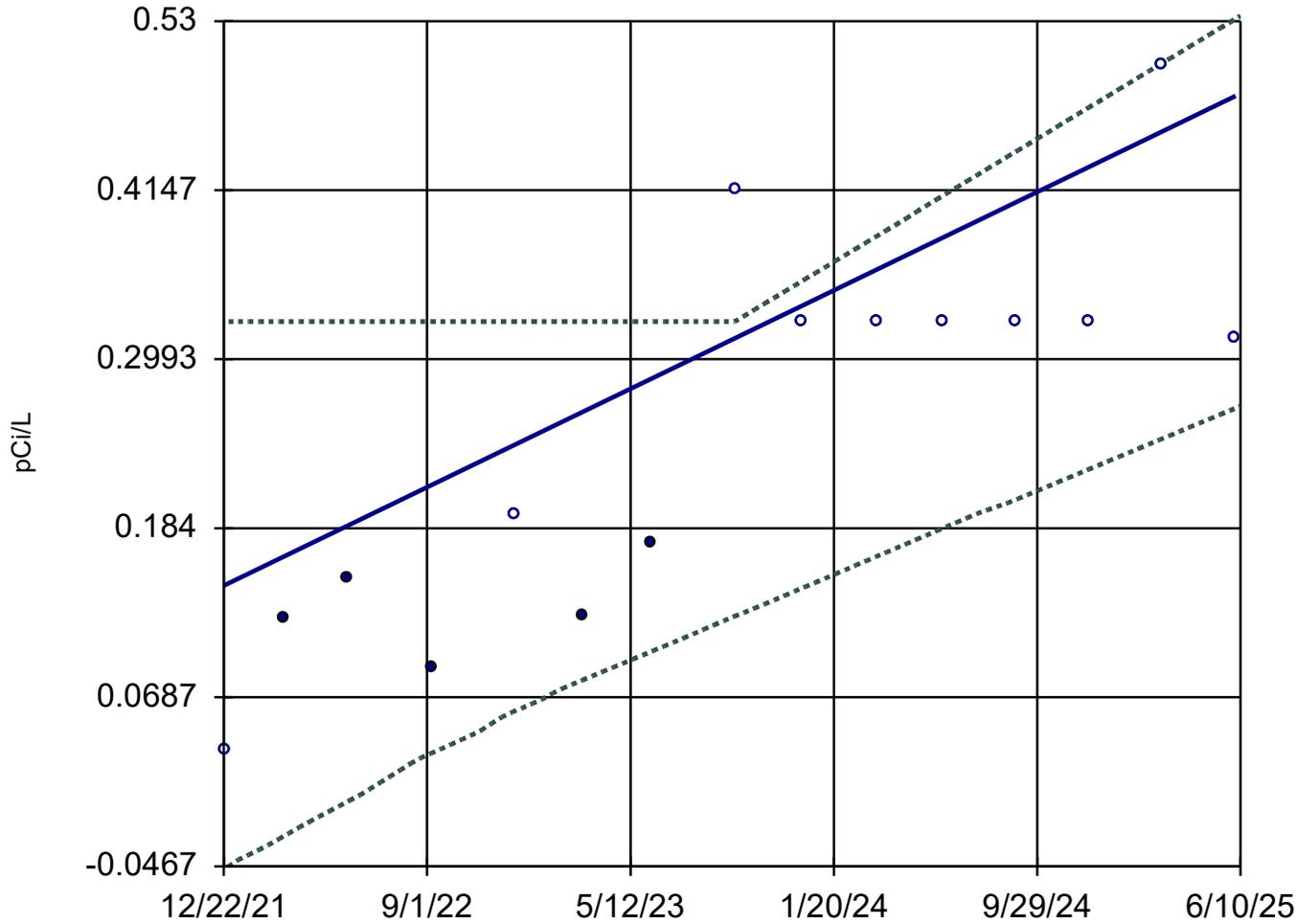
Mann-Kendall
statistic = 59
critical = 48

Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Radium 226 Analysis Run 7/30/2025 10:58 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-6



n = 15

Slope = 0.09678
units per year.

Mann-Kendall
statistic = 61
critical = 48

Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

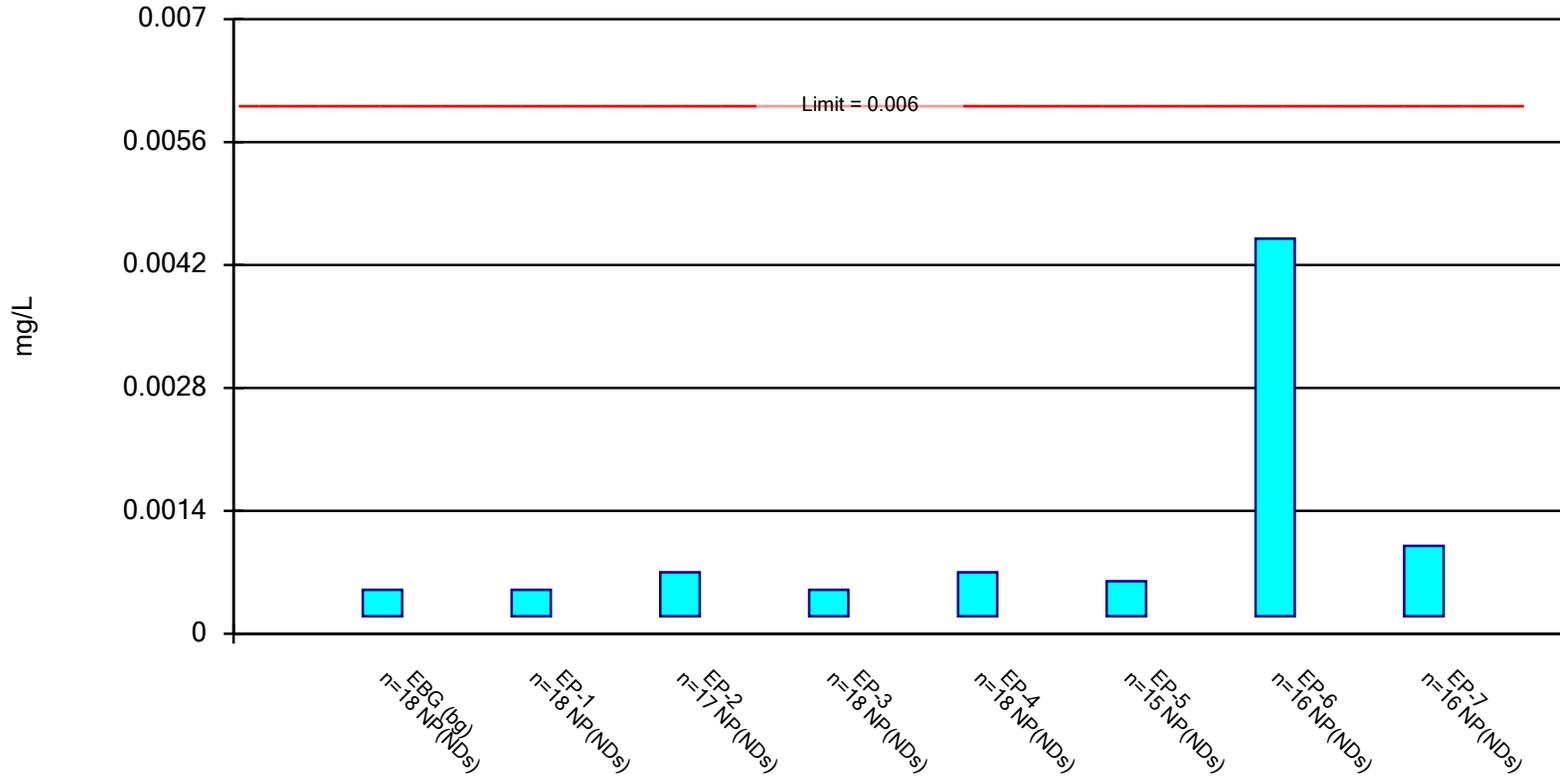
Constituent: Radium 226 Analysis Run 7/30/2025 10:58 AM
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

APPENDIX D-7

Q3 2025 Groundwater Protection Standard Exceedances

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

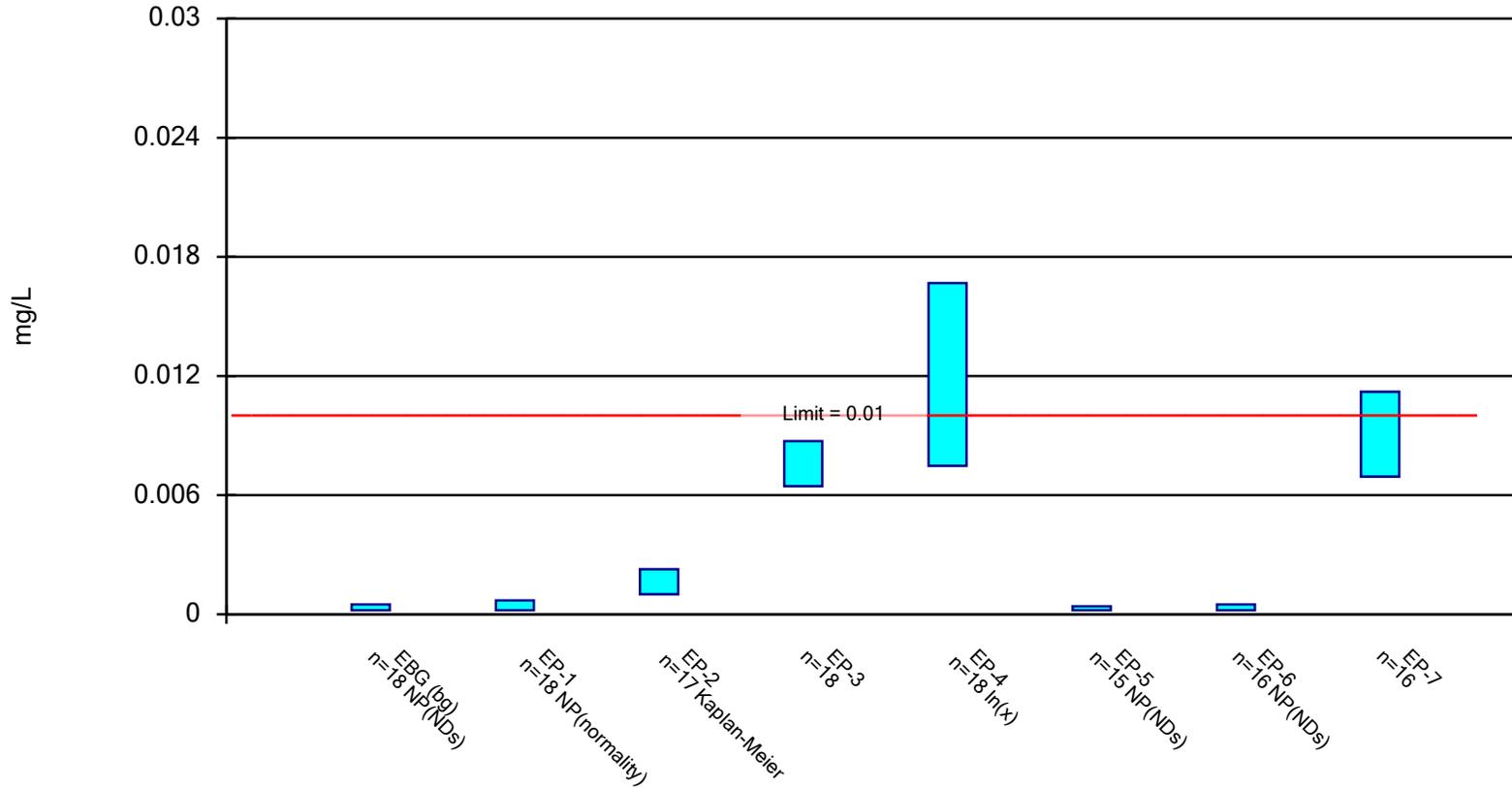


Constituent: Antimony Analysis Run 11/6/2025 4:46 PM View: IEPA

Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

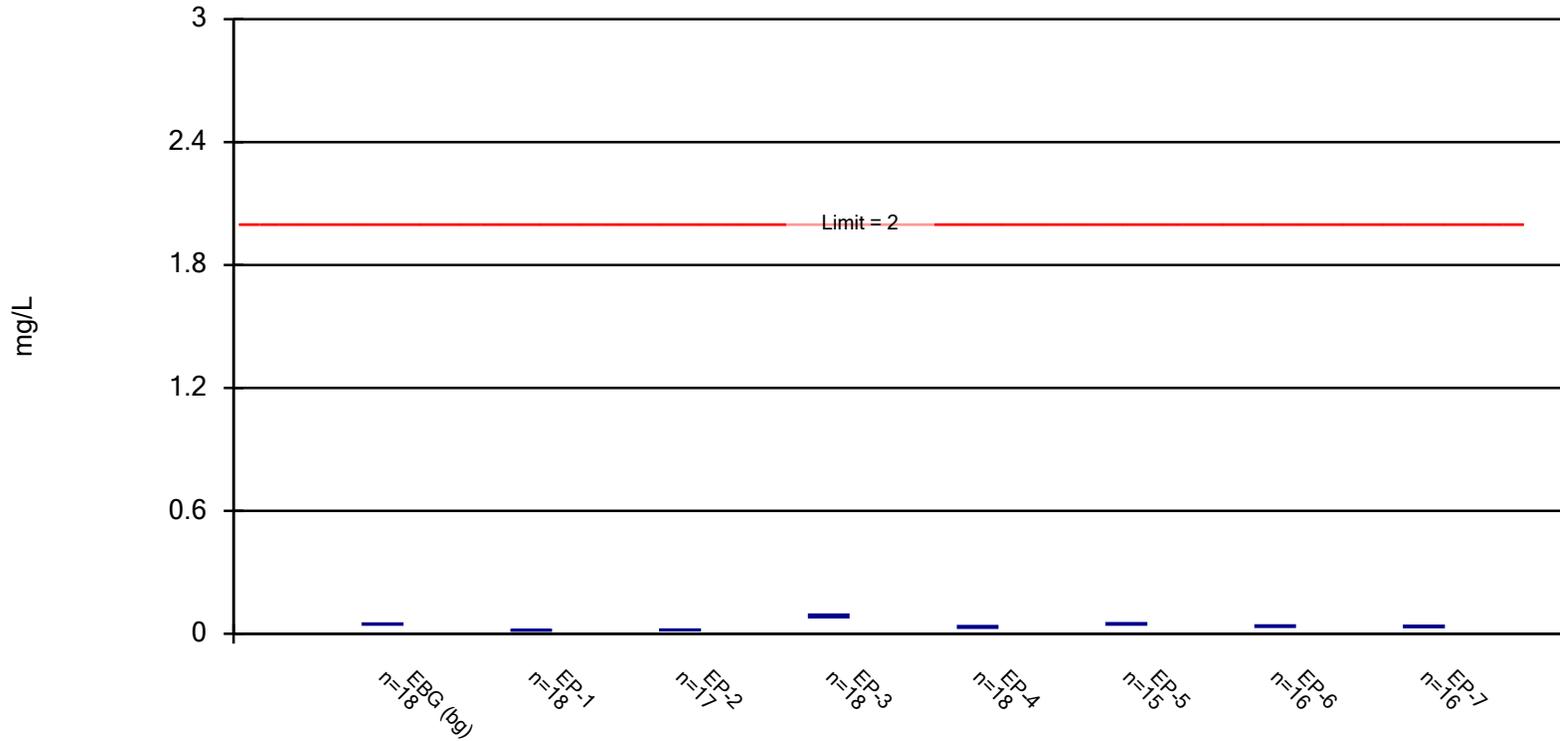
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/6/2025 4:46 PM View: IEPA
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric Confidence Interval

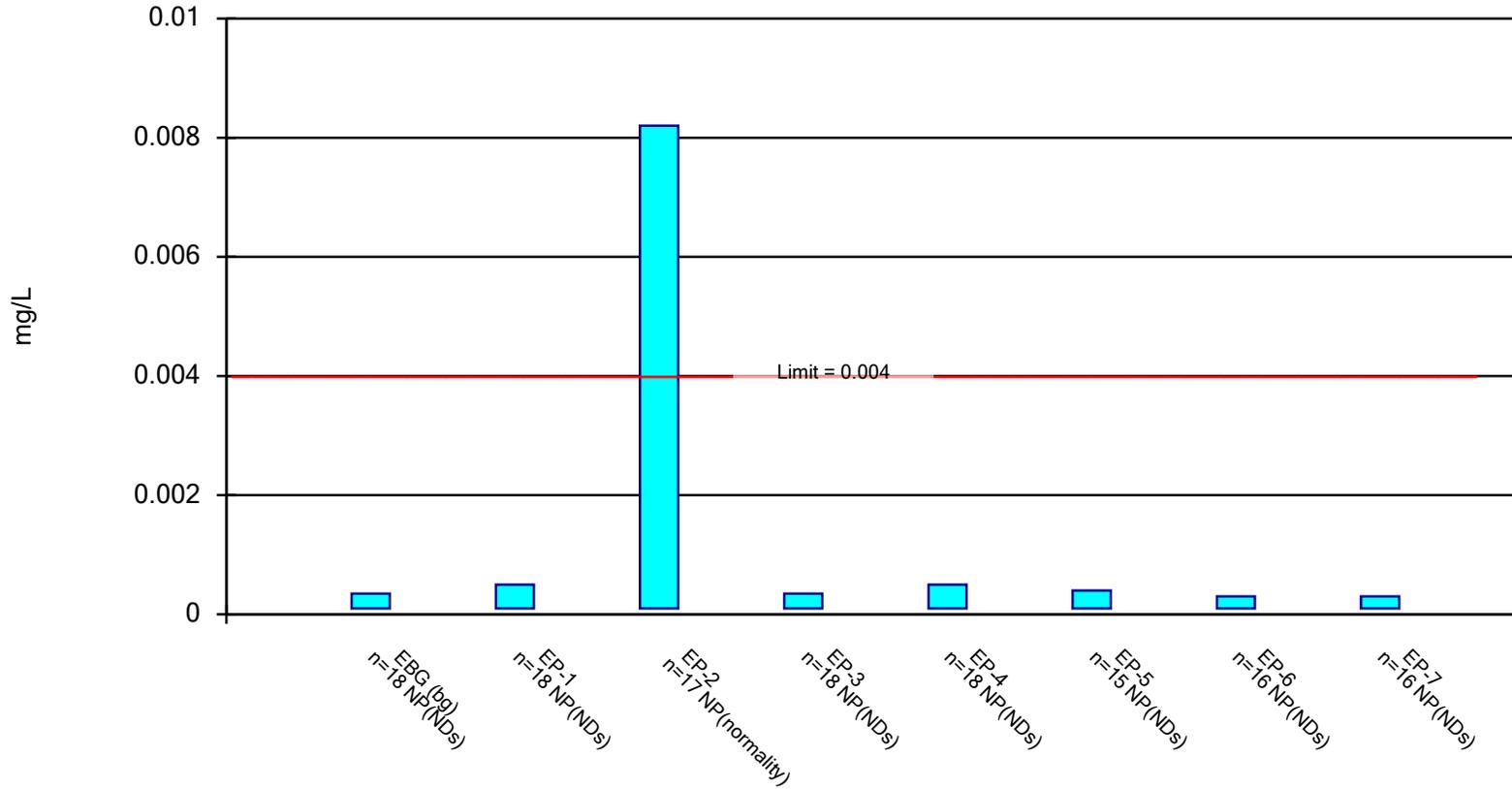
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/6/2025 4:46 PM View: IEPA
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

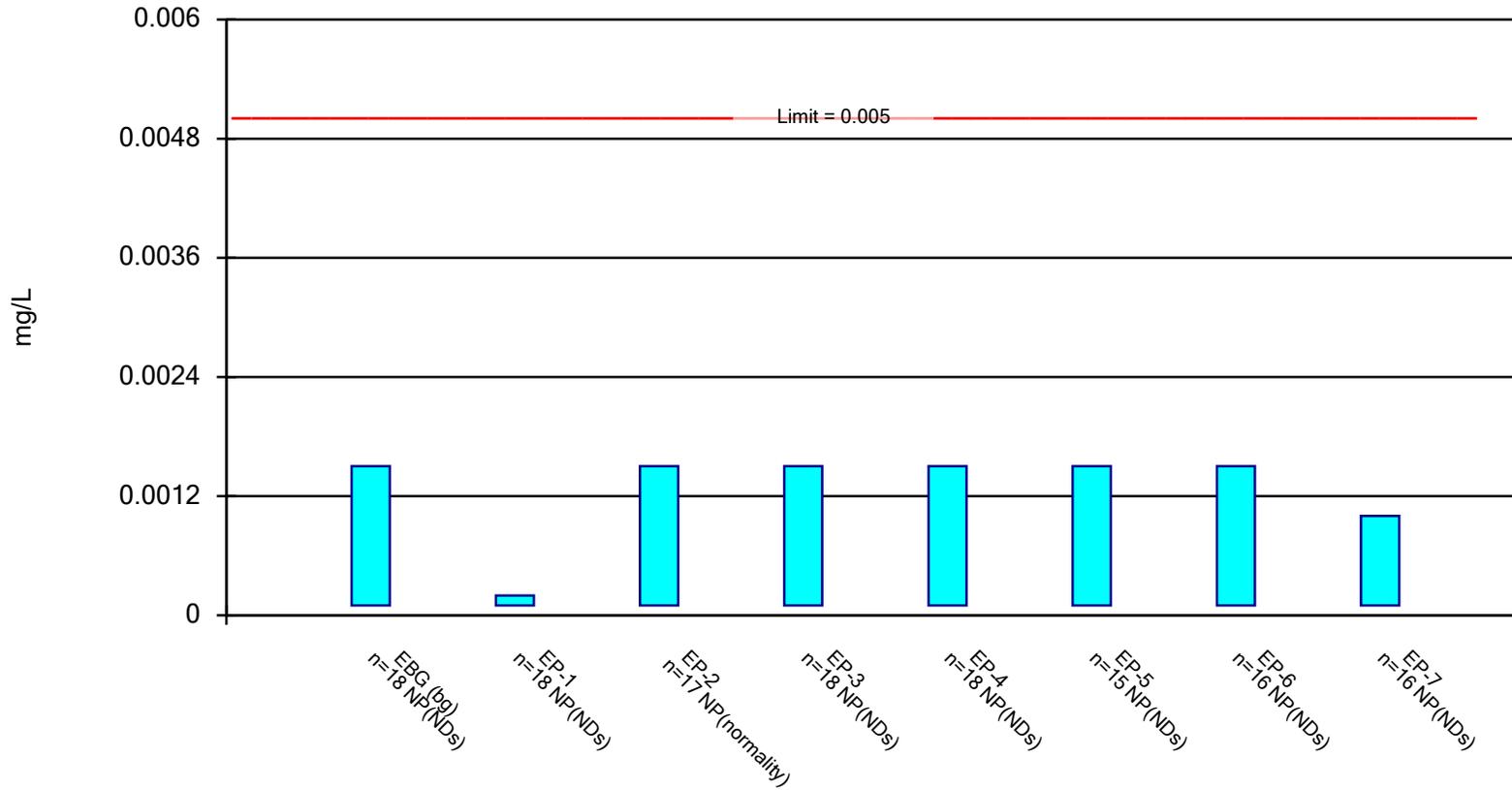


Constituent: Beryllium Analysis Run 11/6/2025 4:46 PM View: IEPA

Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

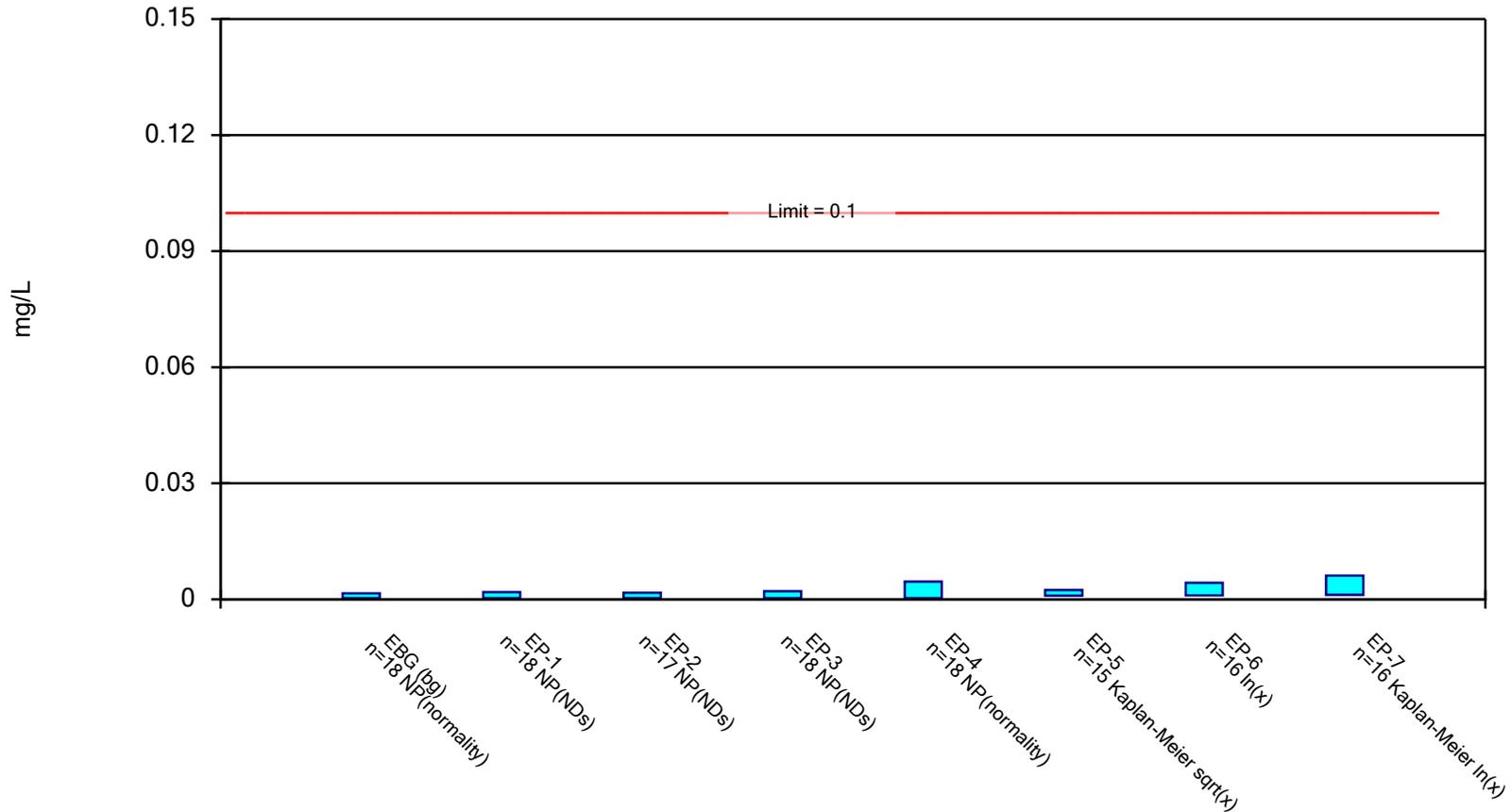


Constituent: Cadmium Analysis Run 11/6/2025 4:46 PM View: IEPA

Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

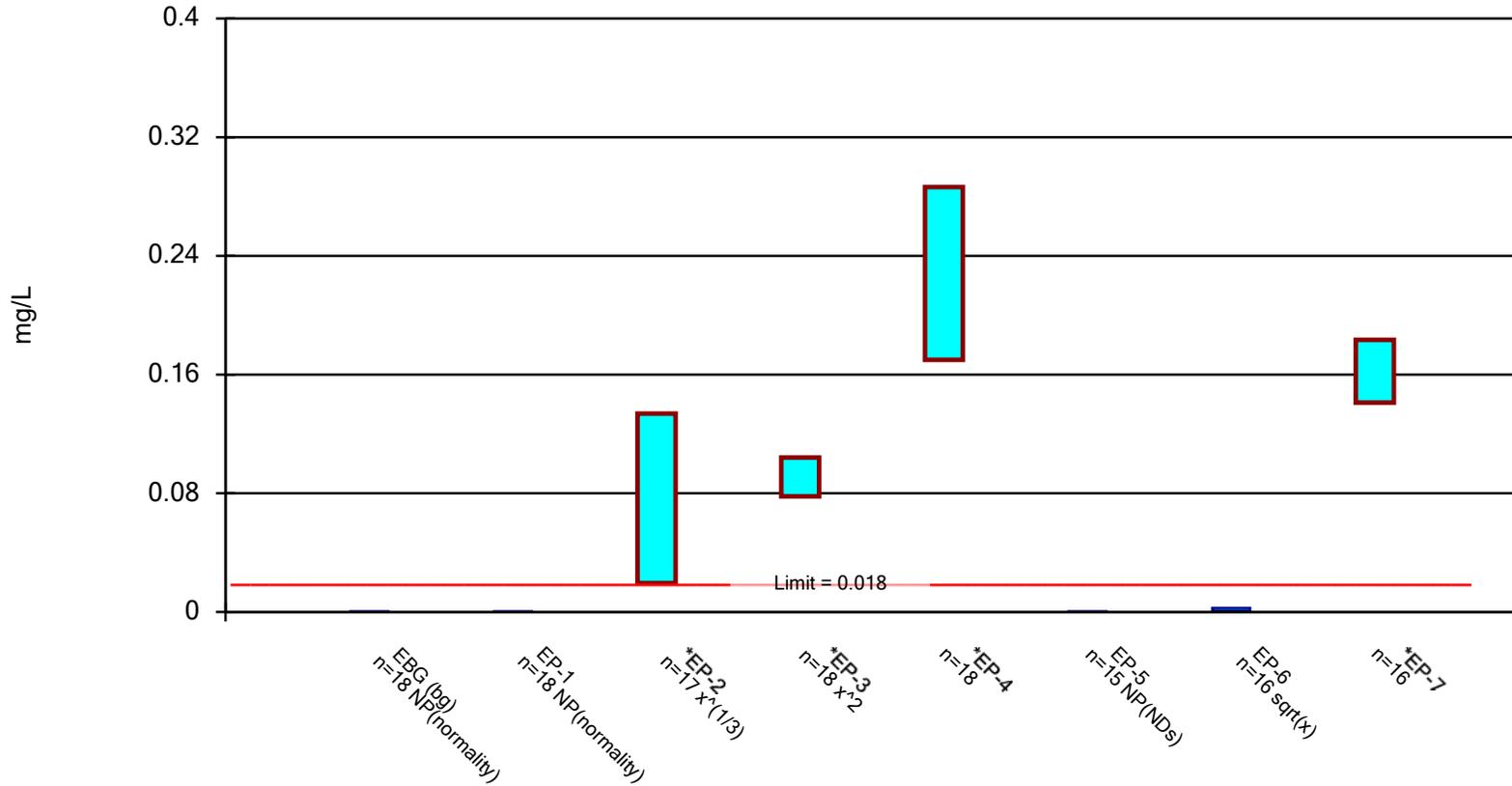


Constituent: Chromium Analysis Run 11/6/2025 4:46 PM View: IEPA

Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

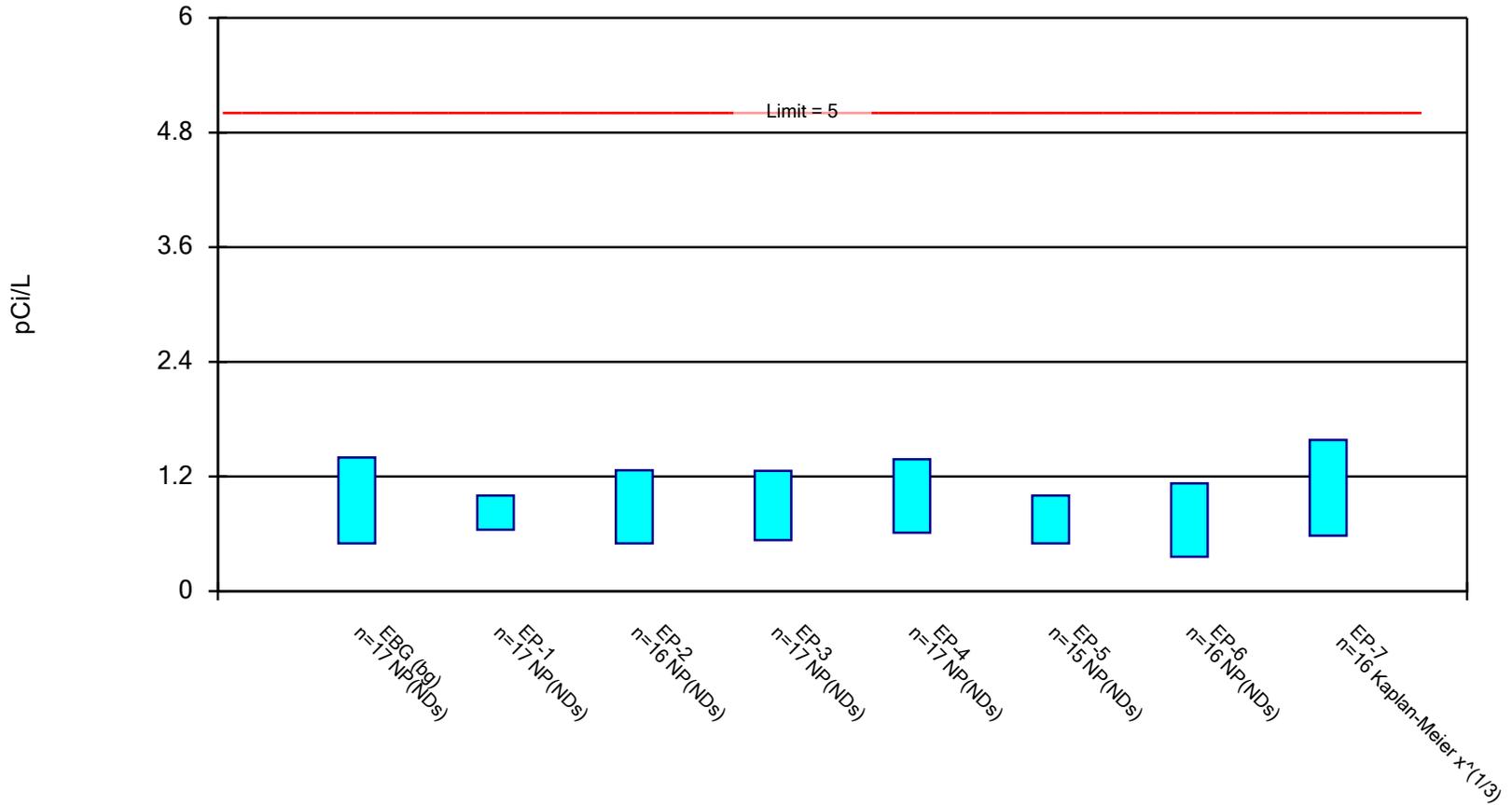
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/6/2025 4:46 PM View: IEPA
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

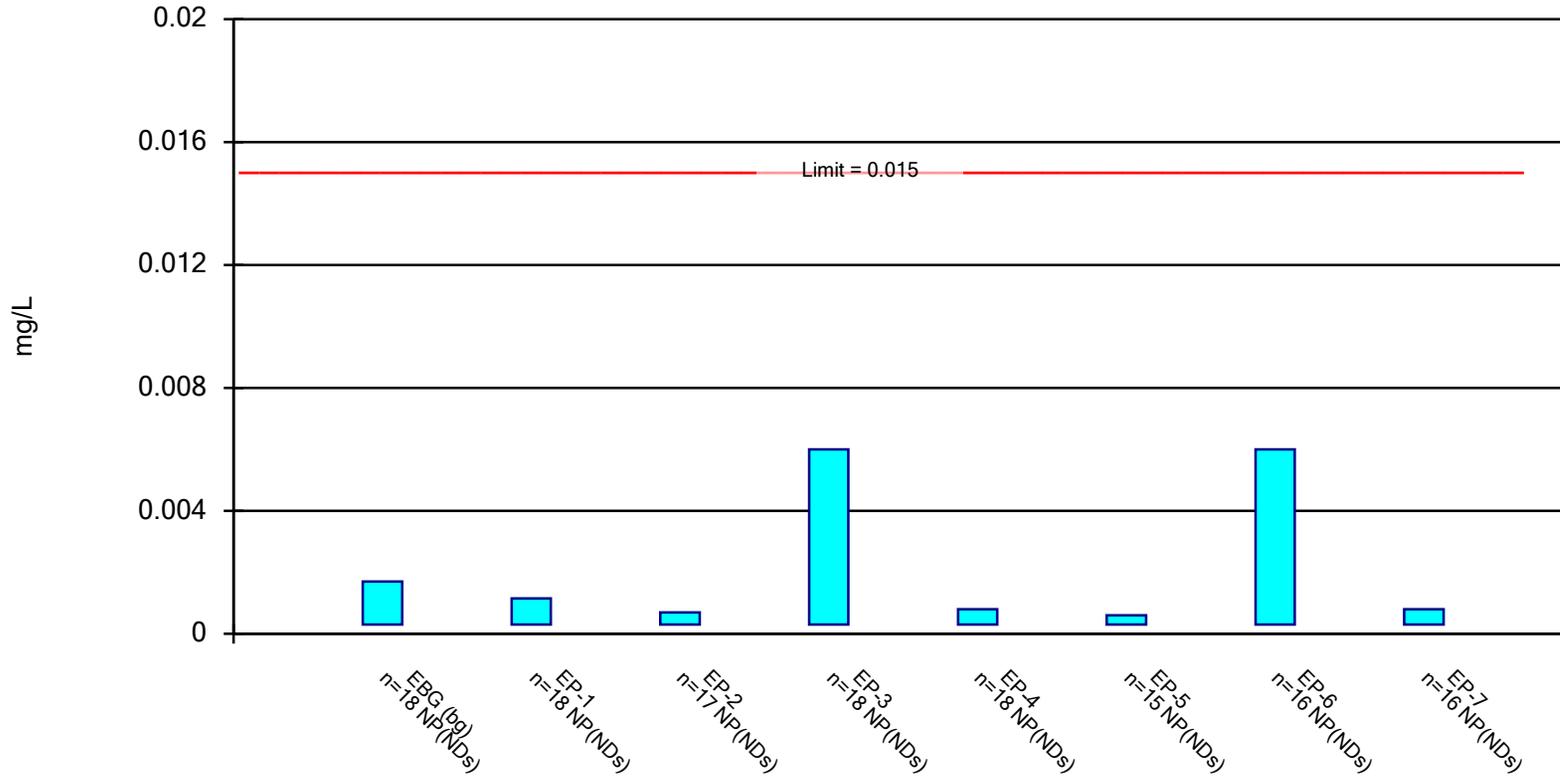


Constituent: Combined Radium Analysis Run 11/6/2025 4:46 PM View: IEPA

Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Non-Parametric Confidence Interval

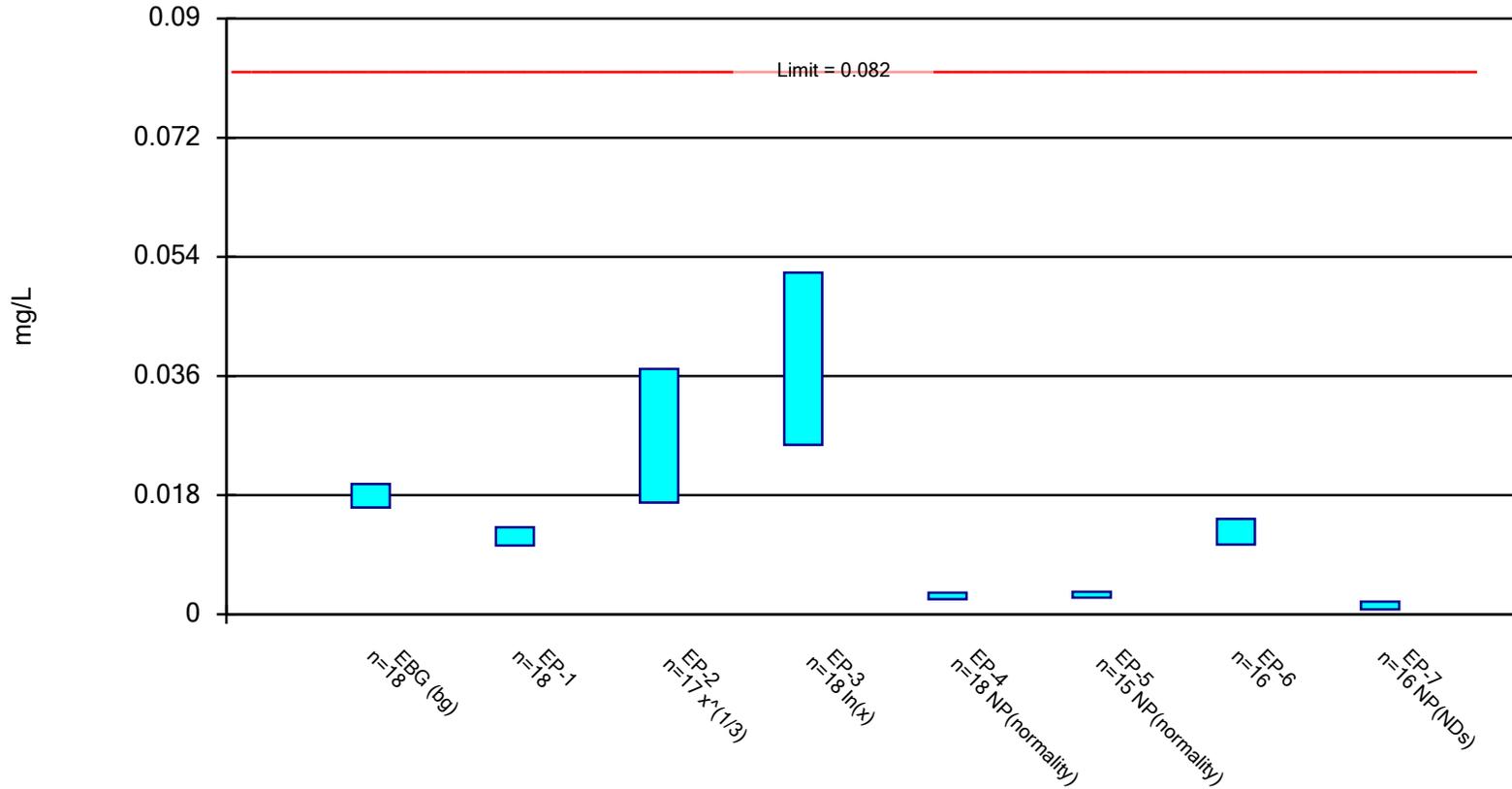
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/6/2025 4:46 PM View: IEPA
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

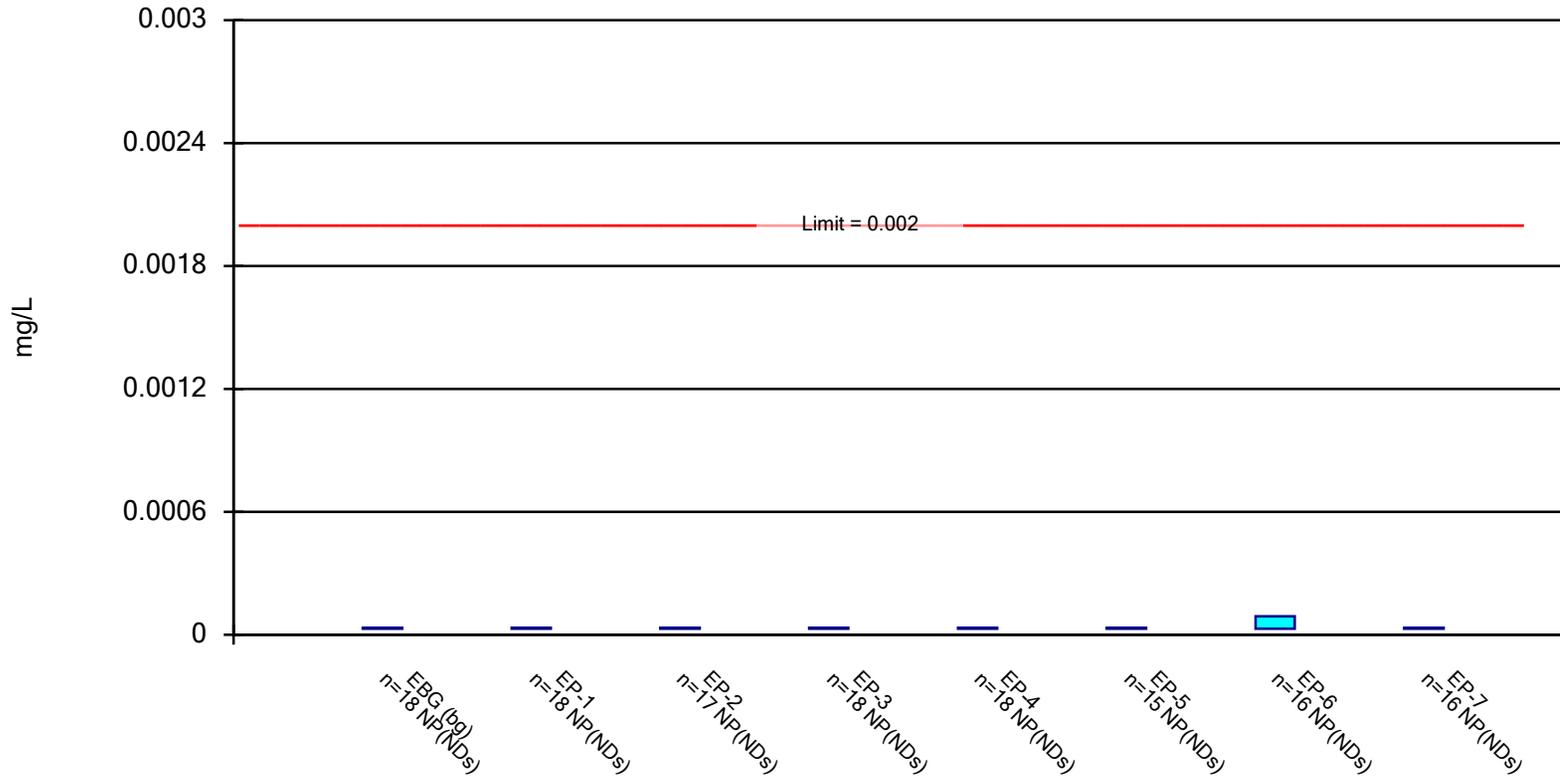
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/6/2025 4:46 PM View: IEPA
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

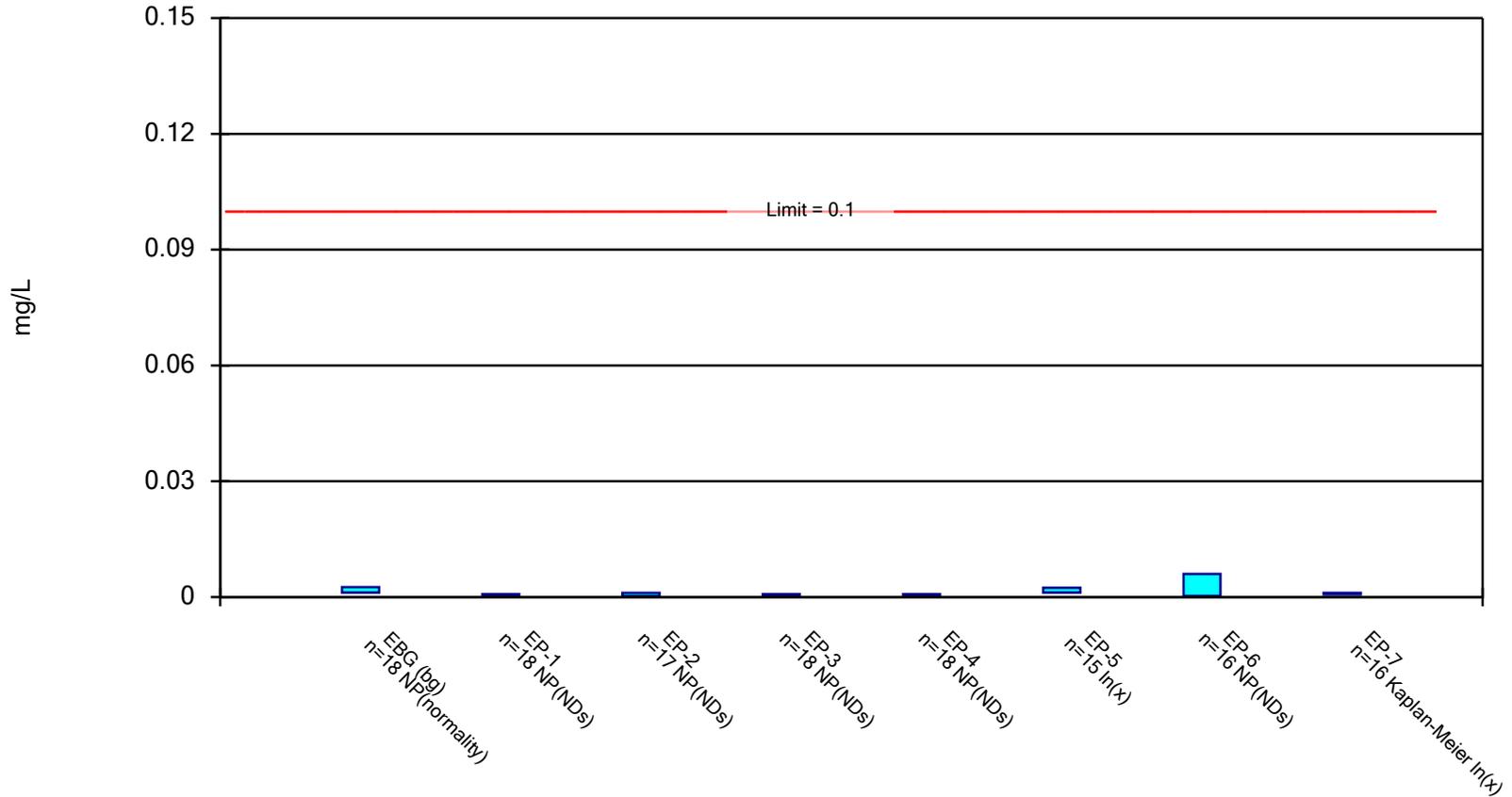


Constituent: Mercury Analysis Run 11/6/2025 4:46 PM View: IEPA

Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

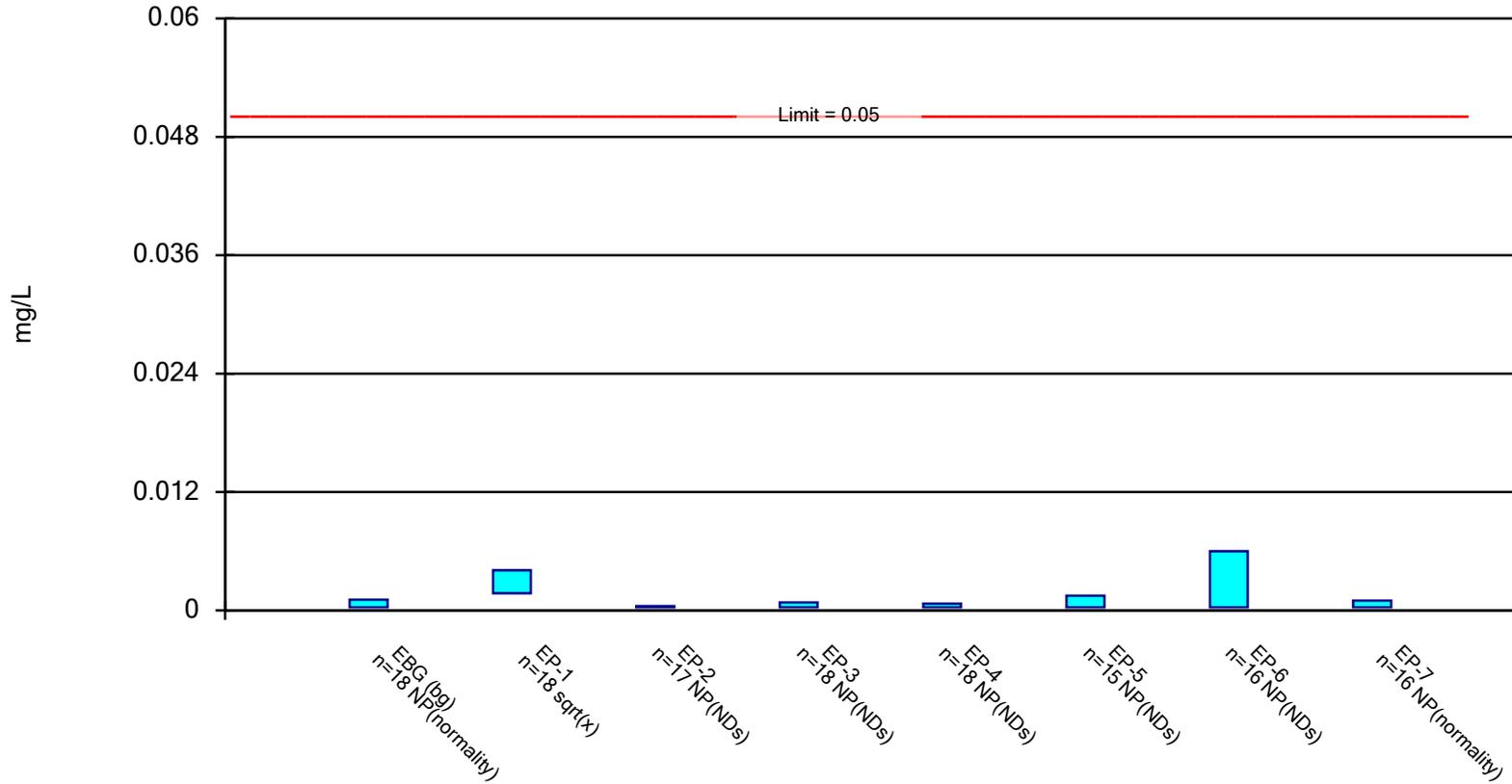


Constituent: Molybdenum Analysis Run 11/6/2025 4:46 PM View: IEPA

Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

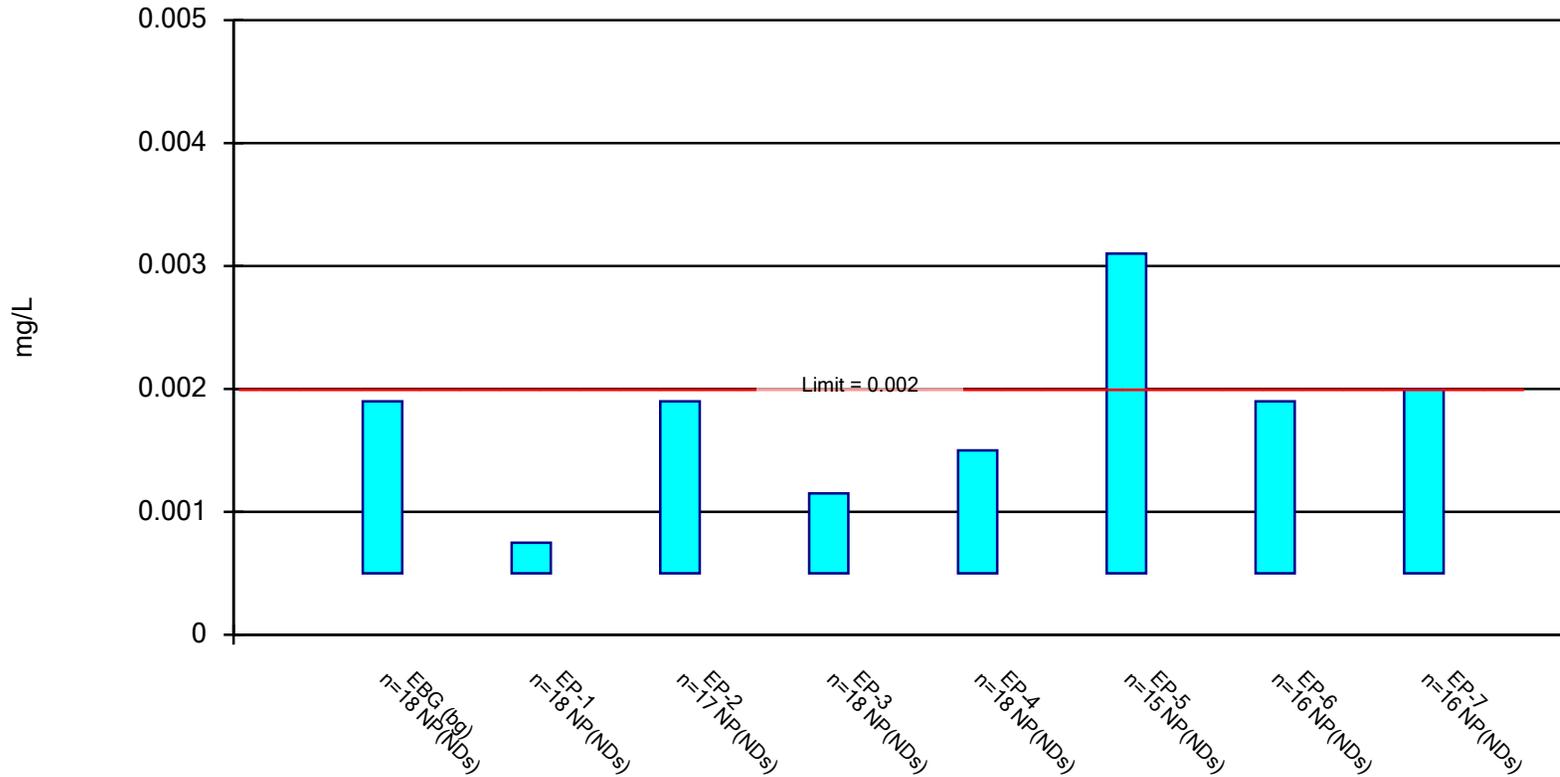


Constituent: Selenium Analysis Run 11/6/2025 4:46 PM View: IEPA

Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



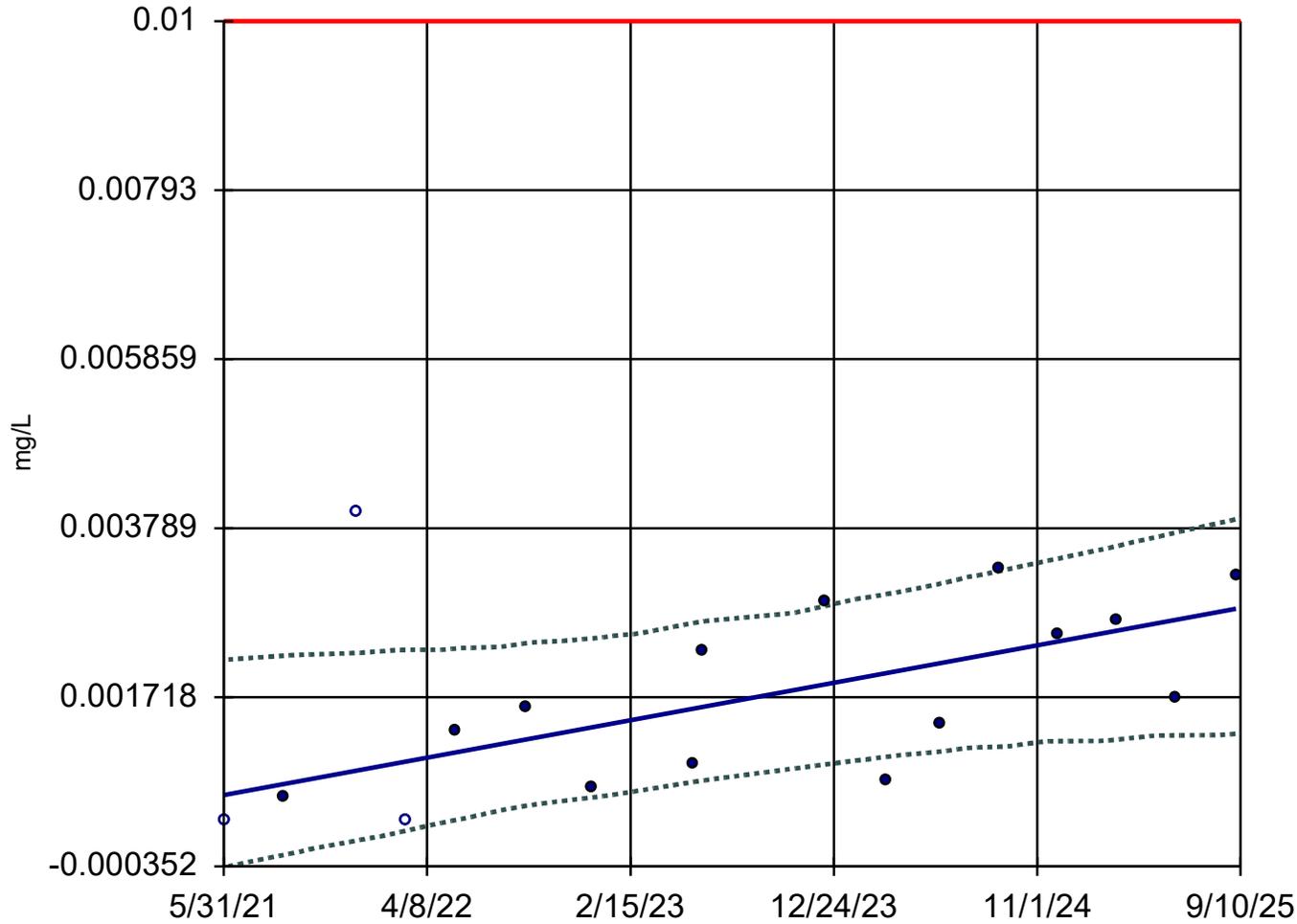
Constituent: Thallium Analysis Run 11/6/2025 4:46 PM View: IEPA
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

APPENDIX D-8

**Q3 2025 Statistically
Significant Trends**

Sen's Slope and 95% Confidence Band

EP-2



n = 17

Slope = 0.0005345
units per year.

Mann-Kendall
statistic = 61
critical = 58

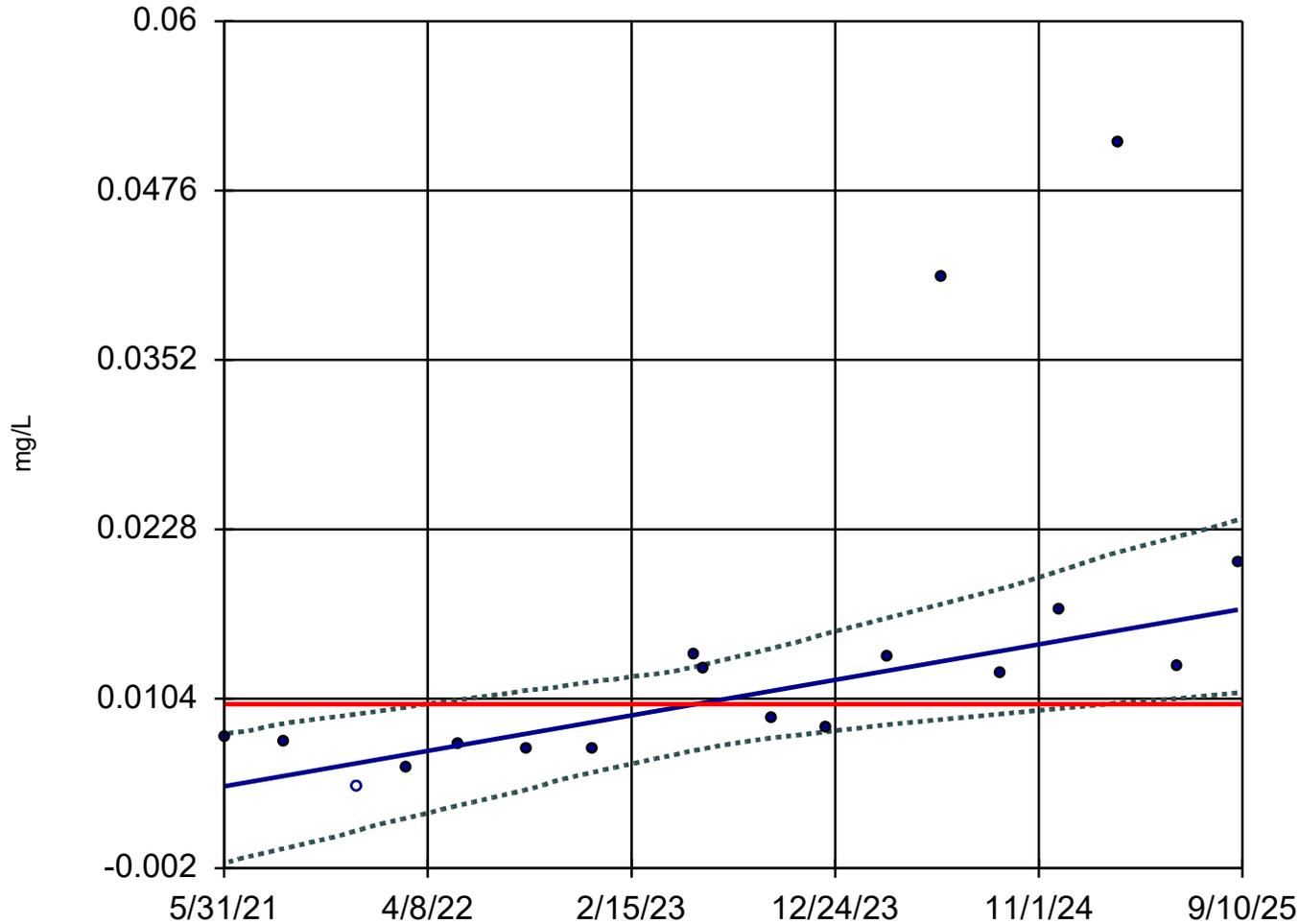
Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Confidence band is
below IEPA (0.01).

Constituent: Arsenic Analysis Run 11/6/2025 3:59 PM View: IEPA
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-4



n = 18

Slope = 0.003029
units per year.

Mann-Kendall
statistic = 88
critical = 63

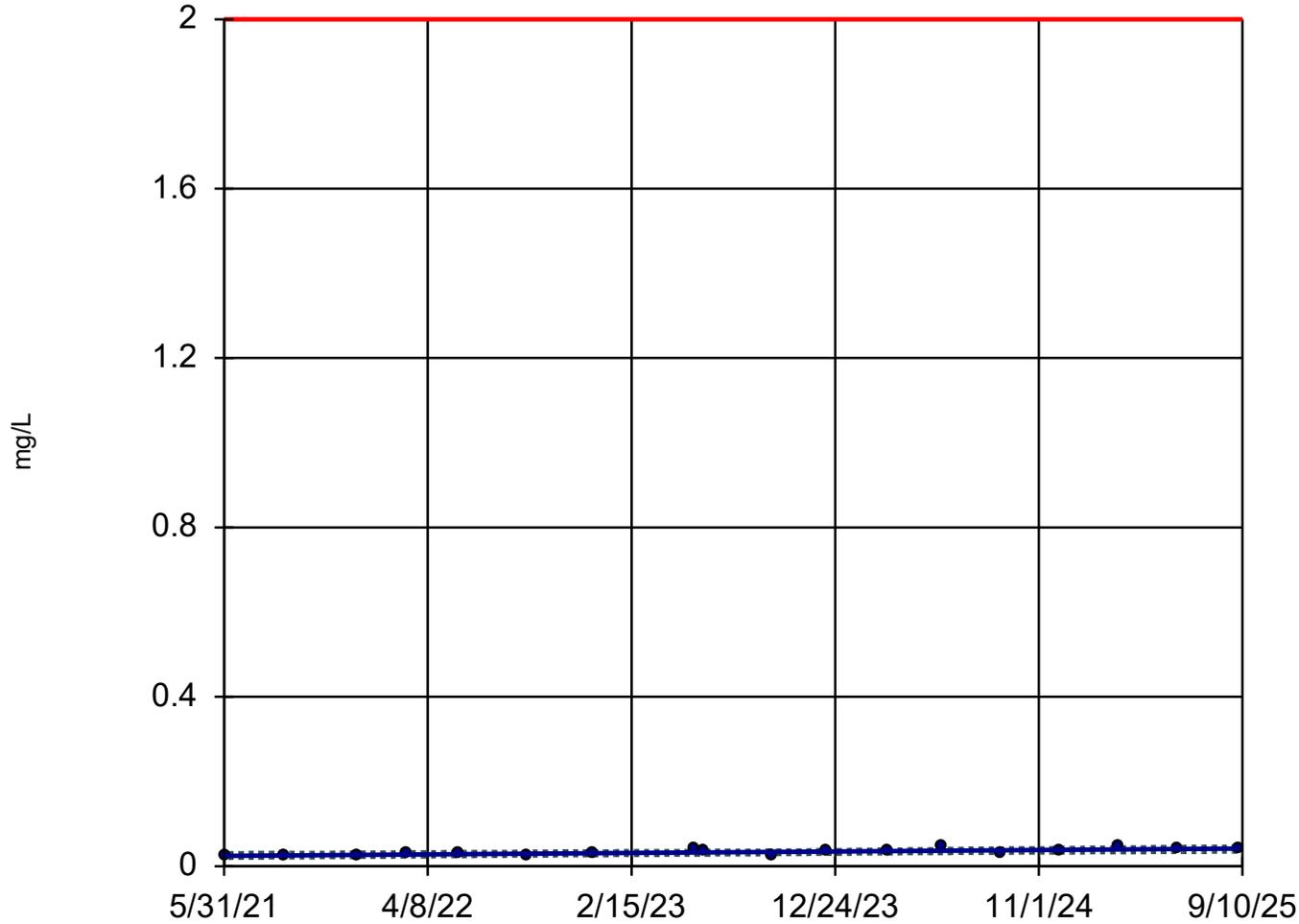
Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Confidence band intersects
IEPA (0.01) on 04/14/22
and 02/20/25.

Constituent: Arsenic Analysis Run 11/6/2025 3:59 PM View: IEPA
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-4



n = 18

Slope = 0.004022
units per year.

Mann-Kendall
statistic = 87
critical = 63

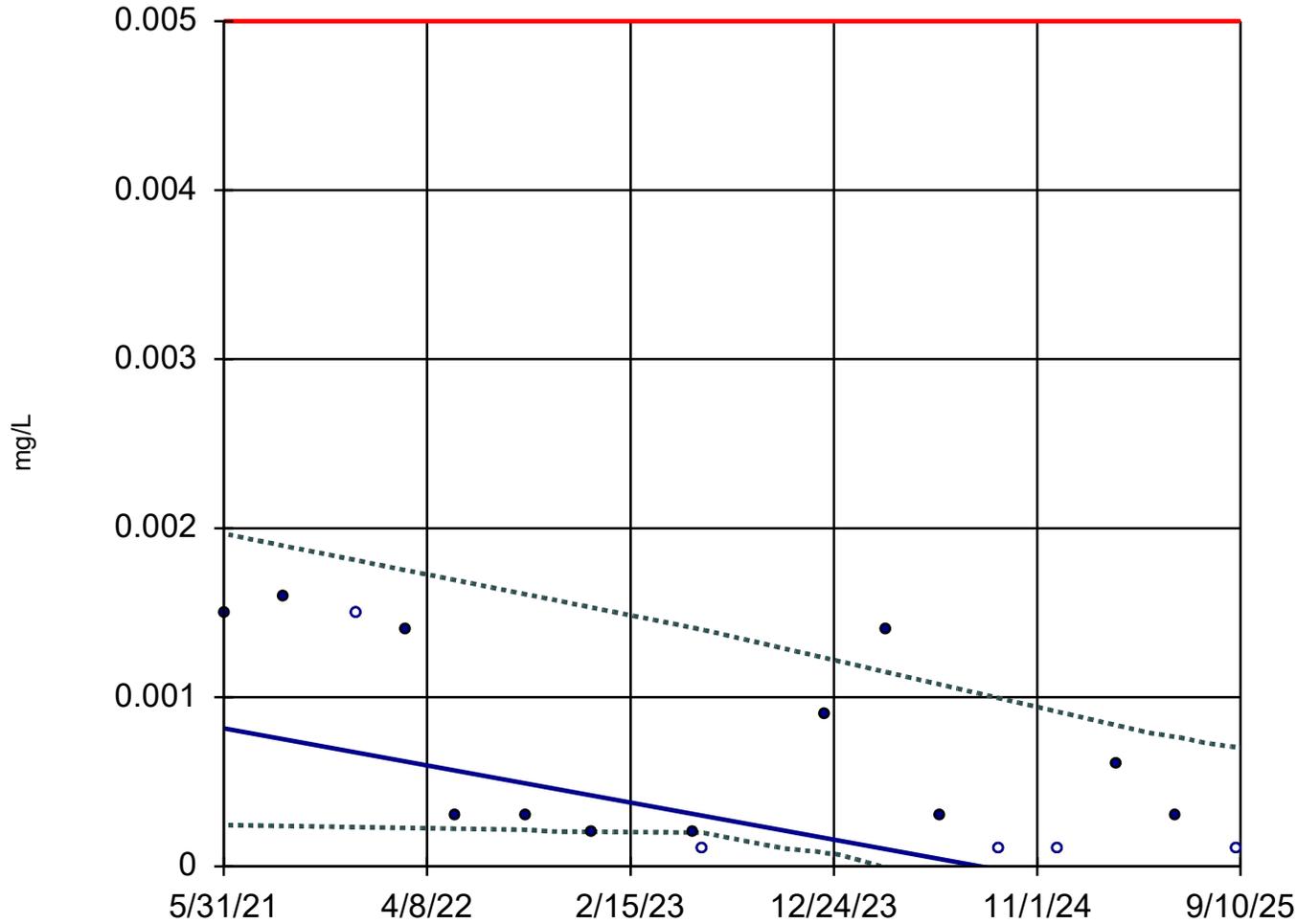
Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Confidence band is
below IEPA (2).

Constituent: Barium Analysis Run 11/6/2025 3:59 PM View: IEPA
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-2

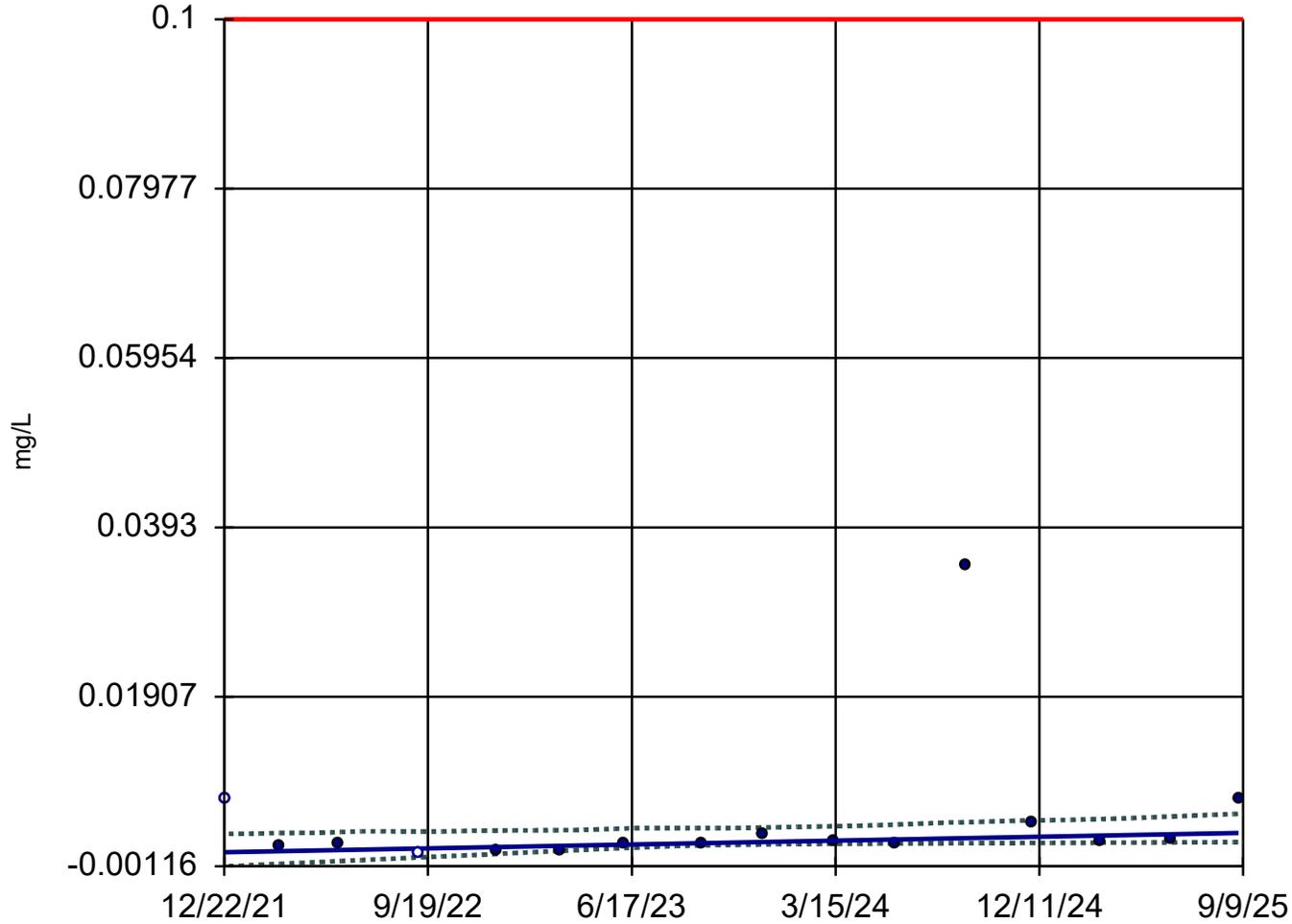


n = 17
Slope = -0.0002562
units per year.
Mann-Kendall
statistic = -65
critical = -58
Decreasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).
Confidence band is
below IEPA (0.005).

Constituent: Cadmium Analysis Run 11/6/2025 3:59 PM View: IEPA
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-6

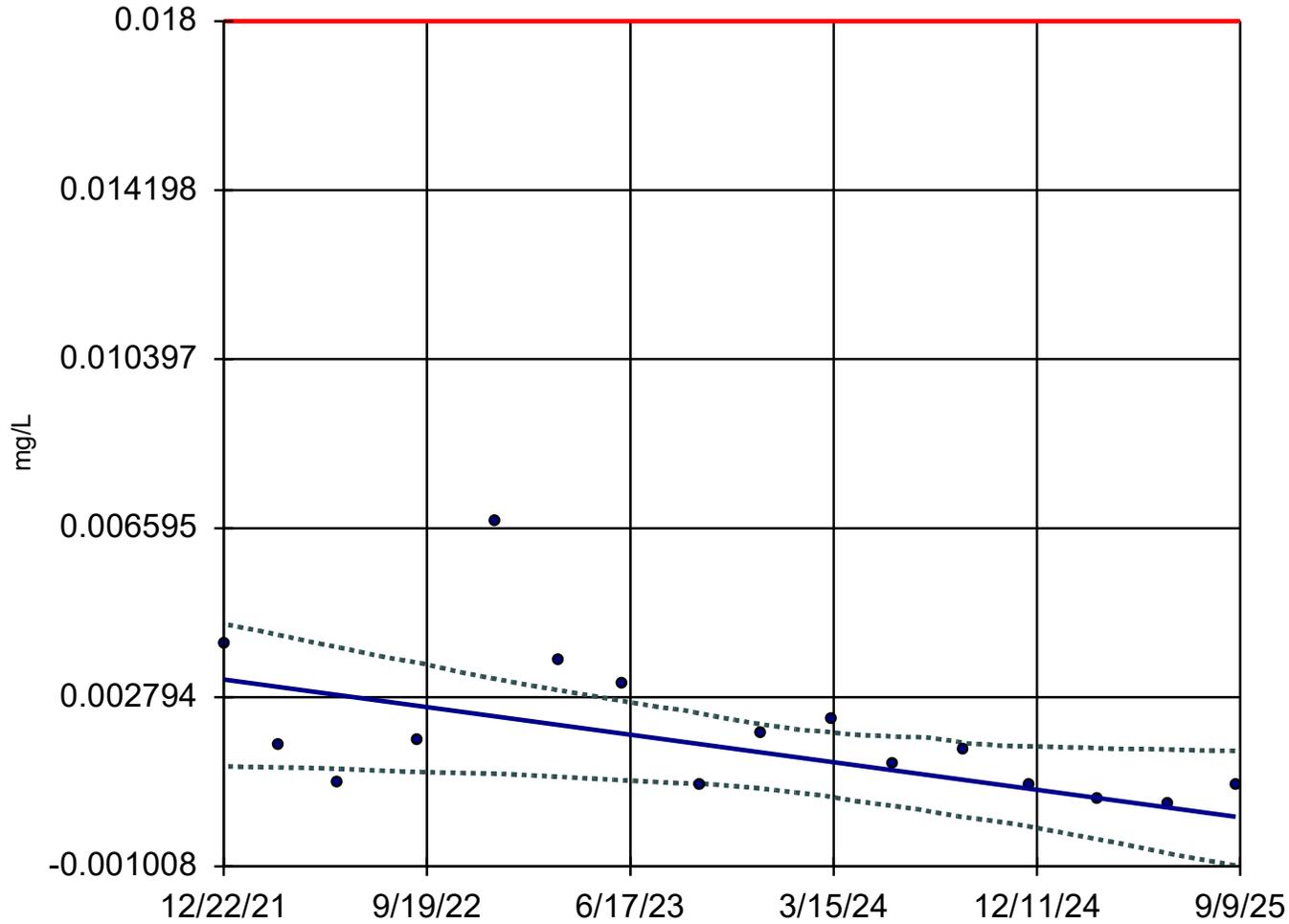


n = 16
Slope = 0.0006215
units per year.
Mann-Kendall
statistic = 55
critical = 53
Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).
Confidence band is
below IEPA (0.1).

Constituent: Chromium Analysis Run 11/6/2025 4:00 PM View: IEPA
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-6

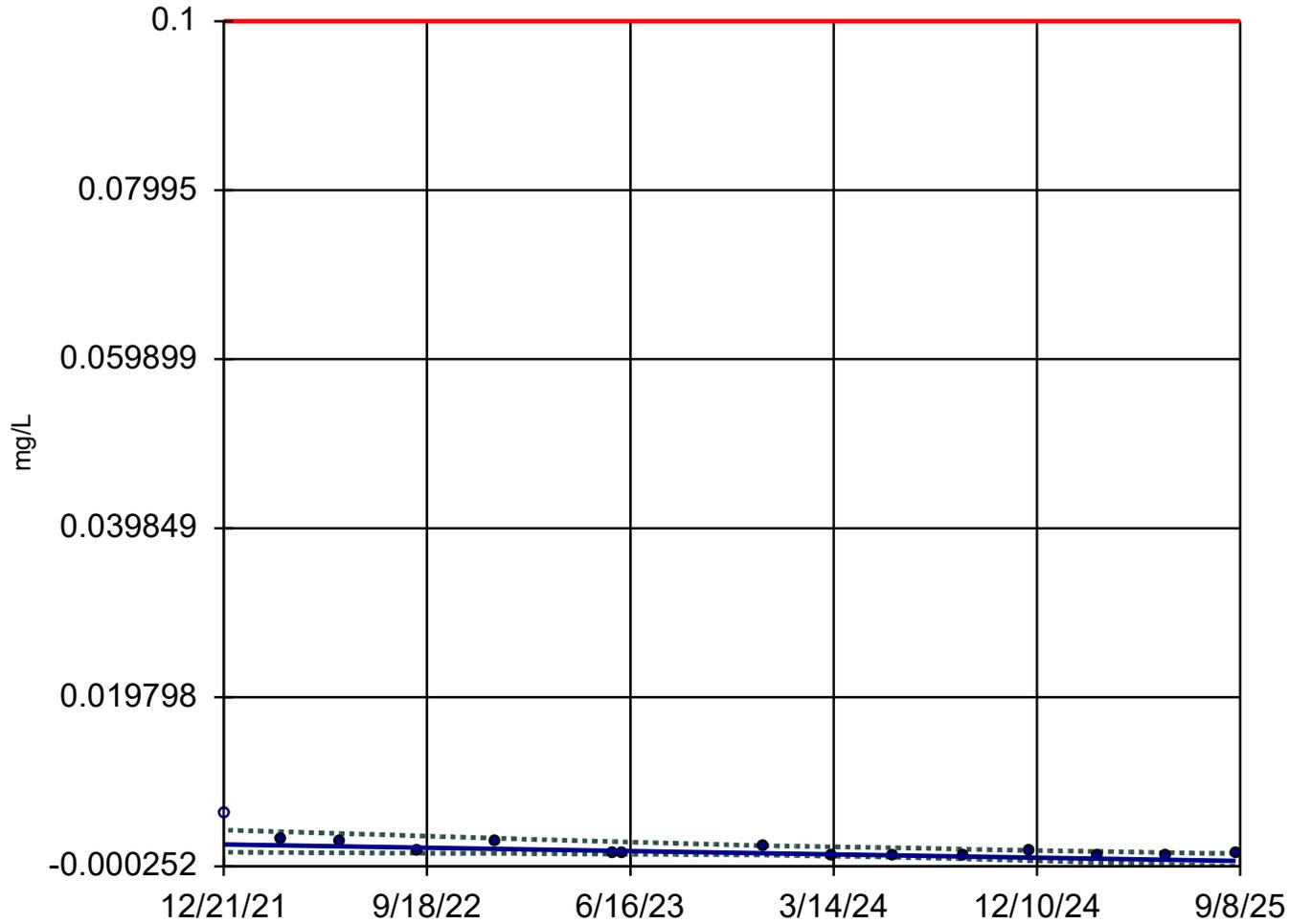


n = 16
Slope = -0.0008334 units per year.
Mann-Kendall statistic = -61 critical = -53
Decreasing trend significant at 98% confidence level ($\alpha = 0.01$ per tail).
Confidence band is below IEPA (0.018).

Constituent: Cobalt Analysis Run 11/6/2025 4:00 PM View: IEPA
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

EP-5

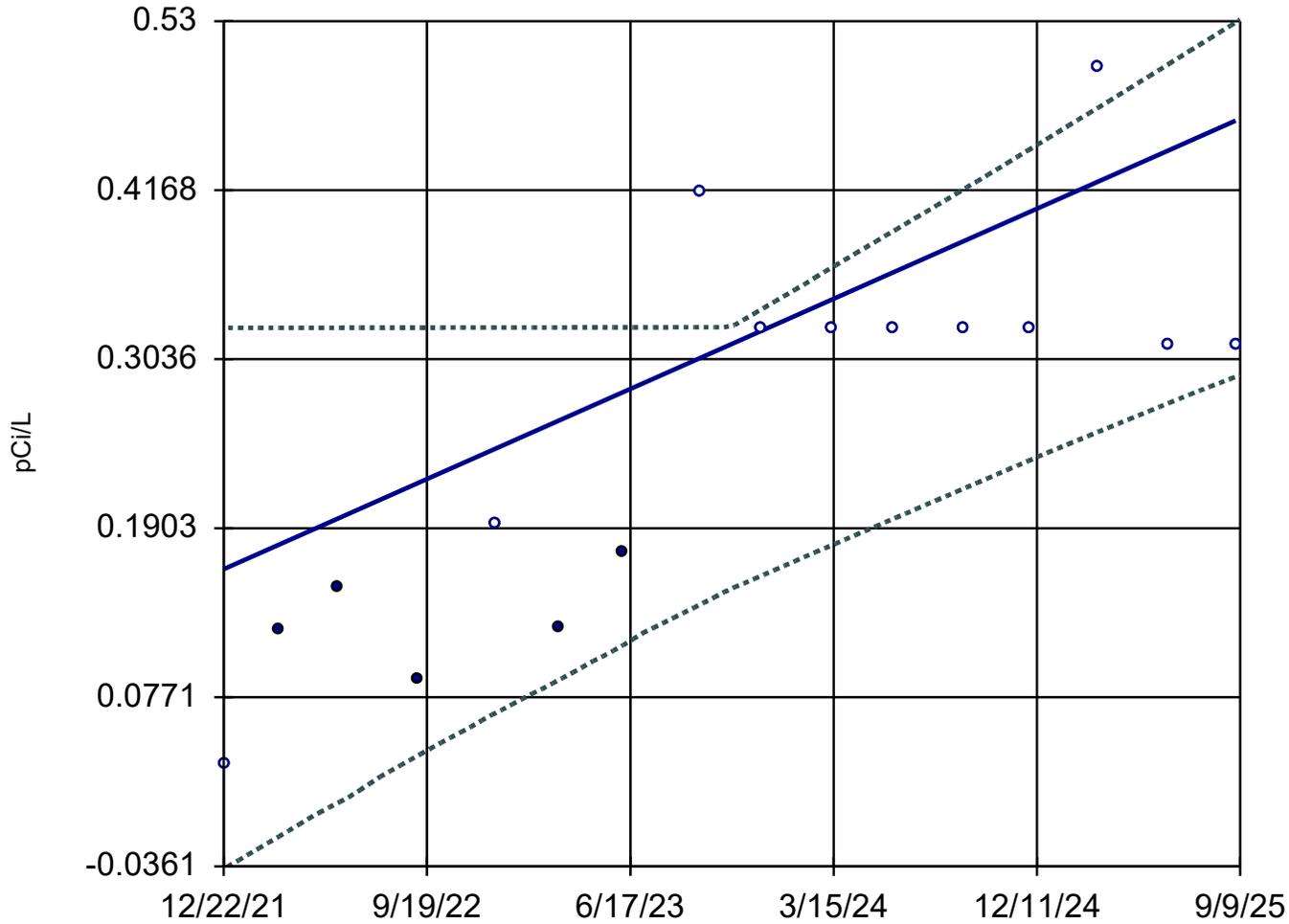


n = 15
Slope = -0.0005206
units per year.
Mann-Kendall
statistic = -65
critical = -48
Decreasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).
Confidence band is
below IEPA (0.1).

Constituent: Molybdenum Analysis Run 11/6/2025 4:00 PM View: IEPA
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band

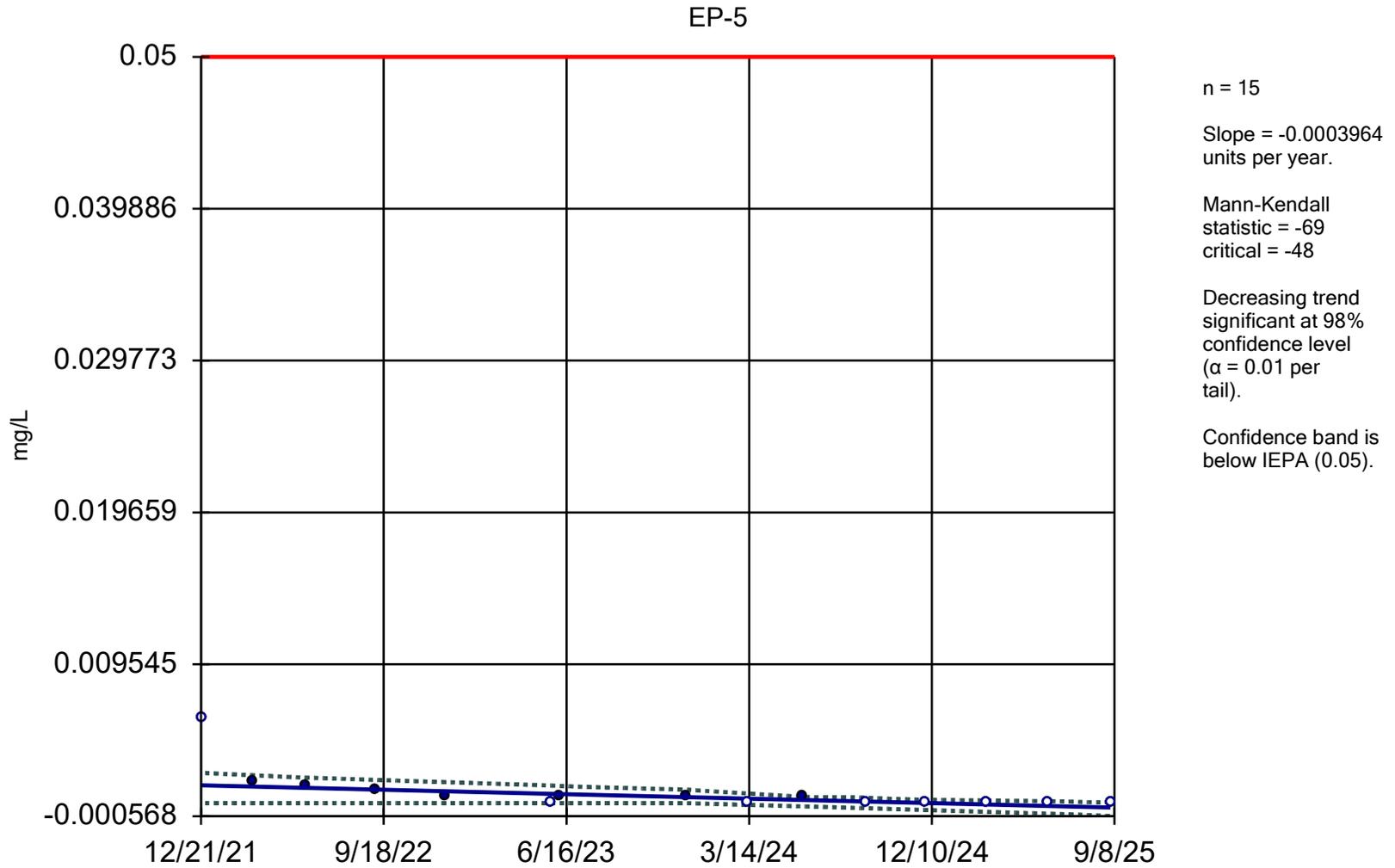
EP-6



n = 16
Slope = 0.08119 units per year.
Mann-Kendall statistic = 61
critical = 53
Increasing trend significant at 98% confidence level ($\alpha = 0.01$ per tail).

Constituent: Radium 226 Analysis Run 11/6/2025 4:00 PM View: IEPA
Marion Power Plant Client: SIPC Data: SIPC Statistical Database

Sen's Slope and 95% Confidence Band



Constituent: Selenium Analysis Run 11/6/2025 4:01 PM View: IEPA
Marion Power Plant Client: SIPC Data: SIPC Statistical Database